

CITY OF PEWAUKEE
ANNUAL REPORT TO
THE DEPARTMENT OF NATURAL
RESOURCES

IN ACCORDANCE WITH
NR216 PERMIT REQUIREMENTS

SUBMITTED MARCH 31, 2021

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 a diesel fuel leak on August 31, 2020. Approximately 50 gallons of fuel had spread over a 150 square foot area of pavement on Spring Hill Drive. The fuel did not enter into the City's MS4 system or enter any waterways. Ten 5 gallon bags of oil dry was used to mitigate the spill along with additional oil dry provided by the contractor. The Department of Natural Resources (DNR) and the City Department of Public Works were both contacted. The contractor was responsible for cleanup of the oil absorbent products applied to the roadway which was verified by the PFD later that day. Follow up conversations were conducted with the DNR and additional evaluations were made by the PFD to evaluate staining of the roadway and any remaining odor.

City Staff responded to a potential illicit discharge to the road side ditch system along Lexington Drive. A resident was complaining of a sewage odor coming from the water in the ditch line. The complaint was initially investigated by the City's Water and Sewer Utility Staff before forwarding to Engineering Staff. The discharge originated in the City of Waukesha and was being investigated by their Staff. At the time City of Pewaukee Engineering Staff conducted their field evaluation, there was no odor present within the ditch lines and all remaining water was clear. The City of Pewaukee was later informed by the City of Waukesha that the discharge was pool water from a multi-family development in the City of Waukesha.

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 2020. 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 2021/2022. Any program re-evaluation will be consistent with the recommendations provided in DNR program guidance document 3800-2012-01.

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 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 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 4 erosion control permits for new development and conducted approximately 389 compliance inspections in 2020. Eight Notices of Noncompliance, four Notices of Violation, one Enforcement Conference and \$8500.00 in Recommendations for Fines were issued during the reporting year.

The Building Inspection Department conducted approximately 209 erosion bond and 108 erosion control inspections in 2020.

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 site. The City's ordinance generally 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 2 permits for post-construction site discharges from new development in 2020. City Staff and consultants have conducted reviews of submittals for 6 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 generally 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: drafting 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. A copy of the draft program is included as Item B along with copies of the inspection forms created thus far.

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 8 municipal facilities between Wagner Park, the City Hall Campus and the newly constructed Pewaukee Sports Complex.

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 adequately conduct inspections of the 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.

The two municipal facilities located in Wagner Park are inspected annually by City Staff. Five of the remaining six facilities (4 facilities at the Pewaukee Sports Complex, 1 bioretention facility at Wagner Park and 1 bioretention facility at the City Hall Campus site) were inspected in 2020, the exception being the bioretention facility at Wagner Park. Asbuilt surveys of the Sports Complex ponds, the City Hall biofiltration device and the Wagner Park biofiltration device were not completed during the reporting year.

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 28 pond asbuilts, 30 maintenance agreements and 92 storm water management plans have been located and scanned into the City's network.

Inspections of the 2 wet ponds at Wagner Park, 1 wet pond at the Pewaukee Sports Complex and the City Hall biofiltration device show the facilities are in need of maintenance activities. City Staff also conducted 2 inspections of privately owned storm water management ponds and received an additional 6 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 26 tons of solids were removed as a result of catch basin cleanings in 2020. Additionally, 13 storm sewer structures were repaired by the Highway Department in 2020. The City released a contract in late 2020 for the repair or replacement of approximately 228 storm sewer structures. As of the end of 2020, approximately 48 storm sewer structures had been repaired or replaced.

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 several 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 96 hours were spent sweeping 804 miles of streets in 2020. This effort removed approximately 68.2 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. One City Staff member from the Engineering Department attended the Wisconsin Salt Wise training over the winter in 2021 and 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.

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".

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

*Total includes salt and salt/sand mixture.

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 2020-2021 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 2020-2021 winter season is calculated to be 210 tons lower than the previous season with approximately 2250 total tons of salt used. This translates to approximately 12.2 tons per lane mile of salt applied to City Streets which is 1.2 tons per lane mile lower than the previous year. By comparison, Waukesha County was reported to have utilized approximately 13.7 tons of salt/lane mile for the 2019-2020 winter season which was 0.3 tons per lane mile higher 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 2020-2021 winter season is approximately 14.9 tons per lane mile. The winter management summary tables for each year of the program are attached to this report as Item C.

Describe Any Planned Changes to the Program

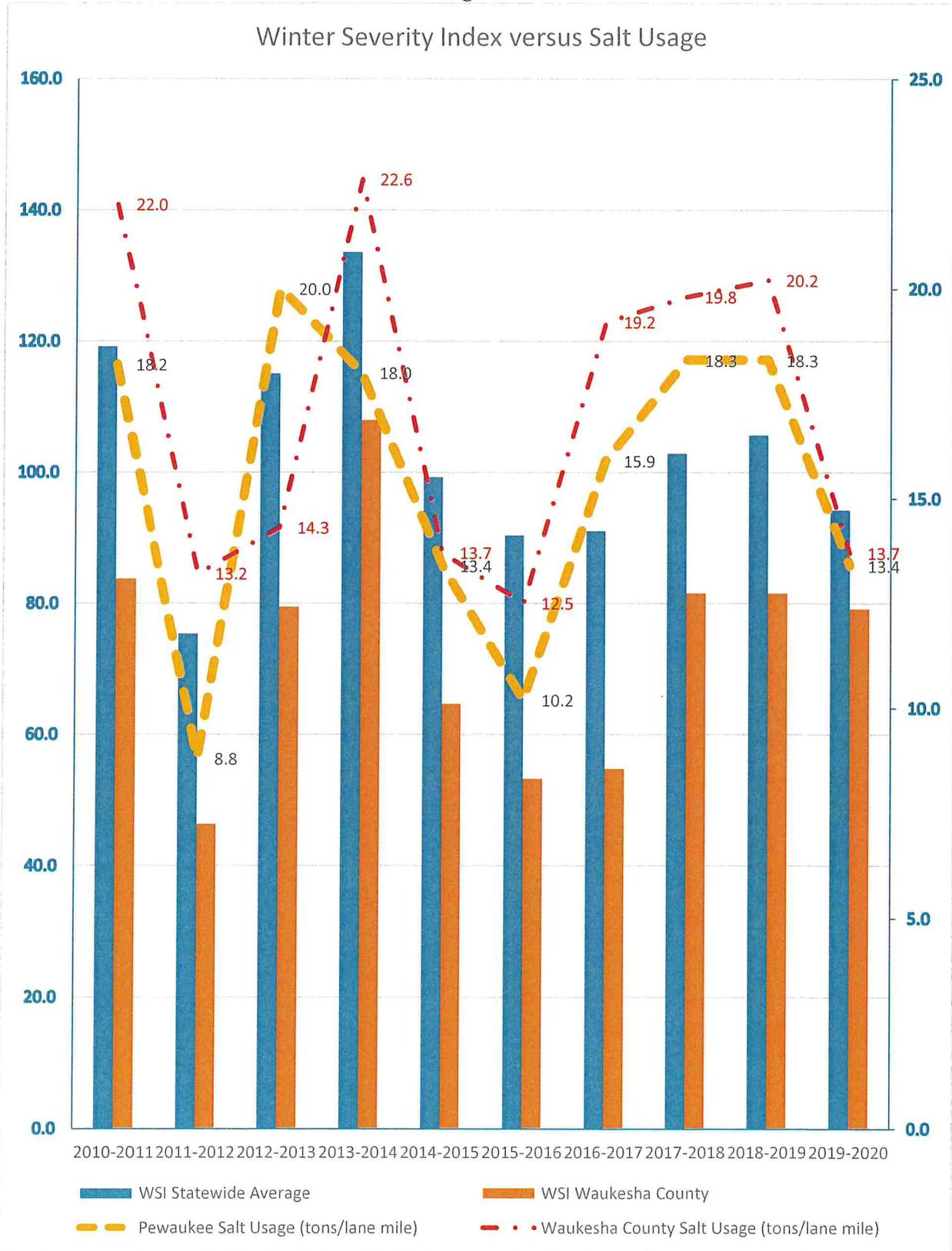
None at this time.

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
Approx. Total Snowfall (inches)	61.9	29.6	45.0	63.4	43.0	39.1	37.6	46.7	55.8	36.7	47.0
Number of Measurable Events	45	26	31	52	38	25	23	36	40	31	28
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
Total Tons of Salt	3203*	1558	3548	3174	2396	1881	2914	3372	3376	2460	2250
Total Hours Worked	NA	596	1272	1863	903	812	1171	1215	1564	1213	1230
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
Average Pavement Temp. (degrees F)	NA	NA	NA	20.1	20.9	26.7	25.3	23.1	26.4	28.3	16.8
WisDOT Statewide WSI	119.2	75.4	115.1	133.6	99.3	90.4	91.1	102.9	105.7	94.3	**
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	**
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	**

*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 931 tons of material. The City's waste hauler reported collecting approximately 6.3 tons of yard waste in 2020.

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 2020.

Describe Any Planned Changes to the Program

A facility plan of the Public Works Highway Department was prepared for the City in 2020 to evaluate options for upgrading the existing facility and improvements to operations. To date, it is anticipated to construct a new highway garage at an offsite location. The offsite location would also include provisions for recycling operations, salt brine and salt storage, cold storage and a refueling station. The relocation of the facility and repurposing of the current City Hall Campus site will necessitate the preparation of a new SWPPP.

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 575,000 gallons of municipal water.

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 3632 feet of roadside swales which netted roughly 729 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 2020. These included:

- 2020 Waukesha County Storm Water Management Workshop, May 5-7, 2020 (2 attendees)
- NASECA Construction Site Erosion Control and Storm Water Permit Compliance Training, Dec. 10-11, 2020 (1 attendee)
- Ruekert-Mielke, Inc. webinar, Erosion and Sediment Control Best Management Practices, Apr. 22, 2020 (1 attendee)
- Ruekert-Mielke, Inc. webinar, The MS4 Da Vinci Code, May 20, 2020 (2 attendees)
- NASECA-WI's 17th Annual Conference and Trade Show, Feb. 5-6, 2020 (1 attendee)

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 E contains the County's 2020 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

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**.

Reporting Information

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

Project Name:

County: Waukesha

Municipality: Pewaukee, City

Permit Number: S050105

Facility Number: 30726

Reporting Year: 2020

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

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 (*S050075-03 General Permit and S058416-04 Madison Area Group Permit shall have a written storm water management program that describes in detail how the permittee intends to comply with the permit requirements for each minimum control measure. Updated programs are due to the department by March 31, 2021.*)
 - 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 (*S050075-03 General Permit and S058416-04 Madison Area Group Permit 2.6.1 - inventory due to the department by March 31, 2021.*)
 - Municipal Storm Water Management Facility (BMP) Inspection and Maintenance Plan (*S050075-03 General Permit and S058416-04 Madison Area Group Permit 2.6.2 – document due to the department by March 31, 2021.*)
 - Total Maximum Daily Load documents (**if applicable, see permit for due dates.*)
 - TMDL Mapping*
 - TMDL Modeling*
 - TMDL Implementation Plan*
 - Fecal Coliform Screening Parameter *
 - Fecal Coliform Inventory and Map (*S050075-03 general permittees Appendix B B.5.2 – document due to the department by March 31, 2022*)
 - Fecal Coliform Source Elimination Plan (*S050075-03 general permittees Appendix B - document due to the department by October 31,2023*)

- Sign and Submit form

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

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: WI

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)

- I&E Program
- IDDE Program
- IDDE Response Procedure Manual

**Individual with responsibility for:
(Check all that apply)**

- 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: WI

Zip Code: 53072 xxxxx or xxxxx-xxxx

Phone Number: 262-691-0804 Ext: xxx-xxx-xxxx

Email: wirtz@pewaukee.wi.us

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

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	1/1/2020		
Project/Event Name	See Waukesha County Education Group Spreadsheet for regional effort		
Delivery Mechanism	Other		*Active
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
<input checked="" type="checkbox"/> Illicit discharge detection and elimination <input checked="" type="checkbox"/> Household hazardous waste disposal/pet waste management/vehicle washing <input checked="" type="checkbox"/> Yard waste management/pesticide and fertilizer application <input checked="" type="checkbox"/> Stream and shoreline management <input checked="" type="checkbox"/> Residential infiltration <input checked="" type="checkbox"/> Construction sites and post-construction storm water management <input checked="" type="checkbox"/> Pollution prevention <input checked="" type="checkbox"/> Green infrastructure/low impact development <input type="checkbox"/> Other:	<input checked="" type="checkbox"/> General Public <input type="checkbox"/> Public Employees <input type="checkbox"/> Residents <input checked="" type="checkbox"/> Businesses <input checked="" type="checkbox"/> Contractors <input checked="" type="checkbox"/> Developers <input type="checkbox"/> Industries <input type="checkbox"/> Other	101 +	<input checked="" type="radio"/> Yes <input type="radio"/> No

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 Education Group Spreadsheet for regional effort

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	1/1/2020		
Project/Event Name	Ongoing discussions regarding City storm water and erosion control requir...		
Delivery Mechanism	Other		
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)

<input type="checkbox"/> MS4 Annual Report <input type="checkbox"/> Storm Water Management Program <input checked="" type="checkbox"/> Storm Water related ordinance <input type="checkbox"/> Other: <input type="text"/>	<input type="checkbox"/> General Public <input type="checkbox"/> Public Employees <input type="checkbox"/> Residents <input type="checkbox"/> Businesses <input checked="" type="checkbox"/> Contractors <input checked="" type="checkbox"/> Developers <input type="checkbox"/> Industries <input checked="" type="checkbox"/> Other	<u>11-50</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No
---	--	--------------	---

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	5/1/2020
Project/Event Name	WAV
Delivery Mechanism	Stream monitoring

Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
Volunteer Opportunity	<input checked="" type="checkbox"/> General Public <input type="checkbox"/> Public Employees <input type="checkbox"/> Residents <input type="checkbox"/> Businesses <input type="checkbox"/> Contractors <input type="checkbox"/> Developers <input type="checkbox"/> Industries <input type="checkbox"/> Other	<u>11-50</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No

Event Start Date	7/1/2020
Project/Event Name	Adopt A Drain
Delivery Mechanism	Storm drain stenciling

Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
Volunteer Opportunity	<input checked="" type="checkbox"/> General Public <input type="checkbox"/> Public Employees <input type="checkbox"/> Residents <input type="checkbox"/> Businesses <input type="checkbox"/> Contractors <input type="checkbox"/> Developers <input type="checkbox"/> Industries <input type="checkbox"/> Other	<u>51-100</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No

Event Start Date	3/1/2020
Project/Event Name	Green Home Make Over
Delivery Mechanism	Public Workshop

Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
Volunteer Opportunity	<input checked="" type="checkbox"/> General Public <input type="checkbox"/> Public Employees <input type="checkbox"/> Residents <input type="checkbox"/> Businesses <input type="checkbox"/> Contractors <input type="checkbox"/> Developers <input type="checkbox"/> Industries <input type="checkbox"/> Other	51-100	<input checked="" type="radio"/> Yes <input type="radio"/> No

Event Start Date	5/5/2020
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	<input type="checkbox"/> General Public <input type="checkbox"/> Public Employees <input type="checkbox"/> Residents <input type="checkbox"/> Businesses <input checked="" type="checkbox"/> Contractors <input checked="" type="checkbox"/> Developers <input type="checkbox"/> Industries <input type="checkbox"/> Other	101 +	<input checked="" type="radio"/> Yes <input type="radio"/> No

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

Form 3400-224 (09/20)

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. Unsure

How many of the identified illicit discharges did the municipality eliminate in the reporting year (from both routine screening and complaints)?

0

(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
- Written Warning (including email)
- Notice of Violation
- Civil Penalty/ Citation

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

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? 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)
- Notice of Violation
- Civil Penalty/ Citation
- Stop Work Order
- Forfeiture of Deposit
- Other - Describe below

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

Form 3400-224 (09/20)

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 municipality utilize privately owned storm water management facilities in its pollutant reduction analysis? 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 land owners 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

- 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.*

The City's latest WinSLAMM analysis showed that road side swales alone provided a 31 percent reduction in TSS. If all of the wet detention facilities within the City were included the TSS reduction would be 59 percent.

Form 3400-224 (09/20)

Minimum Control Measures - Section 6 : Complete

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)?

Embankments, 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.

- aa. How many lane-miles of roadway is the municipality responsible for doing snow and ice control? Unsure
- ab. 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
<u>Salt</u>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="440"/>	<input type="text" value="1000"/>	<input type="text" value="800"/>	<input type="text" value="0"/>

Liquids (gallons) (ex. brine)

	Oct	Nov	Dec	Jan	Feb	Mar
<u>Brine</u>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="2268"/>	<input type="text" value="4751"/>	<input type="text" value="800"/>	<input type="text" value="0"/>

- ac. Was salt applying machinery calibrated in the reporting year? Yes No Unsure
- ad. Have municipal personnel attended salt reduction strategy training in the reporting year? Yes No Unsure

Training Date	Training Name	# Attendance
<input type="text"/>	<input type="text"/>	<input type="text"/>

- ae. 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

- af. Has training or education been held for municipal or other personnel involved in implementing each of the pollution prevention program elements? Yes No Unsure

If yes, describe what training was provided (250 character limit):

City engineering staff attended the Waukesha County Storm Water Workshop, NASECA Annual Conference, NASECA Construction Site Erosion Control Training and consultant sponsored MS4 seminars.

When: various times in 2020

How many attended: 3

- ag. 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 attached City of Pewaukee Annual Report

- ah. Brief explanation on Internal Education 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

Form 3400-224 (09/20)

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 attached City of Pewaukee Annual Report

Final Evaluation - Complete

Fiscal Analysis

Complete the fiscal analysis table provided below. For municipalities that do not break out funding into permit program elements, please enter the monetary amount to your best estimate of what funding may be going towards these programs.

Annual Expenditure Reporting Year	Budget Reporting Year	Budget Upcoming Year	Source of Funds
---	---------------------------------	--------------------------------	------------------------

Element: Public Education and Outreach

1466	1500	1500	<u>Storm water utility</u>
------	------	------	----------------------------

Element: Public Involvement and Participation

1466	1500	1500	<u>Storm water utility</u>
------	------	------	----------------------------

Element: Illicit Discharge Detection and Elimination

2610	1370	1430	<u>Storm water utility</u>
------	------	------	----------------------------

Element: Construction Site Pollutant Control

75790	25161	36575	<u>Other</u>
-------	-------	-------	--------------

Element: Post-Construction Storm Water Management

30290	33161	44575	<u>Other</u>
-------	-------	-------	--------------

Element: Pollution Prevention

639761	729226	824101	<u>Storm water utility</u>
--------	--------	--------	----------------------------

Other (describe)

			<u>Select...</u>
--	--	--	------------------

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:

Pewaukee River above the Village Dam was 303d listed (WBIC 771800)

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

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

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

AR EO

 File Attachment

[2020-ms4-reporting.xlsx](#)

AR IP

 File Attachment

[2020-2024MS4PublicEducationandOutreachPlan.pdf](#)

AR Other

 File Attachment

[20210331_CityofPewaukeeAnnualReportfor2020.pdf](#)

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

Attach - Permit Compliance Documents

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

Sign and Submit Your Application

Steps to Complete the signature process

1. Read and Accept the Terms and Conditions
2. Press the Submit and Send to the DNR button

NOTE: For security purposes all email correspondence will be sent to the address you used when registering your WAMS ID. This may be a different email than that provided in the application. For information on your WAMS account click [HERE](#).

Terms and Conditions

Certification: I hereby certify that I am an authorized representative of the municipality covered under Pewaukee, City MS4 Permit for which this annual report or other compliance document is being submitted, and that the information contained in this submittal and all attachments were gathered and prepared under my direction or supervision. Based on my inquiry of the person or persons under my direction or supervision involved in the preparation of this document, to the best of my knowledge, the information is true, accurate, and complete. I further certify that the municipality's governing body or delegated representatives have reviewed or been apprised of the contents of this annual report. I understand that Wisconsin law provides severe penalties for submitting false information.

Signee (must check current role prior to accepting terms and conditions)

- Authorized municipal contact using WAMS ID.
- Delegation of Signature Authority (Form 3400-220) for agent signing on the behalf of the authorized municipal contact.
- Agent seeking to share this item with authorized municipal contact (authorized municipal contact must get WAMS id and complete signature).

Name: Magdelene Wagner

Title: Director of Public Works/City Engineer

Authorized Signature.

- I accept the above terms and conditions.

Signed by : i:0#.f|wamsmembership|cityofpewaukee on 2021-03-31T15:39:01

You have already signed and submitted this application to the DNR. Please [contact the Wisconsin DNR](#) for assistance.

After providing the final authorized signature, the system will send an email to the authorized party and any agents. This email will include a copy to the final read only version of this application.

Item B

Draft Post-Construction Site Storm Water Management Program and Inspection Forms

City of Pewaukee Post-Construction Storm Water Management Program

Introduction

The City of Pewaukee is required under its WPDES permit to continue to implement and enforce its program to control the quantity and quality of discharges from areas of new development and redevelopment. The City is also required to establish measurable goals for its post construction storm water management program. More specifically, the City's program at a minimum is required to:

- Enforce the applicability and jurisdiction of Chapter 19 of the Municipal Code.
- Enforce the design criteria, standards and specifications for the design and implementation of post-construction storm water management control practices which meet or exceed the criteria of those approved by the Department of Natural Resources.
- Review and approve plans that meet or exceed the City's Post Construction Storm Water Management Ordinance (Chapter 19 of the Municipal Code), the City of Pewaukee Technical Standards and the Conservation Practice Standards approved by the Department of Natural Resources.
- Update and enforce the City's Post Construction Storm Water Management Ordinance to meet or exceed the requirements of NR 151.121-NR 151.128 and 151.241-NR 151.249 of the Wisconsin Administrative Code.
- Enforce storm water management plan requirements which meet or exceed those contained in NR 216.47 of the Wisconsin Administrative Code.
- Enforce the permitting requirements, procedures and fees established in Chapter 19 of the Municipal Code.
- Establish written procedures to track and enforce the long-term maintenance of storm water management facilities implemented to meet the applicable post-construction performance standards of NR 216 and NR 151 of the Wisconsin Administrative Code and Chapter 19 of the Municipal Code.

The purpose of this document is to memorialize the aspects, procedures, forms and records of the City's program to ensure adequate and consistent regulation, inspection and enforcement of the City's ordinance in compliance with the City's WPDES permit.

Ordinance

The City is granted authority to adopt a post-construction storm water management ordinance under §62.234 Wis. Stats. The City Engineer or designee is granted the authority by the Common Council to administer and enforce the provisions of the ordinance. Portions of the ordinance have been revised from time to time to comply with the applicable provisions of NR 216 and NR 151 as required under the City's WPDES permit.

The purpose and intent of the post-construction storm water management ordinance is to establish requirements for post-construction runoff that will minimize the amount of sediment and other pollutants carried by runoff to waters of the state and that will diminish the threats to public health, safety, welfare and the aquatic environment. Specific purposes of the ordinance are to:

- Further the maintenance of safe and healthful conditions

- Prevent and control water pollution.
- Prevent and control the adverse effects of storm water.
- Control the exceedance of the safe capacity of existing drainage facilities and receiving water bodies.
- Prevent undue channel erosion and control increases in the scouring and transportation of particulate matter.
- Minimize the amount of pollutants discharged from the municipal separate storm sewer system to protect waters of the state.
- Prevent conditions that endanger downstream property.

The ordinance applies to any post-construction site after final stabilization that had one or more acres of land disturbing construction activity. The post-construction storm water management ordinance does not apply to:

- A post-construction site with less than 10 percent connected imperviousness based on the area of land disturbance, provided the cumulative area of all impervious surfaces is less than one acre. However, the exemption in this paragraph does not include an exemption from the protective area standard in s. NR 151.125 Wis. Adm. Code and this ordinance.
- Agricultural facilities and practices.
- Underground utility construction but not including the construction of above ground structures associated with utility construction.

Any person or entity subject to the post-construction storm water management requirements of the City's ordinance must submit an application for a permit accompanied by a storm water management plan and maintenance agreement. The storm water management plan shall be prepared to meet the requirements of Section 19.09 and 19.12 of the City's Municipal Code. The maintenance plan shall be prepared to meet the requirements of Section 19.13 of the City's Municipal Code. A copy of the of the permit application is contained in Appendix A and a copy of the Chapter 19 of the Municipal Code (Construction Site Erosion Control, Post-Construction Storm Water Management, and Illicit Discharge Ordinance) is contained in Appendix B.

Plan Review

The storm water management plan, maintenance plan and associated grading plans and details are subject to review by the City's Engineering Staff or Engineering Consultant. Best Management Practices (BMP's) incorporated into the plans are reviewed for conformance with the design criteria, standards and specifications of:

- The design guidance and technical standards identified or developed by the Wisconsin Department of Natural Resources under subchapter V of NR 151, Wis. Administrative Code.
- Other such standards approved by the City Engineer or designee.
- The City of Pewaukee Technical Standards (contained in Appendix C).

Storm water management plans and practices shall comply with the performance standards identified in Section 19.09 of the Municipal Code. In general storm water management plans will: employ practices designed, installed and maintained to control total suspended solids in runoff from the post-construction site; to maintain or reduce the peak rate of runoff from the post-developed site as compared to pre-settlement conditions; design, install and maintain practices to infiltrate runoff to the maximum extent practicable; enforce wetland protective areas; and require BMP's for fueling and vehicle maintenance areas. The

minimum plan requirements are identified in Section 19.12 and the minimum maintenance agreement requirements are identified in Section 19.13 of the Municipal Code. The City has a standard storm water management practices maintenance agreement to be used as a template. Approved agreements are to be signed by both the developer and the City and recorded at the Waukesha County Register of Deeds. A copy of the recorded agreement should be provided to the City for its files.

The Waukesha County Register of Deeds requires documents submitted for recording be legible and reproducible. The maximum page size of the documents is to be either 8.5x11 or 8.5x14 inches. The clarity of full-size drawings which are reduced to fit on the page sizes acceptable to the County is often poor. Should the County reject the recording the agreement for not being legible or reproducible, the City can provide a certification to the County stating the City has legible copies of all figures within the agreement (generally full-size documents). Care must be taken when providing the certification that any full-size figures provided are exact copies of those in the agreement. All copies of the agreements and associated figures shall be kept in a central and easily accessible location and must be maintained for the life of the practices. Currently, that location is within the office of the Chief Engineer-Utilities.

Submitted storm water management plans and maintenance agreements which do meet the minimum plan requirements, performance standards or technical and design criteria shall not be accepted. Plans and maintenance agreements which are not accepted will be temporarily retained until such time as the development has met the requirements of the City. A letter documenting the plan deficiencies (see sample letter in Appendix D) will be provided to the applicant and their engineer. Plans and maintenance agreements meeting the requirements of the Municipal Code will be accepted and a post construction storm water permit and letter issued to the applicant (see sample letter and permit in Appendix E). Only accepted plans and maintenance agreements will be retained for City files. Previously submitted plans and agreements will be disposed of once the permits have been issued.

Permitting

Post construction storm water management permits require the permittee or responsible party to generally: design and install the storm water management measures in accordance with the accepted plans; notify the City Engineer before commencing work in conjunction with the storm water management plan and after completion of the practices; complete the storm water management practice installations; provide a certified as-built by a licensed professional engineer documenting the completed installations are in accordance with the accepted plans and pass an inspection by the City Engineer; Notify the City Engineer of any significant modifications intended to be made to the accepted storm water management plan; and to maintain all installed storm water management practices consistent with the terms of the maintenance agreement. Permits for post construction site storm water management are valid from the date of issuance through the date the City Engineer notifies the permittee that all practices have passed a final inspection.

Long Term Maintenance and Inspection of Permitted Facilities

Enforcement

Filing, Records Retention and Database

City of Pewaukee Public Works Bioretention Pond Inspection Report

Facility ID:

Location:

Facility/Site Contact Person:

Mailing Address:

Email Address:

Phone Number:

Name of Person Conducting the Inspection:	Inspection Date:
Tempertaure: _____ °F	Inspection Time: _____ <input type="checkbox"/> AM <input type="checkbox"/> PM
Weather Conditions: <input type="checkbox"/> Sunny <input type="checkbox"/> Partly Sunny <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Freezing Rain or Sleet <input type="checkbox"/> Snow <input type="checkbox"/> Windy <input type="checkbox"/> Other: _____	
Rain in Last 48 Hours <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If yes:	Amount in inches: _____ and timing: _____ Standing water present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If yes, describe color, odor, and sheen: _____ _____
Pretreatment: <input type="checkbox"/> Vegetated Filter Strip <input type="checkbox"/> Swale <input type="checkbox"/> Forebay <input type="checkbox"/> None <input type="checkbox"/> Other: _____	
Plan Available: <input type="checkbox"/> As-Built <input type="checkbox"/> Site <input type="checkbox"/> No plan available	
Other Site Conditions:	

Pretreatment

1. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Bypassing flow	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Embankments

1. Visible cracks or sinkholes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Unwanted trees or woody vegetation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Animal burrows	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Vegetation inadequately maintained	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Unhealthy vegetative cover	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Seepage	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7. Sinkholes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Inlets

1. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Poor structural condition	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Vegetation

1. Undesirable vegetation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Desired vegetation is dying or receding due to climate, competition or disease	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Bioretention Area

1. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Erosion/undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Animal burrows or sinkholes are present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Topsoil is covered with sediment	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Mulch is compacted	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Outlets and Overflow Structures

1. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Poor structural condition	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Visible leaks/joint failure	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Insufficient depth for pond to function correctly	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Emergency Spillway

1. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Spillway obstructed	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Miscellaneous Feature

1. Restricted access	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Lack of maintenance	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Issues with additional features	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Unapproved modification	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Additional Notes

Attached Pictures or Sketches:

Inspection Results:

Pass

The dry pond is operating without observed issues.

Pass with conditions

The dry pond is operating as intended. Issues exist and should be addressed; however they do not currently prevent the pond from operating as intended.

Fail

Issues exist and are preventing the dry pond from operating as intended.

Inspector certifies accuracy of information:

Inspector Signature: _____

Date of Inspection: _____

City of Pewaukee Public Works Dry Pond Inspection Report

Facility ID:

Location:

Facility/Site Contact Person:

Mailing Address:

Email Address:

Phone Number:

Name of Person Conducting the Inspection:	Inspection Date:
Tempertaure: _____ °F	Inspection Time: _____ <input type="checkbox"/> AM <input type="checkbox"/> PM
Weather Conditions: <input type="checkbox"/> Sunny <input type="checkbox"/> Partly Sunny <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Freezing Rain or Sleet <input type="checkbox"/> Snow <input type="checkbox"/> Windy <input type="checkbox"/> Other: _____	
Rain in Last 48 Hours <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	If yes, amount in inches: _____ and timing: _____
Pretreatment: <input type="checkbox"/> Vegetated Filter Strip <input type="checkbox"/> Swale <input type="checkbox"/> Forebay <input type="checkbox"/> None <input type="checkbox"/> Other: _____	
Plan Available: <input type="checkbox"/> As-Built <input type="checkbox"/> Site <input type="checkbox"/> No plan available	
Other Site Conditions:	

Pretreatment

1. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Bypassing flow	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Embankments

1. Visible cracks or sinkholes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Unwanted trees or woody vegetation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Animal burrows	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Vegetation inadequately maintained	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Unhealthy vegetative cover	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Seepage	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Inlets

1. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Displacement of filter fabric	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Poor structural condition	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Basin or Bowl Area

1. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Animal burrows or sinkholes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Standing water (at least five days after most recent storm)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Outlets and Overflow Structures

1. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Poor structural condition	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Visible leaks/joint failure	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Displacement of filter fabric	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Emergency Spillway

1. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Spillway obstructed	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Miscellaneous Feature

1. Restricted access	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Lack of maintenance	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Issues with additional features	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Unapproved modification	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Additional Notes

Attached Pictures or Sketches:

Inspection Results:

Pass

The dry pond is operating without observed issues.

Pass with conditions

The dry pond is operating as intended. Issues exist and should be addressed; however they do not currently prevent the pond from operating as intended.

Fail

Issues exist and are preventing the dry pond from operating as intended.

Inspector certifies accuracy of information:

Inspector Signature: _____

Date of Inspection: _____

City of Pewaukee Public Works Infiltration Pond Inspection Report

Facility ID:

Location:

Facility/Site Contact Person:

Mailing Address:

Email Address:

Phone Number:

Name of Person Conducting the Inspection:	Inspection Date:
Tempertaure: _____ °F	Inspection Time: _____ <input type="checkbox"/> AM <input type="checkbox"/> PM
Weather Conditions: <input type="checkbox"/> Sunny <input type="checkbox"/> Partly Sunny <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Freezing Rain or Sleet <input type="checkbox"/> Snow <input type="checkbox"/> Windy <input type="checkbox"/> Other: _____	
Rain in Last 48 Hours <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If yes:	Amount in inches: _____ and timing: _____ Standing water present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If yes, describe color, odor, and sheen: _____ _____
Pretreatment: <input type="checkbox"/> Vegetated Filter Strip <input type="checkbox"/> Swale <input type="checkbox"/> Forebay <input type="checkbox"/> None <input type="checkbox"/> Other: _____	
Plan Available: <input type="checkbox"/> As-Built <input type="checkbox"/> Site <input type="checkbox"/> No plan available	
Other Site Conditions:	

Pretreatment

1. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Bypassing flow	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Embankments

1. Visible cracks or sinkholes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Unwanted trees or woody vegetation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Animal burrows	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Vegetation inadequately maintained	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Unhealthy vegetative cover	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Seepage	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7. Sinkholes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Inlets

1. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Poor structural condition	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Vegetative Basin

1. Undesirable non-native vegetation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Desired vegetation is dying or receding	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Debris/Pollution/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Shoreline erosion	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Outfall erosion	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Pond walls in poor condition	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7. Encroachment into easement or pond area by other activities	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Outlets and Overflow Structures

1. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Poor structural condition	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Visible leaks/joint failure	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Inappropriate depth for pond to function correctly	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Emergency Spillway

1. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Spillway obstructed	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Miscellaneous Feature

1. Restricted access	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Lack of maintenance	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Issues with additional features	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Unapproved modification	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Invasive species	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Additional Notes

Attached Pictures or Sketches:

Inspection Results:

Pass

The dry pond is operating without observed issues.

Pass with conditions

The dry pond is operating as intended. Issues exist and should be addressed; however they do not currently prevent the pond from operating as intended.

Fail

Issues exist and are preventing the dry pond from operating as intended.

Inspector certifies accuracy of information:

Inspector Signature: _____

Date of Inspection: _____

City of Pewaukee Public Works Wet Pond Inspection Report

Facility ID:

Location:

Facility/Site Contact Person:

Mailing Address:

Email Address:

Phone Number:

Name of Person Conducting the Inspection:	Inspection Date:
Tempertaure: _____ °F	Inspection Time: _____ <input type="checkbox"/> AM <input type="checkbox"/> PM
Weather Conditions: <input type="checkbox"/> Sunny <input type="checkbox"/> Partly Sunny <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Freezing Rain or Sleet <input type="checkbox"/> Snow <input type="checkbox"/> Windy <input type="checkbox"/> Other: _____	
Rain in Last 48 Hours <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	If yes, amount in inches: _____ and timing: _____
Pretreatment: <input type="checkbox"/> Vegetated Filter Strip <input type="checkbox"/> Swale <input type="checkbox"/> Forebay <input type="checkbox"/> None <input type="checkbox"/> Other: _____	
Plan Available: <input type="checkbox"/> As-Built <input type="checkbox"/> Site <input type="checkbox"/> No plan available	
Other Site Conditions:	

Pretreatment

1. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Bypassing flow	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Embankments

1. Visible cracks or sinkholes	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Unwanted trees or woody vegetation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Animal burrows	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Vegetation inadequately maintained	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Unhealthy vegetative cover	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Seepage	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Inlets

1. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Displacement of filter fabric	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Poor structural condition	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Permanent Pool

1. Undesirable vegetation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Debris/Pollution/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Shoreline erosion	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Outfall erosion	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Pond walls in poor condition	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7. Encroachment into easement or pond area by other activities	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Outlets and Overflow Structures

1. Sediment has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Debris/Trash has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Poor structural condition	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Visible leaks/joint failure	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6. Displacement of filter fabric	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Emergency Spillway

1. Erosion/Undercutting	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Vegetation has accumulated	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Spillway obstructed	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Miscellaneous Feature

1. Restricted access	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2. Lack of maintenance	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3. Issues with additional features	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4. Unapproved modification	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Additional Notes

[Empty rectangular box for additional notes]

Attached Pictures or Sketches:

Inspection Results:

Pass

The dry pond is operating without observed issues.

Pass with conditions

The dry pond is operating as intended. Issues exist and should be addressed; however they do not currently prevent the pond from operating as intended.

Fail

Issues exist and are preventing the dry pond from operating as intended.

Inspector certifies accuracy of information:

Inspector Signature: _____

Date of Inspection: _____

Item C

Winter Road Management Summary Tables

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

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 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) 1540

Total event hours worked 596

Number of Entries 18

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

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

**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
<i>Total Brine Used (gal)</i>		<u>22679</u>	<i>Total Salt Used (tons)</i>		<u>3520</u>		<i>Total event hours worked</i>		<i>Number of Entries</i>		<u>44</u>
								1272			

**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 (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event (Clean-Up)	Other Information
25-Nov-13	Sanding 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	
16-Dec-13	Plow	450	Salt	70	15	18	2	27	9	0	0.5" started at 2:00 am
17-Dec-13	Plow	450	Salt	70	21	20	0.5	27	9	0	2" Clipper started @ 3:30 and ended at 7:30
19-Dec-13	Plow	0	Salt	70	29	31	Ice	20	9	0	0.5" from 5:00 am to 7:00 am
20-Dec-13	Plow	0	Salt	90	26	22	Ice	32	9	0	Rain with 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	Freezing rain
23-Dec-13	Plow	200	Salt	60	22	24	0.5	18	7	0	9" started at 3:00 am
24-Dec-13	Plow	0	Salt	60	0	4	1	27	9	0	0.5" overnight
25-Dec-13	Plow	200	Salt	60	17	19	2	32	9	0	1" overnight
26-Dec-13	Plow	200	Salt	60	18	19	0.5	36	8	0	2" overnight
31-Dec-13	Plow	0	Salt	60	2	8	1	27	9	0	0.5" overnight
31-Dec-13	Plow	0	Salt	80	7	13	1	24	9	0	1" overnight
1-Jan-14	Plow	200	Salt	60	15	21	2	32	9	0	1" started at 3:00 pm
2-Jan-14	Plow	300	Salt	60	18	22	2	27	9	0	2" started at 7:00 am
4-Jan-14	Plow	400	Salt	60	29	30	1	27	9	0	2" started at 5:00 am
10-Jan-14	Plow	400	Salt	30	35	34	Ice	27	9	0	30 mph winds from Southwest and 1" of snow
10-Jan-14	Plow	200	Salt	40	36	35	Ice	27	9	0	Heavy freezing rain
11-Jan-14	Plow	400	Salt	40	33	32	Ice	27	9	0	Heavy freezing rain with 0.5" of ice
14-Jan-14	Plow	0	Salt	50	25	24	3	27	9	0	Roads refroze overnight
15-Jan-14	Plow	0	Salt	50	12	14	0	42	9	0	Still snowing back at 3:00 am
16-Jan-14	Plow	300	Salt	40	27	25	0.5	25	9	0	Total clean-up
17-Jan-14	Plow	400	Salt	50	18	15	1	30	9	0	Light dusting
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	1" all day snow
25-Jan-14	Plow	200	Salt	60	16	12	2	38	9	0	Light dusting
											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)		11490	Total Salt Used (tons)	3160	Average Air Temp per Entry (deg F)	18.7	Average Pavement Temp. per Entry (deg F)	20.13	Number of Entries	54	

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)** 19.48 **Average Pavement Temp. per Entry (deg F)** 20.89 **Number of Entries** 22
Total Event hours worked 903

**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		Still 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)	<u>11225</u>	Total Salt Used (tons)	<u>2900</u>	Average Air Temp per Entry (deg F)	<u>28.19</u>	Average Pavement Temp. per Entry (deg F)	<u>28.23</u>	Number of Entries	<u>29</u>
				Total Event Hours Worked	<u>1171</u>				

**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 (°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		Fast moving storm - 1 inch
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		1 inch overnight.
15-Jan-18	Plow	300	Salt	120	28	24	3	56	9		Rain to ice
15-Jan-18	Plow	200	Salt	80	24	22	3	36	9		3 inches overnight - slow mover
16-Jan-18	Plow	200	Salt	50	24	28	0	24	9	24	3 inches - same storm lake effect
23-Jan-18	Plow	400	Salt	160	28	28	4	72	9		Slush run
28-Jan-18	Salt	400	Salt	60	28	28	1	20	9		Heavy rain changing to snow turning to hardpack
3-Feb-17	Plow	400	Salt	160	29	29	1	27	9		Fast moving storm - 1 inch
4-Feb-18	Plow	400	Salt	240	16	18	7	108	9		1 inch beginning of storm
5-Feb-18	Plow	0	Salt	120	8	8	1	27	9		7 inches of snow - total storm was 8 inches
6-Feb-18	Plow	0	Salt	120	6	6	1	36	9		1 inch - still snowing
9-Feb-18	Plow	0	Salt	180	14	16	4	72	9		1 inch overnight.
17-Feb-18	Salt	400	Salt	100	28	28	0.5	18	9		4 inches - 12 hour storm
4-Mar-18	Plow	400	Salt	100	31	31	3	36	9		Light Dusting
4-Apr-18	Plow	0	Salt	100	21	22	2	36	9		Fast moving storm - 3 inches
4-Apr-18	Plow	0	Salt	100	24	26	0	0	9		Rain changing to snow
14-Apr-18	Plow	0	Salt	100	28	28	ice	20	9		Hard pack ice
15-Apr-18	Plow	0	Salt	250	30	30	4	108	9		Light icing
16-Apr-18	Plow	0	Salt	180	28	28	1	36	9		Rain with heavy snow
18-Apr-18	Plow	0	Salt	140	32	32	2	63	9		1 inch - slow mover
19-Apr-18	Plow	0	Salt	75	34	34	3	36	9		2 inches - still snowing
											5 inches total from storm - wet and heavy

Total Brine Used (gal) **5650** Total Salt Used (tons) **336.5** 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 (°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
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 (°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		
6-Nov-19	Plow	300	Salt	70	30	28	2	32	8		Happy Halloween Slow mover: 2- RUNS
6-Nov-19	Plow	300	Salt	70	30	27	1	24	8		2" Started @ 3AM done @ 9AM
11-Nov-19	Plow	400	Salt	160	22	23	3	96	9		1" continuation of storm
14-Nov-19	Plow	300	Salt	60	28	27	1	24	7		2" Very slippery: 2- Runs
12-Dec-19	Pre-vet	850									1" fast mover
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		5" 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 Storm
11-Jan-20	Salt	300	Salt	120	24	25	3"	50	10		End of Storm
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 Storms" 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) 7750 Total Salt Used (tons) 2450 Average Air Temp per Entry (deg F) 30.56 Average Pavement Temp. per Entry (deg F) 29.4 Number of Entries 26

Total Event Hours Worked 1213

**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									

Item D

Fiscal Analysis Worksheets

Spreadsheet for Fiscal Analysis Portion of City of Pewaukee's 2020 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	\$1,370.00	\$2,610.00	\$1,430.00
Construction Site Pollution Control	\$25,161.00	\$75,790.00	\$36,575.00
Post-Construction Storm Water Management	\$33,161.00	\$30,290.00	\$44,575.00
Pollution Prevention	\$729,226.00	\$639,760.56	\$824,101.10
Storm Water Quality Management	\$350,000.00	\$0.00	\$350,000.00
Storm Sewer System Map	\$5,000.00	\$6,999.90	\$5,000.00
Totals	\$1,146,918.00	\$758,381.46	\$1,264,681.10

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 categories 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 categories do not correspond to City Budget Accounting Fields.

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 \$25,161.00 Budget for Upcoming Year \$36,575.00

Annual Expenditures for Reporting Year \$75,790.00

Project		Wages	Hours	Total
Briohn Bldrs-Angulus Bldg Springdale Rd	R/M Bills			\$6,033.01
	AECOM Bills			\$0.00
	Engineer Tech	\$37.59	0.00	\$0.00
	Sr. Engineer Tech	\$41.18	0.00	\$0.00
	Civil Engineer	\$41.10	0.00	\$0.00
	Chief Engineer-Utilities	\$56.32	10.25	\$577.28
	DPW Director	\$67.34	0.00	\$0.00
	Total			\$6,610.29
Rainbow Childcare	R/M Bills			\$7,513.08
	AECOM Bills			\$0.00
	Engineer Tech	\$37.59	0.00	\$0.00
	Sr. Engineer Tech	\$41.18	0.00	\$0.00
	Civil Engineer	\$41.10	3.75	\$154.13
	Chief Engineer-Utilities	\$56.32	20.25	\$1,140.48
	DPW Director	\$67.34	0.00	\$0.00
	Total			\$8,807.69
Briohn Builders Northmound Bldg	R/M Bills			\$5,745.62
	AECOM Bills			\$0.00
	Engineer Tech	\$37.59	0.00	\$0.00
	Sr. Engineer Tech	\$41.18	0.50	\$20.59
	Civil Engineer	\$41.10	0.00	\$0.00
	Chief Engineer-Utilities	\$56.32	11.00	\$619.52
	DPW Director	\$67.34	0.00	\$0.00
	Total			\$6,385.73
Christ Evangelical Lutheran Church	R/M Bills			\$5,974.79
	AECOM Bills			\$0.00
	Engineer Tech	\$37.59	0.00	\$0.00
	Sr. Engineer Tech	\$41.18	0.00	\$0.00
	Civil Engineer	\$41.10	0.00	\$0.00
	Chief Engineer-Utilities	\$56.32	13.50	\$760.32
	DPW Director	\$67.34	0.00	\$0.00
	Total			\$6,735.11
Swan View Farms Ph. 1	R/M Bills			\$9,100.24
	AECOM Bills			\$4,001.20
	Engineer Tech	\$37.59	0.00	\$0.00
	Sr. Engineer Tech	\$41.18	0.00	\$0.00

Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	56.00	\$3,153.92
DPW Director	\$67.34	0.00	\$0.00
			Total
			\$16,255.36

Swan View Farms Ph. 2

R/M Bills			\$0.00
AECOM Bills			\$1,314.73
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	1.75	\$98.56
DPW Director	\$67.34	0.00	\$0.00
			Total
			\$1,413.29

Woodleaf Reserve Phase 3

R/M Bills			\$2,778.43
AECOM Bills			\$0.00
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	5.50	\$309.76
DPW Director	\$67.34	0.00	\$0.00
			Total
			\$3,088.19

Glen of Parkway Ridge

R/M Bills			\$4,231.95
AECOM Bills			\$598.29
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	2.00	\$82.20
Chief Engineer-Utilities	\$56.32	18.00	\$1,013.76
DPW Director	\$67.34	0.00	\$0.00
			Total
			\$5,926.20

James Craig Builders-Swan Road

R/M Bills			\$0.00
AECOM Bills			\$0.00
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.50	\$20.59
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	1.25	\$70.40
DPW Director	\$67.34	0.00	\$0.00
			Total
			\$90.99

Baenen_Northview Road

R/M Bills			\$0.00
AECOM Bills			\$0.00
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	7.75	\$436.48
DPW Director	\$67.34	0.50	\$33.67
			Total
			\$470.15

Klein Dickert Glass

R/M Bills			\$7,475.15
AECOM Bills			\$0.00
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	16.00	\$901.12
DPW Director	\$67.34	0.00	\$0.00

Total \$8,376.27

Oak and Peninsula Road Project and Water Main

R/M Bills			\$4,441.45
AECOM Bills			\$0.00
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	22.75	\$1,281.28
DPW Director	\$67.34	0.00	\$0.00

Total \$5,722.73

Green Acres LLC Office Building

R/M Bills			\$0.00
AECOM Bills			\$359.70
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	3.75	\$211.20
DPW Director	\$67.34	0.00	\$0.00

Total \$570.90

Pewaukee Industrial South

R/M Bills			\$0.00
AECOM Bills			\$962.20
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	1.00	\$41.10
Chief Engineer-Utilities	\$56.32	3.50	\$197.12
DPW Director	\$67.34	0.00	\$0.00

Total \$1,200.42

Waters Senior Living

R/M Bills			\$0.00
AECOM Bills			\$971.57
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	3.00	\$123.30
Chief Engineer-Utilities	\$56.32	5.75	\$323.84
DPW Director	\$67.34	0.00	\$0.00

Total \$1,418.71

Woodleaf Reserve Phase 4

R/M Bills			\$0.00
AECOM Bills			\$0.00
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	2.25	\$92.48
Chief Engineer-Utilities	\$56.32	7.50	\$422.40
DPW Director	\$67.34	0.00	\$0.00

Total \$514.88

Emerald Acres Flood Mitigation

R/M Bills			\$0.00
AECOM Bills			\$0.00
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	34.00	\$1,400.12
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	9.50	\$535.04
DPW Director	\$67.34	0.00	\$0.00

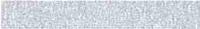
Total \$1,935.16

Zignego Repair Building

R/M Bills			\$0.00
AECOM Bills			
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	2.25	\$126.72
DPW Director	\$67.34	2.00	\$134.68
Total			\$261.40



R/M Bills			\$0.00
AECOM Bills			
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	0.00	\$0.00
DPW Director	\$67.34	0.00	\$0.00
Total			\$0.00



R/M Bills			\$0.00
AECOM Bills			
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	0.00	\$0.00
DPW Director	\$67.34	0.00	\$0.00
Total			\$0.00



R/M Bills			\$0.00
AECOM Bills			
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	0.00	\$0.00
DPW Director	\$67.34	0.00	\$0.00
Total			\$0.00



R/M Bills			\$0.00
AECOM Bills			
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	0.00	\$0.00
DPW Director	\$67.34	0.00	\$0.00
Total			\$0.00



R/M Bills			\$0.00
AECOM Bills			
Engineer Tech	\$37.59	0.00	\$0.00
Sr. Engineer Tech	\$41.18	0.00	\$0.00
Civil Engineer	\$41.10	0.00	\$0.00
Chief Engineer-Utilities	\$56.32	0.00	\$0.00
DPW Director	\$67.34	0.00	\$0.00
Total			\$0.00

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 \$33,161.00 **Budget for Upcoming Year** \$44,575.00

Annual Expenditures for Reporting Year \$30,290.00

Project	Green Acres LLC Office Building	Wages	Hours	Total
	AECOM Bills			\$1,078.50
	Engineer Tech	\$37.59	0.00	\$0.00
	Sr. Engineer Tech	\$41.18	0.00	\$0.00
	Civil Engineer	\$41.10	0.00	\$0.00
	Chief Engineer-Utilities	\$56.32	4.50	\$253.44
	DPW Director	\$67.34	0.00	\$0.00
	Total			\$1,331.94
	Pewaukee Industrial South			
	AECOM Bills			\$2,886.59
	Engineer Tech	\$37.59	0.00	\$0.00
	Sr. Engineer Tech	\$41.18	0.00	\$0.00
	Civil Engineer	\$41.10	1.00	\$41.10
	Chief Engineer-Utilities	\$56.32	3.50	\$197.12
	DPW Director	\$67.34	0.00	\$0.00
	Total			\$3,124.81
	Glen at Parkway Ridge			
	AECOM Bills			\$1,794.87
	Engineer Tech	\$37.59	0.00	\$0.00
	Sr. Engineer Tech	\$41.18	0.00	\$0.00
	Civil Engineer	\$41.10	2.25	\$92.48
	Chief Engineer-Utilities	\$56.32	14.00	\$788.48
	DPW Director	\$67.34	0.00	\$0.00
	Total			\$2,675.83
	Swan View Farms Ph 1			
	AECOM Bills			\$12,003.59
	Engineer Tech	\$37.59	0.00	\$0.00
	Sr. Engineer Tech	\$41.18	0.00	\$0.00
	Civil Engineer	\$41.10	0.00	\$0.00
	Chief Engineer-Utilities	\$56.32	56.25	\$3,168.00
	DPW Director	\$67.34	0.00	\$0.00
	Total			\$15,171.59
	Swan View Farms Ph 2			
	AECOM Bills			\$1,314.74
	Engineer Tech	\$37.59	0.00	\$0.00
	Sr. Engineer Tech	\$41.18	0.00	\$0.00
	Civil Engineer	\$41.10	2.25	\$92.48
	Chief Engineer-Utilities	\$56.32	0.00	\$0.00

DPW Director	\$67.34	0.00	\$0.00	
				Total \$1,407.22

Klein Dickert Glass

AECOM Bills			\$1,143.24	
Engineer Tech	\$37.59	0.00	\$0.00	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	
Civil Engineer	\$41.10	0.00	\$0.00	
Chief Engineer-Utilities	\$56.32	7.75	\$436.48	
DPW Director	\$67.34	0.00	\$0.00	
				Total \$1,579.72

Green Road Pond Inspection

AECOM Bills			\$0.00	
Engineer Tech	\$37.59	0.00	\$0.00	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	
Civil Engineer	\$41.10	1.50	\$61.65	
Chief Engineer-Utilities	\$56.32	0.00	\$0.00	
DPW Director	\$67.34	0.00	\$0.00	
				Total \$61.65

Christ Evangelical Church

AECOM Bills			\$0.00	
Engineer Tech	\$37.59	0.00	\$0.00	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	
Civil Engineer	\$41.10	0.00	\$0.00	
Chief Engineer-Utilities	\$56.32	2.75	\$154.88	
DPW Director	\$67.34	0.00	\$0.00	
				Total \$154.88

Waters Senior Living

AECOM Bills			\$2,914.72	
Engineer Tech	\$37.59	0.00	\$0.00	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	
Civil Engineer	\$41.10	3.25	\$133.58	
Chief Engineer-Utilities	\$56.32	6.25	\$352.00	
DPW Director	\$67.34	0.00	\$0.00	
				Total \$3,400.30

Rainbow Childcare

AECOM Bills			\$0.00	
Engineer Tech	\$37.59	0.00	\$0.00	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	
Civil Engineer	\$41.10	3.75	\$154.13	
Chief Engineer-Utilities	\$56.32	0.00	\$0.00	
DPW Director	\$67.34	0.00	\$0.00	
				Total \$154.13

Woodleaf Reserve Phase 4

AECOM Bills			\$0.00	
Engineer Tech	\$37.59	0.00	\$0.00	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	
Civil Engineer	\$41.10	2.25	\$92.48	
Chief Engineer-Utilities	\$56.32	0.00	\$0.00	
DPW Director	\$67.34	0.00	\$0.00	
				Total \$92.48

City Hall Biofiltration Device

AECOM Bills			\$0.00	
Engineer Tech	\$37.59	0.00	\$0.00	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	

Civil Engineer	\$41.10	1.50	\$61.65	
Chief Engineer-Utilities	\$56.32	0.00	\$0.00	
DPW Director	\$67.34	0.00	\$0.00	
				Total \$61.65

Baenen_Northview Road

AECOM Bills			\$0.00	
Engineer Tech	\$37.59	0.00	\$0.00	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	
Civil Engineer	\$41.10	0.00	\$0.00	
Chief Engineer-Utilities	\$56.32	8.25	\$464.64	
DPW Director	\$67.34	0.75	\$50.51	
				Total \$515.15

Briohn Builders Northmound Bldg

AECOM Bills			\$0.00	
Engineer Tech	\$37.59	0.00	\$0.00	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	
Civil Engineer	\$41.10	4.00	\$164.40	
Chief Engineer-Utilities	\$56.32	0.00	\$0.00	
DPW Director	\$67.34	0.00	\$0.00	
				Total \$164.40

Sports Complex Pond Inspections

AECOM Bills			\$0.00	
Engineer Tech	\$37.59	0.00	\$0.00	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	
Civil Engineer	\$41.10	7.00	\$287.70	
Chief Engineer-Utilities	\$56.32	0.00	\$0.00	
DPW Director	\$67.34	0.00	\$0.00	
				Total \$287.70

Rockwood Drive Pond Inspection

AECOM Bills			\$0.00	
Engineer Tech	\$37.59	0.00	\$0.00	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	
Civil Engineer	\$41.10	0.00	\$0.00	
Chief Engineer-Utilities	\$56.32	0.00	\$0.00	
DPW Director	\$67.34	0.00	\$0.00	
				Total \$0.00

Wagner Park Pond Inspections

AECOM Bills			\$0.00	
Engineer Tech	\$37.59	2.75	\$103.37	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	
Civil Engineer	\$41.10	0.00	\$0.00	
Chief Engineer-Utilities	\$56.32	0.00	\$0.00	
DPW Director	\$67.34	0.00	\$0.00	
				Total \$103.37

AECOM Bills			\$0.00	
Engineer Tech	\$37.59	0.00	\$0.00	
Sr. Engineer Tech	\$41.18	0.00	\$0.00	
Civil Engineer	\$41.10	0.00	\$0.00	
Chief Engineer-Utilities	\$56.32	0.00	\$0.00	
DPW Director	\$67.34	0.00	\$0.00	
				Total \$0.00

Pollution Prevention

	2020 Budgeted	2020 Expenditure	2021 Budgeted
Catch Basin Cleaning and Maintenance	\$20,636.00	\$29,131.00	\$45,000.00
Storm Inlets and Catch Basins	\$250,000.00	\$192,954.94	\$250,000.00
Street Sweeping	\$20,286.00	\$17,288.79	\$20,286.00
Ditch and Culvert Maintenance	\$225,026.00	\$254,628.72	\$272,796.00
Storm Sewer Maintenance	\$113,287.00	\$54,643.66	\$133,518.00
Yard Maintenance	\$10,000.00	\$0.00	\$10,000.00
Yard Waste Recycling	\$89,991.00	\$91,113.45	\$92,501.10
Totals	\$729,226.00	\$639,760.56	\$824,101.10

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. Ditch and culvert maintenance excludes any improvements associated with the Oak and Peninsula Project. Yard Waste Recycling was taken as a fraction of the budgeted and actual expenditures from Refuse Collection and Recycling (10.307% of totals).

Storm Water Quality Management

Budget for Reporting Year	\$350,000.00
Expenditures for Reporting Year	\$0.00
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 Management Plan found under Projects. This would include a complete remodel for water quality purposes.

Storm Sewer System Mapping

Budget for Reporting Year	\$5,000.00
Expenditures for Reporting Year	\$6,999.90
Budget for Upcoming year	\$5,000.00

Storm Sewer System Mapping is lumped within Storm Sewer Maintenance budget category. There is not breakout for this Asbuilt And Mapping in the 2020 Budget listing. Carried over the previous year budget amount for reporting purposes.

Item E

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

Target Audience	Topic #	Topic #	Topic #	Program Title	Activity/Event	Month	Year	Date	Location	# People	Description
Teachers and Students	2	3	5	soil/water	Presentation	Jan	2020	1-3-20	Oconomowoc	25	soil and water program for earth science class
Teachers and Students	2	3	5	soil/water	Presentation	Jan	2020	1-3-20	Oconomowoc	18	soil and water program for earth science class
Teachers and Students	2	3	5	career	Presentation	Jan	2020	1-10-20	New Berlin	60	career day at Orchard Lane Elementary
Teachers and Students	5	6	groundwater	Presentation	Jan	2020	1-29-20	Retzer	24	groundwater program for Kettle Moraine students	
Teachers and Students	8	6	groundwater	Presentation	Feb	2020	2-5-20	WCTC	6	presentation for sustainable building class	
Teachers and Students	8	6	career	Presentation	Feb	2020	2-6-20	WCTC	12	presentation for sustainable building class	
General Public	2	3	5	career	Displays and handouts	Feb	2020	2-6-20	Retzer	79	Elmwood Elementary Career Day
Teachers and Students	7	5	healthy soils	Green Schools	Feb	2020	2-8-20	Retzer	500	Wild Winter night event	
Teachers and Students	3	5	healthy soils	Presentation	Feb	2020	2-10-20	Prairie Hill Waldorf	1	provided rain barrel and diverter for use at the school	
Teachers and Students	3	5	healthy soils	Presentation	Feb	2020	2-19-20	Waukesha	20	Banning Elementary 2nd grade	
Teachers and Students	3	5	healthy soils	Presentation	Feb	2020	2-19-20	Waukesha	20	Banning Elementary 2nd grade	
Teachers and Students	3	5	career	Presentation	Feb	2020	2-19-20	Waukesha	20	Banning Elementary 2nd grade	
Teachers and Students	3	5	healthy soils	Presentation	Feb	2020	2-28-20	New Berlin	25	Poplar Creek Elementary Career Day	
General Public	3	5	home composting	Presentation	Mar	2020	3-4-20	Retzer	24	Kettle Moraine School District	
General Public	9	5	green home	Stream Monitoring	Mar	2020	3-5-20	Waukesha	16	Waukesha Wellness Center Lunch n Learn	
General Public	2	3	home composting	Presentation	Mar	2020	3-7-20	Retzer	32	volunteer appreciation event	
General Public	3	5	green home	Presentation	Mar	2020	3-9-20	Muskego	64	lunch n learn at Inpro	
General Public	3	5	green home	Presentation	Mar	2020	3-10-20	Waukesha	11	Waukesha Wellness Center Lunch n Learn	
General Public	2	3	green home	Presentation	Mar	2020	3-14-20	Retzer	COV	spring workshops	
General Public	3	5	home composting	Presentation	Mar	2020	3-14-20	Retzer	COV	spring workshops	
Contractors, Dev. & Consul	1	6	stormwater wkshop	Presentation	Mar	2020	3-14-20	UW-Waukesha	154	annual stormwater workshop moved to virtual and was held in May	
Businesses	7	1	2 green masters	presentation	Mar	2020	3-17-20	Retzer	COV	stormwater information for businesses through Green Masters program	
General Public	1	2	3	5 career	Displays and handouts	Mar	2020	3-18-20	Waukesha	COV	employee health and wellness fair
Teachers and Students	2	3	5 career	presentation	Mar	2020	3-18-20	Waukesha	COV	Ronald Reagan Elementary career day	
Teachers and Students	5	3	5 green home	presentation	Mar	2020	3-24-20	New Berlin	COV	grade 2/3 workshop	
General Public	2	3	5 green home	presentation	Mar	2020	3-31-20	Eagle	COV	program at Eagle library	
Teachers and Students	3	5	healthy soils	presentation	Apr	2020	4-14-20	Oconomowoc	COV	Silver Lake Intermediate School	
Teachers and Students	3	5	healthy soils	presentation	Apr	2020	4-14-20	Oconomowoc	COV	Silver Lake Intermediate School	
Teachers and Students	3	5	healthy soils	presentation	Apr	2020	4-14-20	Oconomowoc	COV	Silver Lake Intermediate School	
Teachers and Students	3	5	healthy soils	presentation	Apr	2020	4-15-20	Oconomowoc	COV	Silver Lake Intermediate School	
Teachers and Students	3	5	healthy soils	presentation	Apr	2020	4-15-20	Oconomowoc	COV	Silver Lake Intermediate School	
Teachers and Students	3	5	healthy soils	presentation	Apr	2020	4-17-20	Brookfield	COV	Brookfield Elementary	
General Public	3	5	social media	social media	Apr	2020	4-17-20	Brookfield	COV	Brookfield Elementary	
General Public	2	3	5 green home	presentation	Apr	2020	4-19-20	Retzer	COV	1 composting message to kick off virtual earth week celebration	
Teachers and Students	2	3	5 soils	presentation	Apr	2020	4-20-20	Retzer	COV	Earth Day Event	
Teachers and Students	2	3	5 career	presentation	Apr	2020	4-21-20	Retzer	COV	Middle school	
General Public	2	3	household elf	presentation	Apr	2020	4-22-20	Muskego	COV	Muskego HS career day	
Teachers and Students	2	3	5 career	presentation	Apr	2020	4-23-20	Retzer	COV	girl scout night	
General Public	2	3	5 water resources	presentation	Apr	2020	4-24-20	Mukwonago	800	Parkview middle school virtual career day recorded program available to all students	
General Public	2	3	5 green home	presentation	Apr	2020	4-25-20	Retzer	COV	Earth day event	
General Public	2	3	5 social media	presentation	Apr	2020	4-28-20	Pewaukee	COV	5th grade	
General Public	5	3	5 social media	social media	Apr	2020	4-28-20	Pewaukee	COV	program at Pewaukee Library	
General Public	6	8	5 social media	workshop	May	2020	5-4-20	statewide	1	May the 4th composting and healthy soil message	
Contractors, Dev. & Consul	6	8	5 social media	workshop	May	2020	5-5-20	statewide	149	online stormwater workshop- BMP maintenance and inspection and dewatering	
Contractors, Dev. & Consul	6	8	3	workshop	May	2020	5-6-20	statewide	142	online stormwater workshop - artificial wetlands, green infrastructure and wetlands	
General Public	5	1	rain gardens and bar	presentation	May	2020	5-12-20	Muskego	20	online rain garden and rain barrel class for Inpro	
General Public	2	3	5 green schools	social media	May	2020	5-18-20	Menomonee Falls	1	Green cleaners	
General Public	2	3	5 social media	social media	May	2020	5-18-20	Menomonee Falls	1	rain garden plants for St. Mary's Menomonee Falls	
General Public	9	9	benchmark	Stream Monitoring	May	2020	5-26-20	Sussex	1	how to properly dispose of hazardous waste while spring cleaning	
General Public	9	9	benchmark	Stream Monitoring	May	2020	5-29-20	Waukesha	1	benchmark on Sussex Creek	
General Public	9	9	benchmark	Stream Monitoring	May	2020	5-28-20	Eagle	1	benchmark on Pewaukee River at the junction with the Fox	
General Public	9	9	benchmark	Stream Monitoring	May	2020	5-29-20	Mukwonago	1	benchmark on Scuppernon river @Hwy Z	
General Public	9	9	benchmark	Stream Monitoring	May	2020	5-30-20	Waukesha	1	benchmark for level 2 on Pabbie Creek at TT	
General Public	9	9	benchmark	stream monitoring	Jun	2020	6-8-20	Oconomowoc	1	benchmark on Rosnow Creek	
General Public	2	3	5 green home	presentation	Jun	2020	6-16-20	Sussex	1	storm drain education for world ocean day	
General Public	9	9	benchmark	Stream Monitoring	Jun	2020	6-18-20	Waukesha	3	virtual Green home program through Sussex Library	
General Public	9	9	benchmark	stream monitoring	Jun	2020	6-22-20	Genesee	2	biotic index on Pewaukee River	
General Public	4	9	Asian Clam	Asian Clam survey	Jul	2020	7-7-20	Pewaukee	2	benchmark monitoring on Genesee Creek and Spring Brook	
General Public	3	5	6. Soil and Water	Soil and Water merit badge	Jul	2020	7-15-20	Retzer	14	benchmark on Mukwonago river at Rainbow Springs.	
										19	Asian Clam survey on Pewaukee River
											Soil and Water merit badge workshop

General Public	1	2	Sustainability	Sustainability merit badge	Jul	2020	7-16-20	Reizer	19	Sustainability merit badge workshop
General Public	2		social media	social media	Jul	2020	7-20-20		1	proper disposal of household hazardous waste
General Public	1		social media	social media	Jul	2020	7-25-20		1	adopt a drain prom
General Public	1		social media	news releases/articles	Jul	2020	7-27-20		1	adopt a drain prom
General Public	1		social media	social media	Jul	2020	7-28-20		1	proper disposal of used motor oil
General Public	1		social media	news releases/articles	Jul	2020	7-28-20		1	adopt a drain prom
General Public	2		social media	displays and handouts	Jul	2020	7-29-20		250	Adopt a drain segment on Morning Blend TV show
General Public	1		social media	social media	Jul	2020	7-31-20		1	pick up after your pet message on coloring sheet for Hartland Kids Fest
General Public	1		social media	Storm Drain Stenciling	Jul	2020		Menomonee Falls	1	pet waste message for talk in an elevator day
General Public	2		social media	Storm Drain Stenciling	Aug	2020	8-3-20		1	volunteer contacted us and received 60 storm drain markers
General Public	3		social media	social media	Aug	2020	8-3-20		1	volunteer contacted us and received 20 storm drain markers
General Public	1		social media	social media	Aug	2020	8-9-20		1	composing message for sneak some zucchini on your neighbors porch day
General Public	3		social media	social media	Aug	2020	8-9-20		1	post on books--All the Way to the Ocean
Teachers and Students	9		workshop	teacher workshop	Aug	2020	8-10-20		9	Citizen Science in the Classroom workshop
General Public	9		benchmark	Stream Monitoring	Aug	2020	8-11-20		1	post on lawn care for national lazy day
General Public	1		benchmark	news releases/articles	Aug	2020	8-13-20	Reizer	1	benchmark flow at Sussex Creek
Teachers and Students	3	5	healthy soils	presentation	Aug	2020	8-17-20	Sussex	1	repeat of Adopt a drain segment on Morning Blend TV show
General Public	7		adopt a drain	social media	Aug	2020	8-19-20	Reizer	30	virtual healthy soils for Sussex Day Camp
General Public	1		adopt a drain	social media	Sep	2020	9-1-20		1	social media post on salt use
General Public	4		social media	social media	Sep	2020	9-3-20		79	newsletter for adopt a drain participants
General Public	5		social media	social media	Sep	2020	9-4-20		1	social media post on lawn care
Contractors, Dev. & Consul	7		smart salting	training	Sep	2020	9-6-20		1	social media post on books--Handful of dirt
Teachers and Students	3	5	healthy soils	Presentation	Sep	2020	9-6-20		26	Smart salting for roads virtual workshop
Teachers and Students	3	5	healthy soils	presentation	Sep	2020	9-9-20	Waukesha	23	healthy soils program for Prairie Elementary
Teachers and Students	3	5	healthy soils	presentation	Sep	2020	9-17-20	Waukesha	57	virtual healthy soils program for 3 classes at Rose Glen
General Public	2		social media	social media	Sep	2020	9-17-20	Oconomowoc	#	virtual healthy soils program for St. Jerome's-technical issues cancelled program
Contractors, Dev. & Consul	7		smart salting	training	Sep	2020	9-19-20		1	social media about pet waste
Teachers and Students	3	5	healthy soils	Presentation	Sep	2020	9-22-20		19	Smart Salting Parking lots virtual workshop
General Public	2		healthy soils	social media	Oct	2020	10-1-20	Muskego	72	program for Lakeview Elementary in Muskego Norway district
Teachers and Students	1		presentation	Presentation	Oct	2020	10-1-20		1	social media post about green cleaning
Teachers and Students	1		Presentation	Presentation	Oct	2020	10-1-20	Reizer	14	stream life workshop at Reizer for school kids
General Public	1		social media	Presentation	Oct	2020	10-1-20	Reizer	8	stream life workshop at Reizer for school kids
General Public	3	5	outreach	social media	Oct	2020	10-1-20		1	World smile day about adopting a storm drain
General Public	1		social media	social media	Oct	2020	10-2-20	Oconomowoc	125	National night out event
Teachers and Students	3	5	healthy soils	Presentation	Oct	2020	10-6-20		1	national farmer day post about testing soils before fertilization
Teachers and Students	3	5	healthy soils	Presentation	Oct	2020	10-12-20		1	national train your brain day crossword puzzle
General Public	3	5	healthy soils	Presentation	Oct	2020	10-15-20	Waukesha	35	healthy soils for Hadfield Elementary
General Public	3	5	healthy soils	Presentation	Oct	2020	10-15-20	Reizer	12	stream life workshop at Reizer for school kids
General Public	3	5	soils	Presentation	Oct	2020	10-17-20		3	virtual program for science fest
Teachers and Students	2		social media	social media	Oct	2020	10-15-20		*	virtual program for soils and basement wetness for adults as part of science fest
Teachers and Students	1		Presentation	Presentation	Oct	2020	10-24-20	Reizer	1	post includes picking up pet waste for national make a difference day
Teachers and Students	2		social media	social media	Oct	2020	10-27-20	Reizer	10	stream life workshop at Reizer for school kids
General Public	3	5	healthy soils	social media	Nov	2020	11-1-20	Reizer	7	stream life workshop at Reizer for school kids
General Public	3	5	healthy soils	presentation	Nov	2020	11-3-20	Reizer	1	social media post about using vinegar for green cleaning
General Public	3	5	healthy soils	presentation	Nov	2020	11-3-20	Reizer	4	outdoor classroom on soils
General Public	3	5	healthy soils	presentation	Nov	2020	11-3-20	Reizer	3	outdoor classroom on soils
General Public	3	5	healthy soils	presentation	Nov	2020	11-4-20	Reizer	12	outdoor classroom on soils
Teachers and Students	2	3	5 water resources	presentation	Nov	2020	11-4-20	Reizer	4	outdoor classroom on soils
General Public	3	5	social media	social media	Nov	2020	11-5-20	Waukesha	30	virtual program for school district of waukesha
General Public	3	5	social media	social media	Nov	2020	11-8-20		1	social media post about soil health
General Public	3	5	healthy soils	presentation	Nov	2020	11-17-20	Reizer	1	social media post to get people to see exhibits at Reizer
General Public	3	5	healthy soils	presentation	Nov	2020	11-19-20	Reizer	10	outdoor classroom on soils
General Public	7		social media	social media	Nov	2020	11-19-20	Reizer	10	outdoor classroom on soils
Teachers and Students	1	3	5	presentation	Dec	2020	12-8-20	Sussex	1	social media post about salt use
General Public	1	3	5	social media	Dec	2020	12-17-20	Sussex	18	water testing with biology students
Teachers and Students	1	3	5	presentation	Dec	2020	12-21-20	Sussex	1	social media post with crossword puzzle
Teachers and Students	1	3	5	presentation	Dec	2020	12-22-20	Sussex	14	water testing with AP students
Teachers and Students	1	3	5	presentation	Dec	2020	12-22-20	Sussex	21	water testing with AP students

COV indicates that program was cancelled due to COVID
* indicates that there were no participants
technical issues prevented program from happening

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
3. Yard Waste Management/Pesticide and Fertilizer Application	Green Cleaning and Household Elf programs	General Public	program that covers toxic cleaners and safer alternatives	X	X	X	X	X		P
	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
	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

