

CITY OF MANITOWOC



ANNUAL MS4 REPORT 2024

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

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.

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Form 3400-224(R8/2021)

Reporting Information :

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

Project Name: 2024 Annual Report

County: Manitowoc ▼

Municipality: Manitowoc, City ▼

Permit Number: S050075

Facility Number: 31424

Reporting Year: 2024 ▼

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

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Required Attachments and Supplemental Information

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

Annual Report

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



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Form 3400-224 (R8/2021)

Municipal Contact Information- Complete

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

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

Municipality Information

Name of Municipality: Manitowoc, City

Facility ID # or (FIN): 31424

Updated Information:

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

Mailing Address: 900 Quay Street

Mailing Address 2:

City: Manitowoc, City

State: WI

Zip Code: 54220-4543 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: Dan

Last Name: Koski

☐ Select to **update** current contact information

Title: Director

Mailing Address: 900 Quay Street

Mailing Address 2:

City: Manitowoc

State: Wisconsin

Zip Code: 54220 xxxxx or xxxxx-xxxx

Phone Number: 920-686-6910 Ext: xxx-xxx-xxxx

Email: dkoski@manitowoc.org

Additional Contacts Information (Optional)Individual with responsibility for: ☒ I&E Program(Check all that apply) ☒ IDDE Program☒ IDDE Response Procedure Manual☒ Municipal-wide Water Quality Plan☒ Ordinances☒ Pollution Prevention Program☒ Post-Construction Program☒ Winter roadway maintenance

First Name: Greg

Last Name: Minikel

Title: Engineering Manager

Mailing Address: 900 Quay Street

Mailing Address 2:

City: Manitowoc
State: Wisconsin
Zip Code: 54220
Phone Number: 920-686-6910
Email: gminikel@manitowoc.org

☒ Add contact

Municipal Billing Contact Person (Authorized Representative for MS4 Permit)

☒ Select to **create new** Billing contact

First Name: Greg
Last Name: Minikel

☒ Select to **update** current contact information

Title: Engineering Manager
Mailing Address: 900 Quay Street
Mailing Address 2:
City: Manitowoc
State: Wisconsin
Zip Code: 54220
Phone Number: 920-686-6910
Email: gminikel@manitowoc.org

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

☒ Yes ☐ No

☒ Public Education and Outreach Northeast Wisconsin Stormwater Consortium (NEWSC)

☒ Public Involvement and Participation NEWSC

☐ Illicit Discharge Detection and Elimination

☐ Construction Site Pollutant Control

☐ Post-Construction Storm Water Management

☐ Pollution Prevention

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

☐ Yes ☒ No

Missing Information

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

Form 3400-224 (R8/2021)

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

- a. Does MS4 conduct any educational efforts or events independently (not with a group) ☒ Yes ☐ No
- b. How many total educational events were held during the reporting year: 35
- c. Were any of the public education and outreach delivery mechanisms conducted during the reporting year active or interactive? ☒ Yes ☐ No
- d. Please select all storm water topics, target audiences, and delivery mechanisms used in the reporting year

Public Education and Outreach Delivery Mechanisms (Active and Passive)	
Active/Interactive Mechanisms	Passive Mechanisms
<input checked="" type="checkbox"/> Education activities (school presentations, summer camps)	<input checked="" type="checkbox"/> Passive print media (brochures at front desk, posters, etc.)
<input type="checkbox"/> Information booth at event	<input checked="" type="checkbox"/> Distribution of print media (mailings, newsletters, etc.) via mail or email.
<input type="checkbox"/> Targeted group training (contractors, consultants, etc.)	<input checked="" type="checkbox"/> Media offerings (radio and TV ads, press release, etc.)
<input checked="" type="checkbox"/> Government event (public hearing, council meeting)	<input checked="" type="checkbox"/> Social media posts
<input checked="" type="checkbox"/> Workshops	<input checked="" type="checkbox"/> Signage
<input type="checkbox"/> Tours	<input checked="" type="checkbox"/> Website
<input type="checkbox"/> Other:	<input type="checkbox"/> Other: Digital billboard "Smart Salting Saves O...

Topics Covered	Target Audience
<input checked="" type="checkbox"/> Illicit discharge detection and elimination	<input checked="" type="checkbox"/> General Public
<input checked="" type="checkbox"/> Household hazardous waste disposal/pet waste management/vehicle washing	<input checked="" type="checkbox"/> Public Employees
<input checked="" type="checkbox"/> Yard waste management/pesticide and fertilizer application	<input checked="" type="checkbox"/> Residents
<input type="checkbox"/> Stream and shoreline management	<input checked="" type="checkbox"/> Businesses
<input checked="" type="checkbox"/> Residential infiltration	<input checked="" type="checkbox"/> Contractors
<input checked="" type="checkbox"/> Construction sites and post-construction storm water management	<input type="checkbox"/> Developers
<input checked="" type="checkbox"/> Pollution prevention	<input type="checkbox"/> Industries
<input type="checkbox"/> Green infrastructure/low impact development	<input checked="" type="checkbox"/> Public Officials
<input type="checkbox"/> Other:	<input type="checkbox"/> Other:

- e. Will additional information/summary of these education events be attached to the annual report? ☒ Yes ☐ No

If no, please provide additional comment in the brief explanation box below. *Limit response to 250 characters and/or attach supplemental information on the attachments page.*

See attached City of Manitowoc Outreach Plan, 2024 NEWSC Annual Report, 2024 Education and Training Summary and the City of Manitowoc 2024 MS4 Program Summary.

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

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Form 3400-224 (R8/2021)

Minimum Control Measures - Section 2 : Complete

2. Public Involvement and Participation

a. Permit Activities. Select all of the following topics the Permittee did to engage public participation and involvement.

Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
<input checked="" type="checkbox"/> MS4 Annual Report <input checked="" type="checkbox"/> Storm Water Management Program <input type="checkbox"/> Storm Water related ordinance <input type="checkbox"/> Other: <input type="text"/>	<input checked="" type="checkbox"/> General Public <input checked="" type="checkbox"/> Public Employees <input checked="" type="checkbox"/> Residents <input checked="" type="checkbox"/> Businesses <input checked="" type="checkbox"/> Contractors <input checked="" type="checkbox"/> Developers <input checked="" type="checkbox"/> Industries <input checked="" type="checkbox"/> Public Officials <input type="checkbox"/> Other	101 + <input type="text"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No

b. Volunteer Activities. Select all of the following audiences targeted for volunteer involvement and participation related to storm water.

☐ NA (Individual Permittee)

Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
Volunteer Opportunity	<input checked="" type="checkbox"/> General Public <input checked="" type="checkbox"/> Public Employees <input checked="" type="checkbox"/> Residents <input type="checkbox"/> Businesses <input type="checkbox"/> Contractors <input type="checkbox"/> Developers <input type="checkbox"/> Industries <input checked="" type="checkbox"/> Public Officials <input type="checkbox"/> Other	101 + <input type="text"/>	<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 Manitowoc Outreach Plan, 2024 NEWSC Annual Report, 2024 Education and Training Summary and the City of Manitowoc 2024 MS4 Program Summary.

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

- a. How many total outfalls does the municipality have?
- b. How many major outfalls does the municipality have?
- c. How many outfalls did the municipality evaluate as part of their routine ongoing field screening program?
- d. From the municipality's routine screening, how many were confirmed illicit discharges?
- e. How many illicit discharge complaints did the municipality receive?
- f. From the complaints received, how many were confirmed illicit discharges?
- g. How many of the identified illicit discharges did the municipality eliminate in the reporting year (from both routine screening and complaints)?
- (If the sum of 3.c. and 3.e. does not equal 3.f., please explain below.)
- h. What types of regulatory mechanisms does the municipality have available to compel compliance with this program? Check all that are available and how many times each were used in the reporting year.
- | | |
|---|--------------------------------|
| <input checked="" type="checkbox"/> Verbal Warning | <input type="text" value="0"/> |
| <input checked="" type="checkbox"/> Written Warning (including email) | <input type="text" value="8"/> |
| <input checked="" type="checkbox"/> Notice of Violation | <input type="text" value="0"/> |
| <input checked="" type="checkbox"/> Civil Penalty/ Citation | <input type="text" value="0"/> |

Additional Information: _____

- i. 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 Manitowoc 2024 MS4 Program Summary.

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

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

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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?
- 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?
- c. How many erosion control inspections did the municipality complete in the reporting year (at sites with one acre or more of land disturbing construction activity)?
- d. What types of regulatory mechanisms does the municipality have available to compel compliance with this program? Check all that are available and how many times each were used in the reporting year.
- | | |
|---|--------------------------------|
| <input checked="" type="checkbox"/> Verbal Warning | <input type="text" value="0"/> |
| <input checked="" type="checkbox"/> Written Warning (including email) | <input type="text" value="0"/> |
| <input checked="" type="checkbox"/> Notice of Violation | <input type="text" value="0"/> |
| <input checked="" type="checkbox"/> Civil Penalty/ Citation | <input type="text" value="0"/> |
| <input checked="" type="checkbox"/> Stop Work Order | <input type="text" value="0"/> |
| <input checked="" type="checkbox"/> Forfeiture of Deposit | <input type="text" value="0"/> |
| <input type="checkbox"/> Other - Describe below | <input type="text"/> |
- 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 Manitowoc 2024 MS4 Program Summary.

Missing Information

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

Form 3400-224 (R8/2021)

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

- a. How many new structural storm water management Best Management Practice (BMP) have received local approval?
*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,
- b. Does the MS4 have procedures for inspecting and maintaining private storm water facilities? ☒ Yes ☐ No
- c. If Yes, how many privately owned storm water management facilities were inspected in the reporting year? Inspections completed by private landowners should be included in the reported number.
- d. Does the municipality utilize privately owned storm water management BMP in its pollutant reduction analysis? ☒ Yes ☐ No
- e. Does MS4 have maintenance authority on these privately owned BMPs?
☒ Yes ☐ No
- f. 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.
- | | |
|---|--------------------------------|
| <input checked="" type="checkbox"/> Verbal Warning | <input type="text" value="0"/> |
| <input checked="" type="checkbox"/> Written Warning (including email) | <input type="text" value="0"/> |
| <input checked="" type="checkbox"/> Notice of Violation | <input type="text" value="0"/> |
| <input checked="" type="checkbox"/> Civil Penalty/ Citation | <input type="text" value="0"/> |
| <input type="checkbox"/> Forfeiture of Deposit | <input type="text" value="0"/> |
| <input checked="" type="checkbox"/> Complete Maintenance | <input type="text" value="0"/> |
| <input checked="" type="checkbox"/> Bill Responsible Party | <input type="text" value="0"/> |
| <input type="checkbox"/> Other - Describe below | <input type="text" value=""/> |

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

See attached City of Manitowoc 2024 MS4 Program Summary and Stormwater BMP Facilities.

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

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 6 : Complete**6. Pollution Prevention**Storm Water Management Best Management Practice Inspections ☐ Not Applicable

- a. Enter the total number of "municipally owned" (i.e., publicly owned BMPs) or operated (i.e., privately owned BMPs) structural storm water management best management practices.
- b. How many new municipally owned storm water management best management practices were installed in the reporting year?
- c. How many municipally owned (public) storm water management best management practices were inspected in the reporting year?
- d. What elements are looked at during inspections (250 character limit)?
- e. How many of these facilities required maintenance?
- f. Brief explanation on Storm Water Management Best Management Practice 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.*

Public Works Yards & Other Municipally Owned Properties that require a stormwater pollution prevention plan (SWPPP)* ☐ Not Applicable

- g. How many municipal properties require a SWPPP?
- h. How many inspections of municipal properties have been conducted in the reporting year?
- i. Have amendments to the SWPPPs been made?
☐ Yes ☒ No
- 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.*

* Any municipally owned property that has the potential to generate stormwater pollution should have a SWPPP. For example, if a municipal property stores compost piles, material storage, yard wastes, etc., outside and can contaminate stormwater runoff—a SWPPP is required.

Collection Services - *Street Sweeping Program* ☐ Not Applicable

- l. Did the municipality conduct street sweeping during the reporting year?
☒ Yes ☐ No
- m. If known, how many tons of material was removed?
- n. Does the municipality have a low hazard exemption for this material? ☐ Yes ☒ No
- o. If street sweeping 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 Streets swept once a week April to December
☐ 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
- q. How many catch basin sumps were cleaned in the reporting year?
- r. If known, how many tons of material was collected?
- 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 Cleaned annually
☐ No - Explain _____
☐ Not Applicable

Collection Services - *Leaf Collection Program* ☐ Not Applicable

- u. Does the municipality conduct curbside leaf collection? ☒ Yes ☐ No
- v. Does the municipality notify homeowners about pickup? ☒ Yes ☐ No
- w. Where are the residents directed to store the leaves for collection?
☐ Pile on terrace ☐ Pile in street ☐ Bags on terrace
☒ Other - Describe Place leaves in the street the night before
- x. What is the frequency of collection? Weekly
- y. Is collection followed by street sweeping? ☒ Yes ☐ No
- z. Brief explanation on Collection Services reporting. *Limit response to 250 characters and/or attach supplemental information on the attachments page*

See attached City of Manitowoc 2024 MS4 Program Summary under pollution prevention and the Leaf Pick Up & Snow Removal Flyer in attachments.

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? (*One mile of a two-way road equals two lane miles.*)
- ab. Provide amount of de-icing products used by month last winter season?
Solids (tons) (ex. sand or salt-sand)

Solids (tons) (ex. sand, or salt sand)							
Product		Oct	Nov	Dec	Jan	Feb	Mar
Salt	▼	0	25	218	224	99	125
Salt/sand mix	▼	0	0	0	60	0	0

Insert item

Liquids (gallons) (ex. brine)

		Oct	Nov	Dec	Jan	Feb	Mar
Brine	▼	0	0	4023	946	1490	875

Insert item

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

Training Date	Training Name	# Attendance
12/19/2024	DPW Snow Conference	23

Add training (Ctrl D to delete item)

- 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 Manitowoc 2024 MS4 Program Summary and 2024 Education and Training Summary.

Internal (Staff) Education & Communication

- af. Has the municipality provided an opportunity for internal training or education to staff implementing the municipality's procedures for each of the pollution prevention program element? ☒ Yes ☐ No

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

Excal Visual Pollution Prevention Training

- ag. Describe how the municipality has kept the following local officials and municipal staff aware of the municipal storm water discharge permit programs, procedures and pollution prevention program requirements.

Elected Officials

Elected officials review the annual report. They are sent stormwater press releases and review/discuss stormwater related items at committee and council meetings.

Municipal Officials

Municipal officials review the annual report. They are sent stormwater press releases and attend MS4 team meetings.

Appropriate Staff (such as operators, Department heads, and those that interact with public)

Appropriate staff is sent stormwater press releases, stormwater related webinars and conferences and attend MS4 team meetings.

- 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 Manitowoc 2024 MS4 Program Summary and 2024 Education and Training Summary.

Missing Information

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Form 3400-224 (R8/2021)

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

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

☒ Yes ☐ No

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.*

The City of Manitowoc updated the storm sewer system and treatment devices in January of 2024 for the work completed in 2023.

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

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Form 3400-224 (R8/2021)

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

158	1500	1500	General revenue fund ▼
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☐ Add Program Element**Element:** Public Involvement and Participation

0	1500	1500	General revenue fund ▼
---	------	------	------------------------

☐ Add Program Element**Element:** Illicit Discharge Detection and Elimination

8809	4000	4000	General revenue fund ▼
------	------	------	------------------------

☐ Add Program Element**Element:** Construction Site Pollutant Control

0	5000	5000	General revenue fund ▼
---	------	------	------------------------

☐ Add Program Element**Element:** Post-Construction Storm Water Management

1435	25000	25000	General revenue fund ▼
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☐ Add Program Element**Element:** Pollution Prevention

448271	600000	600000	General revenue fund ▼
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☐ Add Program Element**Other (describe)** Stormwater Quality Management

18971	175500	175500	General revenue fund ▼
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☐ Add Program Element

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

Nothing was applied to this category in 2024

Water Quality

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

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

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

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

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

☐ Yes ☒ No ☐ Unsure

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

☒ Yes ☐ No ☐ Unsure

Storm Water Quality Management

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

☐ Yes ☒ No

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

Total suspended solids (TSS)

Total phosphorus (TP)

Additional Information

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

Missing Information

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Form 3400-224 (R8/2021)

Requests for Assistance on Understanding Permit Programs

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

Please select all that apply:

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

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Form 3400-224(R8/2021)

Required Attachments and Supplemental Information

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

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

***Required Item**

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

Storm Sewer System Map

Click here to attach a file

[H - 2024 MS4 System.pdf](#)



Attach - Other Supporting Documents

Public Involvement and Participation AR Summary



Click here to attach a file

[A - 2024 City of Manitowoc MS4 Program Summary.pdf](#)



Public Education and Outreach AR Summary



Click here to attach a file

[B - 2024 Public Education & Training Summary.pdf](#)



Public Education and Outreach AR Summary



Click here to attach a file

[B - 2024 City of Manitowoc Outreach Plan.pdf](#)



Illicit Discharge Detection and Elimination AR Summary



Click here to attach a file

[C - 2024 Illicit Discharge.pdf](#)



Municipal Facility Inspections AR



Click here to attach a file

[C - 2024 Outfall Monitoring.pdf](#)



Construction Site Pollution Control AR Summary



Click here to attach a file

[D - 2024 Construction Site Permits Summary.pdf](#)



Municipal BMP Inspection Report



Click here to attach a file

[E - 2024 Stormwater BMP Facilities.pdf](#)



Pollution Prevention AR Summary




Click here to attach a file

[F - 2024 Pollution Prevention Plan.pdf](#)



Leaf and Yard Waste Management AR




 Click here to attach a file

[F - 2024 Leaf Flyer.pdf](#)



Winter Road Maintenance AR




 Click here to attach a file

[F - 2024 Snow Flyer.pdf](#)



Other Annual Report Attachment



 Click here to attach a file

[G - 2024 Budget.pdf](#)



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

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Attachment A

City of Manitowoc 2024 MS4 Program Summary

The City of Manitowoc is located in the Northeast Lake Shore TMDL area. The new MS4 permit has been approved, per email from DNR. The TMDL implementation plan is not formally due, at this time. The City of Manitowoc received a WDNR urban planning grant and worked with Strand Associates, to update the 2023 storm water quality management plan and to comply with the Municipal Separate Storm Sewer System permit and the Northeast Lakeshore total maximum daily load limits.

Public Education and Outreach

The City of Manitowoc continues to actively implement an effective public education and outreach program. The City of Manitowoc is an active member of NEWSC and is aware that the NEWSC annual report has been submitted to the WDNR. Activities in the report should be credited to the City of Manitowoc. During 2024, NEWSC provided its members with many educational documents for use in their own communities and the City of Manitowoc utilized them when appropriate. NEWSC also participated in the Fox Wolf Watershed Conference as a means to better reach out and educate the public. The City of Manitowoc sponsored this conference as a Silver Sponsor in 2024, so some of the educational credit component should be given to the City of Manitowoc.

The City of Manitowoc also continues to maintain partnerships with The Wisconsin Maritime Museum, Friends of the Manitowoc River Watershed (FMRW), Lakeshore Natural Resources Partnership (LNRP) and Woodland Dunes Nature Center to assist in implementing our public education program. The Maritime Museum and Woodland Dunes Nature Center have the resources available to draw in citizen groups for education and storm water stenciling. In 2024, we again stenciled inlets getting volunteer groups from both Manitowoc Lutheran High school and the local Girl Scout group. We also had volunteers from LNRP install stainless steel stormwater markers on inlets.

The City of Manitowoc also did a great deal of public education on its own. We sponsored a billboard to educate residents on the importance of smart salting to avoid harming our fish and aquatic life. We also sent out press releases to educate the public and elected officials on various storm water related issues. The press releases are sent to the Herald Times Reporter, the City Facebook, Twitter, and Instagram accounts, as well as being emailed to all city employees and elected officials. The city mailed educational flyer to privately owned post construction storm water facilities.

- 6 storm water related press releases sent out.
- 81 storm water facility educational flyers mailed.
- 6 Letters sent to residents for Brush and Raking clean up.

Public Involvement and Participation

The City of Manitowoc implemented a public involvement program utilizing the **Northeast Wisconsin Storm Water Consortium (NEWSC) spreadsheet**. This includes promoting storm drain stenciling projects; beach and river clean up, press releases and discussions at public meetings related to storm water. Public involvement action items for 2024 include:

- Public meeting/council meeting discussions
- MS4 annual report for 2023

- Storm water maintenance agreement for:
 - Manitowoc Tool & Manufacturing storm pond
- Working with City of Manitowoc Surveyor and RA Smith to design a stormwater plan for the former Heresite property
- Volunteer opportunities
 - Beach clean-up
 - River clean-up
 - Storm drain stenciling
 - 244 inlets stenciled
 - 420 stainless steel markers installed on inlets
 - 25 volunteers

Illicit Discharge Detection and Elimination

The City of Manitowoc's IDDE program includes outfall field screenings, resident complaints, other city observed issues and follow up actions. IDDE actions items for 2024 include:

- Completed a field screening of 85 outfalls
- Received and responded to 8 illicit discharge complaints
- Updated the City of Manitowoc MS4 map with new catch basins, BMP's, outfall locations and storm sewer

Construction site Pollution Control

The City of Manitowoc's construction site pollution control includes review of permit applications and erosion control plans, conducted municipal site inspections, and enforcing erosion control ordinances. Construction site pollution control action items for 2024 include:

- Reviewed and issued 15 erosion control permits
- 17 construction sites and 24 documented inspections
- Numerous erosion control inspections have been completed

Post Construction Storm Water Management

The City's Post Construction site program includes review of permit applications, and plans, drafting maintenance agreements, tracking long term maintenance of storm water facilities, and educating applicants, designers, inspectors and facility owners. Post construction site pollution control action items for 2024 include:

- Reviewed and issued permits to 3 construction sites for structural storm water facilities
- Recorded 1 maintenance agreements for Manitowoc Tool & Machine
- Sent letters with education flyer to 81 private post construction storm water facilities requesting required inspections. Received 54 completed inspections back from the private facilities.
- Municipal and professional inspections of all city owned post construction storm water facilities.
- Trapper visited, inspected and trapped 11 city wet ponds
- Cleaned discharge grate several times at the S. 10th Street Pond to help with efficiency
- Took ownership of the Popp Subdivision pond

Pollution Prevention

The City of Manitowoc's pollution prevention program includes street sweeping, catch basin cleaning; apply road salt and deicers only as necessary to maintain safety, managing leaves and grass clippings, pollution prevention planning for city owned sites and yards, education of employees and inspection of municipally owned storm water facilities. Pollution prevention action items for 2024 include:

- Inspection of municipally owned storm water facilities
- Cleaning of "all" catch basins and inlets once in spring (Advised by Billy Hutterer, Operations Manager, that all were cleaned.
- This removed 160 tons about 78 CY assuming catch basins are 2/3 full
- 6 new catch basins were added in 2024
- Conducted weekly leaf collection in fall with a onetime pick up in spring.
- 10,365 Cubic Yards of Leaves and brush picked up.
- Street sweeping weekly
- Issued 2,848 parking tickets and handing out 4,015 parking violation warnings
- 8,231 miles of streets was swept
- 669.59 tons of sweeping and catch basin material removed/landfilled
- 108,375 feet of ditches maintained
- 31,226 feet of storm sewers cleaned and televised
- Quarterly Parks SWPPP inspections
- Quarterly DPI SWPPP inspections
- Quarterly Newton Gravel Pit SWPPP inspections
- 36 staff watched Excal Visual Storm Water Pollution Prevention DVD
- The city held 2 MS4 team meetings
- Winter Road Management
- 23 Employees attend DPW snow plowing and salt use training on Dec 19th, 2024.
- Salt application equipment calibrated.
- The City of Manitowoc picks up leaves weekly from October to December. Residents are notified by a press release and information on the City Website. Residents are required to store leaves in the terrace until the night before there scheduled pick up day when they are asked to place the leaves in the street for city crews to pick up. Street sweeping follows the pick-up crews and parking bans are in place to assist in clean up.
- The City of Manitowoc is working on a BRIC Grant for the Rubick Pond
- The City of Manitowoc is working on a BRIC Grant for the Halverson Park Pond
- The City of Manitowoc purchased land in 2024 for a new Custer Street stormwater pond and is working on a BRIC Grant

Storm water mapping

The City of Manitowoc updated the storm water mapping on its GIS system. This included all new storm pipes, manholes, catch basin/inlets, outfalls and BMPs constructed in 2023. The 2024 construction season will be updated early in 2025. Updated mapping items in 2024 include:

- Installed 2,294 feet of storm pipe
- Installed 6 catch basins
- Installed 16 storm manholes
- 1 private storm ponds and 0 infiltration basin were added
- The storm drain stenciling map with 244 storm drains stenciled and 420 stainless steel markers

Proposed Changes

The City of Manitowoc has worked aggressively to meet the MS4 obligations. The City has again held MS4 Team Meetings in 2024 where managers and parties involved discussed and evaluated the City of Manitowoc's storm water program. The city is working towards reviewing and implementation of the suggested changes, provided by Strand Associates LLC, completed in a recent stormwater study. This will help the city try to meet, when implemented, the Northeast Lakeshore TMDL requirements.

The City of Manitowoc is looking into ordering another new street sweeper in near future to replace an older one.

Attachment B

2024 Staff Training/Discussion Activities

Date	Activity	Summary	Attendee(s)
1/22/2024	Saltwise Wisconsin Webinar	Salt Pollution Trends in our Lakes and Rivers - Hilary Dugan, University of Wisconsin Madison	Brad
1/23/2024	Saltwise Wisconsin Webinar	Salt: An Environmental Justice Contaminant - Sawyer Bailey, Adirondack Action	Brad
1/24/2024	Saltwise Wisconsin Webinar	Ecological Consequences of Salting our Freshwater - Bill Hintz, University of Toledo	Brad
1/25/2024	Saltwise Wisconsin Webinar	From Pathways to Highways: Tribal Perspectives - Bill Quackenbush, Ho-Chunk Nation and Jeremy Weso, Menominee Nation	Brad
1/26/2024	Saltwise Wisconsin Webinar	Witer Ops that Reduce Salt Use - Laura Fay, Western Transportation Institute, Montana State University	Brad
1/29/2024	Contech Technical Seminar	Technical session on products available from Contech Engineered Solutions	Brad, Matt, Mike, Dan, Billy and Scott
2/14/2024	Stormwater Inspection Training	Improving Public Works Construction Inspection Skills - University of Wisconsin Madison	Brad
2/15/2024	Stormwater Inspection Training	Improving Public Works Construction Inspection Skills - University of Wisconsin Madison	Brad
2/27/2024	Foxwolf Watershed Association Annual	Stormwater Conference/Training	Brad, Greg and Dan
2/28/2024	Foxwolf Watershed Association Annual	Stormwater Conference/Training	Brad, Greg and Dan
3/5/2024	MS4 Compliance Workshop	MS4 Compliance Workshop - Presented by Ruekert/Mielke	Brad
3/19/2024	MS4 Team Meeting	City of Manitowoc Employees discuss MS4 topics	Brad, Matt, Greg, Dan, Billy & Curt
10/31/2024	Saltwise Equipment Open House	Equipment open house aimed at accelerating local adoption of best practices on snow and ice control	Jeremy (JJ) and Billy
12/12/2024	MS4 Team Meeting	City of Manitowoc Employees discuss MS4 topics	Brad, Matt, Greg, Dan, Billy & Brock
12/19/2024	DPW Snow Conference	Training held with snow plow drivers. Discussion on salt conservation	23 DPI Employees
Multiple	Excel Visual Video	Excel Visual Stormwater Video on Pollution Prevention	36 Parks/Zoo Seasonal Staff
Multiple	Excel Visual Video	Excel Visual Stormwater pollution prevention	36 Parks/Zoo Seasonal Staff

Outreach & Education Goal: Increase awareness of storm water pollution impacts on waters of the state and encourage changes in public behavior to reduce such impacts.



MS4 Manager	DPW Team leader	Parks Team leader	Storm water Tech	Social Media	Press Release
Greg	Billy	Curt	Brad	Haelee & Sojna	Sonja

[illegible]

#	2.1.1 Topic	Description Add WDR description from permit language	2.1.3 Target Audience Description	NEWSC Resource Available	Resources from Others worth checking out	Where to get it/How to use it	2.1.2 Delivery Mechanism Active/Passive	2020					2021					2022					2023					2024									
								Action	Person Responsible	Date Planned/ Complete	Reach	Complete?	Action	Person Responsible	Date Planned/ Complete	Reach	Complete?	Action	Person Responsible	Date Planned/ Complete	Reach	Complete?	Action	Person Responsible	Date Planned/ Complete	Reach	Complete?	Action	Person Responsible	Date Planned/ Complete	Reach	Complete?	Action	Person Responsible	Date Planned/ Complete	Reach	Complete?
Select the Target Audience If other, specify			Provide details about what it is so that implementing the Outreach is easier.			Select your type of Delivery Mechanism	What is planned?	Who is going to do it?	When?	# people reached	Yes/No	What is planned?	Who is going to do it?	When?	# people reached	Yes/No	What is planned?	Who is going to do it?	When?	# people reached	Yes/No	What is planned?	Who is going to do it?	When?	# people reached	Yes/No	What is planned?	Who is going to do it?	When?	# people reached	Yes/No						
			General Public	Other (Specify Here)	The Perfect Landscape Webpage	http://www.renewourwaters.org/the-perfect-landscape/	Social media posts								May					May					Post to City Facebook page	Haelee/Brad	May		Yes	Post to City Facebook page	Haelee/Brad	May		Yes			
			General Public	Other (Specify Here)	Rain Barrel Webpage	http://www.renewourwaters.org/rain-barrels/	Social media posts								April					April					Post to City Facebook page	Haelee/Brad	April		Yes	Post to City Facebook page	Haelee/Brad	April		Yes			
				Other (Specify Here)	School Presentations	See Outreach Policy for procedure to make the most of NEWSC services https://drive.google.com/filed/1BuC9h1G6Cw1z3WuEVN1J6dJ-TZ6/view?usp=sharing																															
	Other (Specify Here)	Exhibit in Your Community to highlight topic	See Outreach Policy for procedure to make the most of NEWSC services https://drive.google.com/filed/1BuC9h1G6Cw1z3WuEVN1J6dJ-TZ6/view?usp=sharing																																		
	Residents	Other (Specify Here)		http://www.renewourwaters.org/rain-barrels/	Website	Rain Barrel and Rain Garden web page	Matt	2020		yes	Rain Barrel and Rain Garden web page	Matt	through out year		Yes	Rain Barrel and Rain Garden web page	Matt	through out year		Yes	Rain Barrel and Rain Garden web page	Amy	through out year		Yes	Rain Barrel and Rain Garden web page	Brad	through out year									
	Other (Specify Here)																																				
6	Construction Sites & Post Construction Stormwater Management	Inform and educate those responsible for the design, installation, and maintenance of construction site erosion control practices and storm water management facilities on how to design, install, and maintain the practices.		1 and 2 family home builders	EPA's Stormwater & The Construction Industry - Maintain Your BMPs Poster	http://www.renewourwaters.org/wp-content/uploads/2019/07/Construction-BMPs-Erosion-Sediment-Control.pdf																															
				1 and 2 family home builders	Erosion Control Workshop for 1 & 2 Family Home Builders, Contractors and Inspectors	NEWSC training held every other year or as requested.	Targeted group training (contractors, consultants)																	Request Newsc to assist with local trainings	Matt	February											
				Builders and Contractors	Erosion & Sediment Control Pocket Field Guide	https://www.sharepoint.com/:s/s/NEWSC2/EdPUnDRD7MRKQgfhfnepl-o8chXb5kenGX0HmZ5nlhwgA7e-vTY8g																															
			General Public			NASECA Erosion Control Training																															
				Other (Specify Here)																																	
				Other (Specify Here)	Stormwater BMP Workshop - Design/Operation/Maintenance	NEWSC Municipal Committee holds trainings annually	Targeted group training (contractors, consultants)								storm pond dredging workshop	Matt	11/29/2021	1	Yes	illicit discharge webinar	Matt Victoria and Jed	June 28th	3	Yes													
			Public Employees		Waukesha County Storm water workshop	Annual workshop	Targeted group training (contractors, consultants)	Ms4 managers attended						Ms4 managers attended	Matt, Dan, Greg	April 20 & 21	3	Yes	Ms4 managers attended	Dan Greg & Matt	4/13 to 4/14	3	yes	FWWA Conference	Brad	February	4	Yes	FWWA Conference	Brad	February	Yes					
			Public Employees	Other (Specify Here)	Fox-Wolf Watershed Conference	Annual Conference held 1st Tuesday/Wednesday in March - check online www.fwwa.org for conference for more details	Targeted group training (contractors, consultants)	Ms4 managers attended	Matt	3-Mar	3	yes	Ms4 managers attended	Matt, Dan, Greg	March 2,3&4	3	Yes	Ms4 managers attended	Dan Greg & Matt	3/8/22 & 3/9/22	3	Yes	Ms4 managers attended	Brad	Spring/Fall	8	Yes	Ms4 managers attended	Brad	Spring & Fall		Yes					
			Contractors	Other (Specify Here)			Website	Erosion control web page		Through out year		yes	Erosion control web page		Through out year		Yes	Erosion control web page		Through out year		Yes	Erosion control web page	Brad	Through out year		Yes	Erosion control web page	Brad	Through out year		Yes					
			Developers				Website	Stormwater management web page	Matt	Through out year		yes	Stormwater management web page	Matt	Through out year		Yes	Stormwater management web page	Matt	Through out year		Yes	Stormwater management web page	Brad	Through out year		Yes	Stormwater management web page	Brad	Through out year		Yes					
	Other (Specify Here)																																				
7	Pollution Prevention	Identify businesses and activities that may pose a storm water contamination concern, and educate those specific audiences on methods of stormwater pollution prevention.		Other (Specify Here)	Dumpster Management Poster	content/uploads/2015/04/Dumpster-Management-bilingual-pamphlet.pdf	Signage																														
			Public Employees	All property owners over 1/2 acre pervious surface	Winter Parking Lot Workshop	NEWSC training anticipated to be held every other year (2021/2023)	Targeted group training (contractors, consultants)																														
				Other (Specify Here)	Fleet Maintenance Training Poster	https://drive.google.com/filed/15P7kQD6xpnqJxaiqD6UN3PM7K92-kCjM44wvQ/view?usp=sharing	Signage																														
				Other (Specify Here)	Parks & Grounds Maintenance Training Poster	https://drive.google.com/filed/1DLAT1XwBZVmoOIEVQJE01S21JU-wfCj1ZCQ118DME9956EquH5Ynn9View?usp=sharing	Signage																														
				Other (Specify Here)	Land Disturbance Training Poster	https://drive.google.com/filed/114n-wfCj1ZCQ118DME9956EquH5Ynn9View?usp=sharing	Signage																														
				Other (Specify Here)	Materials Storage & Spill Cleanup Training Poster	https://drive.google.com/filed/1agpaN4kVhf-sYagwQ9h8aQd6gHvew2uesbaden-wfCj1ZCQ118DME9956EquH5Ynn9View?usp=sharing	Signage																														
				Other (Specify Here)	Streets & Drainage Maintenance Training Poster	https://drive.google.com/filed/1SS8aN15yKbQe97vsgP1P3mPZG1NptU-view?usp=sharing	Signage																														
				Other (Specify Here)	Solid Waste Operations Training Poster	https://drive.google.com/filed/1PipFPaAYXDMD-Cu3AAxVkm7V65wvQ/view?usp=sharing	Signage																														
				Other (Specify Here)	Parks & Grounds Maintenance 2 Training Poster	https://drive.google.com/filed/1dysgX8M-vlR0uJCMv-1D26ZQoQV2view?usp=sharing	Signage																														
				Other (Specify Here)	Streets & Drainage Maintenance 2 Training Poster	https://drive.google.com/filed/1e9XTG2tBaan7v9QOQcMoEVB-gC75Cv2view?usp=sharing	Signage																														
				Other (Specify Here)	Solid Waste Operations 2 Training Poster	https://drive.google.com/filed/1aiEHSLBmXacC1uleuuRh_8QISpQjvYv6-wQuesbaden-view?usp=sharing	Signage																														
				Other (Specify Here)	Land Disturbance 2 Training Poster	https://drive.google.com/filed/151MQawQKc-Qab8Ww2kQQAcl4iKZgZview?usp=sharing	Signage																														
			Public Employees	Other (Specify Here)	Excal Visual Training (DVD training) - Raincheck	https://www.excalvisual.com/swrc-extended-preview Contact NEWSC Coordinator to check out	Targeted group training (contractors, consultants)	Parks, Cemetery and seasonals Training	Curt	May	38	yes	DPW & seasonals	Billy																							
			Residents	Other (Specify Here)			Website	Pollution Prevention web page	Matt	Through out year		Yes	Pollution Prevention web page	Matt	Through out year		Yes	Pollution Prevention web page	Matt	Through out year		Yes	Pollution Prevention web page	Brad	Through out year		Yes	Pollution Prevention web page	Brad	Through out year		Yes					
								Social media posts								11/19/2021		Yes	Herald times article on responsible salt use.	Matt/Stacey																	
				Other (Specify Here)	Watershed Cleanup*	See Outreach Policy for procedure to make the most of NEWSC services https://drive.google.com/filed/1BuC9h1G6Cw1z3WuEVN1J6dJ-TZ6/view?usp=sharing																															
	Other (Specify Here)																																				
8	Green Infrastructure/Low Impact Development	Promote environmental sensitive land development designs by developers and designers, including green infrastructure and low impact development.		Other (Specify Here)																																	
				Electd Officials		Waukesha County Stormwater Workshop																															

Attachment C

2024 Illicit Discharge Activities							
No.	Date	Location	Summary	Action Taken	WDNR notified	Status	Staff
1	1/31/2024	N. 18th St. Near Revere Dr.	Small Oil Puddles in street from a possible accident	DPW cleaned up with oil dry	No	Closed	Brad
2	2/26/2024	River near City Hall	Garbage bags floating in river	Reviewed cameras to try to determine how the bags got into the river. Unable to determine a responsible party. DPW staff removed as much as they could reach.	No	Closed	Brad
3	4/2/2024	612 N. 6th St.	Gravel pile in street	Letter sent to owner notifying of the complaint and stormwater issues. Owner removed the gravel.	No	Closed	Brad
4	5/15/2024	1126 S. 21st St.	Gravel pile in street	Letter sent to owner notifying of the complaint and stormwater issues. Owner removed the gravel.	No	Closed	Brad
5	6/18/2024	840 N. 15th St.	Grass in street	Letter sent to owner notifying of the complaint and stormwater issues. Owner removed the grass.	No	Closed	Brad
6	9/26/2024	1310 Clark St.	Mud/Gravel tracking on street	Met owner on-site and followed up with letter. Owner requested city to send street sweeper. DPW sent street sweeper and the owner was invoiced for the work.	No	Closed	Brad
7	10/1/2024	Waldo Blvd. & N. Rapids Rd.	Oil Spill	An oil jug fell off of a garbage truck and spilled in intersection. FD placed oil dry and DPW responded with street sweeper to pick up the loose material. Garbage company identified on camera and invoiced for the work.	No	Closed	Brad
8	12/4/2024	1417 S. 12th St.	Gravel pile in street	Letter sent to owner notifying of the complaint and stormwater issues. Owner removed the gravel.	No	Closed	Brad
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							

2024 OUTFALL MONITORING

Outfall ID	Material	Size	Watershed	Outfall Location	Inspectors	Inspection Date	Date of Last Rainfall	Rainfall Amount (Inches)	Pipe/Outfall Active	Flow Rate	Color	Order	Floatables	Water Level (Inches)	Turbidity	Surface Sheen	pH	Chlorine	Detergent	Copper	Phenols	Ammonia	Remarks
L12-OUT1	Galvanized	24"	LAKE MICHIGAN	END OF GREEN ST BEHIND MPU STEEL BUILDING	SM TH	6/7/2025	6/4/2024	0.5	Yes														Dry
PRIVATE	Galvanized	12"	LAKE MICHIGAN	END OF GREEN ST SOUTH SIDE OF BOAT RAMP	SM TH	6/7/2024	6/4/2024	0.5	Yes														DRY
PRIVATE	Galvanized	24"	LAKE MICHIGAN	North of Green St boat landing, East of School, RR tracks under shed to beach	SM TH	6/7/2024	6/4/2024	0.5	Yes		None												DRY
SC3-OUT5	Concrete	60"	SILVER CREEK	I-43, EAST OF MENARDS	SM TH	6/7/2024	6/4/2024	0.5	Yes	Slow (<2 ft/s)	Clear	None	None	6	Yes	No	8.12	0	0.25	0	0	0	
L8-OUT1	PVC	12"	LAKE MICHIGAN	OUTFALL N END OF PARKING LOT LAKEVIEW DR	SM	6/11/2024	6/8/2024	0.08	Yes														Dry
L4-OUT1	ABS Plastic	12"	LAKE MICHIGAN	DRAINS 1ST SET OF CBS S OF SEW PLANT LAKEVIEW DR	SM	6/11/2024	6/8/2024	0.08	Yes	Slow (<2 ft/s)	Clear	None	None	2	No	No	7.4	0	0.25	0	0	0	
PRIVATE	Concrete	21"	LAKE MICHIGAN	2ND OUTFALL S OF SEWAGE PLANT	SM	6/11/2024	6/8/2024	0.08	Yes	Slow (<2 ft/s)	Brown	None	None	10	Yes	Yes	7.53	0	0.25	0	0	0	
L2-OUT4	Concrete	24"	LAKE MICHIGAN	WALDO EXTENDED 100' S OF MANITOWOC SIGN	SM TH	7/1/2024	6/28/2024	0.25	Yes	Slow (<2 ft/s)	Green	None	None	24	Yes	No							
L10-OUT1	Galvanized	24"	LAKE MICHIGAN	MADISON ST EXTENDED	SM TH	7/1/2024	6/28/2024	0.25	Yes	Slow (<2 ft/s)	Clear	None	None	8	No	No	7.15	0	0.25	0	0		
R31-OUT7	Galvanized	48"	MANITOWOC RIVER	S SIDE OF WALDO BLVD, E OF GLENVIEW DRIVE, REFORMED CHURCH PROPERTY	SM TH	7/1/2024	6/28/2024	0.25	Yes	Moderate (2-5 ft/s)	Clear	None	Suds	1	No	No	7.68	0	0.25	0	0	0	ELLIPTICAL
R31-OUT14	Galvanized	48"	MANITOWOC RIVER	WALK UP GREENWAY FROM R31-OUT12	SM TH	7/1/2024	6/28/2024	0.25	Yes	Slow (<2 ft/s)	Clear	None	None	8	No	No	7.77	0	0.75	0	0	0	
PRIVATE	PVC	18"	LAKE MICHIGAN	MPU power plant	SM TH	7/1/2024	6/28/2024	0.25	Yes	Fast (>5 ft/s)	Clear	None	None	24	Yes	No	7.9	0	0	0	0	0	
PRIVATE	PVC	15"	LAKE MICHIGAN	MPU power plant	SM TH	7/1/2024	6/28/2024	0.25	Yes	Fast (>5 ft/s)	Clear	None	None	24	Yes	No	7.9	0	0	0	0	0	
PRIVATE	PVC	15"	LAKE MICHIGAN	MPU power plant	SM TH	7/1/2024	6/28/2024	0.25	Yes	Fast (>5 ft/s)	Clear	None	None	24	Yes	No	7.9	0	0	0	0	0	
PRIVATE	Unknown	12"	LAKE MICHIGAN	MPU power plant	SM TH	7/1/2024	6/28/2024	0.25	Yes	Slow (<2 ft/s)	Clear	Rancid/Sour	None	2	No	No	7.49	0	0.25	0	0	0	
R30-OUT2	Concrete	60"	MANITOWOC RIVER	CLAY PIT ROAD POND OUTFLOW	SM TH	7/12/2024	7/16/2024	0.5	Yes	Slow (<2 ft/s)	Clear	None	None	1	No	No	7.37	0	0.25		0.4	0	
L14-OUT1	Concrete	102"	LAKE MICHIGAN	RED ARROW PARK BOX CULVERT	SM TH	7/15/2024	7/14/2024	0.23	Yes	Fast (>5 ft/s)	Clear	None	None	2	No	No	7.9	0	0.25	0	0.1	0	
L22-OUT1	Concrete	24"	LAKE MICHIGAN	VEIBAHN ST E OF COLLEGE AVE SOUTH SIDE OF STREET	SM TH	7/15/2024	7/14/2024	0.23	Yes	Slow (<2 ft/s)	None	None	None	0.25	No	No	7.76	0	0.25	0	0.1	0	
SC2-OUT1	Concrete	38"	SILVER CREEK	S SIDE OF VIEBAHN STREET, EAST OF 14TH STREET	SM TH	7/15/2024	7/14/2024	0.23	Yes	Slow (<2 ft/s)	Clear	None	Suds	4	No	No		0	0	0	0.1	0	

Outfall ID	Material	Size	Watershed	Outfall Location	Inspectors	Inspection Date	Date of Last Rainfall	Rainfall Amount (Inches)	Pipe/Outfall Active	Flow Rate	Color	Order	Floatables	Water Level (Inches)	Turbidity	Surface Sheen	pH	Chlorine	Detergent	Copper	Phenols	Ammonia	Remarks
PRIVATE	Concrete	60"	LAKE MICHIGAN	WALMART STORMWATER POND OUTFALL PIPE	SM TH	7/17/2024	7/16/2024	0.5	Yes	Moderate (2-5 ft/s)	Clear	None	None	2	No	No	7.42	0	0.5	0	0.1	0	
SC3-OUT4	Concrete	60"	SILVER CREEK	S 44th St, in box Culvert	SM TH	7/17/2024	7/16/2024	0.5	Yes		Brown	None	None	14	Yes	No							
R46-OUT5	Concrete	42"	MANITOWOC RIVER	VISTA ROAD, NE OF WILLOW WAY, WEST MOST PIPE	SM TH	7/18/2024	7/16/2024	0.5	Yes		Brown	None	None	10	Yes	No							
R46-OUT4	Concrete	36"	MANITOWOC RIVER	VISTA ROAD, NE OF WILLOW WAY, EAST MOST PIPE	SM TH	7/18/2024	7/16/2024	0.5	Yes		Brown	None	None	10	Yes	No							
R46-OUT7	Concrete	30"	MANITOWOC RIVER	N SIDE OF WEST CUSTER ST BETWEEN 5740 (MPU) AND 5812	SM TH	7/18/2024	7/16/2024	0.5	Yes		Clear	None	None	4	No	No							
SC7-OUT1	Concrete	27"	SILVER CREEK	Fessler Pond, NE corner	SM TH	7/18/2024	7/16/2024	0.5	Yes		Green	None	None	0.25	Yes	No							
R44-OUT1	Concrete	48"	MANITOWOC RIVER	BACK OF RADANDT'S POND. EAST OF HWY R	SM TH	7/19/2024	7/16/2024	0.5	Yes		Brown	None	None	24	No	No							
R41-OUT1	Concrete	24"	MANITOWOC RIVER	NW CORNER OF BROADWAY ST BRIDGE	SM TH	7/19/2024	7/16/2024	0.5	Yes		Brown	None	None	5	Yes	No							
R39-OUT1	Concrete	30"	MANITOWOC RIVER	END OF CONROE STREET EXTENDED	SM TH	7/19/2024	7/16/2024	0.5	Yes		Brown	None	None	0.25	Yes	No							
R32-OUT1	Concrete	15"	MANITOWOC RIVER	S. 29TH & LINDBURGH EMPTIES ALONG RR TRACKS	SM TH	7/19/2024	7/16/2024	0.5	Yes		Brown	None	None	1	No	No							
R28-OUT1	Concrete	24"	MANITOWOC RIVER	CLAY PIT RD	SM TH	7/19/2024	7/16/2024	0.5	Yes		Green	None	None	6	Yes	No							
R26-OUT1	Concrete	42"	MANITOWOC RIVER	SW SIDE OF 21ST ST BRIDGE	SM TH	7/19/2024	7/16/2024	0.5	Yes		Brown	None	None		Yes	No							
R23-OUT1	Concrete	18"	MANITOWOC RIVER	W OF 21ST ST BRIDGE	SM TH	7/26/2024	7/24/2024	0.37	Yes		Brown	None	None	2	No	No							Pipe detached
R22-OUT1	Concrete	60"	MANITOWOC RIVER	BY LIFT STATION AT THE END OF S 19TH ST	SM TH	7/26/2024	7/24/2024	0.37	Yes		Brown	None	None	9	Yes	No							
R24-OUT1	Concrete	20"	MANITOWOC RIVER	BY LIFT STATION AT THE END OF S 19TH ST	SM TH	7/26/2024	7/24/2024	0.37	Yes		Brown	None	None		Yes	No							
LR17-OUT14	Concrete	24"	LITTLE MANITOWOC RIVER	W SIDE OF N RAPIDS RD INTO DITCH S OF VINTON	SM TH	7/26/2024	7/24/2024	0.37	Yes		Clear	None	None	10	No	No							HE RCP
R29-OUT15	Concrete	72"	MANITOWOC RIVER	SOUTH SIDE OF WALDO BLVD, JUST EAST OF N 23RD STREET	SM TH	8/1/2024	7/29/2024	0.04	Yes	Fast (>5 ft/s)	Clear	None	None	1	No	No	7.6	0.1	0	0	0	0	NEW BUILT IN 2020
LR15-OUT1	Concrete	42"	LITTLE MANITOWOC RIVER	E SIDE OF N 18TH ST - N OF NAGLE AVE	SM TH	8/1/2024	7/29/2024	0.04	Yes	Slow (<2 ft/s)	Clear	None	None	0.25	No	No	7.55	0	0.25	0	0.1	0	
R63-OUT1	Galvanized	36"	MANITOWOC RIVER	SYLVAN DR TO THE S	SM TH	8/7/2024	8/6/2024	1.24	Yes	Fast (>5 ft/s)	Clear	None	None	2	No	No	7.63	0.3	0	0	0	0	MPU was flushing a hydrant nearby on Taran Ct. causing chlorine to be high.
R29-OUT1	Galvanized	72"	MANITOWOC RIVER	PIPE FROM BOX CULVERT AT 24TH & MICHIGAN	SM TH	8/7/2024	8/6/2024	1.24	Yes	Fast (>5 ft/s)	Clear	None	None	1	No	No	7.78	0	0	0	0	0	

Outfall ID	Material	Size	Watershed	Outfall Location	Inspectors	Inspection Date	Date of Last Rainfall	Rainfall Amount (Inches)	Pipe/Outfall Active	Flow Rate	Color	Order	Floatables	Water Level (Inches)	Turbidity	Surface Sheen	pH	Chlorine	Detergent	Copper	Phenols	Ammonia	Remarks
R20-OUT1	Concrete	18"	LITTLE MANITOWOC RIVER	END OF S 16TH ST TO E BY ROCK PILE	SM TH	8/9/2024	8/6/2024	1.24	Yes	Slow (<2 ft/s)	Clear	None	None		No	No	7.65	0	0.25	0	0.1	0	STEEL
R33-OUT1	Galvanized	36"	MANITOWOC RIVER	S OF MICH AVE E OF INDIAN BLUFFS RD INTO RAHR FARM	SM TH	8/9/2024	8/6/2024	1.24	Yes		None	None	Petroleum	0		No							
PRIVATE	PVC	24"	MANITOWOC RIVER	Mich Ave snow dump SW of Cemetery-RR tracks to river	SM TH	8/9/2024	8/6/2024	1.24	Yes		Brown	None	None			No							
LR21-OUT1	Concrete	48"	LITTLE MANITOWOC RIVER	S SIDE OF ALBERT DRIVE, WEST OF GERI LANE	SM TH	8/9/2024	8/6/2024	1.24	Yes		None	None	None	0		No							
LR11-OUT1	Concrete	15"	LITTLE MANITOWOC RIVER	N 8th St, east side, North of abandon tracks, s of substation	SM TH	8/9/2024	8/6/2024	1.24	Yes		Clear	None	None	0.25	No	No							Lots of plants growing out of outfall. Hard to find.
LR11-OUT2	Concrete	18"	LITTLE MANITOWOC RIVER	N 8th st, East side, S of abandon RR track, 18" conc	SM TH	8/9/2024	8/6/2024	1.24	Yes		None	None	None	0		No							Plant overgrowth around outfall.
LR10-OUT1	Concrete	24"	LITTLE MANITOWOC RIVER	N of Magnolia at N 6th St, 24" conc	SM TH	8/9/2024	8/6/2024	1.24	Yes	Slow (<2 ft/s)	Clear	None	None	0.25	No	No	7.95	0	0.25	0	0	0	
LR7-OUT1	Unknown	24"	LITTLE MANITOWOC RIVER	S SIDE REED AVE AT LM RIVER, W CMP, E OF RIVER	SM TH	8/9/2024	8/6/2024	1.24	Yes		Green	None	None	1	No	No							
LR8-OUT1	Concrete	24"	LITTLE MANITOWOC RIVER	SW CORNER OF REED AVE BRIDGE	SM TH	8/9/2024	8/6/2024	1.24	Yes		Green	None	None	12	Yes	No							
LR7-OUT1	Galvanized	48"	LITTLE MANITOWOC RIVER	S SIDE REED AVE AT LM RIVER, W CMP, E OF RIVER	SM TH	8/9/2024	8/6/2024	1.24	Yes		Green	None	None	12	Yes	No							
L29-OUT1	Concrete	36"	LAKE MICHIGAN	MEMORIAL DR - N OF SPRUCE DR (NW SIDE OF ROAD)	SM TH	8/9/2024	8/6/2024	1.24	Yes	Slow (<2 ft/s)	Green	None	None	1	No	No	7.7	0	0.25	0	0.1	0	Completely grown over by surrounding plants. Hard to find.
L40-OUT1	Concrete	24"	LAKE MICHIGAN	MARITIME/WALDO BLVD ROUNDABOUT NORTH LEG	SM TH	8/9/2024	8/6/2024	1.24	Yes		None	None	None	0		No							
L41-OUT1	Concrete	24"	LAKE MICHIGAN	MARITIME/WALDO BLVD ROUNDABOUT SOUTH LEG	SM TH	8/9/2024	8/6/2024	1.24	Yes		Green	None	None		Yes	No							Outfall submerged or buried
L31-OUT1	PVC	12"	LAKE MICHIGAN	S OF THE BUS SHELTER ON MARITIME DR	SM TH	8/9/2024	8/6/2024	1.24	Yes		None	None	None	0		No							Dry
PRIVATE	Galvanized	18"	LITTLE MANITOWOC RIVER	south of Waldo, East of LMR, East of Trail, west of parking lot	SM TH	8/9/2024	8/6/2024	1.24	Yes	Moderate (2-5 ft/s)	Clear	None	None	0.25	No	No	7.64	0	0.25	0	0.1	0	
LR28-OUT1	Unknown	24"	LITTLE MANITOWOC RIVER	EB WALDO BLVD ST NE OF RIVER CT LEFT BASIN INTO POND	SM TH	8/9/2024	8/6/2024	1.24	Yes		None	None	None	0	No	No							
LR28-OUT1	Unknown	72"	LITTLE MANITOWOC RIVER	EB WALDO BLVD ST NE OF RIVER CT LEFT BASIN INTO POND	SM TH	8/9/2024	8/6/2024	1.24	Yes	Slow (<2 ft/s)	Clear	None	None	0.5	No	No	7.9	0	0	0	0.1	0	
L13-OUT1	Galvanized	30"	LAKE MICHIGAN	SOUTH OF YACHT CLUB PARKING LOT	SM TH	8/9/2024	8/6/2024	1.24	Yes		Clear	None	None	3	No	No							
L9-OUT3	PVC	12"	LAKE MICHIGAN	OUTLET N OF PARKING LOT BY BLUE RAIL	SM TH	8/9/2024	8/6/2024	1.24	Yes			None	None	0		No							
L9-OUT1	Concrete	36"	LAKE MICHIGAN	S SIDE OF N SIDE PIER BY THE BLUE RAILING INTO MARINA	SM TH	8/9/2024	8/6/2024	1.24	Yes		Clear	None	None	30	No	Yes							

Outfall ID	Material	Size	Watershed	Outfall Location	Inspectors	Inspection Date	Date of Last Rainfall	Rainfall Amount (Inches)	Pipe/Outfall Active	Flow Rate	Color	Order	Floatables	Water Level (Inches)	Turbidity	Surface Sheen	pH	Chlorine	Detergent	Copper	Phenols	Ammonia	Remarks
L7-OUT1	Concrete	12"	LAKE MICHIGAN	MARINA PARKING LOT S OF C DOCK	SM TH	8/9/2024	8/6/2024	1.24	Yes		Green	None	None		Yes	No							
L5-OUT1	Concrete	12"	LAKE MICHIGAN	MARINA PARKING LOT BETWEEN A AND B DOCKS	SM TH	8/9/2024	8/6/2024	1.24	Yes		Green	None	None		Yes	No							
L1-OUT1	Concrete	36"	LAKE MICHIGAN	IN CONC WALL - S OF MARINA - N OF YMCA BEACH	SM TH	8/9/2024	8/6/2024	1.24	Yes		Green	None	None		Yes	No							
LR17-OUT6	Concrete	42"	LITTLE MANITOWOC RIVER	MENASHA AVE, SE OF KNUELL STREET, N SIDE OF ROAD (NW PIPE)	SM TH	8/12/2024	8/6/2024	1.24	Yes		Clear	None	None	15	No	No							Top of pipe cracked.
R15-OUT1	Concrete	24"	MANITOWOC RIVER	STATE ST EXTENDED BEHIND WHEELERS	SM TH	8/12/2024	7/30/2024	1.24	Yes		None	None	None	0		No							Dry
R3-OUT1	Concrete	27"	MANITOWOC RIVER	N. 6TH ST EXTENDED	SM TH	8/12/2024	8/6/2024	1.24	Yes		Brown	None	None	10	Yes	No							
R5-OUT1	Galvanized	20"	MANITOWOC RIVER	N 7TH ST EXTENDED	SM TH	8/12/2024	8/6/2024	1.24	Yes		None	None	None			No							
R7-OUT1	Concrete	30"	MANITOWOC RIVER	EAST OF N 8TH ST BRIDGE N SIDE OF RIVER	SM TH	8/12/2024	8/6/2024	1.24	Yes		None	None	None	0		No							Dry
R9-OUT1	Concrete	30"	MANITOWOC RIVER	MCMULLEN & PITZ PROPERTY	SM TH	8/12/2024	8/6/2024	1.24	Yes		Brown	None	None	24	Yes	No							
R11-OUT1	Concrete	30"	MANITOWOC RIVER	N 10TH ST BRIDGE	SM TH	8/12/2024	8/6/2024	1.24	Yes		Brown	None	None		Yes	No							
R12-OUT1	Concrete	30"	MANITOWOC RIVER	S 10TH ST SE CORNER OF BRIDGE PIETROSKE BLDG	SM TH	8/16/2024	8/16/2024	0.12	Yes		Brown	None	None	6	Yes	No							
R10-OUT1	PVC	18"	MANITOWOC RIVER	S 9TH ST EXTENDED CITY PARKING LOT	SM TH	8/16/2024	8/16/2024	0.12	Yes		Clear	None	None		No	No							Manhole has wrong cover, gasket is loose, and infiltration inside.
R6-OUT1	Concrete	30"	MANITOWOC RIVER	SE CORNER OF 8TH ST BRIDGE	SM TH	8/16/2024	8/16/2024	0.12	Yes		None	None	None	0		No							Dry. Pipe cracked on outside of sea wall.
R4-OUT1	Galvanized	42"	MANITOWOC RIVER	S 6TH ST EXTENDED WEST OF BUDWEISER SILOS	SM TH	8/16/2024	8/16/2024	0.12	Yes	Slow (<2 ft/s)	Brown	None	None		Yes	No	7.65	0	0	0	0.1	0	
L2-OUT1	Concrete	24"	LAKE MICHIGAN	North of Coal pile on Quay Street(to river)	SM TH	8/23/2024	8/16/2024	0.12	Yes		Brown	None	None		Yes	No							
L2-OUT2	Concrete	18"	LAKE MICHIGAN	Carferry parking lot East of Building, 18"	SM TH	8/23/2024	8/16/2024	0.12	Yes		Green	None	None	8	Yes	No							
LR6-OUT1	Galvanized	18"	LITTLE MANITOWOC RIVER	50' N OF ZOO FENCE	SM TH	8/23/2024	8/16/2024	0.12	Yes	Slow (<2 ft/s)	Clear	None	None	0.25	No	No	7.6	0	0.25	0	0.4	0	Pipe is corroded.
LR1-OUT1	Galvanized	48"	LITTLE MANITOWOC RIVER	FENWAY TERR EXTENDED TO THE EAST	SM TH	8/23/2024	8/16/2024	0.12	Yes		Brown	None	None		Yes	No							Couldn't reach outfall so we popped manhole.
R55-OUT2	Concrete	54"	MANITOWOC RIVER	W OF R 1414 RAPIDS RD	SM TH	8/23/2024	8/16/2024	0.12	Yes	Moderate (2-5 ft/s)	Clear	None	None	40	No	No	7.85	0	0.25	0	0	0	Water is foggy.
SC5-OUT1	Concrete	30"	SILVER CREEK	S of W Custer across from 6312 W Custer	SM TH	8/23/2024	8/16/2024	0.12	Yes		None	None	None	0		No							Dry.

Outfall ID	Material	Size	Watershed	Outfall Location	Inspectors	Inspection Date	Date of Last Rainfall	Rainfall Amount (Inches)	Pipe/Outfall Active	Flow Rate	Color	Order	Floatables	Water Level (Inches)	Turbidity	Surface Sheen	pH	Chlorine	Detergent	Copper	Phenols	Ammonia	Remarks
R46-OUT2	Concrete	30"	MANITOWOC RIVER	CUSTER STREET INTO EAST SIDE OF CULVERT, WEST OF VISTA ROAD	SM TH	8/23/2024	8/16/2024	0.12	Yes	Fast (>5 ft/s)	Clear	None	Suds	0.25	No	No	7.7	0	0.25	0	0.1	0	
LR12-OUT2	Concrete	36"	LITTLE MANITOWOC RIVER	RADANDT DRIVE	SM TH	8/23/2024	8/16/2024	0.12	Yes		None	None	None	0	No	No							Dry.
R19-OUT1	Concrete	24"	MANITOWOC RIVER	EAST OF CONSUMERS LOT	SM TH	8/23/2024	8/16/2024	0.12	Yes		Green	None	None	12	Yes	No							
R47-OUT1	Concrete	54"	MANITOWOC RIVER	EAST OF OLD BRIDGE-MILL RD	SM TH	8/23/2024	8/16/2024	0.12	Yes	Slow (<2 ft/s)	Clear	None	None	0.25	No	No	7.73	0	0.25	0	0.1	0	
SL1-999	Unknown	42"	SILVER LAKE	SILVERIDGE DR POND OUTFALL	SM TH	8/23/2024	8/16/2024	0.12	Yes	Fast (>5 ft/s)	Clear	None	None	0.5	No	No	7.63	0.1	0	0	0.2	0	High chlorine and phenols could be due to irrigation in the area.
R21-OUT1	Concrete	42"	MANITOWOC RIVER	BEHIND CEMENT CO. BY RR TRESTLE	SM TH	8/23/2024	8/16/2024	0.12	Yes		Brown	None	None		Yes	No							

Attachment D

2024 Construction Site Permits							
No.	Permit	Owner	Location	On-Site SWM	Agreement	Last Inspected	Notes
1	24-1	Wisconsin Public Service	Viebahn Street	No	No	Closed	Gas Install
2	24-2	Dvorak Mini Storage	1821 Johnston	No	No	Closed	New Building Construction
3	24-3	Wisconsin Public Service	Franklin Street	No	No	12/3/2024	Gas Install
4	24-4	Manitowoc Tool & Manufacturing	6001 Vits Drive	Yes	Yes	Under Construction	Building Addition
5	24-5	Brad Lighthall - Hamilton Mini Storage	Hamilton Street	No	No	Closed	New Building Construction
6	24-6	Wisconsin Public Service	1103 Chicago Street	Yes	No	Closed	Gas Install
7	24-7	Wisconsin Public Service	1000 River Point Drive	No	No	Closed	Gas Install
8	24-8	Wisconsin Public Service	River Point Phase 2	No	No	Closed	Gas Install
9	24-9	Hampton Inn	S. 44th Street	Yes	Yes	Under Construction	New Building Construction
10	24-10	Seehafer	4009 Viebahn Street	Yes	Yes	Under Construction	Building Addition
11	24-11	Wisconsin Public Service	Popp Subdivision	No	No	Closed	New Subdivision
12	24-12	MPU Wastewater Lagoons	Michigan Avenue	No	No	Closed	Concrete Pad Area
13	24-13	Best Enterprises LLC	Old Mall Property	No	No	Under Construction	Building Demo/New Development
14	24-14	Westfield Bar	1716 Western Avenue	No	No	Closed	Parking Lot
21	24-15	Gerald Knox - Putter Course	1222 S. Alverno Road	No	No	Under Construction	Mini Golf Course
22	DNR-1	City of Manitowoc	Franklin Street	No	No	8/13/2024	FIN # 91951 - Closed
23	DNR-2	City of Manitowoc	Popp Subdivision	No	No	10/1/2024	fin # 92995 - Closed
24							
25							
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Attachment E

Storm water BMP Facilities

Wet Ponds

Facility ID	Name/Location	Inspection Year	Notes	Action Taken
95-01	Dufek Drive Pond	2024	Annual herbicide of invasive and woody vegetation	Performed yearly inspection (11/15/24). McMahon Spot Herbicide & Professional assessment. Trapper Dan inspected & trapped muskrats.
04-02	Vits Drive Pond	2024	Annual herbicide of invasive and woody vegetation	Performed yearly inspection (11/15/24). McMahon Spot Herbicide & Professional assessment. Trapper Dan inspected & trapped muskrats.
07-07	Fessler Drive Pond	2024	Annual herbicide of invasive and woody vegetation	Performed yearly inspection (11/15/24). McMahon Spot Herbicide & Professional assessment. Trapper Dan inspected & trapped muskrats.
09-01	N Rapids Road Pond	2024	Annual herbicide of invasive and woody vegetation	Performed yearly inspection (11/15/24). McMahon Spot Herbicide & Professional assessment. Trapper Dan inspected & trapped muskrats.
09-02	Clay Pit Road Pond	2024	Annual herbicide of invasive and woody vegetation	Performed yearly inspection (11/15/24). McMahon Spot Herbicide & Professional assessment. Trapper Dan inspected & trapped muskrats.
09-03	S 30th Street Pond	2024	Prairie management with prescribed burns as needed	Performed yearly inspection (11/18/24). McMahon Spot Herbicide & Professional assessment. Trapper Dan inspected & trapped muskrats.
10-01	S 10th Street Pond	2024	Prairie management with prescribed burns as needed Outfall needs to be modified to reduce clogging	Performed yearly inspection (11/18/24). McMahon Spot Herbicide & Professional assessment. Trapper Dan inspected & trapped muskrats.
10-02	S 41st Street Pond	2024	Annual herbicide of invasive and woody vegetation	Performed yearly inspection (11/15/24). McMahon Spot Herbicide & Professional assessment. Trapper Dan inspected & trapped muskrats.
13-01	Dewey Street Pond	2024	Prairie management with prescribed burn as needed	Performed yearly inspection (11/18/24). McMahon Spot Herbicide & Professional assessment. Trapper Dan inspected & trapped muskrats.
04-03	Deerbrook Ln	2024	Council approved the City to maintain the private pond maintenance.	Performed yearly inspection (11/15/24). McMahon Spot Herbicide & Professional assessment. Trapper Dan inspected & trapped muskrats.
04-04	Homestead Ln	2024	Council approved the City to maintain the private pond maintenance.	Performed yearly inspection (11/15/24). McMahon Spot Herbicide & Professional assessment. Trapper Dan inspected & trapped muskrats.
07-05	Wild Oak Drive Pond	2024	Council approved the City to maintain the private pond maintenance.	Performed yearly inspection (11/15/24). Trapper Dan inspected & trapped muskrats.
06-02	Albert Drive Pond	2024	Prairie management with prescribed burns as needed	Performed yearly inspection (11/15/24). Trapper Dan inspected & trapped muskrats.
07-04	Wild Oak Drive Pond	2024		Performed yearly inspection (11/15/24). Trapper Dan inspected & trapped muskrats.

Infiltration Basins

Facility ID	Name/Location	Inspection Year	Notes	Action Taken
09-06	Senior Center east and west basin	2024	Buildings & Grounds and/or Parks dept. pulls the weeds, as needed	McMahon Spot Herbicide & Professional assessment
13-05	Red Arrow Park	2024	Infiltration basin and sand dunes	McMahon Spot Herbicide & Professional assessment
17-06	Blue Rail Infiltration basin	2024	Native plants with wood chips	McMahon Spot Herbicide & Professional assessment

Proprietary Devices

Facility ID	Name/Location	Inspection Year	Notes	Action Taken
08-05	Packer Lane CDS	2024	Annual inspection/cleaning done by DPW	Completed - 6/24/24
17-07	Blue Rail CDS	2024	Annual inspection/cleaning done by DPW	Water level too high to clean out - 6/24/24
11-01	DPW Nutrient separator	2024	Annual inspection/cleaning done by DPW	Completed - 6/24/24

Tree Cells

Facility ID	Name/Location	Inspection Year	Notes	Action Taken
21-07	River point Tree Cells	2024	Annual inspection/cleaning done by DPW	Sumps cleaned out in spring

Attachment F

2024 Pollution Prevention

The City of Manitowoc completed their Pollution Prevention Program and individual Storm Water Pollution Prevention Plans for the Department of Public Works Service Building and Parks Maintenance Facility in October of 2008. The SWPPP's were revised in April 2015 by AECOM and again in 2020 by the City of Manitowoc. Another revision was completed in 2023 by Strand Associates (plans can be found at: http://www.manitowoc.org/stormwater/pollution_prevention). The City implemented these programs in April 2009. Therefore, the following is a summary of the recommendations and measureable goals for these programs in 2024.

Section 1.0 - Municipal Storm Water Facilities Inspection and Maintenance Measureable Goals

1. Inspect all city owned wet detention facilities 2 times per year.

The City has a total of 9 wet detention ponds, 4 infiltration basins, 3 tree cells and 3 Proprietary devices.

****MEASUREABLE GOAL**:** Each City-owned detention pond or infiltration basin was inspected multiple times by city staff in 2024. All 9 ponds have been inspected by an ecologist hired by the city for prairie Management and invasive species. The City trapper also visits all 9 ponds regularly and he has performed an inspection of each pond.

See the City of Manitowoc Facility Maintenance Program for details

2. Implement catch basin inspection and cleaning program by 2009. Quantify number of catch basins cleaned and amount of debris removed.

****MEASUREABLE GOAL**:** 715 Catch Basins and/or Catch Basin Manholes were inspected and/or cleaned

****MEASUREABLE GOAL**:** 81 CY of Material Removed from Catch Basins based on 121.38 tons of Material Removed.

3. Document the linear footage of ditches maintained and linear footage of storm sewers cleaned based on data collected.

The City maintains and cleans ditches and storm sewer on an as needed bases, mostly due to obstructions. The City also televises storm sewer on regular basis.

****MEASURABLE GOAL**:** 108,375 feet of Ditches Maintained

****MEASURABLE GOAL**:** 31,226 feet of Storm Sewer was Televised in 2024

Section 2.0 - Street Sweeping and Catch Basin Cleaning Measurable Goals

Street Sweeping :

1. Purchase two (2) high efficiency street sweepers

DONE: The City purchased a new high-efficiency vacuum sweeper (Elgin Whirlwind) in spring of 2023 to replace a sweeper purchased in 2008

2. Implement parking controls to be effective in April 2009

DONE: The City implemented a street sweeping parking ban effective April 21, 2009. In 2015 the city extended the parking ban to aid in Fall leaf pick up.

The City actively enforced the street sweeping parking ban in 2024.

****MEASUREABLE GOAL**:** A total of 2,848 parking tickets were issued and over 4,015 parking violation warnings were handed out.

3. Implement new street sweeper routes based on parking control plan

DONE: The City developed street sweeper districts in coordination with the implementation of the parking ban, five (5) districts on the north side and five (5) on the south side.

4. Continue current street sweeping frequency and document miles swept and amount of debris removed.

****MEASUREABLE GOAL**:** The entire City is swept on a weekly basis from April 1 to December 2nd, conditions permitting.

****MEASUREABLE GOAL**:** 8,231 miles of street was swept by the sweepers

****MEASUREABLE GOAL**:** 669.59 tons of material was removed by the sweepers

Catch Basin Cleaning:

1. Add future catch basins to mapping

****MEASUREABLE GOAL**:** 6 new catch basins have been added to our mapping in 2024.

2. Implement catch basin cleaning program - document number of catch basins cleaned and amount of material removed.

Repeated from above:

****MEASUREABLE GOAL**:** 715 Catch Basins and/or Catch Basin Manholes were inspected and/or cleaned. Estimated 6350 inlets cleaned and inspected.

****MEASUREABLE GOAL**:** 121.38 tons of Material Removed from Catch Basins

NOTE: As part of new and reconstruction projects, the City is replacing existing inlets with catch basins when feasible.

Section 3.0 - Street Sweeping and Catch Basin Cleaning Disposal

1. Initiate disposal of street sweeping and catch basin cleanings in a licensed landfill in 2009 unless alternative methods are allowable.

****MEASUREABLE GOAL**:** All material removed by the street sweepers in 2024 was hauled to Waste Managements, Ridgeview Landfill in Whitelaw, WI

2. Document amount of material removed.

****MEASUREABLE GOAL**:** 699.59 tons of material was landfilled

Section 4.0 - Road Salt Application and Snow Disposal

1. Document the amount of salt and other de-icing agents used.

****MEASUREABLE GOAL**:** 748.02 tons of salt, 7,536 gallons of brine, 0 gallons of beat juice/geo melt, 153 gallons of geo melt mixed with salt, 0 gallons of liquid dow and 60.50 tons of treated sand were used in 2024.

MONTH	SALT	BRINE	BEAT GEO	GEO SALT	LD	TS
1	257.67	946	0	153	0	60.50
2	98.82	1,490	0	0	0	0
3	125.27	875	0	0	0	0
4	22.18	202	0	0	0	0
11	25.22	0	0	0	0	0
12	217.90	4,023	0	0	0	0
TOTALS	748.02	7536	0	153	0	60.50
	TON	GAL	GAL	GAL	GAL	TON

Section 5.0 - Collection and Disposal of Leaves and Grass Clippings

The City of Manitowoc picks up leaves, garden waste and brush in the spring. Material is to be piled in the terrace and is picked up once every spring. Fall pick up of leaves is completed once per week. Piles of leaves are to be piled in the terrace until the day before pick up at which time they need to be place in the parking lane of the street. If no parking lane exists then the leaves are to remain in the terrace for pick up. The street sweeper follows the pick up crew and a mechanical sweeper is utilized to help. Parking bans have also been implemented to aid in fall leaf pick up efficiency.

1. Document the amout of leaves and other materials collected/recycled.

****MEASUREABLE GOAL**:** 10,365 cubic yards of leaves and yard waste.

****MEASUREABLE GOAL**:** 1,700 gallons of waste oil.

DPW SERVICE BUILDING STORM WATER POLLUTION PREVENTION PLAN(SWPPP) (AECOM, October 2008) (AECOM update April 2015)(City update of AECOM report in 2020) (City update of Strand Associates report in June, 2023):

Existing and Recommended Control Measures:

1. Fuel Islands - The City retrofitted the two (2) existing inlets into catch basins in the fall of 2011. Spill kits have been purchased for the fuel islands. The tanks have fuel monitoring stations in the building with alarms. The fuel islands have automatic shutoff switches and emergency shutoff on the building wall along with a fire extinguisher.
2. Outdoor Vehicle Washing Area – A nutrient separating device has been installed in 2012 to treat the outdoor washing area water.
3. Runoff Erosion – This was addressed with the installation of the nutrient separating device.
4. Outdoor Storage Piles – The outdoor aggregate storage piles have been separated. minimal runoff was noted from these piles in 2024.
5. Runoff Erosion: This was addressed with the installation of new perforated pipe in fall of 2015.
6. Waste Oil Tank – There is a 1,000-gallon, above-ground waste oil tank on the north side of the main building. The tank is double walled. The amount of waste oil is monitored by a fill indicator located in the building. An outside contractor picks up the waste oil from the tanks, as needed. There is potential that the waste oil could spill during filling and emptying the tank. Oil spill kits with absorbent socks/pads and oil dry products are available on site.
7. Quarterly Inspections – For 2024 quarterly inspections, contact Operations Division Manager, Billy Hutterer at bhutterer@manitowoc.org or (920) 686-6518.

NEWTON GRAVEL PIT STORM WATER POLLUTION PREVENTION PLAN(SWPPP) (Strand Associates, June 2023):

Existing and Recommended Control Measures:

1. Internal Materials Storage – There are no covered buildings.
2. Wastewater Treatment Pond – The pond captures contaminated and uncontaminated ground water as well as storm runoff. Pond is monitored to prevent over topping in the event of a 100-year storm.
3. Municipal Gun Ranges – The gun range berm may be a source of lead and other contaminants associated with firearms that should be monitored for leaching. No area drains onto the range berm so the likelihood of high levels of leaching is reduced. The capture and treatment of runoff is not required.
4. Material Storage Area – Materials are stored throughout the site. Loose materials could erode and run off during large rain events.
5. Container Drums – Some old container empty salt drums on site. Old drums have potential to leak over time. Drums are monitored to verify no leakage.
6. Quarterly Inspections – For 2024 quarterly inspections, contact Operations Division Manager, Billy Hutterer at bhutterer@manitowoc.org or (920) 686-6518.

PARKS MAINTENANCE FACILITY STORM WATER POLLUTION PREVENTION PLAN(SWPPP) (AECOM, October 2008) (AECOM update April 2015) (City update of AECOM report in 2020) (City update of Strand Associates report in June, 2023):

Existing and Recommended Control Measures:

1. Fuel Island -. Spill kits have been purchased for the fuel islands. The tanks are double lined and inspected annually. The fueling system has an automatic shutoff on the pump and an emergency shutoff on the tank and on the building. Oil spill kits with absorbent socks/pads and oil dry products are available on site.
2. Outdoor Wash Area- Compost Filter socks have been placed downstream of wash area. Washing is done inside when possible.
3. Outdoor stock piles – three sided bays and tarps have been placed on most of the stock piles. Concrete blocks have been ordered for the rest.
4. Snow Disposal Area – Was in compliance for the winter of 2024.
5. Police Impoundment Area – Fluids could leak from vehicles involved in accidents or seized. There are drip pans that are to be used that will catch leakage from wrecked or impounded vehicles.
6. Quarterly Inspections - For 2024 quarterly inspections, contact Parks Planner, Brock Wetenkamp at bwetenkamp@manitowoc.org or (920) 686-6519.

Section 7.0 - Municipal Application of Lawn and Garden Fertilizers

Currently the City does not apply fertilizers to areas greater than five acres.

Section 8.0 - Education of Municipal Staff

1. Include an educational component for appropriate staff relative to their area of work.
2. City staff attended multiple erosion control and storm water management training workshops and conferences in 2024 (FWWA Conference and other webinars). Also 36 City parks staff and seasonal workers watched an Excal Visual Stormwater DVD on Pollution Prevention.

Section 9.0 - Measures to reduce storm water contamination within source water protection areas.

The City of Manitowoc has contacted Manitowoc Public Utilities, and determined a well head protection plan exists with the Utilities. The City has also received coordinates of the 2 remaining wells and placed them on the GIS system.



2024 Leaf Pickup City of Manitowoc

City of Manitowoc 2024 leaf pickup Parking Ban is scheduled to begin on October 1st, 2024. Leaves are scheduled to be picked up, once a week, on your street sweeping day. The goal is to complete pickup in each section each week. Depending on weather, volume of leaves and equipment, there may be times a section is not completed. Please be patient, leaves will be picked up the following week.

Safety for residents and crews is important. Never park your vehicle over a leaf pile. If you see crews picking up leaves, please give them room. Large equipment backs up frequently, and we want everyone to be safe.

RESIDENTIAL PARKING BAN - The residential PARKING BAN will be from **6:00 a.m. to 3:00 p.m.** on the day of your pickup, which is the same day as your Street Sweeping day. Vehicles parked on the street between 6:00 a.m. and 3:00 p.m. will be ticketed. This will allow for the leaf pickup to be completed at an efficient rate. The parking ban will be in effect October 1, 2024 through November 15, 2024.

NO BRUSH OR GARDEN WASTE WILL BE PICKED UP. Residents may take brush and garden waste to the Manitowoc County compost sites or contact a private hauler. For information about the compost sites, please call 920-683-4333.

STREETS WITH A PARKING LANE - If your street has a parking lane, leaves should be placed in the parking lane of the street in front of your residence **the evening before your street sweeping day**. No leaves will be removed from the terrace (grassy area between the sidewalk and the curb). Leaves will be picked up on your street sweeping day from the parking lane only. Please do not place leaves near or over catch basins.

STREETS WITHOUT A PARKING LANE - If there is no parking lane on your street, leaves should be placed in the terrace (grassy area between sidewalk and the curb). Please place loose leaves in an open area of the terrace, **the evening before your street sweeping day**, away from trees, light poles, mailboxes or any other obstacle to assist in a safe collection and to minimize damage to equipment.

NEWS FLASH AND EMERGENCY ALERT TEXTS OR EMAILS - Sign up for News Flash and/or Emergency Alert texts or emails regarding activities in the City of Manitowoc by going to www.manitowoc.org and clicking the "Notify Me" button and follow the instructions.

For additional information, please contact the Department of Public Infrastructure - Streets and Sanitation Division on the City of Manitowoc website: www.manitowoc.org or by calling 920-686-6550 - Monday through Thursday, 7:30 a.m. to 5:00 p.m. and Friday, 7:30 a.m. to 11:30 a.m.

City Of Manitowoc – Department of Public Infrastructure

900 Quay Street, Manitowoc, WI 54220
920-686-6550 | www.manitowoc.org



City of Manitowoc Snow & Ice Control

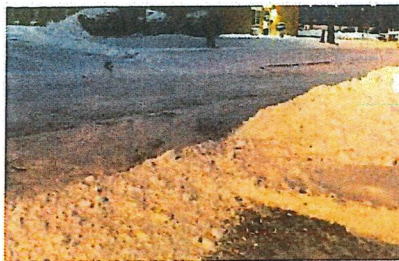


Snow and Ice Control Procedures - Streets and Sanitation Division (DPW)

- No activity between the hours of 7 PM and 4 AM. The only exception is freezing rain or glare ice areas causing extreme traffic hazard areas
- Operations Division Manager or Manager On Call will make decision for 4 AM start
- Areas that are treated are Salt Routes which include bus and truck routes, arterial streets, State Highways and County Trunks within the City's jurisdiction
- Operations Division Manager or Manager On Call will make decision to treat intersections, hills and curves on side streets after Salt Routes have been completed. Side streets are not plowed unless we are doing a general plow.
- General Plow (entire city) called by the Mayor for all city streets to be plowed and parking ban to be placed

Winter weather operations are categorized according to the type of storm and classification of the road. It is our goal to maintain the roads in a drivable condition and quickly return them to normal conditions according to the priority classifications established below.

Priority 1 Main Streets/Salt Routes (Arterials)
Clean, dry pavement in driving lanes



Priority 2 Secondary Streets (Collectors), Downtown Parking Lanes
Snow and ice hard pack

Priority 3 Low Volume Residential through Streets (Locals), Dead Ends, Cul-De-Sacs and Alleys
Snow and ice hard pack

When heavy snows are occurring during peak travel times, main streets (arterials) will be continually patrolled. Secondary streets (collectors) will be patrolled as frequently as possible. Low volume residential streets (locals) may not be plowed until the storm ends.

Salting Operations

When snowfall of less than three inches has accumulated, salt and/or plowing may be utilized. Primary roads may be completely cleared of snow and salt applied. Secondary roads will not be plowed but will have salt applied at intersections, hills and curves.

During regular working hours, the Operations Division Manager normally will be responsible for this operation and the decision to salt shall be approved by the Director of Public Infrastructure. Outside normal working hours, the Manager On Call for the Department of Public Infrastructure will be responsible for this operation and determination of action. They shall brief the Director of Public Infrastructure the following day.

General Plowing Operations

Plowing takes place when a snowfall greater than three inches has accumulated. Under any circumstance, plowing will not commence until the Director of Public Infrastructure has authorized action. If the Director is not available, then the Mayor shall determine the action. If the Mayor is not available, then the Operations Manager and/or On Call Manager shall determine action and continue to attempt to contact the Director or Mayor.

Attachment G

City of Manitowoc 2024 Budget Summary

2025 Proposed

1 Public Education/involvement					
<u>Work order #</u>	<u>P Involvement expense</u>	<u>P Education Project Management</u>			
930	\$ -	\$ 158.02			
		Total	\$ 158.02		\$ 1,000.00
2 IDD& E					
<u>Work order #</u>	<u>Expense</u>	<u>Project Management</u>			
942	\$ 104.40	\$ 8,459.36			
932	\$ -	245.79			
		Total	\$ 8,809.55		\$ 10,000.00
3 Construction Site Pollutant Control					
<u>Work order #</u>	<u>Expense</u>	<u>Project Management</u>			
933	\$ -	\$ -			
		Total	\$ -		\$ 1,000.00
4 Post Construction SWM					
<u>Work order #</u>	<u>Expense</u>	<u>Project Management</u>	<u>TIFF</u>		
920 S 41st	\$ -	\$ -			
921 S 30th	\$ -	\$ 292.50			
922 S 10th	\$ -	\$ 292.50			
923 Rapids	\$ -	\$ -			
924 Clay Pit	\$ -	\$ -			
925 Dewey	\$ 255.15	\$ 400.00			
927 Dufek	\$ -	\$ -			
928 Vits	\$ -	\$ -			
929 Fessler	\$ -	\$ -			
934	\$ -	\$ -			
944	\$ -	\$ -			
1113 Blue Rail	\$ -	\$ 97.50			
1114 Red Arrow	\$ -	\$ 97.50			
1132	\$ -	\$ -			
1133	\$ -	\$ -			
1134	\$ -	\$ -	Revenue	\$ -	fee in leu
1136	\$ -	\$ -			
1135	\$ -	\$ -			
1137	\$ -	\$ -			
1138	\$ -	\$ -			
1140	\$ -	\$ -			
1141	\$ -	\$ -			
sub total	\$ 255.15	\$ 1,180.00			
		Total	\$ 1,435.15		\$ 2,500.00
5 Pollution Prevention					
<u>Description/Work</u>	<u>Expense</u>	<u>Project Management</u>			
826 C&G	\$ 3,434.72	\$ 6,446.06			
714&740SSweepin	\$ 176,403.62	\$ 125,374.78			
722,723,748&749	\$ -	\$ 25,196.86			
719	\$ 11,660.81	\$ 99,287.92			
721	\$ -	\$ -			
745	\$ -	\$ 466.26			
747	\$ -	\$ -			
935	\$ -	\$ -			
		Total	\$ 448,271.03		\$ 450,000.00

6 SWQM

<u>Work order #</u>	<u>Expense</u>	<u>Project Management</u>	
936	\$ -	\$ -	
939	\$ -	\$ 13,397.16	
946	\$ -	\$ -	
949	\$ -	\$ -	
		Total	\$ 13,397.16
			\$ 15,000.00

7 MAP

<u>Work order #</u>	<u>Expense</u>	<u>Project Management</u>	
937	\$ -	\$ -	
947	\$ -	\$ -	
		Total	\$ -
			500

8 Other

<u>Work order #</u>	<u>Expense</u>	<u>Project Management</u>	
938	\$ -	\$ 5,512.81	
1877	\$ -	\$ 32.30	
1878	\$ -	\$ 29.20	
		Total	\$ 5,574.31
			\$ 8,000.00

TOTAL	\$ 191,858.70	TOTAL	\$ 285,786.52	TOTAL BUDGET	\$ 488,000.00
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TOTAL EXPENCES	\$ 477,645.22
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Attachment H

