

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

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

Reporting Information

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

Project Name:

County: Manitowoc

Municipality: Manitowoc, City

Permit Number: S050075

Facility Number: 31424

Reporting Year: 2019

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

Required Attachments and Supplemental Information

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

Annual Report

- Review related web site and instructions for [Municipal storm water permit eReporting](#) [Exit Form]
- Complete all required fields on the annual report form and upload required attachments
- Attach the following other supporting documents as appropriate using the attachments tab above
 - Public Education and Outreach Annual Report Summary
 - Public Involvement and Participation Annual Report Summary
 - Illicit Discharge Detection and Elimination Annual Report Summary
 - Construction Site Pollution Control Annual Report Summary
 - Post-Construction Storm Water Management Annual Report Summary
 - Pollution Prevention Annual Report Summary
 - Leaf and Yard Waste Management
 - Municipal Facility (BMP) Inspection Report
 - Municipal Property SWPPP
 - Municipally Property Inspection Report
 - Winter Road Maintenance
 - Storm Sewer Map Annual Report Attachment
 - Storm Water Quality Management Annual Report Attachment
 - TMDL Attachment
 - Storm Water Consortium/Group Report

- Municipal Cooperation Attachment
- Other Annual Report Attachment

- Attach the following permit compliance documents as appropriate using the attachments tab above
 - Storm Water Management Program *(S050075-03 general permittees shall have a written storm water management program that describes in detail how the permittee intends to comply with the permit requirements for each minimum control measure. Updated programs are due to the department by March 31, 2021.)*
 - Public Education and Outreach Program
 - Public Involvement and Participation Program
 - Illicit Discharge Detection and Elimination Program
 - Construction Site Pollutant Control Program
 - Post-Construction Storm Water Management Program
 - Pollution Prevention Program
 - Municipal Storm Water Management Facility (BMP) Inventory *(S050075-03 general permittees 2.6.1 - inventory due to the department by March 31, 2021.)*
 - Municipal Storm Water Management Facility (BMP) Inspection and Maintenance Plan *(S050075-03 general permittees 2.6.2 – document due to the department by March 31, 2021.)*

- Sign and Submit form

Municipal Contact Information- Complete

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

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

Municipality Information

Name of Municipality Manitowoc, City
Facility ID # or (FIN): 31424
Updated Information: Check to update mailing address information
Mailing Address: 900 Quay Street
Mailing Address 2:
City: Manitowoc
State: Wisconsin
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: WI
Zip Code: 54220 xxxxx or xxxxx-xxxx
Phone Number: 920-686-6910 Ext: xxx-xxx-xxxx
Email: dkoski@manitowoc.org

Additional Contacts Information (Optional)

- I&E Program
- IDDE Program

Individual with responsibility for:
(Check all that apply)

- IDDE Response Procedure Manual
- Municipal-wide Water Quality Plan
- Ordinances
- Pollution Prevention Program
- Post-Construction Program
- Winter roadway maintenance

First Name:

Last Name:

Title:

Mailing Address:

Mailing Address 2:

City:

State:

Zip Code: xxxxx or xxxxx-xxxx

Phone Number: Ext: xxx-xxx-xxxx

Email:

1. Does the municipality rely on another entity to satisfy some of the permit requirements? If yes, enter entity name (government, consultant, group/organization).

Yes No

- Public Education and Outreach: Northeast Wisconsin Stormwater Consortium(NEWS)
- Public Involvement and Participation: Northeast Wisconsin Stormwater Consortium(NEWS)
- Illicit Discharge Detection and Elimination: Northeast Wisconsin Stormwater Consortium(NEWS)
- Construction Site Pollutant Control: Northeast Wisconsin Stormwater Consortium(NEWS)
- Post-Construction Storm Water Management: Northeast Wisconsin Stormwater Consortium(NEWS)
- Pollution Prevention
 - Storm Water Management Facility Inspections: _____
 - Public Works Yards and Other Municipally Owned Properties: _____
 - Street Sweeping/Cleaning Program: _____
 - Catch Basin Sump Cleaning Program: _____
 - Leaf Collection Program: _____
 - Winter Road Management: _____
 - Internal Staff Education & Communication: Northeast Wisconsin Stormwater Consortium(NEWS)
 - Storm Sewer System Map: _____

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

Do not close your work until you SAVE.

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

Form 3400-224 (08/19)

Minimum Control Measures- Section 1 : Complete

1. Public Education and Outreach

a. Complete the following information on Public Education and Outreach Activities related to storm water. Select the Mechanism that best describes how the topic message was conveyed to your population. Use the **Add Activity** to add multiple Mechanisms. For Quantity, choose the range for the number of Mechanisms chosen (i.e., number of workshops, events).

Topic: Detection and elimination of illicit discharges			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
<u>Educational activities (School presentations, summer camps, etc)</u>	<u>1 - 9</u>	<u>20 - 49</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<u>Passive print media (brochures at front desk, posters, etc.)</u>	<u>1 - 9</u>	<u>50 - 99</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<u>Active distribution of print media (mailings, newsletters, etc)</u>	<u>1 - 9</u>	<u>1 - 9</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<u>Website</u>	<u>1 - 9</u>	<u>20 - 49</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors General Public Public Employees Residential School Groups
 Business Developers Industries Other:

Topic: Management of materials that may cause storm water pollution from automobiles, pet waste, household hazardous waste and household practices			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
<u>Website</u>	<u>1 - 9</u>	<u>20 - 49</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<u>Active distribution of print media (mailings, newsletters, etc)</u>	<u>1 - 9</u>	<u>100 +</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<u>Social media posts</u>	<u>1 - 9</u>	<u>Select...</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<u>Passive print media (brochures at front desk, posters, etc.)</u>	<u>1 - 9</u>	<u>Select...</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<u>Targeted group training (contractors, consultants, etc.)</u>	<u>1 - 9</u>	<u>Select...</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors General Public Public Employees Residential School Groups
 Business Developers Industries Other:

Topic: Beneficial onsite reuse of leaves and grass clippings/proper use of lawn and garden fertilizers and pesticides

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Passive print media (brochures at front desk, posters, etc.)	1 - 9	20 - 49	<input type="radio"/> Yes <input checked="" type="radio"/> No
Website	1 - 9	Select...	<input type="radio"/> Yes <input checked="" type="radio"/> No
Social media posts	1 - 9	Select...	<input type="radio"/> Yes <input checked="" type="radio"/> No
Informational booth at event	1 - 9	Select...	<input type="radio"/> Yes <input checked="" type="radio"/> No
Active distribution of print media (mailings, newsletters, etc)	1 - 9	Select...	<input type="radio"/> Yes <input checked="" type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
 General Public
 Public Employees
 Residential
 School Groups
 Business
 Developers
 Industries
 Other:

Topic: Management of stream banks and shorelines by riparian landowners to minimize erosion and restore and enhance the ecological value of waterways

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Website	1 - 9	Select...	<input type="radio"/> Yes <input checked="" type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
 General Public
 Public Employees
 Residential
 School Groups
 Business
 Developers
 Industries
 Other:

Topic: Infiltration of residential storm water runoff from rooftop downspouts, driveways and sidewalks

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Website	1 - 9	Select...	<input type="radio"/> Yes <input checked="" type="radio"/> No
Signage	1 - 9	Select...	<input type="radio"/> Yes <input checked="" type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
 General Public
 Public Employees
 Residential
 School Groups
 Business
 Developers
 Industries
 Other:

Topic: Inform and where appropriate 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

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
<u>Direct one-on-one communication</u>	<u>1 - 9</u>	<u>Select...</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<u>Active distribution of print media (mailings, newsletters, etc)</u>	<u>50 - 99</u>	<u>Select...</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<u>Targeted group training (contractors, consultants, etc.)</u>	<u>Select...</u>	<u>Select...</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
 General Public
 Public Employees
 Residential
 School Groups
 Business
 Developers
 Industries
 Other:

Topic: Identify businesses and activities that may pose a storm water contamination concern, and where appropriate, educate specific audiences on methods of storm water pollution prevention

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
<u>Active distribution of print media (mailings, newsletters, etc)</u>	<u>1 - 9</u>	<u>Select...</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<u>Social media posts</u>	<u>1 - 9</u>	<u>Select...</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
 General Public
 Public Employees
 Residential
 School Groups
 Business
 Developers
 Industries
 Other:

Topic: Promote environmentally sensitive land development designs by developers and designers, including green infrastructure and low impact development

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
<u>Targeted group training (contractors, consultants, etc.)</u>	<u>1 - 9</u>	<u>Select...</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
 General Public
 Public Employees
 Residential
 School Groups
 Business
 Developers
 Industries
 Other:

Topic: Other (describe):

Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
<u>Select...</u>	<u>Select...</u>	<u>Select...</u>	<input type="radio"/> Yes <input type="radio"/> No

Select all applicable audiences targeted for this topic.

- Contractors
 General Public
 Public Employees
 Residential
 School Groups
 Business
 Developers
 Industries
 Other:

b. Brief Public Education and Outreach program information for inclusion in the Annual Report. If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

See the attached Public Education and Outreach section in the MS4 Program Summary and the Education and Training Summary

Missing Information

Do not close your work until you SAVE.

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

Form 3400-224 (08/19)

Minimum Control Measures - Section 2 : Complete

2. Public Involvement and Participation

a. Complete the following information on Public Education and Outreach Activities related to storm water. Select the mechanism that best describes how the topic message was conveyed to your population. Use the Add Activity to add multiple mechanisms. For Quantity, choose the range for number Mechanisms chosen (i.e., number of workshops, events).

Topic: Storm Water Management Plan and/or updates			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Government Event (Public Hearing, Council Meeting, etc)	Select...	Select...	<input type="radio"/> Yes <input checked="" type="radio"/> No
Presentation of Storm Water Information	<u>1 - 9</u>	<u>20 - 49</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable participants targeted for this topic.

- Contractors
 General Public
 Public Employees
 Residential
 School Groups
 Business
 Developers
 Industries
 Other:

Topic: Storm water related ordinance and/or updates			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
Government Event (Public Hearing, Council Meeting, etc)	Select...	Select...	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable participants targeted for this topic.

- Contractors
 General Public
 Public Employees
 Residential
 School Groups
 Business
 Developers
 Industries
 Other:

Topic: MS4 Annual Report			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
<u>Government Event (Public Hearing, Council Meeting, etc)</u>	<u>Select...</u>	<u>Select...</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<u>Presentation of Storm Water Information</u>	<u>Select...</u>	<u>Select...</u>	<input type="radio"/> Yes <input checked="" type="radio"/> No

Select all applicable participants targeted for this topic.

- Contractors
 General Public
 Public Employees
 Residential
 School Groups
 Business
 Developers
 Industries
 Other:

Topic: Volunteer Opportunities			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
<u>Clean-up events</u>	<u>Select...</u>	<u>Select...</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<u>Storm drain stenciling</u>	<u>Select...</u>	<u>Select...</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<u>Citizen Committe Meetings</u>	<u>Select...</u>	<u>Select...</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No

Select all applicable participants targeted for this topic.

- Contractors
 General Public
 Public Employees
 Residential
 School Groups
 Business
 Developers
 Industries
 Other:

Topic: Other (describe) : <input type="text"/>			
Mechanism	Quantity (optional)	Est. People Reached (optional)	Regional Effort? (optional)
<u>Select...</u>	<u>Select...</u>	<u>Select...</u>	<input type="radio"/> Yes <input type="radio"/> No

Select all applicable participants targeted for this topic .

- Contractors
 General Public
 Public Employees
 Residential
 School Groups
 Business
 Developers
 Industries
 Other:

b. Brief Public Involvement and Participation program information for inclusion in the Annual Report.

If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

See the attached Public Involvement and Participation section in the MS4 Program Summary and the Education and Training Summary

Missing Information

Do not close your work until you SAVE.

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

Form 3400-224 (09/19)

Minimum Control Measures - Section 3 : Complete

3. Illicit Discharge Detection and Elimination

- a. How many total outfalls does the municipality have? Unsure
- b. How many outfalls did the municipality evaluate as part of their routine ongoing field screening program? Unsure
- c. From the municipality's routine screening, how many were confirmed illicit discharges? Unsure
- d. How many illicit discharge complaints did the municipality receive? Unsure
- e. From the complaint received, how many were confirmed illicit discharges? Unsure
- f. How many of the identified illicit discharges did the municipality eliminate in the reporting year? Unsure

(If the sum of 3.c. and 3.e. does not equal 3.f., please explain below.)

- g. How many of the following enforcement mechanisms did the municipality use to enforce its illicit discharge ordinance? Check all that apply and enter the number of each used in the reporting year. Unsure

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

Additional Information: _____

- h. Brief Illicit Discharge Detection and Elimination program information for inclusion in the Annual Report. If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

See the Illicit Discharge Section in the MS4 Program Summary, the 2019 Illicit Discharge Summary and the Outfall Screening Results attached

Missing Information

Do not close your work until you SAVE.

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

Form 3400-224 (08/19)

Minimum Control Measures - Section 4 : Complete

4. Construction Site Pollutant Control

- a. How many total construction sites were active at any point in the reporting year? Unsure
- b. How many construction sites did the municipality issue permits for in the reporting year? Unsure
- c. Do the above numbers include sites <1 acre? Yes No Unsure
- d. How many erosion control inspections did the municipality complete in the reporting year? Unsure
- e. What types of enforcement actions does the municipality have available to compel compliance with the regulatory mechanism? Check all that apply and enter the number of each used in the reporting year. Unsure

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

- f. Brief Construction Site Pollutant Control program information for inclusion in the Annual Report. If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

See the Construction Site Pollution Control Section in the MS4 Summary and the 2019 Construction Site Permits Summary attached

Missing Information

Do not close your work until you SAVE.

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

Form 3400-224 (08/19)

Minimum Control Measures - Section 5 : Complete

5. Post-Construction Storm Water Management

- a. How many sites with new structural storm water management facilities* have received local approval? Unsure
*Engineered and constructed systems that are designed to provide storm water quality control such as wet detention ponds, constructed wetlands, infiltration basins, grassed swales, permeable pavement, catch basin sumps, etc.
- b. How many privately owned storm water Unsure

management facilities were inspected in the reporting year ?

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

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

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

d. Brief Post-Construction Storm Water Management program information for inclusion in the Annual Report . If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

See the Post Construction Storm Water Management section in the MS4 Program Summary attached

Missing Information

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

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

Form 3400-224 (08/19)

Minimum Control Measures - Section 6 : Complete

6. Pollution Prevention

Storm Water Management Facility Inspections (ponds, biofilters, etc.) Not Applicable

- a. Enter the total number of municipally owned or operated structural storm water management facilities ? Unsure
- b. How many new municipally owned storm water management facilities were installed in the reporting year ? Unsure
- c. How many municipally owned storm water management facilities were inspected in the reporting year? Unsure
- d. What elements are looked at during inspections (250 character limit)?

See attached City of Manitowoc BMP inspection forms.

e. How many of these facilities required maintenance? Unsure

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

f. How many inspections of municipal properties have been conducted in the reporting year? Unsure

g. Have amendments to the SWPPPs been made? Yes No Unsure

h. If yes, describe what changes have been made (200 character limit):

Collection Services - *Street Sweeping / Cleaning Program* Not Applicable

i. Did the municipality conduct street sweeping/cleaning during the reporting year?
 Yes No Unsure

j. If known, how many tons of material was removed? Unsure

k. Does the municipality have a low hazard exemption for this material? Yes No

l. If street cleaning is identified as a storm water best management practice in the pollutant loading analysis, was street cleaning completed at the assumed frequency?

Yes

No - Explain Streets not always completed as scheduled

Not Applicable

Collection Services - *Catch Basin Sump Cleaning Program* Not Applicable

m. Did the municipality conduct catch basin sump cleaning during the reporting year?
 Yes No Unsure

n. How many catch basin sumps were cleaned in the reporting year? Unsure

o. If known, how many tons of material was collected? Unsure

p. Does the municipality have a low hazard exemption for this material? Yes No

q. 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

No - Explain _____

Not Applicable

Collection Services - *Leaf Collection Program* Not Applicable

r. Does the municipality conduct curbside leaf collection? Yes No Unsure

s. Does the municipality notify homeowners about pickup? Yes No Unsure

Unsure

t. Where are the residents directed to store the leaves for collection?

- Pile on terrace
- Pile in street
- Bags on terrace
- Unsure
- Other - Describe Both in the terrace and in the street

u. What is the frequency of collection?

weekly

v. Is collection followed by street sweeping/cleaning?

- Yes
- No
- Unsure

Winter Road Management Not Applicable

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

w. How many lane-miles of roadway is the municipality responsible for doing snow and ice control?

13064

Unsure

x. Provide amount of de-icing products used by month last winter season?

Solids (tons) (ex. sand, or salt-sand)

Product	Oct	Nov	Dec	Jan	Feb	Mar
<u>Salt</u>	<u>0</u>	<u>101</u>	<u>24</u>	<u>877</u>	<u>936</u>	<u>90</u>
<u>Salt/sand mix</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>253</u>	<u>0</u>	<u>13,153</u>

Liquids (gallons) (ex. brine)

	Oct	Nov	Dec	Jan	Feb	Mar
<u>Brine</u>	<u>0</u>	<u>282</u>	<u>0</u>	<u>5,795</u>	<u>7,790</u>	<u>492</u>
<u>Chem-melt</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>2,448</u>	<u>843</u>	<u>176</u>

y. Was salt applying machinery calibrated in the reporting year?

- Yes
- No
- Unsure

z. Have municipal personnel attended salt reduction strategy training in the reporting year?

- Yes
- No
- Unsure

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

9 employees attended APWA Winter Maintenance Supervisor Training, 12 employees attended APWA WI Snow Plow Rodeo, 1 employee attended National APWA rodeo, 18 employees had 2 hour in house salter and plow training.

When: multiple dates

How many attended: 21

Internal (Staff) Education & Communication

aa. Has training or education been held for municipal or other personnel involved in implementing each of the pollution prevention program elements?

- Yes
- No
- Unsure

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

Parks and Cemetery workers watch the Excal storm water video.

When: multiple dates

How many attended: 10

ab. Describe how the municipality has kept the following local officials and municipal staff aware of the municipal storm water discharge permit programs and its

requirements.

Elected Officials

Elected officials review the annual report, are sent storm water press releases and review items on the agenda.

Municipal Officials

Municipal Officials review the annual report and attend MS4 team meetings.

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

City staff review the annual report, attending MS4 team meetings and are sent storm water related press releases.

- ac. Brief Pollution Prevention program information for inclusion in the Annual Report. If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

See attached Pollution Prevention Section in the MS4 Program summary and 2019 Pollution Prevention

Missing Information

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

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

Form 3400-224 (08/19)

Minimum Control Measures - Section 7 : Complete

7. Storm Sewer System Map

- a. Did the municipality update their storm sewer map this year? Yes No Unsure

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

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

- b. Brief Storm Sewer System Map information for inclusion in the Annual Report. If your response exceeds the 250 character limit, attach supplemental information on the attachments page.

see attached Mapping section in the MS4 Program summary

Missing Information

Do not close your work until you SAVE.

Form 3400-224 (08/19)

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
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Element: Public Education and Outreach

1,563	1650	1650	<u>General revenue fund</u>
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Element: Public Involvement and Participation

1,563	1650	1650	<u>General revenue fund</u>
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Element: Illicit Discharge Detection and Elimination

3,179	3,300	3,300	<u>General revenue fund</u>
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Element: Construction Site Pollutant Control

3,196	5,000	5,000	<u>Permit fee and/or deposit/escrow</u>
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Element: Post-Construction Storm Water Management

14,302	31,000	30,000	<u>General revenue fund</u>
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Element: Pollution Prevention

618,039	560,000	620,000	<u>General revenue fund</u>
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Element: Storm Water Quality Management

10,021	8,000	8,800	<u>General revenue fund</u>
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Element: Storm Sewer System Map

0	0	300	<u>General revenue fund</u>
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Other (describe)

MS4 permit/mapping

3,434

12,000

7,650

General revenue fund

Please provide a justification for a "0" entered in the Fiscal Analysis

\$0 for Storm Sewer System Map but the cost would be in Other.

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

Additional Information

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

See "Proposed Changes" at the end of City of Manitowoc MS4 Program Summary in the attachments.

Missing Information

Do not close your work until you SAVE.

Form 3400-224 (08/19)

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

Do not close your work until you SAVE.

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

 File Attachment

[2019MS4Systemmap.pdf](#)

Attach - Other Supporting Documents

AR EO

 File Attachment

[2019EducationtrainingSummary.pdf](#)

AR Other

 File Attachment

[CityofManitowoc2019MS4Programsummary.pdf](#)

AR IDDE

 File Attachment

[2019IllicitDischargeSummary.pdf](#)

AR CSPC

 File Attachment

[2019ConstructionSitePermitsummary.pdf](#)

AR IDDE

 File Attachment

[2019outfallscreeningresults.pdf](#)

AR PP

 File Attachment

[2019PollutionPrevention.pdf](#)

AR MuniFacInsp

 File Attachment

[StormwaterBMPFacilities.pdf](#)

AR BMPInspSum

 File Attachment

[BMPinspectionforms.pdf](#)

AR Other

 File Attachment

[2019budget.pdf](#)

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

Attach - Permit Compliance Documents

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

Missing Information

Draft and Share PDF Report with Municipality's Governing Body.

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 approved by the governing body, you will have to come back to the MS4 eReporting system to submit the report to the DNR.

[Draft and Share PDF Report with Municipality's Governing Body](#)

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

Sign and Submit Your Application

Steps to Complete the signature process

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

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

Terms and Conditions

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

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

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

Name:

Title:

Authorized Signature.

- I accept the above terms and conditions.

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

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Attachment A

City of Manitowoc MS4 Program 2019 Summary

Public Education and Outreach

The City of Manitowoc continues to actively implement an effective public education and outreach program that meets the expectations of the City's program.

The City is an active member of the Northeast Wisconsin Storm Water Consortium (NEWSC). The City is aware that the NEWSC annual report has been submitted to the WDNR. Activities in the NEWSC report should be credited to the City of Manitowoc. During 2019, 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 2019 so some of the educational credit component should be given to the City of Manitowoc.

The City also continues to maintain partnerships with The Wisconsin Maritime Museum, Friends of the Manitowoc River Watershed (FMRW), Lakeshore Natural Resources Partnership and Woodland Dunes Nature Center to assist in implementing the City's 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 2019, we stenciled inlets with Manitowoc Lutheran High, YMCA, and St Francis of Assisi Parish. In 2019, Lakeshore Natural Resources Partnership again hosted Lake Michigan Day in Manitowoc.

The City also did a great deal of public education on its own. The City set up a booth at the Manitowoc Public Utilities open house event. We distributed grass clipping yard signs, and Leaf pick up information to residents. 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 time's reporter, the City Face Book, 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. The city also included an informational flyer in with the tax bill containing ways to get information on snow plowing, spring cleanup, Grass Cutting and Illicit Discharges. The City purchased 200 salt wise cups, which help to educate the public about the use of salt for ice removal on sidewalk, and gave them out to local residents.

- 19 Grass clipping notices were mailed out.
- 11 storm water related press releases sent out.
- 53 storm water facility educational flyers mailed
- 170 salt Wise cups were given away

Public Involvement and Participation

The City of Manitowoc continues to implement a Public Involvement program. 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 2019 include

Public Meeting discussions

- Storm water Maintenance Agreement for Grove US LLC(Manitowoc Cranes) (Recorded)

-
- Street Sweeping Parking Ban Times
- MS4 Annual report for 2019
- Littering fines increase
- Discussion of putting fences around storm ponds
- Approval of City performing Maintenance of Storm pond on Deerbrook Lane
- Flooding issues on Dewey Street under Trestle and at 1112 N 12th St.
- Winter Parking Ban Adjustments
- Storm water Maintenance Agreement for Investors Community Bank (Recorded)
- Storm water Maintenance Agreement for Briess (Recorded)
- Storm Maintenance Agreements for Calumet LLC(not approved so that the city Attorney could review the insurance requirements and possibly increase them)

Volunteer Opportunities

- Beach clean up
- River clean up
- Storm drain stenciling
 - o 234 inlets stenciled

Illicit Discharge Detection and Elimination

The City's IDDE program includes outfall field screenings, resident complaints, other city observed issues and follow up actions. IDDE actions items for 2019 include:

- Completed a field screening of 59 outfalls
- Received and responded to 19 illicit discharge complaints
- Discovered and ordered correction of 7 property IDDE issues
- Updated the City MS4 Map with new catch basins, BMP's, outfall locations and storm sewer
- Updated the City Illicit Discharge procedures Guide in 2019
- Sent letters 18 letters to residents in regards to grass clippings being blown into the street

Construction site Pollution Control

The City'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 2019 include:

- Reviewed and issued 21 erosion control permits
- 35 construction sites and 231 documented inspections
- Numerous erosion control inspections have been completed but they have not been documented.

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

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applicants, designers, inspectors and facility owners. Post Construction Site Pollution control action items for 2019 include:

- Reviewed and issued permits to 8 construction sites for structural storm water facilities
- Drafted and recorded 2 maintenance agreements
- Sent letters with education flyer to 53 private post construction storm water facilities requesting required inspections. Received 36 of the 53 sent inspections back.
- Municipal and professional inspections of all City owned post construction storm water facilities.
- Trapper visited, inspected and trapped 9 city wet ponds

Pollution Prevention

The Cities 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 2019 include:

- Inspection of municipally owned storm water facilities
- Cleaning of 289 catch basins and some inlets
 - o This removed 57 CY assuming catch basins are 2/3 full
 - o 40 new catch basins were added in 2019
- Conducted weekly leaf collections
 - o 6,918 Cubic Yards of Leaves and brush picked up.
- Street sweeping weekly
 - o issuing 2,312 parking tickets and handing out 1,654 parking violation warnings
 - o 13,064 miles of streets was swept
 - o 1126.15 tons of sweeping material removed/landfilled
- 108,375 feet of ditches maintained
- 21,328 feet of storm sewers cleaned and televised
- Parks SWPPP inspections
- DPI SWPPP inspections
- 18 Staff attended APWA snowplow rodeo
- 1 Staff attended the National APWA snowplow rodeo in Colorado
- 10 staff watched Excal Visual Storm water Pollution Prevention DVD
- The city held two MS4 team meetings. Individuals with in the DPI who are involved with storm water duties meet once in March and again in October to discuss their storm water requirements and how they will be met.

Storm water mapping

The Cities up dated the storm water mapping on its GIS system. This included all new storm pipes, manholes, catch basin/inlets, outfalls and BMP's constructed in 2018. The 2019 construction season will be updated early in 2020. Updated mapping items include:

- Removed 787feet storm pipe and installed 1,819 feet of storm pipe
- Removed 19 inlets and installed 22 inlets
- Removed 5 storm manholes and installed 9 storm manholes
- 3 private storm ponds and 3 private infiltration basins added
- The storm drain stenciling map with 234 storm drains stenciled

Proposed Changes

The City of Manitowoc has worked aggressively to meet the MS4 obligations. The City has had two MS4 Team Meetings in 2019 where Managers and parties involved discussed and evaluated the City's storm water program. The City intends on calibrating the salting equipment this year and to construct a street sweepings containment area at the DPW yard to manage leachate.

The City is looking into and has contacted consultants to update our Storm water Quality Plan. This plan is not in the 2020 budget but will be included in 2021.

Attachment B

2019 Public Education and Involvement Activities

Date	Activity	Summary	Measurable Goals
2/6/2019	LNRP presented to Public Infrastructure on PAH ordinance		
2/7/2019	Salt wise press release	Press Release sent out informing residents on the negative effects of using too much salt and ways to reduce salt use. Also to inform the public of the free salt wise cups being given out at City Hall	1 Press Release Gave away 170 saltwise cups
3/26/2019	Sun Rise Rotary Club	Matt presented to the Sunrise Rotary Club on the City of Manitowoc's MS4 permit.	Educated 15 People
3/18/2019	Presented the 2018 MS4 report to the Council	The 2018 MS4 report was presented to the council and placed on file	13 elected officials educated
3/21/2019	Street Sweeping press release	Press Release sent out informing residents about the parking ban and the damaging effects of grass clippings in the street	1 Press Release
3/21/2019	Spring cleaned up press release	Press Release sent out informing residents about the spring clean up	1 Press Release
3/22/2019	Flooding press release	Press Release sent out informing residents that Spring Flood waters have receded	1 Press Release
3/29/2019	MS4 Press Release	Press Release sent out informing residents that the 2018 Manitowoc Municipal Separate Storm Sewer annual report is available for review and public comment	1 Press Release
4/6/2019	Healthy Watershed is a forested watershed workshop	A work shop at the Wisconsin Maritime Museum on how trees benefit a watershed put on by Friends of The Manitowoc River.	
3/25/2019 to 4/5/2019	Handed out parking ban warnings	PD handed out parking warning tickets on vehicles parked in the street during the street sweeping parking ban.	1654 warning tickets handed out
4/11/2019	Update to spring clean up Press Release	Press Release sent out informing residents on the progress of the spring clean up	1 Press Release
4/26/2019	Hazardous Waste Clean sweep for Manitowoc County	information on the Manitowoc county Hazardous Waste Clean sweep dates and times was posted on the City Face Book page	1 face book post
4/28/2019	River Clean up.	Friends of the Manitowoc River and the Green club organized a River clean up. Trash was picked up.	28 people involved
5/4/2019	Beach Clean up	Lakeshore Natural Resources Partner ship organized beach clean ups at the YMCA, Red Arrow, Blue Rail, Warm Waters and Silver Creek Park Beaches	38 people involved
5/14/2019	MLHS storm drain stenciling project	MLHS stenciled storm drains around the school. 11 students and a teacher involved.	11 students and a teacher involved 86 inlets stenciled

6/17/2019 & 6/18/2019	YMCA stenciling	YMCA groups with Barb Schmidt stenciled various inlets	107 inlets stenciled
6/28/2019	River Clean up.	Friends of the Manitowoc River organized a River clean up. Trash was picked up.	4 people involved
7/12/2019	Polycyclic aromatic hydrocarbons (PAHs) warning letters	Letters were sent to two local contractors in regards to polycyclic aromatic hydrocarbons (PAHs) and the city ban.	2 Letters sent
7/22/2019	Emergency brush pick up Press Release	Press Release sent out in regards to an Emergency brush pick up do to a storm.	1 Press Release
8/22/2019 to 12/31/2019	PAH Bulletin board	Polycyclic aromatic hydrocarbons (PAHs) bulletin board education in city hall at the engineering and parks department window.	passive educations bulletin board on PAH
9/11/2019	BMP maintenance letters sent	The city of Manitowoc sent out letters to Storm water wet pond, infiltration and other BMP owners with educational info on their BMP requesting an inspection	53 letters sent.
9/19/2019	MPU open House	Manitowoc Public utilities had an open house. Engineering and NEWSC set up a booth with storm water educational materials available for attendees.	City of Manitowoc exhibit and one NEWSC exhibit
9/19/2019	leaf pick up press release	Press release sent out informing the residents on the fall leaf pick up information	1 Press Release
9/20/2019	Polycyclic aromatic hydrocarbons (PAHs) warning letter	Letters were sent to a local contractors in regards to polycyclic aromatic hydrocarbons (PAHs) and the city ban.	1 Letter sent
10/1/2019	WDNR u-tube on leaves and water quality	The City of Manitowoc posted on City Web site and shared on social media a U-tube video provided to us by the WDNR on Leaves and water quality/algae blooms. http://links.govdelivery.com/track?type=click&id=ZWFzPTEmbXNpZD0mYX	updated Website and social media post
9/29/2019	St Francis of Assisi Storm Drain Stenciling	Parish families storm drain stenciled around the north side of town.	41 inlets stenciled
11/6/2019	Leaf pick up press release	Press release sent out informing the residents on the fall leaf pick up information	1 Press Release
12/5/2019	Manitowoc Hunting Club presentation	Matt presented to the Manitowoc Hunting Club on the City MS4 permit and responsibilities at the Manitowoc Gun Club.	40 people present
12/23/2019	Winter parking ban Press release	Press Release sent out in regards to the winter parking ban changes for the season.	1 Press Release
12/30/2019	Winter parking ban Press release	Press Release sent out to inform residents of the winter parking ban going into effect. This helps clear snow and may reduce salt use	1 Press Release

2019 year	Good Dog Good owner flyers handed out	Renew our waters Flyers were handed out for many of the dog and cat licenses sold	200 flyers distributed.
2019 year	Dpl Brush and Rakings letters	Letters sent to residents after brush and or leaf pick up to let them know material in the terrace is a violation and will not be picked up	232 letters sent
2019 year	Grass Clipping letters	The city sent letters to residents who blew grass clippings into the streets	19 letters sent
2019 year	Illicit discharge letters	The City sent out letters to residents for minor illicit discharges noticed by city personnel or do to complaints.	5 letters sent

2019 Staff Training/Discussion Activities

Date	Activity	Summary	Measurable Goals
2/25/2019	Webinar	Webinar put on by the WDNR on how to apply for a WI DNR Urban Nonpoint Source and Storm water Management Planning Grant	Matt attended
3/5/2019 & 3/6/2019	Fox Wolf Watershed conference	Fox Wolf Watershed conference was a two day conference in Green Bay on Storm water. Attendees picked from different presentations to attend and were able to interact with other professionals. The city of Manitowoc was a silver sponsor of the event.	Dan, Greg, Chad and Matt attended
3/28/2019	MS4 Team meeting	City employees meet to discuss the requirements and ways to improve our current standing	6 employees present
8/9/2019	Lake Michigan Day	Lake Michigan day is an event that brings professionals together to talk about the successes and issues of the waters of Lake Michigan.	Matt and Greg attended
10/11/2019	MS4 Team meeting	City employees meet to discuss the requirements and ways to improve our current standing	5 employees present
11/14/2019	MS4 update webinar	Webinar put on by the WDNR on MS4 program updates	Dan, Greg and Matt watched.
11/11/2019	NEWSC full consortium meeting	NEWSC full consortium meeting was held in Oshkosh	Matt attended
11/12/2019	Webinar	Webinar put on by WDNR on Technical Standard 1009 Rain Garden	Matt watched
12/10/2019	NEWSC MS4 managers training	Training in Oshkosh put on by NEWSC for managers of MS4.	Matt attended
12/23/2019	Meeting to discuss the MS4 budget	Dan, Greg and Matt met to discuss the MS4 budget and the possibility of carrying over funds	Dan, Greg and Matt
2019 year	Excal Visual Municipal Storm Water Pollution Prevention video	Parks and Cemetery workers watched the Excal Visual Municipal Storm Water Pollution Prevention Video	10 employees trained
2019 year	APWA Wisconsin chapter of the Snow Plow Rodeo	9 streets employees attended and received certificates	9 employees trained
2019 year	National APWA Rodeo in Colorado	One employee attended the National APWA Rodeo in Colorado.	Billy Hutterer attended
2019 year	Snow Plow training	Chad trained the DPW employees on salter and plow operations	18 employees trained

Attachment C

2019 Illicit Discharge Activities

No.	Date	Location	Summary	Action Taken	WDNR notified	Status	Staff
1	2/5/2019	S Frontage road	Heavy tracking and sediment was found in street after the snow melted from a waterman break	MPU cleaned it up	no	complete	Matt
2	3/1/2019	Knuell St north end	Complaint of Concrete trucks washing up on gravel area	Chad Scheinoha called Fickly concrete and give them a verbal warning found backed up sewage main from Shopko and damaged pipe. Had owners of sanitary main fix it.	no	complete	Matt
3	3/21/2019	Shopko	DPW smelled sewage in storm	Investigated it with local businesses and referred it to Police Department as a drug issue.	no	complete	Matt
4	3/29/2019	S 26th St at Dewey	Complaint of chemical smell every couple days around 2am	Sent letter to Fire Co. indicating this is an illegal activity and that this is their second warning	no	complete	Matt
5	4/9/2019	527 N 10th Street	City personnel noticed Fire Co. washing grease filters in street	Sent letter to Owner	no	complete	Matt
6	4/15/2019	4833 Veranda Ct	Complain of compost pile washing into ditch	Street sweeper picked up what it could	no	complete	Matt
7	6/27/2019	S Frontage road	complaint of oil on road but turned out to be a busted hose on city equipment spraying Liquid Dow on gravel streets	After investigating the Coast guard determined it was a bacteria bloom No action taken.	Yes	complete	Matt
8	6/28/2019	Manitowoc Marina	Complain of oil sheen on Lake in the Marina	Investigated and sent letter and followed up with owner who didn't realize it was an issue until he received the letter.	no	complete	Matt
9	7/10/2019	128 Riverview Drive	disturbed lawn area present with erosion	Sent letter to Asphalt Seal and Repair indicating the New city ordinance	no	complete	Matt
10	7/12/2019	Rivers Bend Health care 960 Rapids Road	Complaint of Coal tar sealer being used	Sent letter to HD asphalt indicating the New City Ordinance	no	complete	Matt
11	7/12/2019	3415 Custer Street	Complaint of Coal tar sealer used in parking lot	Worked with the owner and Manitowoc landscaping to get the area seeded and protected with Ermat right away.	no	complete	Matt
12	8/1/2019	1204 Fleetwood Drive	during outfall inspections the city found a homeowner had dumped dirt on to the ditch bank	Sent letter to Popp Asphalt Seal indicating the New City Ordinance	no	complete	Matt
13	8/5/2019	YMCA parking lot	Complaint of Coal tar sealer being used in the parking lot	Investigated and sent letter to owner	no	complete	Matt
14	8/29/2019	722 S. 22nd Street	Complaint of Wash water entering street	Sent letter to Wright Way Seal Coating indicating the New City Ordinance	no	complete	Matt
15	9/20/2019	Pizza Ranch Parking lot	Complaint of Coal tar sealer being used in parking lot	City DFI/firefighter crews cleaned up with oil dry and street sweeper. Worked with the county and the state to get it cleaned up	Yes	complete	Matt
16	9/30/2019	Intersection of Memorial Dr. and Mirro Dr.	Vehicle accident caused oil and antifreeze to spill	City sweepers cleaned up the mud after the farmers cleaned what they could.	no	complete	Matt
17	10/9/2019	Kellner Street	mud tracked into this street from farmers on Kellner	Found can of roofing tar about 1 gallon on road. Cleaned up bulk of the material.	no	complete	Matt
18	10/14/2019	Frontage Road at CR	Complaint of liquid spill	Investigated and sent owner a letter and followed up with owner about getting the car fixed.	no	complete	Matt
19	12/4/2019	1026 S. 23rd Street	Complaint of Oil dripping in street from leaking car		no	complete	Matt

Attachment D

2019 Construction site Permits

No.	Permit	Owner	Location	On-Site SWM	Agreement	Last Inspected	Notes
1	16-22	Lake Breeze Apts	Lake Breeze Drive	Wet Pond	14-01	11/12/2018	Complete
2	17-26	Briess Malt Plant	S 7th St at Hancock	Wet Pond	Pending	7/19/2018	Complete
3	18-11	Investors Community Bank	2400 S 44th Street	Dry Ponds	Pending	8/8/2018	Complete
4	18-12	Lakeside Foods Inc.	1601 S 30th Street	Wet Pond	Pending	12/14/2018	Complete
5	18-13	Angelus CBRF	200 East Waldo BLVD	Wet Pond	Pending	8/8/2019	
6	18-14	Panera Bread	4626 Calumet Ave	infiltration basin	Pending	10/26/2018	Complete
7	18-15	WPS	Rapids Road	NA	NA	11/28/2018	Complete
8	18-19	Kenton Langman	2109 Indian Creek	NA	NA		Complete
9	18-20	West of the Lake	915 Memorial	Yes	No	11/12/2018	Complete
10	18-22	Redline Plastics	S 59th Street	No-Reginal	NA	7/19/2019	
11	18-23	Bayshore Dr. water main	Future Bayshore Dr.	Wet Pond	NA	12/27/2018	Complete
12	18-DNR	Dewey Street	Dewey St-10th to 26th	Wet Pond	NA	11/5/2018	Complete
13	19-1	WPS	Viebahn Street	NA	NA	3/20/2019	Complete
14	19-2	Forest Creek Apts/Allie	2640 S 42nd Street	Wet Pond	No	8/26/2019	
15	19-3	Meijer Store	1802 S Rapids Road	Wet Pond	No		
16	19-4	WPS	N Rapids Road	NA	NA	7/10/2019	Complete
17	19-5	Apex Leasing	1944 I Tech Drive	Wet Pond	No	9/18/2019	
18	19-6	Lakeshore United Methodist Church	Reed Ave	NA	NA		Complete
19	19-7	MTM	4330 Expo Drive	Wet Pond	old	9/15/2019	Complete
20	19-8	Baypoint Developers	Waldo Blvd crush site	NA	no		Complete
21	19-9	Gulseth fill site	1920 Johnston Drive	NA	NA		Complete
22	19-10	Tom Howald - Aldi Inc.	4111 Harbor Town	Fee In Lue	NA		Complete
23	19-11	Kwik Trip Inc	401 N 8th Street	NA	NA		Complete
24	19-12	Verizion/Alliance Development	4626 Calumet Ave	infiltration basin	yes		Complete
25	19-13	Expo Dewey Street Parking	Manitowoc County	infiltration strip	no		Complete
26	19-14	WPS	4622 Calumet Ave	NA	No		Complete
27	19-15	Burger King/University BK Capital	3002 Calumet Ave	NA	No		Complete
28	19-16	Lakeside Foods Inc.	1601 S 30th Street	Wet Pond	No	8/8/2019	
29	19-17	WPS	Calumet Ave-S 41st to s 39	NA	NA		Complete
30	19-18	MND Fiber/Northwind Tech Fiber	S 42nd Street	NA	NA		Complete

31	19-19	SKD Petroleum	205 N Rapids Road	NA	NA		Complete
32	19-20	Zimmer Investments	2131 Zimmer Drive	NA	NA	11/4/2019	
33	19-21	Michael Yauger	Conro Street	NA	Na		Pending Start
34	19-1DNR	City of Manitowoc	S Rapids Road	NA	NA		Complete
35	19-2DNR	City of Manitowoc	Bayshore Drive	Wet Pond	No		

Attachment E

Storm water BMP Facilities

Wet Ponds

Facility ID	Name/Location	Inspection Year	Notes	Action Taken
95-01	Durk Drive Pond	2019	Yearly Herbicide of invasive and woody vegetation	McMahon Spot Herbicide & Professional assessment(6/2/19, 9/29/19) Trapper Dan trapped musk rats(November)
04-02	Vits Drive Pond	2019	Yearly Herbicide of invasive and woody vegetation	McMahon Spot Herbicide & Professional assessment(6/2/19, 9/29/19) Trapper Dan trapped musk rats(November)
07-07	Fessler Drive Pond	2019	Yearly Herbicide of invasive and woody vegetation	McMahon Spot Herbicide & Professional assessment(6/2/19, 9/29/19) Trapper Dan trapped musk rats(November)
09-01	N Rapids Road Pond	2019	Yearly Herbicide of invasive and woody vegetation	McMahon Spot Herbicide & Professional assessment(6/2/19, 9/29/19) Trapper Dan trapped musk rats(November)
09-02	Clay Pit Road Pond	2019	Yearly Herbicide of invasive and woody vegetation	McMahon Spot Herbicide & Professional assessment(6/2/19, 9/29/19) Trapper Dan trapped musk rats(November)
09-03	S 30th Street Pond	2019	Prairie management with prescribed burn for 2019	McMahon Spot Herbicide & Professional assessment(6/2/19, 6/30/19, 9/19/19) Lakeshore Cleaners prescribe burned(4/20/19) Trapper Dan trapped musk rats(April & November)
10-01	S 10th Street Pond	2019	Prairie management with prescribed burn for 2019 needs to be modified to reduce clogging	McMahon Spot Herbicide & Professional assessment(6/2/19, 6/30/19, 9/19/19) Lakeshore Cleaners prescribe burned(4/20/19) Trapper Dan trapped musk rats(April & November)
10-02	S 41st Street Pond	2019	Yearly Herbicide of invasive and woody vegetation	McMahon Spot Herbicide & Professional assessment(6/2/19, 9/29/19) Trapper Dan trapped musk rats(November)
13-01	Dewey Street Pond	2019	Prairie management with prescribed burn scheduled for 2019	McMahon Spot Herbicide(6/2/19, 6/30/19, 9/29/19), Lakeshore Cleaners herbicide treatments(7/31/19), Trapper Dan trapped musk rats(April & November)
	Deerbrook Ln		Council approved the City to maintain the pond mowing and outfall maintenance.	

Infiltration Basins

Facility ID	Name/Location	Inspection Year	Notes	Action Taken
09-06	Senior Center east and west basin	2019	West basin replanted and new engineered soil mix in 2016 Buildings and grounds weeded in spring both basin	parks dept. weeded
13-05	Red Arrow Park	2019	Infiltration basin and sand dunes	McMahon Spot Herbicide & Professional assessment (6/2/19, 9/29/19)
17-06	Blue Rail Infiltration basin	2019	Native plants with wood chips	McMahon spot herbicide (6/2/19, 9/29/19) Engineering and summer help pulled weeds(July)

Proprietary Devices

Facility ID	Name/Location	Inspection Year	Notes	Action Taken
08-05	Packer Lane CDS	2019	Needs to be cleaned/scheduled for January 2019	Cleaned 4/23/2019
17-07	Blue Rail CDS	2019	Just put on line in 2017	Inspected 10/1/2019

Mechanical Separator Inspection Form

This is a general inspection form. Items on this form are to be checked at different times and frequencies. Some items may not apply to your treatment device. Complete this form in accordance with the Operation and Maintenance Plan developed by the design engineer and per the manufacture.

Facility ID: _____ Location: _____
 Facility Name: _____ Photos: _____
 Inspected by: _____ Date: _____

TYPE OF MECHANICAL SEPARATOR AND MANUFACTURER	Sediment Levels Depth from bottom: _____ Floatables present? YES NO Oil Present? YES NO Date last cleaned: _____
--	--

INLET PIPES/OUTLET STRUCTURES Clogging/Debris/Litter? YES NO Structural Integrity Description:	

Additional Comments: _____

Stormwater Wet Detention Pond Inspection Form

This is a general inspection form. Items on this form are to be checked at different times and frequencies. Some items may not apply to your treatment device. Complete this form in accordance with the Operation and Maintenance Plan developed by the design engineer.

Facility ID: _____ Location: _____
 Facility Name: _____ Photos: _____
 Inspected by: _____ Date: _____

<p>POND SEDIMENT</p> <p>Sediment Levels in the Pond should be checked once every 5 years. Depth is from water surface to sediment bottom. Ponds should maintain a minimum of 3 feet depth to be effective. Mark approximate location of various depths on a pond site plan, map or aerial photo and include with form.</p> <p>Date last checked _____</p>	<p>EMBANKMENTS Describe further in additional comments</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Slumping</td> <td style="width: 10%;">YES</td> <td style="width: 20%;">NO</td> </tr> <tr> <td>Erosion</td> <td>YES</td> <td>NO</td> </tr> <tr> <td>Burrow Holes</td> <td>YES</td> <td>NO</td> </tr> <tr> <td>Woody Plants</td> <td>YES</td> <td>NO</td> </tr> <tr> <td>Invasive Species</td> <td>YES</td> <td>NO</td> </tr> <tr> <td>Mowing</td> <td>YES</td> <td>NO</td> </tr> <tr> <td>Other Damage</td> <td>YES</td> <td>NO</td> </tr> </table>	Slumping	YES	NO	Erosion	YES	NO	Burrow Holes	YES	NO	Woody Plants	YES	NO	Invasive Species	YES	NO	Mowing	YES	NO	Other Damage	YES	NO
Slumping	YES	NO																				
Erosion	YES	NO																				
Burrow Holes	YES	NO																				
Woody Plants	YES	NO																				
Invasive Species	YES	NO																				
Mowing	YES	NO																				
Other Damage	YES	NO																				
<p>WETLAND VEGETATION</p> <p>Is there excessive Algae or cattail growth that may block outlet. YES NO</p> <p>Date/Action Taken to remove: _____</p> <p>_____</p> <p>_____</p>	<p>INLET PIPES/OUTLET STRUCTURES</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Clogging/Debris/Litter</td> <td style="width: 10%;">YES</td> <td style="width: 20%;">NO</td> </tr> <tr> <td>Erosion</td> <td>YES</td> <td>NO</td> </tr> </table> <p>Structural Integrity Description:</p> <p>_____</p> <p>_____</p>	Clogging/Debris/Litter	YES	NO	Erosion	YES	NO															
Clogging/Debris/Litter	YES	NO																				
Erosion	YES	NO																				
<p>SEDIMENT REMOVAL</p> <p>Date/Action Taken: _____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>STORM SEWER SYSTEM</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Clogging/Debris/Litter</td> <td style="width: 10%;">YES</td> <td style="width: 20%;">NO</td> </tr> <tr> <td>Televise & Cleaning</td> <td>YES</td> <td>NO</td> </tr> <tr> <td rowspan="2">Structural Integrity</td> <td>Excellent</td> <td>Good</td> </tr> <tr> <td>Fair</td> <td>Poor</td> </tr> </table> <p>Other Damage: _____</p> <p>_____</p> <p>_____</p>	Clogging/Debris/Litter	YES	NO	Televise & Cleaning	YES	NO	Structural Integrity	Excellent	Good	Fair	Poor										
Clogging/Debris/Litter	YES	NO																				
Televise & Cleaning	YES	NO																				
Structural Integrity	Excellent	Good																				
	Fair	Poor																				

Additional Comments: _____

Stormwater Dry Detention Basin Inspection Form

This is a general inspection form. Items on this form are to be checked at different times and frequencies. Some items may not apply to your treatment device. Complete this form in accordance with the Operation and Maintenance Plan developed by the design engineer.

Facility ID: _____ Location: _____
 Facility Name: _____ Photos: _____
 Inspected by: _____ Date: _____

<p>TYPE OF DRY DETENTION BASIN Circle one</p> <p>Infiltration Basin _____</p> <p>Rain Garden _____</p> <p>Grass Swale _____</p> <p>Other: _____</p>	<p>EMBANKMENTS Describe further in additional comments</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Slumping/Stability</td> <td style="width: 10%;">YES</td> <td style="width: 10%;">NO</td> <td style="width: 10%;"></td> </tr> <tr> <td>Erosion</td> <td>YES</td> <td>NO</td> <td></td> </tr> <tr> <td>Burrow Holes</td> <td>YES</td> <td>NO</td> <td></td> </tr> <tr> <td>Woody Plants</td> <td>YES</td> <td>NO</td> <td></td> </tr> <tr> <td>Invasive Species</td> <td>YES</td> <td>NO</td> <td></td> </tr> <tr> <td>Mowing</td> <td>YES</td> <td>NO</td> <td></td> </tr> <tr> <td>Other Damage</td> <td>YES</td> <td>NO</td> <td></td> </tr> </table>	Slumping/Stability	YES	NO		Erosion	YES	NO		Burrow Holes	YES	NO		Woody Plants	YES	NO		Invasive Species	YES	NO		Mowing	YES	NO		Other Damage	YES	NO	
Slumping/Stability	YES	NO																											
Erosion	YES	NO																											
Burrow Holes	YES	NO																											
Woody Plants	YES	NO																											
Invasive Species	YES	NO																											
Mowing	YES	NO																											
Other Damage	YES	NO																											
<p>VEGETATION</p> <p>Invasive Species present? YES NO</p> <p>Date/Action Taken to remove? _____</p> <p>_____</p>	<p>INLET PIPES/OUTLET STRUCTURES</p> <p>Clogging/Debris/Litter YES NO</p> <p>Erosion YES NO</p> <p>Structural Integrity Description:</p> <p>_____</p> <p>_____</p>																												
<p>HOURS SINCE LAST RAIN EVENT _____</p> <p>Ponding of water may indicate the filter material is clogged.</p> <p>Is there ponding of water present on Engineered soil for more than 24 hours after rain event.</p> <p>YES NO</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>NATIVE PLANTS</p> <p>Native plants are required in most dry basins to improve the infiltration rate. Please describe the type of plants present and the condition of them below</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>																												

Additional Comments: _____

Attachment F

2019 Pollution Prevention

The City 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 (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 measurable goals for these programs in 2017.

POLLUTION PREVENTION PROGRAM (AECOM, October 2008):

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 and 3 Proprietary devices.

****MEASUREABLE GOAL**:** Each City-owned detention pond or infiltration basin was inspected multiple times by city staff in 2019. All 9 ponds have been inspected by an ecologist hired by the the city for prairie Management and invasive speices. The City trapper also visits all 9 ponds regularly and he has performed an inspection of each pond.

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

****MEASUREABLE GOAL**:** 260 Catch Basins and/or Catch Basin Manholes were inspected and/or cleaned

****MEASUREABLE GOAL**:** 57 CY of Material Removed from Catch Basins asuming each sump was 2/3 full.

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**:** 21,328 feet of Storm Sewer was Televised in 2019

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 two high-efficiency vaccum sweepers (Elgin Whirlwind) in late fall of 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 activtively enforced the street sweeping parking ban in 2019.

****MEASUREABLE GOAL**:** A total of 2,312 parking tickets were issued and over 1654 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**:** 13,064 miles of street was swept by the sweepers

****MEASUREABLE GOAL**:** 1126.15 tons of material was removed by the sweepers and by

Catch Basin Cleaning:

1. Add future catch basins to mapping

****MEASUREABLE GOAL**:** 6 new catch basins have been added to our mapping in 2019.

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

Repeated from above:

****MEASUREABLE GOAL**:** 260 Catch Basins and/or Catch Basin Manholes were inspected and/or cleaned
Estimated 6500 inlets cleaned and inspected.

****MEASUREABLE GOAL**:** 57 CY of Material Removed from Catch Basins asuming each sump was 2/3 full.

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 2019 was hauled to Waste Managements, Ridgeview Landfill in Whitelaw, WI

2. Document amount of material removed.

****MEASUREABLE GOAL**:** 1126.15 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**:** 2,617.5 tons of salt, 13,405 tons of Treated sand, 80 gallons of liquid dow, 3,467 gallons of beat juice geo melt , and 18,922 gallons of brine were used in 2019

MONTH	SALT	BRINE	BEAT/GEO	LD	TS
1	877.15	5,795	2,448	61	252.73
2	935.81	7,790	843	19	0
3	90.19	492	176		13,153
4	24.78	3,038	0	0	0
11	342.35	0	0	0	0
12	347.22	1,807	0	0	0
TOTALS	2,617.50	18,922	3,467	80	13,405.73
	TON	GAL	GAL	GAL	TON

Section 5.0 - Collection and Disposal of Leaves and Grass Clippings

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

****MEASUREABLE GOAL**:** 6,918 cubic yards.

Section 6.0 - Municipal Storm Water Pollution Prevention Planning

DPW SERVICE BUILDING STORM WATER POLLUTION PREVENTION PLAN(SWPPP) (AECOM, October 2008) (AECOM update April 2015):

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
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 2017.
5. Runoff Erosion: This was addressed with the installation off new perforated pipe in fall of 2015.
6. Quarterly Inspections – For 2019 quarterly inspections, contact Operations Division Manager, Chad Scheinoha at cscheinoha@manitowoc.org or (920) 686-6512.

**PARKS MAINTENANCE FACILITY STORM WATER POLLUTION PREVENTION PLAN(SWPPP) (AECOM, October 2008)
(AECOM update April 2015):**

Existing and Recommended Control Measures:

1. Fuel Island - . Spill kits have been purchased for the fuel islands
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 2019.
5. Quarterly Inspections - For 2019 quarterly inspections, contact Operations Division Manager, Chad Scheinoha at cscheinoha@manitowoc.org or (920) 686-6512.

**MANITOWOC MARINA STORM WATER POLLUTION PREVENTION PLAN(SWPPP) (NORTHERN ENVIRONMENTAL,
JULY 1999):**

Existing Tier 2 Stormwater Industrial permit. Facility ID: 11095

Contact; Rich Larsen
Manitowoc Marina
425 Maritime Dr
Manitowoc WI 54220
E Mail rlarsen@manitowoc-marina.com
Phone 920-682-5117

1. Updated the SWPPP in 2017

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.

City staff attended multiple erosion control and storm water management training workshops and conferences (FWWA Conference and other webinars). Also 10 staff from Parks and Cemetery watched an Excel Visual Stormwater DVD on Pollution Prevention. 9 Streets Employees attended the APWA Wisconsin Chapter Snow Plow Rodeo. The public education activities and trainings are listed in the Public Education attachment.

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

The City has contacted MPU, 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.

Attachment G

City of Manitowoc 2019 Budget Summary

2020 Proposed

1 Public Education/involvement				2020 Proposed	
Work order #	expense	Project Management			
930	\$ 1,923.82	\$ 1,201.84			OA 500 -500
		Total	\$ 3,125.66		\$ 3,300.00
2 IDD& E					
Work order #	Expense	Project Management			
942	\$ 1,548.34	\$ 547.77			OA 2,500
932	\$ 1,082.79				
		Total	\$ 3,178.90		\$ 3,300.00
3 Construction Site Pollutant Control					
Work order #	Expense	Project Management			
933	\$ 2,208.88				
934	\$ 494.75	Revenue \$ (7,008.75)	expense \$ 492.50		
		Total	\$ (3,812.62)		\$ 5,000.00
4 Post Constructon SWM					
Work order #	Expense	Project Management			
920 S 41st	\$ 35.65	\$ 206.86			
921 S 30th	\$ 35.65	\$ 2,547.66			
922 S 10th	\$ 185.21	\$ 2,275.66			
923 Rapids	\$ 35.65	\$ 206.86			
924 Clay Pit	\$ -	\$ 206.86			
925 Dewey	\$ -	\$ 1,959.66			
927 Dufek	\$ -	\$ 206.86			
928 Vits	\$ -	\$ 206.86			
929 Fessler	\$ -	\$ 206.86			
934	\$ 2,298.44	\$ -			
944	\$ 54.97	\$ -			
1113 Blue Rail	\$ -	\$ 373.80			
1114 Red Arrow	\$ -	\$ 407.30			
1132	\$ 23.38				
1133	\$ 25.41				
1134	\$ 116.90				
1135	\$ -	Revenue \$ (1,578.75)	Aldi's fee in lue		
1137	\$ 46.76	\$ -			
1138	\$ -	\$ -			
1139	\$ -	1060			3,000
sub total	\$ 2,858.02	\$ 9,865.24			27,000
		Total	\$ 14,302.01		\$ 30,000.00
5 Pollution Prevention					
Discription/Work C	Expense	Project Management			
826 C&G	\$ 5,503.33	\$ 81,700.76			1,300 70,000
714&740SSweepin.	\$ 216,158.84				
722,723,748&749 I	\$ 236,320.65				
719	\$ 67,865.68				
721	\$ 7,270.35				
745	\$ 2,621.71				
747	\$ 62.52				
935	\$ 534.80				
		Total	\$ 618,038.64		\$ 620,000.00
6 SWQM					
Work order #	Expense	Project Management			
936	\$ -				8,800
946	\$ -				
949	\$ 233.80	\$ 9,787.52			
		Total	\$ 10,021.32		\$ 8,800.00

7 MAP

<u>Work order #</u>	<u>Expense</u>	<u>Project Management</u>	
937	\$ -		
947	\$ -		
		Total	\$ -
			300

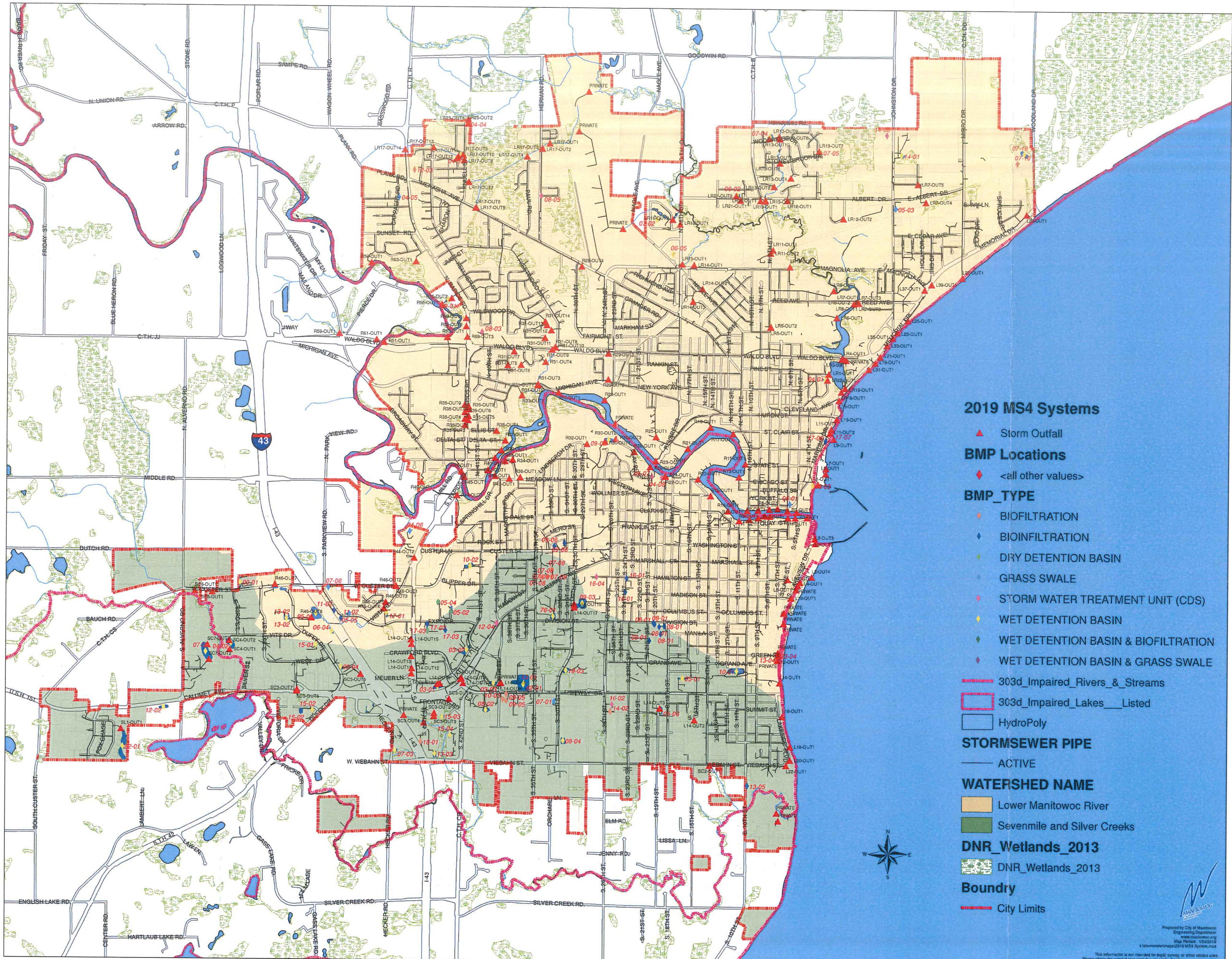
8 Other

<u>Work order #</u>	<u>Expense</u>	<u>Project Management</u>	
938	\$ 3,434.03		
		Total	\$ 3,434.03
			\$ 7,650.00

TOTAL	\$ 552,980.33	TOTAL	\$ 104,873.37	TOTAL	\$ 678,050.00
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TOTAL	\$ 657,853.70
--------------	---------------

Attachment H



2019 MS4 Systems

- ▲ Storm Outfall
- BMP Locations**
- ◆ <all other values>
- BMP_TYPE**
- BIOFILTRATION
- ◇ BIOINFILTRATION
- DRY DETENTION BASIN
- GRASS SWALE
- STORM WATER TREATMENT UNIT (CDS)
- WET DETENTION BASIN
- WET DETENTION BASIN & BIOFILTRATION
- WET DETENTION BASIN & GRASS SWALE
- 303d_Impaired_Rivers_&Streams
- 303d_Impaired_Lakes_Listed
- HydroPoly
- STORMSEWER PIPE**
- ACTIVE
- WATERSHED NAME**
- Lower Manitowoc River
- Sevenmile and Silver Creeks
- DNR_Wetlands_2013**
- DNR_Wetlands_2013
- Boundry**
- City Limits



Prepared by City of Manitowoc
 Engineering Department
 www.manitowoc.org
 Map Project: 10/2016
 C:\stormwater\maps\2019 MS4 System.mxd

This information is not intended for legal survey, or other related uses.
 Please obtain the original recorded documents for legal or survey information.