

VILLAGE OF CALEDONIA UTILITY DISTRICT MEETING AGENDA

Wednesday, April 2, 2025 – 6:00 p.m.

Caledonia Village Hall – 5043 Chester Lane

THIS WILL BE AN IN-PERSON MEETING

- 1. Meeting Called to Order
- 2. Roll Call
- 3. Approval of Minutes
 - a. Utility District Regular Meeting March 5, 2025
- 4. Citizen Comments

5. Communications and Announcements

- a. Racine Waterworks Commission Agenda & Minutes
- b. Racine Wastewater Commission Agenda & Minutes
- c. Annual Notice of Allocated Capacity Usage Racine Wastewater Utility Director Tillis
- d. MS4 Annual Report

6. Approval of O&M Bills

a. O&M Bills related to the Sewer, Water & Storm Water Utility District

7. Project Updates

- a. Current Contracts
- b. Riverbend Lift Station Safety Site, Lift Station & Forcemain Upgrade
- c. Annual Televising Program Sanitary Sewer
- d. Central Lift Station Safety Site & Attenuation Basin
- e. TID #4 Elevated Storage Tank & Adams Road Watermain
- f. Western Village / Sundance Heights Watermain Replacement
- g. TID #4 Phase 4 Sanitary Sewer & Water Main Extension Project
- h. Hoods Creek Aldebaran Brushing Project
- i. Turtle Creek Restoration
- j. 4 Mile Road Tile (Club View Subdivision to Erie Street)

8. Action Items

- a. Storm Water Management Plan 10720 4 Mile Road, Single Family Home Upthall
- b. Sewer Backup 9803 Caddy Lane Renate Gray
- **c.** Professional Services Agreement Cathodic Protection for Lift Stations & Water Towers Cathodic Protection Management, Inc.
- d. Wind Point Watermain Project 4 Mile Road Village of Wind Point
- e. Storm Water Management Plan & Site Grading Plan 8332 Northwestern Avenue, Gifford School Addition – Racine Unified School District
- 9. Adjournment

Village of Caledonia Utility District Meeting March 5, 2025

<u>1 – Order</u>

President Stacey called the Village of Caledonia Utility District meeting to order at 6:00 pm.

<u>2 – Roll Call</u>

PRESENT: 5 – President Howard Stacey, Commissioners Dave Ruffalo, Robert Kaplan, Kathleen Trentadue and Trustee Lee Wishau.

EXCUSED: 0

ABSENT: 0

STAFF: Public Services Director Anthony A. Bunkelman P.E.

3 - Approval of Minutes February 5, 2025

A motion was made by Commissioner Trentadue to approve the Utility District's minutes from February 5, 2025, seconded by Trustee Wishau. **Motion carried 5-0.**

4 – Citizen Comments

5 – Communications & Announcements

a. Racine Water Utility Agenda & Minutes

The Commission looked over the minutes from the January 15th meeting and the agenda from the February 19th meeting of the Racine Water Utility.

b. Racine Sewer Utility Agenda

The Commission looked over the agenda from the February 19th meeting of the Racine Sewer Utility.

6 – Approval of O&M Bills

- a. Trustee Wishau moved to approve the Sewer Utility Invoices in the amount of \$595,338.86 from the February 27th invoice list. Seconded by Commissioner Kaplan.
 Motion carried 5-0.
- b. Trustee Wishau moved to approve the Water Utility Invoices in the amount of \$68,277.99 from the February 27th invoice list. Seconded by Commissioner Kaplan. Motion carried 5-0.
- c. Trustee Wishau moved to approve the Storm Water Utility Invoices in the amount of \$693.76 from the February 27th invoice list. Seconded by Commissioner Kaplan.
 Motion carried 5-0.

7 – Project Updates

a. Current Contracts

Director Bunkelman provided the status of the Sundance Heights Watermain Replacement project contract, the TID #4 Phase 4 Sanitary Sewer & Water Main Extension contract and the Adams Road Tower & Watermain contract.

b. Riverbend Lift Station Safety Site, Lift Station & Forcemain Upgrade

Currently reviewing the Draft Facility Plan.

c. Annual Televising Program – Sanitary Sewer

Cleaning for 2025 will begin in Spring.

d. Central Lift Station Safety Site & Attenuation Basin

Design of Basin continues.

e. TID #4 Elevated Storage Tank & Adams Road Watermain

PSC approval received on February 11. Watermain contractor looking to mobilize on March 3. Residents have been notified of the project with hand delivered letters. Tower contractor will be providing construction plans in the next few months.

f. Western Village / Sundance Heights Watermain

Contractor has minor work to be completed in Spring. Have started a punchlist of issues and complaints on restoration.

g. TID #4 Phase 4 Sanitary Sewer & Watermain Extension Project

Contractor will be working on restoration in Spring. Have started a punchlist for items to be performed.

h. Hoods Creek – Aldebaran Brushing Project

Interest has been shared with the Village to extend the project to the North in 2025.

i. Turtle Creek Restoration

Southern Wisconsin Appraisal meeting with owners to discuss easements. Looking to set up a meeting in the Spring with an Arborist to spray the Klema Ditch to prevent future tree growth.

j. 4 Mile Road Tile (Club View Subdivision to Erie Street)

Received asbuilt information from NMB. Will be looking to televise some additional areas of the tile.

8 – Action Items

a. Storm Water Management Plan – 5140 Highway H – Grabowski

Trustee Wishau made the motion to conditionally approve the Storm Water Management Plan and Site Construction Plan for 5140 Highway H subject to the conditions listed on the February 27th 2025 memorandum from the Public Services Director. Seconded by Commissioner Trentadue. **Motion carried 5-0.**

b. Bel Mar Avenue Municipal Water Request & Survey Results

Director Bunkelman shared the results of the survey with the Commission. He also explained the situation that occurred with the new home on Bel Mar Avenue and the watermain project that was proposed.

Commissioner Trentadue moved to respond to the petitioner that the Caledonia Utility District will not install watermain along Bel Mar Avenue at this time due to a lack of support from the affected owners. Seconded by Commissioner Ruffalo. **Motion carried 5-0**.

<u>9 – Adjournment</u>

Upon a motion by Trustee Wishau and seconded by Commissioner Kaplan, the Commission moved to adjourn the regular meeting at 6:30 pm. Motion carried 5-0.

Respectively submitted, Anthony A. Bunkelman P.E.



City of Racine

Meeting Minutes - Final

Waterworks Commission

ednesday, February 19, 2	025 5:15 PM	City Hall, Room 303
The meeting was running the mee attendance virtu	s called to order at 5:16 pm. by Commissioner Taft, v ting in place of Commission President Jorgenson, v ally via zoom.	who was vho was in
ROLL CALL		
PRI	ESENT: 4 - Natalia Taft, Cory Mason, Terry McCarthy and Jen	s Jorgenson
EXC	CUSED: 4 - John Tate II, Stacy Sheppard, Mollie Jones and Jir	n Sullivan
<u>0140-25</u>	Subject: Approval of Minutes for the January 15, 202 Commission Meeting	25, Waterworks
	Staff Recommendation: To Approve	
	Fiscal Note: N/A	
	A motion was made by Mayor Mason, seconded by Jorgens Approved.	on, that this file be
<u>0141-25</u>	Subject: Communication from the Utility Director ReEPA Inspection	garding the US
	Staff Recommendation: To Receive and File	
	Fiscal Note: N/A	
	The Utility Director presented an update on the progress of the had commenced Tuesday, carried on into Wednesday and wo following day. The scope of the inspection included the followir	e EPA Inspection that uld be wrapping up the ng areas:
	Cyber Security inspection Risk Resiliency Interview plant superintendent, chief engineer, other drinking w General background (staffing, population served, service area, Review records, plans, drawings etc. Source and intake Water Treatment Plant Walkthrough	vater staff etc.)

Sampling and monitoring (schedules, locations, procedures, etc.)

Operations and SCADA

Lab Inspect Racine's distribution system Storage tank Interconnection Onsite Records review Emergency Response

The Commission inquired as to the possibility of reviewing the findings and final report compiled by the EPA once it was finalized, specifically the cyber security portion. The Utility Director noted the request and confirmed that the findings would be shared with the Commission once the final report was received.

A motion was made by Mayor Mason, seconded by Alder McCarthy, that this file be Received and Filed.

0142-25 **Subject:** Consideration of Bid Opening Results for Contract W-25-2, 2025 Water Main Replacement - Phase 1

Staff Recommendation: To Approve

Fiscal Note: \$952,275 dollars from the 4.7 million approved from the CIP budget for old water main replacement.

The Executive Utility Director is authorized and directed to execute the contract on behalf of the Racine Water Utility. The lowest responsible bidder was Earth X, LLC, with a bid of \$952,275.00.

A motion was made by Mayor Mason, seconded by Alder McCarthy, that this file be Approved.

0144-25 **Subject:** Consideration of Bid Opening Results for Contract W-25-3, 2025 Water Main Replacement - Phase 2

Staff Recommendation: To Approve

Fiscal Note: \$1,248,180 from the 4.7 million approved from the CIP budget for old water main replacement.

The Executive Utility Director is authorized and directed to execute the contract on behalf of the Racine Water Utility. The lowest responsible bidder was Reesman's Excavating & Grading, Inc., with a bid price of \$1,248,180.00. The Commission inquired as to why the bids were coming in lower than the engineer's projected estimates on the contracts, which led to a discussion on the Davis-Bacon wages and how those factor into play with the contracts. The Chief Utility Engineer relayed that the Davis-Bacon wages are not required to be followed for these contracts, as the Utility is using its own fund for these projects. However, in a response to a follow up question, the Chief Engineer responded that the contractors pay comparable wages to their employees, but perhaps save on fringes/benefits. The utility can reach out to the contractors for more information on wages and salaries upon further inquiries.

A motion was made by Alder McCarthy, seconded by Mayor Mason, that this file be Approved.

0145-25 **Subject:** Consideration and Possible Action for Hiring a Legal Counsel to Advise the Waterworks Commission

Staff Recommendation: To Receive and File

Fiscal Note: N/A

The Utility Director provided on an update on the progress of the Interview Panel Committee (comprised of Executive Director Islam, City Attorney Letteney, and Commission President Jorgenson) involved with the selection of a Legal Counsel to advise the Waterworks Commission. The two options presented were candidates from two different firms; one more local in the Milwaukee area, and the other from the northwest part of the state. Discussion ensued about the pros and cons of each candidate; weighing in on opinions from the interview committee. All were in agreement about the importance of resolving the main issue at hand of bringing the involved parties to negotiations involving potential changes within the intergovernmental agreements.

A motion was made by Alder McCarthy, seconded by Mayor Mason, that this file be Deferred in order to allow the Interview Panel Committee the opportunity to follow-up with the candidates once more with input from the Commission and thereby empower them to make an informed and agreed upon decision on which candidate to choose as Legal Counsel.

Adjournment

There being no further business to address, the meeting was adjourned at 5:54 p.m.



City of Racine

City Hall 730 Washington Ave. Racine, WI 53403 www.cityofracine.org

Meeting Agenda

Waterworks Commission

Wednesday, March 19, 202	5 5:45 PM	City Hall, Room 303
ROLL CALL		
<u>0280-25</u>	Subject: Approval of Minutes for the February 19, 2025, Wate Commission Meeting	rworks
	Staff Recommendation: To Approve	
	Fiscal Note: N/A	
<u>Attachments:</u>	20250219 water minutes	
<u>0282-25</u>	Subject: Presentation of the Racine Water Utility's "2025 Risk Resiliency Assessment" (Strand Associates Inc. to present hig	and Jhlights)
	Staff Recommendation: To Receive and File	
	Fiscal Note: N/A	
<u>0283-25</u>	Subject: Consideration of Bid Opening Results on Contract W Lead Service Line Replacement	-25-4, 2025
	Staff Recommendation: To Approve	
	Fiscal Note: Lowest responsive bid from Miller Pipeline at \$3, for replacing 350-400 Lead Service Lines approved from the 3 SDWL.	117,937.50 .25 million
<u>Attachments:</u>	w-25-4 bid opening memo_bid tab	
<u>0284-25</u>	Subject: Consideration of Bid Opening Results on Contract W Pavement Replacement	'-25-5, 2025
	Staff Recommendation: To Approve	
	Fiscal Note: Lowest responsive bid from Beardsley Concrete	at

\$425,900.00 from the Street Repair O&M budget.

<u>Attachments:</u>	w-25-5_bid opening memo_bid tab
<u>0285-25</u>	Subject: Consideration of Bid Opening Results on Contract W-25-6, STH 31 Water Main Replacement
	Staff Recommendation: To Approve
	Fiscal Note: Lowest responsible bid from A.W. Oakes & Son Inc. at \$2,214,710.00 from the 2.6 million approved for the CIP budget for old water main replacement.
<u>Attachments:</u>	w-25-6 bid opening memo bid tab
<u>0286-25</u>	Subject: Consideration of Approval for Developer's Agreement for the Leo Living Development, Leo@MountPleasant, LLC (developer)
	Staff Recommendation: To Approve with a Referral to the Finance and Personnel Committee
	Fiscal Note: The developer pays all costs associate with the installation of the local water main estimated at \$800,000.00.
<u>0297-25</u>	Subject: Proposal from Pinnacle Engineering Group LLC for Construction-Related Services for the Leo Living Development Project
	Staff Recommendation: To Approve
	Fiscal Note: The total cost of the proposal is \$58,500.00 paid by the developer.
<u>Attachments:</u>	crs_leo living development
<u>0293-25</u>	Subject: Change Order No. 1 on Contract W-24-3, Hamilton Avenue Water Main Replacement, Earth X, LLC (contractor)
	Staff Recommendation: To Approve
	Fiscal Note : Contract change results in an increase of \$14,596.00, bringing the total contract amount to \$1,299,071.00.
<u>Attachments:</u>	co#1 w-24-3 Itr to commsrs
<u>0294-25</u>	Subject: Change Order No. 2 on Contract W-24-3, Hamilton Avenue Water Main Replacement, Earth X, LLC (contractor)

Staff Recommendation: To Approve

Fiscal Note: Contract change results in an overall net increase of \$46,630.12, bringing the total contract amount to \$1,345,701.12.

Attachments: co#2_w-24-3_ltr to commsrs

0281-25 **Subject:** Request for Final Payment on Contract W-24-3 - Hamilton Avenue Water Main Replacement - Earth X, LLC (contractor)

Staff Recommendation: To Approve

Fiscal Note: Contract W-24-3 is complete at a final cost of \$1,345,701.12.

Attachments: w-24-3 final pmt request ltr to commsrs

0313-25 **Subject:** Communication Update on Hiring a Legal Counsel to Advise the Waterworks Commission

Staff Recommendation: To Receive and File

Fiscal Note: N/A

Adjournment

If you are disabled and have accessibility needs or need information interpreted for you, please contact the Water Utility Administration Office at 262.636.9181, at least 48 hours prior to this meeting.

A zoom link is available by request, and with approval from the Commission President to participate in the meeting virtually. Please send inquiries to jaclyn.bosanec@cityofracine.org.



City of Racine

City Hall 730 Washington Ave. Racine, WI 53403 www.cityofracine.org

Meeting Agenda

Wastewater Commission

Wednesday, March 19, 202	5 5:30 PM	City Hall, Room 303
ROLL CALL		
<u>0276-25</u>	Subject: Approval of Minutes for the February 19, 2025, Waster Commission Meeting	ewater
	Staff Recommendation: To Approve	
	Fiscal Note: N/A	
<u>Attachments:</u>	20250219 WW Minutes	
0277-25	Subject: Consideration of Mount Pleasant Interceptor Rates fo	r 2025
	Staff Recommendation: To Approve	
	Fiscal Note: N/A	
<u>Attachments:</u>	2025 MP Transmission Rates	
<u>0279-25</u>	Subject: Communication from Utility Director Regarding Updat Performance Evaluations	e on
	Staff Recommendation: To Receive and File	
	Fiscal Note: N/A	
<u>0278-25</u>	Subject: Communication from Utility Director Regarding 2024 Compensation Market Analysis	
	Staff Recommendation: To Receive and File	
	Fiscal Note: N/A	

Adjournment

If you are disabled and have accessibility needs or need information interpreted for you, please contact the Wastewater Utility Administration Office at 262.636.9181, at least 48 hours prior to this meeting.

A zoom link is available by request, and with approval from the Commission President to participate in the meeting virtually. Please send inquiries to jaclyn.bosanec@cityofracine.org.



City of Racine

Meeting Minutes - Draft

Wastewater Commission

Wednesday, March 19, 20	25 5:30 PM	City Hall, Room 303
ROLL CALL		
	Let the record show that Commissioner Sullivan was voting place of one of the City representatives.	in an Alternate capacity in
F	RESENT: 9 - Natalia Taft, John Tate II, Cory Mason, Anthony Bunkelman, Jens Jorgenson, Jack Feiner, Jim Washburn	/ Beyer, Anthony Sullivan and Nancy
E	XCUSED: 4 - Stacy Sheppard, Terry McCarthy, Kevin Salb an	nd Claude Lois
<u>0276-25</u>	Subject: Approval of Minutes for the February 19, Commission Meeting	2025, Wastewater
	Staff Recommendation: To Approve	
	Fiscal Note: N/A	
	A motion was made by Alternate Sullivan, seconded by I file be Approved.	Bunkelman, that this
<u>0277-25</u>	Subject: Consideration of Mount Pleasant Interce	ptor Rates for 2025
	Staff Recommendation: To Approve	
	Fiscal Note: N/A	
	The Utility Director presented the proposed Mt. Pleasant Int \$159.58/MG for 2025. The rates are calculated annually an Mt. Pleasant Sewer Utility using methodology from an Agre to recover operation, maintenance, and depreciation costs a conveyed through the interceptor.	terceptor Rate of d approved by the Village of ement established in 1993 applied to SSR Party flow
	A motion was made by Alternate Beyer, seconded by Bu be Approved.	nkelman, that this file
<u>0279-25</u>	Subject: Communication from Utility Director Reg Performance Evaluations	arding Update on
	Staff Recommendation: To Receive and File	

Fiscal Note: N/A

The Utility Director updated the Commission on current ongoing efforts to create a Performance Evaluation (PE) tool that is more directly correlated to the Utility's mission and values after they went through a process of being redefined in 2023. The six highest rated values that were compiled from surveying efforts across the Utility staff and Commission were the following:

Accountability Transparency Teamwork Inclusion Respect Ethics/Integrity

The new proposed PE method would be more job specific rather than a general form that is used across the board. It would be comprised of competencies chosen by the supervisor, which would then be weighted by importance; as well as goals that are determined together by the employee and the supervisor's input. Discussion ensued amongst the Commissioners with concerns as to the Human Resources Department's role in this process. The Utility Director relayed that the HR Department is aware of the process to redefine the PE tool, and that although it hasn't been officially deployed yet that they have been consulted and made aware of the plans to reinvent the tool.

A motion was made by Mayor Mason, seconded by Vice President Tate II, that this file be Received and Filed.

0278-25 Subject: Communication from Utility Director Regarding 2024 Compensation Market Analysis

Staff Recommendation: To Receive and File

Fiscal Note: N/A

The Utility Director presented a summary of findings from Cottingham & Butler, the outside consulting firm who performed the 2024 Compensation Market Analysis, a study which is conducted every three years.

A motion was made by Mayor Mason, seconded by Vice President Tate II, that this file be Received and Filed.

Adjournment

There being no further business to discuss, the meeting was adjourned at 6:04 p.m.

Anjuman A. Islam, Ph.D. Water Utility Director

Nathaniel Tillis Wastewater Utility Director



Kenneth M. Scolaro Administrative Manager

Chad W. Regalia, P.E. Chief Engineer

March 7, 2025

Mr. Todd Willis Administrator Village of Caledonia 5043 Chester Lane Racine, WI 53402

SUBJECT: Annual Notice of Allocated Capacity Usage

Dear Mr. Willis:

Background

This letter is being sent to you in accordance with the *Racine Area Intergovernmental Sanitary Sewer Service, Revenue-sharing, Cooperation and Settlement Agreement* (Agreement) dated April 25, 2002. Section 5.5.g. requires the Wastewater Commission to provide the Sewer Service Recipient (SSR) Parties of the Agreement an "Annual Notice of Allocated Capacity Usage," and Section 5.3.i requires an "Annual Notice of Maximum Historical Parameters." Community treatment capacity is as established in the July 31, 2018, revision #8 to the Agreement; and conveyance capacity as established in the December 17, 2019, revision #9.

Listed below are metrics where your community may have exceeded its purchased capacity in accordance with the Agreement. Section 5.5 of the Agreement covers thresholds of allocated capacity and what they may mean to your community. This section requires that the Wastewater Commission notify Parties when they exceed 80%, 90%, and 95% of its allocated and purchased capacity. A full summary of annual flows and loadings are attached for your reference.

Sewer extensions are not permitted at the 90% exceedance level until the Party can demonstrate to the Commission that full use of the extension will not result in capacity exceedance. No new customer connections are permitted at the 95% exceedance level until the Party can demonstrate to the Commission that full use of the extension or connection will not result in capacity exceedance. No additional sewer extensions or connections are permitted under any circumstance at the 100% exceedance level until the Party system is modified to demonstrate no reasonable possibility of exceedance, and that the Party has acquired sufficient additional allocated system capacity.

Please consider this letter as having a two-fold purpose; first, to notify you of your 2024 annual usage in comparison to your allocated capacity; and secondly, as a notice of reaching a threshold of the Agreement, if applicable. Precipitation averages for 2024 were higher than normal but no single storm netted more than 2" which is where we tend to see conveyance issues. Total flow through the wastewater plant for 2023 = 8,337 MG (13.5% increase from 2023, which was drier).

Treatment Capacity

By Utility calculations, Caledonia has the following treatment capacity issues relative to what was purchased for the year 2024 (Note: Peak Monthly values are derived as a daily average over any consecutive 30-day period):

Parameter	% Exceedance	# of Days	SSR Max Value
Average Daily TKN	80%	N/A	82.3%
Peak Monthly TKN	80%	9	84.5%

Conveyance Capacity

Caledonia had one conveyance capacity flow exceedances for Peak Monthly:

Parameter	% Exceedance	# of Days	SSR Max Value
Peak Monthly Flow	80%	52	92.6%

Caledonia had no conveyance capacity Point-of-Entry flows.

The Utility experienced no Sanitary Sewer Overflows (SSOs) due to heavy rainfall in 2024.

Flow and Loadings Data Assessment

The Utility collects daily flow data from various system metering points. The result is that daily (5-minute) flow data is assimilated through the plant SCADA system for continuous recording. The basis for much of the analytical data is derived from daily sampling at the wastewater treatment plant influent, and biweekly to quarterly sampling of outlying gauging stations in the collection system. Analytical sampling data from remote locations is also interpolated to daily values based upon wet weather variations of flow and plant data to incorporate an Inflow/Infiltration (I/I) factor on days that a sample was not collected. Racine flow and loadings are determined as a subtraction of wastewater plant incoming values minus all other contributing SSR parties flow and loadings.

Section 5.10(b) of the Agreement provides that "the Racine Utility may, from time to time, take such grab samples of wastewater and conduct such monitoring at any of the metering stations as it deems appropriate, in its reasonable discretion, to determine the waste loadings or waste characteristics of such Party's wastewater or to verify the flow rate of such wastewater". The Utility is satisfied that the current sampling method and frequency are providing representative SSR party wastewater loading data in the most cost-effective manner. An increased sampling frequency comes with increased labor and cost burdens. Any SSR Party not satisfied with sampling frequency is free to fund independent monitoring and forward such data to the Utility to utilize in loading calculations. As indicated in Section 5.3(j) of the Agreement, "in the absence of such agreed-upon jointly submitted information, the Wastewater Commission shall be free to rely upon the metered wastewater flow data and sampling data."

Flow and Loadings Impact

At this time, the Wastewater Utility is not experiencing plant operational issues with treatment capacity loadings (based on Annual Average and Monthly Peak assessments for flow, Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS), Phosphorus, or Nitrogen (TKN)). Still, I feel it is important that you recognize these issues in accordance with provisions in the Sewer Agreement. This is especially important as flows and loadings to the Treatment Plant may change with future development.

Facilities Plan

The (2020-2040) Facilities Plan was approved by WDNR on July 29, 2022. In July 2023, the Utility kicked off 3 separate construction projects recommended in the Facility Plan; UV Upgrades (Carollo), the Blower and Engine Project (AECOM), and Gas Conditioning Project (SEH). Construction general contractors, Lee Mechanical Inc. and August Winter and Sons Inc., have been making notable progress in installs and upgrades.

The Utility was approved and closed its Clean Water Fund Loan (CWFL) for funding of plant upgrade projects in October of 2023. As an Unplanned Upgraded Sewer Service Facility Project per Agreement Section 6.2, the plant upgrade costs will be distributed to all SSR parties based on the percentage share of allocated average day flow treatment capacity. The CWFL obtained by the Utility will cover the estimated \$23.5M in total costs which includes \$2.05M loan principal forgiveness to offset costs.

Lastly, the Utility is exploring options for treatment plant facilities expansion. In the 2020 Facility Plan, SSR parties (Mount Pleasant, Caledonia, and Sturtevant) expressed the need for more treatment capacity during the planning period (through 2040). The Utility has been investigating locations and land acquisitions to site a new facility in the future. The Commission has secured consulting services through AECOM and authorized the Utility to work with the City of Racine Attorney's Office to assist in acquisition matters. Each SSR party

who requested more treatment capacity was asked to reaffirm their interest in expansion. A Technical Advisory Committee or TAC has been formed from those SSR parties that requested increase in capacity. The main objectives have been to 1) reaffirm expansion is needed, 2) work with the DNR to approve an amended facility plan that recommends expansion, and 3) recommend preliminary treatment design elements to be incorporated into any new facilities.

Wastewater Collection System Projects

Regarding wastewater conveyance, it remains a prerequisite that all SSR parties seek methods to reduce collection system Inflow & Infiltration (I/I) issues. I/I is responsible for peak flow capacity exceedances and hinders treatment plant operations. All SSR parties should have developed individual Capacity, Management, Operation and Maintenance (CMOM) plans to help eliminate SSOs.

As far as regional collection system work, the Commission approved a project request from the Village of Mount Pleasant regarding a regional sewer improvement project in the Chicory Road area to remediate residential basement backups in 2022. R.A. Smith was contracted to design and manage the sewer interceptor upgrade on Chicory Road. The interceptor project, now complete, finished ahead of schedule and under budget. Strand Engineering has been contracted to design the second stage, a 1.66-million-gallon storage tank, to attenuate wet weather flow. The design for the storage tank portion of the project is complete. The Utility has been approved for a CWFL up to \$15.5M with principal forgiveness projected at \$2.1M to complete the project. The storage tank construction was bid and awarded to Miron Construction and is set to be completed in early 2026. Design, construction, and construction related services are estimated to total \$12.5M, which is \$3M under preliminary estimates.

In response to past peak flow capacity exceedance, Caledonia has completed and put into operation the Hoods Creek Attenuation Basin project, and the Central Lift Station Attenuation Basin plans have been approved by the WDNR and are anticipated to go out for bid in 2024. The Commission authorized Caledonia temporary sewer moratorium relief for sewer extensions and connections on July 28, 2020, for an undefined period. On October 17, 2024, the commission approved the Sanitary Sewer Mitigation Plan for Caledonia extending their temporary moratorium on the condition that the Village implement their plan. The Village is required to provide annual updates on its mitigation activities and strategies.

In response to its peak flow capacity exceedance, Racine has prepared a multi-point mitigation plan to reduce sanitary sewer I/I of storm water. The mitigation strategy detailed various control measures that would reduce inflow and infiltration including sewer lining projects, lateral grouting, replacement of manhole covers, and foundation drain disconnection. The plan timeline is over a 4–7-year period to achieve overall 90% peak flow mitigation from the maximum historical storm flow with annual progress updates. In approving the mitigation plan on October 17, 2022, the Commission authorized full sewer moratorium relief.

Wastewater Consultant, Brown and Caldwell, completed the Main St-Goold St area Sanitary Sewer System Improvements Study dated March 16, 2022. The DNR has notified the Utility in relation to Facilities Plan review that safety site (SS) sanitary sewer overflows (SSO) should accommodate a 5-year storm level of protection. One of these (SS02) is impacted by the Main-Goold area and the Utility has need for a project to provide wet weather protection to that location. The Utility also has need for a redundant sanitary sewer to the 48" sewer line running through the zoo property. The City was involved in the study in the interest of prospective peak flow relief through upgrading of the project. Mt Pleasant can also benefit from the Main-Goold project to provide additional capacity for its meter point MP#11, which is one of three metering points currently in sewer moratorium for past capacity exceedance. The Commission deferred a Utility request to approve the Unplanned Expanded Sewer Facility Project and Draft COSS at the November 15, 2022, meeting. Even though the Commission did approve preliminary project design tasks through Brown & Caldwell, City consultant, AECOM, has guestioned the COSS compilation. Potentially, the Technical Advisory Committee (TAC) may need to review the draft COSS as derived by Ruekert-Mielke. However, the COSS was prepared using consistent methodology used in past cost studies. An Intent to Apply application (ITA) has been submitted to the CWFL program in 2026 to qualify for funding, should the Commission choose to move forward with the project. There has been no movement on this topic in 2024.

The Utility does not plan to initiate any other regional collection system projects until wet weather issues require further implementation of the 2009 draft Storage Optimization Plan or the 2020 Facilities Plan; or an SSR Party provides a project request to the Commission.

Action Item

The moratorium related to Caledonia's peak flow capacity exceedances has been lifted with the understanding that the strategies proposed in the Sanitary Sewer Mitigation Plan are implemented in accordance with the schedule presented. Caledonia is also required to update the Commission annually in October with the progress of its mitigation strategies.

At this time, as a minimum, you need to provide a written response to the Commission indicating that you acknowledge receipt of this information. I would also encourage you to document in that letter the efforts that your community has taken in the past year or plans to take in the future to address and reduce collection system Inflow & Infiltration. The Utility requires this information as part of its DNR Collection System Report due annually by June 30th per the plant WPDES permit.

Sincerely,

nater Tillis

Nathaniel Tillis Wastewater Utility Director

c: T. Ludwig (Foth) T. Bunkelman

Attachment(s)

RACINE AREA INTERGOVERNMENTAL SANITARY SEWER SERVICE, REVENUE-SHARING, COOPERATION AND SETTLEMENT AGREEMENT Annual Notice of Allocated Capacity Usage by Party per Section V., 5.5 g. (EXHIBIT E - TREATMENT CAPACITY)

2024

ANNUAL AVERAGE DAILY CAPACITY

		Average	Day Flow		Avera	age Daily	BOD	Avera	age Daily	TSS	Avera	ge Daily I	souc	Avera	ige Daily	TKN
	Capacity	Avg	Utilized	Max Day	Capacity	Avg	Utilized	Capacity	Avg	Utilized	Capacity	Avg	Utilized	Capacity	Avg	Utilized
	mgd	mgd	%	mgd	Ibs/day	Ibs/day	%	Ibs/day	Ibs/day	%	lbs/day	lbs/day	%	Ibs/day	lbs/day	%
Racine	17.06	9.220	54.0%	53.179	14,555	7,666	52.7%	17,796	8,877	49.9%	425	166	39.0%	2,253	1,393	61.8%
Mount Pleasant	11.49	8.419	73.3%	20.348	10,173	6,405	63.0%	13,888	7,237	52.1%	290	171	59.1%	1,396	1,200	86.0%
Caledonia	5.13	4.017	78.3%	12.156	5,716	2,951	51.6%	7,054	3,067	43.5%	170	85	50.0%	901	741	82.3%
Sturtevant	1.78	0.944	53.0%	2.091	1,606	2,223	138.4%	1,981	1,367	69.0%	48	37.8	78.8%	253	374	147.7%
North Bay	0.00	0.058		0.094	0	50		0	53		0	1.2		0	9.8	
Elmwood Park	0.00	0.118		0.136	0	111		0	115		0	2.7		0	21.4	
Overall Plant	35.46	22.776	64.2%		32,050	19,405	60.5%	40,719	20,716	50.9%	933	464	49.7%	4,803	3,740	77.9%

MONTHLY PEAK CAPACITY (Daily Avg Over any Consecutive 30-day Period)

						-									
		Peak	< Monthly	Flow			Peak	Monthly	BOD			Peak	Monthly	TSS	
	Capacity	Max Day	Max	# Days	# Days	Capacity	Max Day	Max	# Days	# Days	Capacity	Max Day	Max	# Days	# Days
	mgd	mgd	%	> 95%	> 80%	Ibs/day	Ibs/day	%	> 95%	> 80%	Ibs/day	Ibs/day	%	> 95%	> 80%
Racine	23.20	15.276	65.8%	0	0	17,466	16,346	93.6%	0	30	23,313	25,070	107.5%	28	30
Mount Pleasant	15.63	12.017	76.9%	0	0	12,208	8,661	70.9%	0	0	18,194	9,514	52.3%	0	0
Caledonia	6.97	6.452	92.6%	0	52	6,859	3,558	51.9%	0	0	9,241	4,059	43.9%	0	0
Sturtevant	2.42	1.200	49.6%	0	0	1,927	3,165	164.3%	265	366	2,596	1,745	67.2%	0	0
North Bay	0.00	0.094				0	88				0	101			
Elmwood Park	0.00	0.136				0	172				0	208			
Overall Plant	48.22	35.173	72.9%			38,460	31,992	83.2%			53,344	40,696	76.3%		

MONTHLY PEAK	CAPACI	TY (Daily	Avg Ove	r any Con	secutive	30-day P	eriod)				PEAK FL	OW CAP	ACITY			
		Peak	Monthly	Phos			Peak	Monthly	TKN		Pe	ak Day Fl	MO	Pea	k Hour Fl	MO
	Capacity	Max Day	Мах	# Days	# Days	Capacity	Max Day	Max	# Days	# Days	Capacity	# Days	# Days	Capacity	# Days	# Days
	Ibs/day	Ibs/day	%	> 95%	> 80%	Ibs/day	Ibs/day	%	> 95%	> 80%	mgd	> 95%	> 80%	mgd	> 95%	> 80%
Racine	543	285	52.4%	0	0	3,019	1,775	58.8%	0	0	90.59	0	0	109.12	0	0
Mount Pleasant	371	248	66.9%	0	0	1,870	1,581	84.5%	0	6	51.71	0	0	91.04	0	0
Caledonia	218	66	45.3%	0	0	1,208	901	74.6%	0	0	18.32	0	0	24.72	0	0
Sturtevant	61	54.8	89.9%	0	26	340	516	151.8%	237	366	6.04	0	0	10.18	0	0
North Bay	0	2.2				0	17.5				0.00			0.00		
Elmwood Park	0	4.3				0	30.9				0.00			0.00		
Overall Plant	1,193	693	58.1%			6,437	4,820	74.9%			166.66			235.06		

RACINE AREA INTERGOVERNMENTAL SANITARY SEWER SERVICE, REVENUE-SHARING, COOPERATION AND SETTLEMENT AGREEMENT Annual SSR Party Notice of Allocated Capacity Usage per Section V., 5.5 g. and Allocated Capacity Maximum Historical Parameters per Section V., 5.3 i.

ANNUAL	AVERAG	E DAILY	CAPACIT	≻I	CALEDO	NIA										
		Average	Day Flow		Avera	age Daily	BOD	Avera	age Daily	TSS	Aver	age Daily	Phos	Aver	age Daily	TKN
	Capacity	Avg	Utilized	Max Day	Capacity	Avg	Utilized									
	pbu	mgd	%	mgd	Ibs/day	Ibs/day	%									
202(0 5.13	4.022	78.4%	18.769	5,716	2,305	40.3%	7,054	2,287	32.4%	170	86	50.8%	901	659	73.1%
202	1 5.13	2.717	53.0%	7.968	5,716	3,039	53.2%	7,054	2,918	41.4%	170	90	53.2%	901	745	82.7%
202	2 5.13	3.292	64.2%	17.220	5,716	2,766	48.4%	7,054	2,851	40.4%	170	84	49.7%	901	718	79.7%
202	3 5.13	3.782	73.7%	15.141	5,716	3,216	56.3%	7,054	3,853	54.6%	170	90	53.1%	901	800	88.7%
202	4 5.13	4.017	78.3%	12.156	5,716	2,951	51.6%	7,054	3,067	43.5%	170	85	50.0%	901	741	82.3%
5-yr Avg	5.13	3.566	69.5%		5,716	2,855	50.0%	7,054	2,995	42.5%	170	87	51.3%	901	733	81.3%
Historica	A Max	4.472				3,400			3,853			96			800	

MONTHLY	r PEAK C	APACITY	(Daily Av	vg Over a	ny Conse	ecutive 3(0-day Peri	(po	CALEDOI	VIA										
		Peak	Monthly	Flow			Peak	Monthly I	BOD			Peak	Monthly T	SS			Peak	Monthly F	hos	
	Capacity	Max Day	Max	# Days	# Days	Capacity	Max Day	Max	# Days	# Days	Capacity	Max Day	Max	# Days	# Days	Capacity	Max Day	Max	# Days	# Days
	mad	mgd	%	> 95%	> 80%	Ibs/day	lbs/day	%	> 95%	> 80%	Ibs/day	Ibs/day	%	> 95%	> 80%	Ibs/day	lbs/day	%	> 95%	> 80%
2020	6.97	7.612	109.2%	12	30	6,859	2,977	43.4%	0	0	9,241	3,378	36.6%	0	0	218	98	44.8%	0	0
2021	6.97	5.264	75.5%	0	0	6,859	3,444	50.2%	0	0	9,241	3,543	38.3%	0	0	218	103	47.0%	0	0
2022	6.97	6.347	91.1%	0	28	6,859	3,114	45.4%	0	0	9,241	3,657	39.6%	0	0	218	93	42.7%	0	0
2023	6.97	7.444	106.8%	39	59	6,859	3,675	53.6%	0	0	9,241	5,096	55.1%	0	0	218	103	47.3%	0	0
2024	6.97	6.452	92.6%	0	52	6,859	3,558	51.9%	0	0	9,241	4,059	43.9%	0	0	218	66	45.3%	0	0
Historical	Max	8.215					4,349					5,096					110			

		Peak	(Monthly	TKN	
	Capacity	Max Day	Max	# Days	# Days
	Ibs/day	Ibs/day	%	> 95%	> 80%
2020	1,208	787	65.1%	0	0
2021	1,208	861	71.3%	0	0
2022	1,208	871	72.1%	0	0
2023	1,208	1,186	98.2%	14	55
2024	1,208	901	74.6%	0	0
-toriool	May	1 100			

AK FLOW CAPACITY CALEDONIA

	PEAK FL	OW CAP	ACITY	CALEDO	NIA			
		Peak D	ay Flow			Peak Hc	our Flow	
	Capacity	Max Day	# Days	# Days	Capacity	Max Day	# Days	# Days
	mgd	mgd	> 95%	> 80%	mgd	mgd	> 95%	> 80%
2020	18.32	22.856	5	2	24.72	27.108	9	7
2021	18.32	5.203	0	0	24.72	8.546	0	0
2022	18.32	20.417	1	2	24.72	25.043	2	2
2023								
2024								
listorica	al Max	22.856				27.108		

2021 24 05	2020 40.52	Inches	PKEC P	PRECIP Inches 10.52 24.05 33.36 34.33 34.33 43.39	2020 2021 2022 2023 2023
2021 24 05		2020 40.52	Inches 2020 40.52	24.05 33.36 34.33 43.39	2021 2022 2023 2024

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**.

Form 3400-224(R8/2021)

Reporting Information :

Will you be completing the Annual Report or other submittal type?	$oldsymbol{O}$	Annual Report	○ Other
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Project Name:	2024 Annual Report
County:	<u>Racine</u>
Municipality:	<u>Caledonia Village</u>
Permit Number:	S050059
Facility Number:	31160
Reporting Year:	<u>2024</u>

Is this submittal also satisfying an Urban Nonpoint Source Grant funded deliverable? O 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
 - 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

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	Caledonia Village
Facility ID # or (FIN):	31160
Updated Information:	Check to update mailing address information
Mailing Address:	5043 Chester Lane
Mailing Address 2:	
City:	Caledonia Village
State:	WI
Zip Code:	53402 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 <i>create new</i> primary contact	ct
First Name:	Tony
Last Name:	Bunkelman
□ Select to <i>update</i> current contact info	rmation
Title:	Public Services Dtr
Mailing Address:	5043 Chester Lane
Mailing Address 2:	
City:	Caledonia
State:	WI
Zip Code:	53402 xxxxx or xxxxx-xxxx
Phone Number:	262-835-6416 Ext: xxx-xxx-xxxx
Email:	abunkelman@caledonia-wi.gov

Additional Contacts Information (Optional)

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

Individual with responsibility for: (Check all that apply)	 Municipal-wide Water Quality Plan Ordinances Pollution Prevention Program Post-Construction Program Winter roadway maintenance
First Name:	Todd
Last Name:	Ripley
Title:	Highway Super
Mailing Address:	6922 Nicholson Road
Mailing Address 2:	
City:	Caledonia
State:	<u>WI</u>
Zip Code:	53108 xxxxx or xxxxx-xxxx
Phone Number:	262-835-6425 Ext: xxx-xxx
Email:	tripley@caledonia-wi.gov

Municipal Billing Contact Person (Authorized Representative for MS4 Permit)

□ Select to <i>create new</i> Billing contact	
First Name:	Tony
Last Name:	Bunkelman
□ Select to <i>update</i> current contact info	rmation
Title:	Public Services Dtr
Mailing Address:	5043 Chester Lane
Mailing Address 2:	
City:	Caledonia
State:	WI
Zip Code:	53402 xxxxx or xxxxx-xxxx
Phone Number:	262-835-6416 Ext: xxx-xxx-xxxx
Email:	abunkelman@caledonia-wi.gov

1. Does the municipality rely on another entity to satisfy some of the permit requirements? Yes O No

Public Education and Outreach Root Pike WIN

✓ Public Involvement and Participation Root Pike WIN

☑ Illicit Discharge Detection and Elimination Strand & Associates

Construction Site Pollutant Control

Dest-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)?

 \bigcirc Yes o No

Minimum Control Measures- Section 1: Complete

1. Public Education and Outreach

- b. How many total educational events were held during the reporting year: 60
- c. Were any of the public education and outreach delivery mechanisms conducted during the reporting year active or interactive? \odot Yes \bigcirc 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
Education activities (school presentations, summer camps)	✓ Passive print media (brochures at front desk, posters, etc.)
□ Information booth at event	✓ Distribution of print media (mailings, newsletters, etc.) via
✓ Targeted group training (contractors, consultants, etc.)	mail or email.
Government event (public hearing, council meeting)	✓ Media offerings (radio and TV ads, press release, etc.)
✓ Workshops	✓ Social media posts
Tours	✓ Signage
Other:	✓ Website
	□ Other:

Topics Covered	Target Audience
✓ Illicit discharge detection and elimination	✓ General Public
✓ Household hazardous waste disposal/pet waste management/vehicle	✓ Public Employees
washing	Residents
Yard waste management/pesticide and fertilizer application	✓ Businesses
Stream and shoreline management	✓ Contractors
✓ Residential infiltration	✓ Developers
Construction sites and post-construction storm water management	✓ Industries
✓ Pollution prevention	✓ Public Officials
Green infrastructure/low impact development	Other:
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 the attached ROW synopsis, photo review, and supplemental materials.

Minimum Control Measures - Section 2 : Complete

2. Public Involvement and Participation

a. <u>Permit Activities</u>. 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)
✓ MS4 Annual Report	General Public	<u>101 +</u>	● Yes ○ No
✓ Storm Water Management	Public Employees		
Program	Residents		
Storm Water related ordinance	Businesses		
🗌 Other:	Contractors		
	Developers		
	Industries		
	Public Officials		
	🗌 Other		

b. <u>Volunteer Activities</u>. 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	✓ General Public	<u>101 +</u>	●Yes ○No	
	Public Employees			
	Residents			
	✓ Businesses			
	Contractors			
	Industries			
	Public Officials			
	🗌 Other			

c. Brief explanation on Public Involvement and Participation reporting. *Limit response* to 250 characters and/or attach supplemental information on the attachments page.

This education and outreach report and associated activities were produced and executed by Root-Pike WIN's Respect Our Waters Program. Please contact the program manager with questions: laura@rootpikewin.org

		Form 3400-22	4 (R8/2021)	
N	Minimum Control Measures - Section 3: Complete			
3.	3. Illicit Discharge Detection and Elimination			
a.	How many total outfalls does the municipality have?	272		
b.	How many major outfalls does the municipality have?	29		

c.	How many outfalls did the municipality evaluate as part of their routine ongoing field screening program?		29	
d.	From the municipality's routine screening, how many were confirmed illicit discharges?		0	
e.	How many illicit discharge complaints did the n	nunicipality receive?	0	
f.	From the complaints received, how many were discharges?	confirmed illicit	0	
g.	How many of the identified illicit discharges did eliminate in the reporting year (from both rout complaints)? (If the sum of 3.c. and 3.e. does not equal 3.f., please explain below.)	d the municipality ine screening and	0	
h.	What types of regulatory mechanisms does the compliance with this program? Check all that a were used in the reporting year.	e municipality have av are available and how	vailable to compel v many times each	
	✓ Verbal Warning	0		
	Written Warning (including email)	0		
	✓ Notice of Violation	0		
	Civil Penalty/ Citation	0		
	Additional Information:			
i.	Priof explanation on Illicit Discharge Detection	and Elimination rang	rting If you	

^{1.} 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.*

Caledonia performs inspections on 29 priority outfalls each year. 4 Outlets were reviewed further to see if an ID existed. 2 outfalls were not Village Outfalls. Sampling did not appear to be indicative of an ID. IDDE is adjusted for 2025 per Audit.

		Form 3400-2	224 (R8/2021)
N	1inimum 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?	44	
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?	14	
с.	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)?	118	
d.	What types of regulatory mechanisms does the municipality have ava compliance with this program? Check all that are available and how r were used in the reporting year.	ilable to compel nany times each	

✓ Verbal Warning	53
Written Warning (including email)	9
✓ Notice of Violation	0
Civil Penalty/ Citation	0
✓ Stop Work Order	3
Forfeiture of Deposit	
🗌 Other - Describe below	

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.*

_			Form 3400-224 (R8/2021
N	linimum Control Measures - Section 5 : Complete		
5.	Post-Construction Storm Water Management		
a.	How many new structural storm water management Be Practice (BMP) have received local approval ? *Engineered and constructed systems that are designed to provide storm w wet detention ponds, constructed wetlands, infiltration basins, grassed swa	est Management water quality control such as ales, permeable pavement,	3
b.	Does the MS4 have procedures for inspecting and main water facilities?	taining private storm	\odot Yes \bigcirc No
с.	If Yes, how many privately owned storm water manage inspected in the reporting year ? Inspections completed by priv included in the reported number.	ment facilities were vate landowners should be	20
d.	Does the municipality utilize privately owned storm war BMP in its pollutant reduction analysis?	ter management	● Yes ○ No
e.	Does MS4 have maintenance authority on these private ${\ensuremath{ \bullet}}$ Yes $\hfill{\constraint}$ No	ely owned BMPs?	
f.	What types of enforcement actions does the municipal compliance with the regulatory mechanism? Check all each used in the reporting year.	ity have available to co that apply and enter t	ompel he number of
	✓ Verbal Warning	3	
	Written Warning (including email)	1	
	✓ Notice of Violation	0	
	✓ Civil Penalty/ Citation	0	
	Forfeiture of Deposit	0	

✓ Complete Maintenance	0
Bill Responsible Party	0
Other - Describe below	

^{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.

Caledonia is preparing a comprehensive list of all Privately Owned Storm Water Management BMPs. The progress of this list is being submitted with this report. Inspections will resume in 2025.

		Form 3400-224 (R8/2021)
Ν	Ainimum Control Measures - Section 6 : Complete	
6	. Pollution Prevention	
S	torm Water Management Best Management Practice Inspections 🛛 Not Appli	cable
a.	Enter the total number of "municipally owned" (i.e., publicly owned BMPs) or operated (i. e., privately o wned BMPs) structural storm water management best management practices.	14
b.	How many new municipally owned storm water management best management practices were installed in the reporting year ?	3
c. d.	How many municipally owned (public) storm water management best management practices were inspected in the reporting year? What elements are looked at during inspections (250 character limit)?	8
	Outlet Structure, Safety Shelf, Side slopes, Overflow weir, Capacity of Basin	
e.	How many of these facilities required maintenance?	0
f.	Brief explanation on Storm Water Management Best Management Practice ins reporting. If you marked Unsure for any questions above, justify the reasoning. response to 250 characters and/or attach supplemental information on the	pection <i>Limit</i>

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?

- 1 0
- 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.

С	ollection Services - <i>Street Sweeping Program</i> 🗌 Not Applicable			
I.	Did the municipality conduct street sweeping during the reporting \bigcirc Yes \textcircled{O} No	year?		
m.	If known, how many tons of material was removed?	0		
n.	Does the municipality have a <u>low hazard exemption</u> for this material?	⊖ Yes ● No		
0.	If street sweeping is identified as a storm water best management pollutant loading analysis, was street cleaning completed at the ass	practice in the sumed frequency?		
	○ Yes - Explain frequency			
	○ No - Explain			
	Not Applicable			
С	ollection Services - Catch Basin Sump Cleaning Program 🗌 Not Appl	icable		
p.	Did the municipality conduct catch basin sump cleaning during the year? Yes C 	reporting)No		
q.	How many catch basin sumps were cleaned in the reporting year?	15		
r.	If known, how many tons of material was collected?	1		
s.	Does the municipality have a low hazard exemption for this material?	⊖Yes ●No		
t. If catch basin sump cleaning is identified as a storm water best management practice in the pollutant loading analysis, was cleaning completed at the assumed frequency?				
	○ Yes- Explain frequency			
	○ No - Explain			
	Not Applicable			
С	ollection 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 Village Yard Waste Site			

х.	What is the frequency of collection?
	Wednesdays & Weekends (March -
	November

y. Is collection followed by street sweeping?

○ Yes ● No

315

^{2.} Brief explanation on Collection Services reporting. Limit response to 250 characters and/or attach supplemental information on the attachments page

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)

Product	Oct	Nov	Dec	Jan	Feb	Mar
<u>Salt</u>	0	138	267	629	916	98

Liquids (gallons) (ex. brine)

	Oct	Nov	Dec	Jan	Feb	Mar
Brine	0	150	375	1200	1050	75

- $^{
 m ac.}$ Was salt applying machinery calibrated in the reporting year? \odot Yes \bigcirc No
- ^{ad.} Have municipal personnel attended salt reduction strategy training in Yes No the reporting year?

Training Date	Training Name	# Attendance		
9/16/2024	Smart Salting Workshop	7		
1/26/2024	Winter Salt Awareness Week	1		

^{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*

The Highway Department has purchased new equipment for brine (to expand current ability) and salt calibrated spreaders.

Internal (Staff) Education & Communication

- ^{af.} Has the municipality provided an opportunity for internal training O Yes No or education to staff implementing the municipality's procedures for each of the pollution prevention program element ?
 If yes, describe what training was provided (250 character limit):
- ^{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

MS4 Permit, MS4 Annual Report were discussed at the Utility District and Village Board Meetings.

Municipal Officials

The 2023 MS4 Audit has been discussed and changes have been made to several processes to meet requirements.

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

The 2023 MS4 Audit has been discussed and changes have been made to several processes to meet requirements.

^{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.

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 Storm Sewer Map is constantly being updated in GIS for information as it is gathered.

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	Budget Reporting Year	Budget Upcoming	Source of Funds		
Reporting Year		Year			
Element: Public Educ	cation and Outr	reach			
9088	5000	5000	Storm water utility		
Element: Public Invo	lvement and Pa	articipation			
9088	5000	5000	Storm water utility		
Element: Illicit Discharge Detection and Elimination					
15087	13000	13000	Storm water utility		
Element: Construction	on Site Pollutan	t Control			
10000	20000	20000	Permit fee and/or deposit/escrow		
Element: Post-Const	truction Storm	Water Managem	ient		
10000	20000	20000	Permit fee and/or deposit/escrow		
Element: Pollution F	Prevention				
15087	13000	13000	Storm water utility		
Other (describe)					
			<u>Select</u>		

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

Water Quality

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

No
Unsure
If Yes, explain below:

b: Were there any known water quality degradation in the receiving waters to which the municipality's storm sewer system directly discharges to?
○ Yes ● No ○ Unsure If Yes, explain below:

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)? \bigcirc Yes \odot 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.*

Spreadsheet of all Municipal Owned & Private Owned BMP's with Plans (if possible), Inspection of BMP's, and Changes to IDDE testing and review of Outfalls.

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
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) - <u>Help reduce file size and trouble shoot file uploads</u> *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	Мар						
IIIe Attachment	MS4 Storm Sewer Map Annual Report 2024.zip						
Attach - Other Suppo	rting Documents						
AR_EO							
Ile Attachment	2024 Synopsis - Village of Caledonia.xlsx						
<u>AR_EO</u>							
I File Attachment	2024 Photo Recap - Caledonia.pdf						
AR IDDE							
I File Attachment	Caledonia-Illicit Discharge Detection and Elimination Screening and Sampling Summary-2024 Optimized.pdf						
(To remove items, use your cu	rsor to hover over the attachment section. When the drop down arrow appears, select remove item)						

Attach - Permit Compliance Documents

CS_Program

File Attachment

Active Construction Sites 2024.xlsx

PCSSW_Program

File Attachment

Privately Owned Storm Water Ponds.xlsx

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

Sign and Submit Your Application

Steps to Complete the signature process

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

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

Terms and Conditions

Certification: I hereby certify that I am an authorized representative of the municipality covered under Caledonia Village 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:	Anthony Bunkelman
	Title:	Public Services Director
Authorized Signature. ✓ I accept the above terms and conditions.		Signed by : i:0#.f wamsmembership tbunkelman on 2025-03-25T16:38:19 You have already signed and submitted this application to the DNR. Please <u>contact</u> the Wisconsin DNR for assistance.

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

VILLAGE OF CALEDONIA			Payment Approval Report - All Utili Report dates: 9/1/2024-3/27/202	ties 25		Page: Mar 27, 2025 03:34PM		
FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title	
ACH - WE ENERGIES								
Water Utility Fund	380	ACH - WE ENERGIES	5388330299	GAS & ELECTRIC 1/29/2025-2/2	03/04/2025	3,014.47	500-00-64140 Utilities	
Sewer Utility Fund	380	ACH - WE ENERGIES	5388330299	GAS & ELECTRIC 1/29/2025-2/2	03/04/2025	11,732.48	501-00-64140 Utilities	
Storm Water Utility Fund	380	ACH - WE ENERGIES	5388330299	GAS & ELECTRIC 1/29/2025-2/2	03/04/2025	240.71	502-00-64140 Utilities	
Total ACH - WE ENE	RGIES:					14,987.66		
AQUA BACKFLOW, INC								
Water Utility Fund	127	AQUA BACKFLOW, INC	2025-0076	SITE INSPECTIONS FOR CROS	03/06/2025	675.00	500-00-62100 Contracted Services	
Total AQUA BACKFL	OW, INC:					675.00		
BADGER METER INC.								
Water Utility Fund	163	BADGER METER INC.	80188696	BEACON MBL HOSTING SER U	02/28/2025	374.85	500-00-64300 IT Maintenance & Subscriptions	
Total BADGER METE	R INC.:					374.85		
BATTERIES PLUS								
Water Utility Fund	176	BATTERIES PLUS	P80947417	BATTERIES	03/12/2025	64.85	500-00-64250 Equipment Repairs & Maintenanc	
Sewer Utility Fund	176	BATTERIES PLUS	P80947417	BATTERIES	03/12/2025	64.85	501-00-64250 Equipment Repairs & Maintenanc	
Total BATTERIES PL	US:					129.70		
BUY RIGHT, INC.								
Water Utility Fund	273	BUY RIGHT, INC.	14873-458854	2015 GMC SIERRA 3500 HD NU	02/26/2025	16.48	500-00-63300 Vehicle Repairs & Maintenance	
Sewer Utility Fund	273	BUY RIGHT, INC.	14873-458854	2015 GMC SIERRA 3500 HD NU	02/26/2025	16.48	501-00-63300 Vehicle Repairs & Maintenance	
Sewer Utility Fund	273	BUY RIGHT, INC.	14873-459901	BATTERY	03/11/2025	56.27	501-00-64250 Equipment Repairs & Maintenanc	
Water Utility Fund	273	BUY RIGHT, INC.	14873-460490	OIL FILTERS	03/17/2025	38.98	500-00-63300 Vehicle Repairs & Maintenance	
Sewer Utility Fund	273	BUY RIGHT, INC.	14873-460490	OIL FILTERS	03/17/2025	38.98	501-00-63300 Vehicle Repairs & Maintenance	
Water Utility Fund	273	BUY RIGHT, INC.	14873-461149	OIL FILTERS, AIR, OIL	03/25/2025	113.54	500-00-63300 Vehicle Repairs & Maintenance	
Sewer Utility Fund	273	BUY RIGHT, INC.	14873-461149	OIL FILTERS, AIR, OIL	03/25/2025	113.54	501-00-63300 Vehicle Repairs & Maintenance	
Water Utility Fund	273	BUY RIGHT, INC.	14873-461183	HYDRAULIC, FUEL, & AIR	03/25/2025	25.66	500-00-63300 Vehicle Repairs & Maintenance	
Sewer Utility Fund	273	BUY RIGHT, INC.	14873-461183	HYDRAULIC, FUEL, & AIR	03/25/2025	25.65	501-00-63300 Vehicle Repairs & Maintenance	
Total BUY RIGHT, IN	C.:					445.58		
CORE & MAIN LP								
Water Utility Fund	405	CORE & MAIN LP	W508379	DDP HYDT, HYD EXT, CORP ST	02/27/2025	6,409.00	500-00-64270 Infrastructure Maintenance	
Water Utility Fund	405	CORE & MAIN LP	W508381	DDP HYDT & HYD EXT	02/27/2025	6,144.00	500-00-64270 Infrastructure Maintenance	
Water Utility Fund	405	CORE & MAIN LP	W571030	6X20 REP CLP & 8X25 REP CLP	03/12/2025	975.59	500-00-64270 Infrastructure Maintenance	

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FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title
Water Utility Fund	405	CORE & MAIN LP	W580260	HYD EXT KIT, MJ RW GV OL , B	03/12/2025	5,023.16	500-00-64270 Infrastructure Maintenance
Total CORE & MAIN	LP:					18,551.75	
CUMMINS SALES AND S	ERVICES						
Sewer Utility Fund	429	CUMMINS SALES AND SERVICE	F6-250288632	HOOD CREEK GEN. AIR FILTER	02/24/2025	259.11	501-00-64250 Equipment Repairs & Maintenanc
Sewer Utility Fund	429	CUMMINS SALES AND SERVICE	F6-250288758	SERVICE CALL - CADDY VISTA	02/25/2025	653.76	501-00-64250 Equipment Repairs & Maintenanc
Sewer Utility Fund	429	CUMMINS SALES AND SERVICE	F6-250389242	SERVICE CALL - CADDY VISTA	03/05/2025	684.76	501-00-64250 Equipment Repairs & Maintenanc
Total CUMMINS SAL	ES AND SE	ERVICES:				1,597.63	
D.W. DAVIES & CO							
Water Utility Fund	437	D.W. DAVIES & CO	4005752	CREDIT MEMO ; DRUM RETUR	11/12/2024	-9.00	500-00-64260 Grounds Repairs & Maintenance
Sewer Utility Fund	437	D.W. DAVIES & CO	4005752	CREDIT MEMO ; DRUM RETUR	11/12/2024	-9.00	501-00-64260 Grounds Repairs & Maintenance
Total D.W. DAVIES &	& CO:					18.00-	
DORNER COMPANY							
Sewer Utility Fund	551	DORNER COMPANY	514905	AUMA TROUBLESHOOTING	03/24/2025	875.00	501-00-64250 Equipment Repairs & Maintenanc
Total DORNER COM	IPANY:					875.00	
FERGUSON WATERWOR	KS #1476						
Water Utility Fund	1810	FERGUSON WATERWORKS #14	0440191	VALVES, NUTS, SCREWS, ETC.	03/20/2025	6,566.04	500-00-64270 Infrastructure Maintenance
Total FERGUSON W	/ATERWOR	KS #1476:				6,566.04	
FOTH INFRASTRUCTURE	E & ENVIRO), LLC					
Sewer Utility Fund	666	FOTH INFRASTRUCTURE & EN	95703	FEB-25; TID 5 CENTRAL LIFT ST	03/18/2025	44,289.80	501-18737-000 CIP-Central Attenuation Basin
Water Utility Fund	666	FOTH INFRASTRUCTURE & EN	95714	FEB-25; SUNDANCE HEIGHTS	03/18/2025	1,052.50	500-18738-107 CIP - SUNDANCE HEIGHTS
Sewer Utility Fund	666	FOTH INFRASTRUCTURE & EN	95737	FEB-25; 3241 STH 31 SEWER A	03/19/2025	2,062.90	501-00-61340 Engineering Design Charges
Water Utility Fund	666	FOTH INFRASTRUCTURE & EN	95739	FEB-25; CALEDONIA GENERAL	03/19/2025	3,118.65	500-00-61340 Engineering Design Charges
Sewer Utility Fund	666	FOTH INFRASTRUCTURE & EN	95739	FEB-24; CALEDONIA GENERAL	03/19/2025	2,230.45	501-00-61340 Engineering Design Charges
Total FOTH INFRAS	TRUCTURE	E & ENVIRO, LLC:				52,754.30	
G & F EXCAVATING							
Water Utility Fund	687	G & F EXCAVATING	36310	3230 SHORTRIDGE DR - 1" WAT	02/27/2025	7,782.00	500-00-64270 Infrastructure Maintenance
Water Utility Fund	687	G & F EXCAVATING	36314	REPLACE WATER MAIN VALVE	03/06/2025	6,687.00	500-00-64270 Infrastructure Maintenance
Water Utility Fund	687	G & F EXCAVATING	36315	REPLACE FIRE HYDRANT @ 32	03/07/2025	5,559.50	500-00-64270 Infrastructure Maintenance

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FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title	
Water Utility Fund Water Utility Fund	687 687	G & F EXCAVATING G & F EXCAVATING	36316 36330	REPAIR HYDRANT VALVE - HW REPLACE WATER BOX @ 8420	03/07/2025 03/20/2025	5,895.00 1,940.00	500-00-64270Infrastructure Maintenance500-00-64270Infrastructure Maintenance	
Total G & F EXCAVA	TING:					27,863.50		
JOHNSON CONTROLS SE	CURITY S	OLUTIONS						
Water Utility Fund	969	JOHNSON CONTROLS SECURI	41138440	Q2-25; QUARTERLY MONITORI	03/08/2025	335.31	500-00-64150 Communication Services	
Sewer Utility Fund	969	JOHNSON CONTROLS SECURI	41138440	Q2-25; QUARTERLY MONITORI	03/08/2025	335.31	501-00-64150 Communication Services	
Total JOHNSON CON	ITROLS SI	ECURITY SOLUTIONS:				670.62		
	E							
Sewer Utility Fund	1096	KORTENDICK HARDWARE	170622	FOAMBOARD & HEAT MANUEL	02/27/2025	81.87	501-00-64240 Building Repairs & Maintenance	
Water Utility Fund	1096	KORTENDICK HARDWARE	170667	EXTENSION CORD, CONNECTO	03/03/2025	36.29	500-00-64250 Equipment Repairs & Maintenanc	
Sewer Utility Fund	1096	KORTENDICK HARDWARE	170667	EXTENSION CORD, CONNECTO	03/03/2025	36.29	501-00-64250 Equipment Repairs & Maintenanc	
Storm Water Utility Fund	1096	KORTENDICK HARDWARE	170667	EXTENSION CORD, CONNECTO	03/03/2025	36.29	502-00-64250 Equipment Repairs & Maintenanc	
Water Utility Fund	1096	KORTENDICK HARDWARE	170669	TARP & RAIN-X	03/03/2025	6.83	500-00-63300 Vehicle Repairs & Maintenance	
Sewer Utility Fund	1096	KORTENDICK HARDWARE	170669	TARP & RAIN-X	03/03/2025	6.83	501-00-63300 Vehicle Repairs & Maintenance	
Water Utility Fund	1096	KORTENDICK HARDWARE	170669	TARP & RAIN-X	03/03/2025	9.00	500-00-64070 Work Supplies	
Sewer Utility Fund	1096	KORTENDICK HARDWARE	170669	TARP & RAIN-X	03/03/2025	8.99	501-00-64070 Work Supplies	
Water Utility Fund	1096	KORTENDICK HARDWARE	170702	STAPLES, CLAMPS, LED LIGHT,	03/04/2025	19.67	500-00-64070 Work Supplies	
Sewer Utility Fund	1096	KORTENDICK HARDWARE	170702	STAPLES, CLAMPS, LED LIGHT,	03/04/2025	19.66	501-00-64070 Work Supplies	
Water Utility Fund	1096	KORTENDICK HARDWARE	170711	INFLTR GAUGE, U BOLT, HOOK	03/05/2025	9.00	500-00-63300 Vehicle Repairs & Maintenance	
Sewer Utility Fund	1096	KORTENDICK HARDWARE	170711	INFLTR GAUGE, U BOLT, HOOK	03/05/2025	8.99	501-00-63300 Vehicle Repairs & Maintenance	
Water Utility Fund	1096	KORTENDICK HARDWARE	170711	INFLTR GAUGE, U BOLT, HOOK	03/05/2025	3.58	500-00-64070 Work Supplies	
Sewer Utility Fund	1096	KORTENDICK HARDWARE	170711	INFLTR GAUGE, U BOLT, HOOK	03/05/2025	3.58	501-00-64070 Work Supplies	
Water Utility Fund	1096	KORTENDICK HARDWARE	170743	TOOL SET, ORBIT SANDER, SA	03/06/2025	109.74	500-00-64070 Work Supplies	
Sewer Utility Fund	1096	KORTENDICK HARDWARE	170743	TOOL SET, ORBIT SANDER, SA	03/06/2025	109.73	501-00-64070 Work Supplies	
Water Utility Fund	1096	KORTENDICK HARDWARE	170745	MISC FASTENERS & PROPANE	03/06/2025	10.50	500-00-64070 Work Supplies	
Sewer Utility Fund	1096	KORTENDICK HARDWARE	170745	MISC FASTENERS & PROPANE	03/06/2025	10.50	501-00-64070 Work Supplies	
Water Utility Fund	1096	KORTENDICK HARDWARE	170881	DOWN SPOUTS, PVE PIPES & P	03/13/2025	66.06	500-00-64240 Building Repairs & Maintenance	
Sewer Utility Fund	1096	KORTENDICK HARDWARE	170881	DOWN SPOUTS, PVE PIPES & P	03/13/2025	66.06	501-00-64240 Building Repairs & Maintenance	
Total KORTENDICK H	IARDWAR	E:				659.46		
LESMAN INSTRUMENT C	D .							
Sewer Utility Fund	1163	LESMAN INSTRUMENT CO.	PSI342347	CABLES, HANGERS, & CLAMPS	03/05/2025	205.56	501-00-64250 Equipment Repairs & Maintenanc	
Sewer Utility Fund	1163	LESMAN INSTRUMENT CO.	PSI344662	SUBMERSIBLE LEVEL TRANSMI	03/20/2025	2,390.40	501-00-64250 Equipment Repairs & Maintenanc	
Sewer Utility Fund	1163	LESMAN INSTRUMENT CO.	PSI345637	CABLES, CABLE HANGERS, LE	03/26/2025	2,843.83	501-00-64250 Equipment Repairs & Maintenanc	

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FUND	Vendor	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount	GL Account and Title
Total LESMAN INSTR	RUMENT C	:O.:				5,439.79	
MACQUEEN EQUIPMENT							
Water Utility Fund	9334	MACQUEEN EQUIPMENT	034182	JOYSTICK	03/19/2025	271.64	500-00-63300 Vehicle Repairs & Maintenance
Sewer Utility Fund	9334	MACQUEEN EQUIPMENT	034182	JOYSTICK	03/19/2025	814.91	501-00-63300 Vehicle Repairs & Maintenance
Total MACQUEEN EC		2				1,086.55	
MENARDS RACINE							
Water Utility Fund	1281	MENARDS RACINE	3531	TRASH CAN, FUNNEL, STEEL P	03/06/2025	19.99	500-00-64100 Janitorial Supplies
Sewer Utility Fund	1281	MENARDS RACINE	3531	TRASH CAN, FUNNEL, STEEL P	03/06/2025	19.99	501-00-64100 Janitorial Supplies
Water Utility Fund	1281	MENARDS RACINE	3531	TRASH CAN, FUNNEL, STEEL P	03/06/2025	70.52	500-00-64070 Work Supplies
Sewer Utility Fund	1281	MENARDS RACINE	3531	TRASH CAN, FUNNEL, STEEL P	03/06/2025	70.51	501-00-64070 Work Supplies
Total MENARDS RAC	CINE:					181.01	
NETWORK SPECIALIST O	F RACINE	, INC.					
Water Utility Fund	1390	NETWORK SPECIALIST OF RAC	47585	APR-25; OFFICE ANYWHERE	03/06/2025	300.00	500-00-64300 IT Maintenance & Subscriptions
Sewer Utility Fund	1390	NETWORK SPECIALIST OF RAC	47585	APR-25; OFFICE ANYWHERE	03/06/2025	300.00	501-00-64300 IT Maintenance & Subscriptions
Total NETWORK SPE	ECIALIST	OF RACINE, INC.:				600.00	
OAK CREEK WATER & SE	WER UTI	LITY					
Water Utility Fund	1423	OAK CREEK WATER & SEWER	5458	MAR-25; WATER TESTS	03/05/2025	365.00	500-00-62560 Water Sampling and Testing
Water Utility Fund	1423	OAK CREEK WATER & SEWER	5459	MAR-25; WATER TESTS	03/19/2025	365.00	500-00-62560 Water Sampling and Testing
Total OAK CREEK W	ATER & SI	EWER UTILITY:				730.00	
PARKER POWER							
Water Utility Fund	1447	PARKER POWER	17988	HYDRAULIC OIL, BELT, & FILTE	03/24/2025	112.50	500-00-64250 Equipment Repairs & Maintenanc
Sewer Utility Fund	1447	PARKER POWER	17988	HYDRAULIC OIL, BELT, & FILTE	03/24/2025	112.50	501-00-64250 Equipment Repairs & Maintenanc
Total PARKER POWE	ER:					225.00	
PAYNE & DOLAN, INC.							
Water Utility Fund	1474	PAYNE & DOLAN, INC.	10-00029873	3/4" TB	03/06/2025	63.18	500-00-64270 Infrastructure Maintenance
Total PAYNE & DOLA	N, INC.:					63.18	

VILLAGE OF CALEDONIA				Paym Rep	Payment Approval Report - All Utilities Report dates: 9/1/2024-3/27/2025				Page: 5 Mar 27, 2025 03:34PM		
FUND	Vendor	Vendor N	ame	Invoice Number		Description		Invoice Date	Net Invoice Amount		GL Account and Title
REVERE ELECTRIC											
Water Utility Fund	1629	REVERE ELECTRIC	2	S5281507.001	EATON	MAIN BREAKER		03/04/2025	441.92	500-00-64250	Equipment Repairs & Maintenanc
Total REVERE ELEC	TRIC:								441.92		
TOTAL ENERGY SYSTEM	S LLC										
Storm Water Utility Fund	1999	TOTAL ENERGY SY	STEMS LLC	INV136590	GENE	RATOR REPAIRS - 4	MILE	03/12/2025	6,031.53	502-00-64250	Equipment Repairs & Maintenanc
TOTAL ENERGY SYS	STEMS LLO	C:							6,031.53		
ULINE											
Water Utility Fund	2030	ULINE		190046280	3M SE	CURE FIT, WIPES, T	ISSU	03/06/2025	46.70	500-00-64100	Janitorial Supplies
Sewer Utility Fund	2030	ULINE		190046280	3M SE	CURE FIT, WIPES, T	ISSU	03/06/2025	46.69	501-00-64100	Janitorial Supplies
Water Utility Fund	2030	ULINE		190046280	3M SE	CURE FIT, WIPES, T	ISSU	03/06/2025	242.87	500-00-64070	Work Supplies
Sewer Utility Fund	2030	ULINE		190046280	3M SE	CURE FIT, WIPES, T	ISSU	03/06/2025	242.86	501-00-64070	Work Supplies
Total ULINE:									579.12		
Grand Totals:									141,511.19		
			_								
			<u>P/</u>	AYMENT TOTA	<u>LS BY F</u>	OND					
			Sewer Utilit	y Fund	\$	70,830.09					
			Storm Wate	er Utility Fund	\$	6,308.53					
			Water Utilit	y Fund	\$	64,372.57					
				TOTAL	\$	141,511.19					

Sundance Heights

Water & Storm Water

Contractor	A.W. Oakes					
Original Contract Pending Change Order	\$ \$	1,419,738.90 28,262.90	1.99%			
Current Contract	\$	1,448,001.80	1.99%			
Pay Request #1	\$	648,301.38				
Retainage	\$	34,121.13				
Pay Request #2	\$	318,207.15				
Retainage	\$	1,372.34				
Pay Request #3	\$	358,071.90				
Pay Request #4	\$	87,927.90				

Remaining on Contract (Including Retainage)	\$ 35,493.47	2.5%
Design Engineering	\$ 110,525.21	7.78%
Construction Services through 3/18/2025	\$ 181,401.19	12.78%
Total Project Cost	\$ 1,739,928.20	

TID #4 Phase 4 Sanitary Sewer & Watermain Extensions

Sewer & Water

Contractor	Dorner Inc				
Original Contract	\$	2,688,687.40			
Change Order #1	\$	10,446.43	0.39%		
Change Order #2	\$	184,935.90	6.88%		
Change Order #3	\$	12,697.50	0.47%		
Current Contract	\$	2,896,767.23	7.74%		
Pay Request #1	\$	104,131.87			
Retainage	\$	5,480.63			
Pay Request #2	\$	1,612,233.37			
Retainage	\$	66,621.11			
Pay Request #3	\$	640,624.29			
Retainage	\$	317.44			
Pay Request #4	\$	153,688.25			
Pay Request #5	\$	82,170.87			
Remaining on Contract	\$	303,918.58	10.5%		
(Including Retainage)					
Design Engineering	\$	289,813.37	10.78%		
Construction Services through 3/18/2025	\$	185,454.04	6.90%		
Total Project Cost	\$	3,372,034.64			

Adams Road Tower & Watermain

Water

Contractor	Landn	nark Structures I L.P.
Original Contract	\$	6,439,000.00

Current Contract	\$ 6,439,000.00	0.00%
Pay Request #1	\$ 189,145.00	
Retainage	\$ 9,955.00	

Remaining on Contract (Including Retainage)	\$ 6,249,855.00	97.1%
Design Engineering	\$ 403,115.61	6.26%
Construction Services through 3/18/2025	\$ 17,230.28	0.27%
Total Project Cost	\$ 6,859,345.89	

CALEDONIA UTILITY DISTRICT PROJECT SUMMARY WORKSHEET

Riverbend Drive Lift Station Safety Site & Forcemain Upgrade

• Currently reviewing Draft Facility Plan.

Annual Televising Program – Sanitary Sewer

• Cleaning will begin in Spring. Looking at Maps for areas that should be televised. In addition, looking at upcoming paving and infrastructure areas.

Central Lift Station Safety Site & Attenuation Basin

• Design of the Basin continues.

TID #4 Elevated Storage Tank & Adams Road Watermain

- Watermain contractor started watermain installation on March 26. Working to get out of the intersection then work way East.
- Tower Contractor will be providing construction plans in the next few months.

Western Village / Sundance Heights Watermain

• Contractor has minor work to be completed in Spring. Have started a punchlist of issues and complaints on restoration.

TID #4 Phase 4 Sanitary Sewer & Watermain Extension Project

• Contractor will be working on restoration in Spring. Have started a punchlist for items to be performed.

CALEDONIA UTILITY DISTRICT STORM WATER PROJECTS PROJECT SUMMARY WORKSHEET

Hoods Creek – Aldebaran Brushing Project

• Reached out to contractor to discuss project and progress made. Awaiting to hear back.

Turtle Creek Restoration

- Southern Wisconsin Appraisal meeting with owners to discuss easements.
- Looking to set up a meeting in the Spring with an Arborist to spray the Klema Ditch to prevent future tree growth.

4 Mile Road Tile (Club View Subdivision to Erie Street)

• Coordinating on televising some additional areas of the tile.

MEMORANDUM

DATE:	Wednesday.	March	26.	2025
	,, cancoady,	nual en		

TO: Caledonia Utility District

FROM: Anthony A. Bunkelman P.E. Public Services Director

anthory Bunkelnar

RE: Storm Water Management Plan – 10720 4 Mile Road – Upthall

BACKGROUND INFORMATION

Mark Ellena P.E. of Ellena Engineering Consultants, LLC, has prepared a Storm Water Management Plan for a new single-family home located at 10720 4 Mile Road. This property was part of CSM #3502 which required storm water management to be provided at the time of Building Permit.

This site falls under Base Storm Water Regulations. Base Storm Water Regulations are that the 100 yr. post development peak runoff must be reduced to or below the 10 yr. predevelopment peak runoff and the 10 yr. post development peak runoff must be reduced to or below the 2 yr. predevelopment peak runoff. The site must also achieve 80% Total Suspended Solids removal.

The Storm Water Management Plan meets the Ordinance by meeting the required reductions in peak flow (3.06 cfs peak 100 vs 9.09 cfs peak 10 & 0.57 cfs peak 10 vs 4.68 cfs peak 2) and the required TSS removal (94.70% TSS vs 80% TSS).

The Storm Water Management Plan and the Site Construction Plans have been reviewed by the Public Services Director and the Village Engineer. It is recommended that the Storm Water Management Plan and Site Construction Plan are conditionally approved at the April 2, 2025 Commission Meeting.

RECOMMENDATION

Move to conditionally approve the Storm Water Management Plan and Site Construction Plan for 10720 4 Mile Road subject to the following:

- 1) The Owner executes a Storm Water Pond Easement prior to obtaining Occupancy for the home.
- 2) The Owner posts a \$10,000 financial guarantee to ensure that the Storm Water Pond is constructed, asbuilted, and certified by the Design Engineer. The Storm Water Pond shall be constructed in accordance with the approved plans.
- 3) The applicant obtains all necessary permits from the Village, County and State as necessary prior to performing the project.

STORM WATER MANAGEMENT PLAN

For

10720 4 Mile Road Village of Caledonia, WI

Date: March 20, 2025

Submitted By: ELLENA ENGINEERING CONSULTANTS, LLC

700 Pilgrim Parkway - Suite 100 Elm Grove, WI 53122 Phone: 262-719-6183 Fax: 866-457-2584 Email: mellena@eeceng.com



March 20, 2025

Ryan Schmidt Village Engineer Village of Caledonia 504. Chester Lane Racine, WI 53402

Re: Storm Water Management Report 10720 4Mile Road Village of Caledonia, WI

Dear Ryan,

On behalf of the Owner of the above parcel of land in the Village of Caledonia, and in accordance with the Village's Storm Water Management Program, we are submitting the following Storm Water Management Report for your review and approval. The site is approximately 5.77 Ac (TaxKey: 104042220049400), and is located at the NW corner of County Highway H and Four Mile Road in the Village of Caledonia. The existing site consists of row crops and a lightly wooded area on the north property line and primarily contains class C type soils as shown in the soil map located in the Appendix. The site exists primarily at elevations below the adjacent roadways and drains northerly to the PEC. Infiltration has also been evaluated for the site and it has been determined that the site is exempt from the infiltration requirements, due to the high ground water and existing soils present throughout the property. An existing drainage map of the drainage area can be found in the Appendix.

The proposed development area consists of single family home and driveway. The developed area will add approximately 0.21 acres of impervious surface to the site and disturb 1.7 acres. Storm water will be conveyed to a single storm water basin located in the Northeast of the subject property and slow discharge to the PEC. The majority of the lot will remain undisturbed and will also drain to the basin.

This report contains hydrologic data to meet or exceed your Storm Water requirements. Specifically, we have shown development compliance Village Ordinance Title 9-2. The 100 year (post) developed conditions shall be reduced to the 10 year (pre) existing condition and the 10 year post reduced to the 2 year (pre) existing condition. Also the developed area will be required to provide 80% TSS removal.

The water quality design features of a relatively large basin designed to remove, on an average annual basis, a minimum of 80% of the total suspended solids loading per the WDNR requirements set forth in Chapter NR151.

The computer model used in our analysis is based on the TR-55 runoff curve number methodology, Atlas 14 precipitation depths and NRCS Wisconsin MSE3 precipitation distribution. The following data summarizes our findings:

	ATLAS 14 PRECIPITATION DEPTHS					
Return Period (Years)		2	10		100	
Precipitation Depth		2.67	3.77		5.92	

EXISTING CONDITIONS:

Drainage	Area	CURVE	Tc	2yr	10yr	100yr
Area	(Ac)	NUMBER		Peak	Peak	Peak
		(CN)*		Discharge	Discharge	Discharge
EX1	4.20	78*	15.0	4.68	9.09	18.75

*The existing runoff curve number is calculated on the existing conditions & a Type C soils type per the SCS Maps.

PROPOSED CONDITIONS:

Drainage	Area	CURVE	Tc	2yr	10yr	100yr
Area	(Ac)	NUMBER		Peak	Peak	Peak
		(CN)		Discharge	Discharge	Discharge
PR1	4.10	75	17.1	3.40	7.12	15.49
PR2	0.10	74	10.0	0.10	0.21	0.45
Total	4.20					

PROPOSED CN CALCULATION AREA PR1 (DEVELOPED AREA)

SOURCE AREA CHARACTERISTIC	AREA (Ac)	RUNOFF COEFFICIENT (CN)	AREA X CN	COMPOSITE CN
Roof	0.11	98	10.78	
Drive	0.10	98	9.80	
Green Areas	3.89	74	278.86	
Total	4.10		308.44	308.44/4.10=75.23=75

As previously mentioned, we have designed the single lot development for compliance of peak runoff rates under proposed conditions with acceptable release rates corresponding to the pre-development 2 and 100 year events. The 100 year (post) developed conditions shall be reduced to the 10 year (pre) existing condition and the 10 year post reduced to the 2 year (pre) existing condition. The 100 year proposed storm was also used to establish an emergency overflow design and a plugged outlet analysis.

The storm water management facility was designed to collect the onsite developed drainage area (PR1) using the above results and design criteria per your regulations. The following tables present the results of our storm water management design for the biofiltration basins:

TABLE NO. 1

2 YEAR DESIGN FREQUENCY						
BIO POND OUTLET WATER SURFACE STORAGE						
FILTRATION	FLOWRATE	ELEVATIONS (ft)	VOLUME (Ac-Ft)			
POND	(cfs)					
PR1	0.24	714.42	0.152			

TABLE NO. 2

10 YEAR DESIGN FREQUENCY						
BIO	POND OUTLET	WATER SURFACE	STORAGE			
FILTRATION	FLOWRATE	ELEVATIONS (ft)	VOLUME (Ac-Ft)			
POND	(cfs)					
PR1	0.56	714.85	0.307			

IABLE NO. 3							
100 YEAR DESIGN FREQUENCY							
BIO POND OUTLET WATER SURFACE STORAGE							
FILTRATION	FILTRATION FLOWRATE ELEVATIONS (ft) VOLUME (Ac-Ft						
POND	(cfs)						
PR1	3.00	715.49	0.577				
PR1-PLUGGED	0.67	716.07	0.840				

TADLE NO 3

The following table presents the results of the proposed discharge compared to the total allowable discharge for the site. The undetained area P2 was added to the pond discharge (Area P1) to determine the total proposed discharge for the entire site.

TABLE NO. 4POST PEAK FLOW SUMMARY TABLES

STORM EVENT	EXISTING RELEASE RATE	TOTAL PROPOSED DISCHARGE RATE
10	4.68 (2 yr)	0.57
100	9.09 (10yr)	3.06

WATER QUALITY:

A bio-filtration basins are designed to remove, on an average annual basis, a minimum of 80% of the total suspended solids loading per the WDNR requirements set forth in Chapter NR151 for this site. An analysis was conducted with the WDNR WinSLAMM model (see attached as recommended by the WDNR) resulting in the TSS removal of 94.70% and a Total Phosphorus removal of 94.59%.

CONCLUSION:

In conclusion, the proposed bio-filtration basins have been designed to treat and slow release runoff so that the 100 year (post) developed conditions shall be reduced to the 10 year (pre) existing condition and the 10 year post reduced to the 2 year (pre) existing condition. In addition, bio-filtration basins are designed to remove, on an average annual basis, a minimum of 80% of the total suspended solids loading per the Village and WDNR requirements.

The stage-storage discharge information for these facilities has been included along with the hydrologic report data for you use.

Please do not hesitate to contact us if you should need further information to complete your review.

Sincerely,

Ellena Engineering Consultants, LLC

Marh R. Slena

Mark R Ellena, P.E. ELLENA ENGINEERING CONSULTANTS, LLC





PR1: TYPICAL EAST-WEST CROSS-SECTION



PIPE JOINT BOLTING DETAIL



MEMORANDUM

DATE: Wednesday, March 26, 2025

TO: Caledonia Utility District

FROM: Anthony A. Bunkelman P.E. Public Services Director

anthory Bunkelman

RE: Sewer Backup – 9803 Caddy Lane – Renate Gray

BACKGROUND INFORMATION

On January 16, 2025, the Caledonia Utility District was contacted for a watermain break at 9803 Caddy Lane. Upon inspection, there indeed was a watermain break and G & F Excavating was contacted to excavate and repair. Due to it being later in the evening, it was determined to perform the repair the next morning. Around 8:00am on January 17th, the watermain was shut off and the watermain break was isolated. The watermain break consisted of a shear of the watermain right at the corporation for the water service at 9803 Caddy Lane. Due to the initial construction of the water service being directly over the sanitary sewer service, a 6' portion of the sanitary sewer lateral was repaired/replaced as it was damaged during the watermain repair.

On March 10, 2025, the Caledonia Utility District was contacted for a sanitary sewer backup at 9803 Caddy Lane. The owner, Renate Gray, had hired Roto Rooter over the weekend to open the lateral. Utility District staff televised the sanitary sewer lateral and it was clear that a portion of the existing lateral that the repair was connected to had broken and fell within the lateral flow path. G & F Excavating came back out to repair the sanitary sewer lateral on March 11th. In addition, the Utility District staff televised the sanitary lateral at the repair, both directions (to the main & to the house) to ensure that the balance of the lateral was in acceptable condition.

Due to the sewer backup being caused by what appears to be a direct result of the sewer repair from the watermain break, it is recommended that the Caledonia Utility District pay for Roto Rooter to come out to open the sanitary lateral. As a condition of payment of the invoice from Roto Rooter, the owner would be required to sign a Release of All Claims form.

RECOMMENDATION

Move to recommend paying the Roto Rooter invoice in the amount of \$1,068.10 with the condition of the Owner signing a Release of All Claims form and forward this item to the Committee of the Whole for recommendation.



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MEMORANDUM

DATE	Wednesday	March	26	2025
DATE.	weunesuay,	wiai cii	40,	2023

TO: Caledonia Utility District

FROM: Anthony A. Bunkelman P.E. Public Services Director

anthory Bunkelman

RE: Professional Services Agreement – Cathodic Protection for Lift Stations & Water Towers – Cathodic Protection Management, Inc.

BACKGROUND INFORMATION

The Caledonia Utility District has Cathodic Protection on 8 lift stations and all 3 water towers. Cathodic Protection is a necessary protection for metal structures used to slow down or stop the corrosion of the metal the structure is made of. These systems effectively extend the service life of these metal structures.

The Cathodic Protection in some of the lift stations and all of the towers have not been serviced or reviewed for some time. The recently replaced systems in the Lighthouse Drive Lift Station, Dominican Lift Station, & Caddy Vista Lift Station should be inspected to ensure they are in working order.

Caledonia Utility District staff has reached out to Cathodic Protection Management, Inc., who installed the recently replaced systems, for a Professional Services Agreement to inspect all the systems. The proposal is to inspect, evaluate, and adjust the systems as necessary at the 11 locations. This 3-year service agreement is for years 2025, 2026, & 2027. The cost per year for this Agreement is \$9,400.00. This cost would be split between the Sewer Utility (\$6,836.36) and the Water Utility (\$2,563.64). The account for this expenditure would be the Equipment Repairs & Maintenance budget from each Utility.

It is recommended that the Professional Services Proposal for Cathodic Protection for the 11 facilities be accepted, and the signature of the President of the Utility District is authorized.

RECOMMENDATION

Move to approve the 3-year Professional Services Agreement for Cathodic Protection Inspections for an annual cost of \$9,400 and total cost of \$28,200 split between the Sewer Utility (\$6,836.36 annual, \$20,509.08 total) and the Water Utility (\$2,563.64 annual, \$7,690.92 total) and authorize the President of the Caledonia Utility District to execute the proposal with Cathodic Protection Management, Inc.



March 10, 2025

Village of Caledonia Village Hall 5043 Chester Lane Racine, WI 53402

Attention: Mr. Tony Bunkelman Director, Public Services

Reference: Three-year Cathodic Protection Inspection Service Agreement for the Following Structures and Locations:

- Lighthouse Drive Lift Station
- Wind Point Lift Station
- Wind Meadows Lift Station
- North Main Street Lift Station
- Dominican Lift Station
- West Johnson Lift Station
- Hoods Creek Lift Station
- Caddy Vista Lift Station
- Tower 1 (Storage Drive) Water Tower
- Tower 2 (7 Mile Road) Water Tower
- Crestview Water Tower

Dear Tony,

We are pleased to submit the attached Three-Year Service Agreement for your consideration. Under the Agreement, Cathodic Protection Management will perform the Annual Cathodic Protection System inspection on the above-referenced structures and locations

At Cathodic Protection Management, Inc., we understand the importance of maintaining the integrity and efficiency of the Utility district's assets. This agreement has been tailored to ensure that ALL of the above-mentioned structures receive expert care while providing several key benefits to the Village of Caledonia:

- **Stable Pricing:** With a fixed pricing structure for the next three years, your department can plan confidently without concern for cost fluctuations.
- **Cost Savings:** Having the structures inspected at the same time reduces the extra costs associated with multiple mobilizations and demobilizations.
- **Reduced Staff Burden:** By entrusting these critical annual inspections to our experienced team, your city staff can focus on other priorities without the need to monitor or manage cathodic protection inspections.
- **Comprehensive Reporting:** Our detailed reports will include all test data and actionable recommendations, ensuring you have the information needed to make informed decisions.
- **Compliance Assurance:** Our inspections and adjustments will align with the National Association of Corrosion Engineers (NACE) International criteria, keeping your systems compliant with industry standards.

We value the opportunity to partner with the Village of Caledonia and are confident that this agreement will provide a reliable, efficient solution for your cathodic protection needs. Please review the enclosed document, and do not hesitate to reach out with any questions or requests for clarification.

To ensure the scheduling and timely execution of services, we kindly request that the signed agreement be returned no later than March 26, 2025.

Thank you for considering Cathodic Protection Management, Inc. as your trusted partner. We look forward to supporting the Village of Caledonia in maintaining the integrity of its critical infrastructure.

Sincerely,

Bill Carlson, Jr./Michael Cullotta Cathodic Protection Management wcarlson@corrosionspecialists.com 224-523-3582





Three (3) Year Cathodic Protection Inspection Service Agreement

This Service Agreement ("Agreement") is entered into by and between Cathodic Protection Management, INC ("Service Provider"), located at 39W960 Midan Drive, Elburn, IL 60119, and the Village of Caledonia, WI. Utility District ("Client"), located at 333 4 ½ Mile Road, Racine, WI. 53402

Scope of Work The scope of work includes the following:

- Location:
 - Lighthouse Drive Lift Station
 - Wind Point Lift Station
 - Wind Meadows Lift Station
 - North Main Street Lift Station
 - Dominican Lift Station
 - West Johnson Lift Station
 - Hoods Creek Lift Station
 - Caddy Vista Lift Station
 - Tower 1 (Storage Drive) Water Tower
 - Tower 2 (7 Mile Rd) Water Tower
 - Crestview Water Tower
- o Inspect the existing cathodic protection system rectifier.
- Collect ON Structure-to-Electrolyte (S/E) potentials, where appropriate.
- Evaluate the level of cathodic protection.
- If necessary, adjust the rectifiers to meet the National Association of Corrosion Engineers (NACE) International criteria for cathodic protection, where possible.
- Provide a written report to include all test data and recommendations for any necessary upgrades or services to return the system to its optimum operation.

Term This Agreement shall apply to the calendar years 2025, 2026, and 2027.

Pricing The annual cathodic protection inspection will cost **\$9,400** (Nine Thousand Four Hundred) dollars. The pricing structure shall remain fixed for the duration of this Agreement.

Payment Terms The Village of Caledonia, WI. agrees to pay Cathodic Protection Management within 30 days of receiving an invoice for the Services performed. Invoices shall be submitted upon completion and delivery of the annual inspection report.

Execution Deadline To ensure proper scheduling and timely execution of the services, this Agreement must be signed and returned by the Client no later than March 26th, 2025.

MEMORANDUM

DATE:	Wednesday, March 26, 2025	
то:	Caledonia Utility District	
FROM:	Anthony A. Bunkelman P.E. Public Services Director	anthory &
DE		

Sunhelman

RE: Wind Point Watermain Project – 4 Mile Road – Village of Wind Point

BACKGROUND INFORMATION

Scott Rewolinski of the Village of Wind Point reached out on March 13th to inform the Village of Caledonia & the Caledonia Utility District that Wind Point is proposing to replace the Wind Point watermain on 4 Mile Road from the 4 Mile Road Wholesale Meter Pit to Lighthouse Drive. In addition to the watermain replacement, they are looking to reconstruct 4 Mile Road from Lighthouse Drive to North Main Street. This project is proposed to be bid in late 2025, early 2026.

This is the first of several watermain replacement projects that Wind Point is looking to perform to improve the reliability of their system. Wind Point is ultimately proposing to replace the watermain on 4 Mile Road, Lighthouse Drive, and 3 Mile Road. This multi-year project will effectively replace the watermain loop between the Wholesale Meter Pits that serve all of Wind Point.

The reasons that Rewolinski reached out are the following:

(1) He asked if the Caledonia Utility District would be interested in replacing the Caledonia watermain from North Main Street to the Wholesale Meter Pit, including the Wholesale Meter Pit. This 12" Cast Iron watermain and concrete meter pit was initially installed in 1966 and is beyond its useful service life (50 years). The watermain at Birch Creek Road is also potentially affected by this project. The 6" Cast Iron watermain that serves Birch Creek Lane was also installed in 1966. Due to the pavement condition of Birch Creek Lane, it would only be recommended to replace the watermain to the first water valve to get out of the 4 Mile Road pavement replacement area.

Recommend replacing approximately 1,125' of 12" watermain, 52' of 6" watermain, and the concrete meter pit.

(2) With the road reconstruction portion of the project, the Caledonia Utility District will need to adjust the sanitary sewer manholes along 4 Mile Road to the new grades. There are approximately 24 sanitary sewer manholes that will need to be adjusted depending on the final cross section that Wind Point selects. The Caledonia Utility District performed the Wind Point Sanitary Sewer Rehabilitation Project in 2019, which replaced, grouted and lined portions of the sanitary sewer main. The sanitary sewer should be in good shape, but it is recommended that the approximate 7,166' of sanitary sewer main affected by this project be

televised to ensure that there are no problems that have arisen since the 2019 rehab project. There are also 51 sanitary sewer laterals (40 Wind Point customers, 19 long side 21 short side & 11 Caledonia customers all short side) off the gravity sanitary sewer along 4 Mile Road. It is also recommended that the condition of the laterals be reviewed and potentially replaced to the Right of Way line with a cleanout as part of this project.

Recommend adjusting the approximately 24 sanitary sewer manholes, televise approximately 7,166' of sanitary sewer main, and review the condition/material of the sanitary sewer laterals to determine if they need to be replaced.

(3) The portion of 4 Mile Road from North Main Street to the Village Border (approximately 915') has dual jurisdiction. The North side is the Village of Caledonia, and the South side is the Village of Wind Point. If this portion of the project is performed the Village of Wind Point will require a cost share.

Defer to the Village Board to determine how to handle the 915' of dual jurisdiction on 4 Mile Road.

Attached is the preliminary existing conditions survey that Caledonia has been asked to review to identify all the infrastructure is shown, the potential cross section that Wind Point has yet to vote on, the 1966 watermain and wholesale meter pit asbuilts, and a sample water meter pit.

RECOMMENDATION

Move to direct Caledonia Utility District staff to work with the Village of Wind Point on the 4 Mile Road Watermain Replacement & Road Reconstruction for the following:

- 1. Replace the 1966 12" Cast Iron Watermain, the 1966 6" Cast Iron Watermain (within the 4 Mile Road Pavement for Birch Creek Lane), Water laterals & Hydrants from North Main Street to the Wholesale Meter Pit (approximately 1,125' 12" watermain, 52' of 6" watermain, 12 1-1/4" laterals and 3 hydrants)
- 2. Replace the 1966 Wholesale Meter Pit
- 3. Televise approximately 7,166' of Sanitary Sewer
- 4. Determine if the 51 Sanitary Sewer laterals need to be replaced.
- 5. Adjust the 24 Sanitary Sewer Manholes as necessary.





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PROPOSED TYPICAL SECTION 4 MILE ROAD

ALTERNATE 2

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		rosmith	CREATIVITY BEYOND ENGINEERING	Brookfield, WI Milwaukee, WI Cedarburg, WI Nape
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MEMORANDUM

DATE:	Thursday.	March	27.	2025
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TO: Caledonia Utility District

FROM: Anthony A. Bunkelman P.E. Public Services Director

anthory Bunkelnar

RE: Storm Water Management Plan & Site Grading Plan – 8332 Northwestern Avenue, Gifford School Addition – Racine Unified School District

BACKGROUND INFORMATION

Jason J. Christensen, P.E. of Nielsen, Madsen & Barber S.C. has prepared a Storm Water Management Plan and a Site Construction Plan for a proposed addition at Gifford School located at 8332 Northwestern Avenue. Improvements include the following: gymnasium, locker rooms, restrooms, offices, storage rooms, upgrades to the HVAC system and modifications to the parking lot.

The proposed improvements require an update to the existing Storm Water Management Plan for the site, which was done with the School Addition in 2015 and updated in 2023 with the North Parking Lot Expansion. This site falls under Stream Protection Storm Water Regulations. Stream Protection Storm Water Regulations are that the 100 yr. post development peak runoff must be reduced to or below the 2 yr. predevelopment peak runoff. The site must also achieve 80% Total Suspended Solids removal.

The Storm Water Management Plan meets the Ordinance by meeting the required reductions in peak flow (6.87 cfs peak 100 vs 15.22 cfs peak 2) and the required TSS removal (85.37% TSS vs 80% TSS). Based on the updated Storm Water Management Plan there are no additional modifications necessary to the existing storm water pond on the property.

The Site Construction Plan provides the Utility Plan (Sanitary Sewer lateral, Private Storm Sewer Replacement & Extensions), Grading Plan, Erosion Control Plan, and Details. The review letter dated February 18, 202 outlines changes to the plans to meet Village & Utility District Standards. After reviewing the March 13, 2025 plans set, all plan related comments have been addressed.

The Storm Water Management Plan and Site Construction Plan have been reviewed by the Public Services Director and the Village Engineer. It is recommended that the Storm Water Management Plan and Site Construction Plan are conditionally approved at the April 5, 2025 Commission Meeting.

RECOMMENDATION

Move to conditionally approve the Storm Water Management Plan and Site Construction Plan for the Gifford School Addition at 8332 Northwestern Avenue subject to the following:

- 1) Racine County approval of the culvert replacement and road ditch modifications.
- 2) If Racine County requires the Village of Caledonia to obtain the Road Opening Permit for the Sanitary Sewer lateral, a Financial Guarantee is paid to the Village ensuring the work is completed according to the plans. The Financial Guarantee shall cover the Racine Unified Contract for the work within the Racine County Right of Way.
- 3) The Sanitary Sewer in the Racine County Right of Way shall be installed by a Caledonia Utility District approved contractor.
- 4) The applicant obtains all necessary permits from the Village, County and State as necessary prior to performing the project.

STORM WATER MANAGEMENT PLAN

GIFFORD SCHOOL

Village of Caledonia Racine County, Wisconsin

March 13th, 2025



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Appendix A – Soil Map

Appendix B – Storm Sewer Sizing Calculations and Exhibit Appendix C – WinSLAMM Water Quality Analysis Appendix D – HydroCAD Routing Details Appendix E – Drainage Exhibit Maps

Appendix F-2015 (NMB) and 2023 (Ruekert & Mielkie) SWMP Reports

PREPARED FOR

James Hooper Racine Unified School District 3109 Mount Pleasant Street Racine, WI 53406 Ph: (262) 635-5600 Email: james.hooper@rusd.org

PREPARED BY

Jason J. Christensen, P.E. Nielsen Madsen + Barber 1458 Horizon Blvd., Suite 200 Racine, WI 53406 Ph: (262) 634-5588 Email: jchristensen@nmbsc.net



INTRODUCTION

Nielsen Madsen + Barber (NMB) was retained by Racine Unified School District to prepare a Storm Water Management Plan for the Gifford School redevelopment project located at 8332 Northwestern Avenue in the City of Racine.

In 2015, NMB prepared a stormwater management plan (SWMP) for the school building additions, playground, and a parking lot. A wet retention basin was first developed. The analysis included the proposed area draining to the basin and the undetained existing developed area at that time (for which stormwater requirements did not apply).

In 2023, Ruekert & Mielkie, Inc. prepared a SWMP for a parking area extension on the north side of the site and a future building near the northwest corner of the existing building. The plan proposed enhancement to the existing basin to achieve the required stormwater quality and quantity control. The analysis only included the area draining to the basin.

The 2015 and 2023 SWMP reports can be found in Appendix "F".

The proposed redevelopment includes a previously approved building addition and an expanded hard surface play area. It also includes the required redesign of the sidewalk, driveway and storm sewer following the building addition. The proposed SWMP will exhibit that all the stormwater management requirements outlined in the previous development stormwater management plans and any additional requirements per the WDNR NR 151, and the Village of Caledonia Stormwater Management Ordinance are fulfilled using the existing stormwater retention basin designed by Ruekert & Mielke in 2023.

DESIGN CRITERIA

Total Suspended Solids Load Reduction

The WDNR Chapter NR 151 and the Village of Caledonia Stormwater Management Ordinance require an 80% reduction of the Total Suspended Solids (TSS) load for a new development and a 40% reduction of the TSS load for newly added and redeveloped parking lots and driveways.

Peak Discharge Management

WDNR Chapter NR 151 requires that the peak discharge rate for the post-developed 1-year and 2-year, 24-hour rainfall events does not exceed the pre-developed peak discharge rates for the same recurrence interval events, respectively. There is an exemption for a redevelopment post-construction site per NR151.123(2)(b).

The site is part of Caledonia Hoods Creek Watershed. The Village of Caledonia Stormwater Management Ordinance requires that the peak discharge rate for the post-developed 2-year, 10-year, and 100-year, 24-hour rainfall event does not exceed the pre-developed peak discharge rates for the 2-year, 24-hour rainfall event.

Infiltration

The WDNR Chapter NR 151 and the Village of Caledonia Stormwater Ordinance requires that institutional development sites infiltrate at least 75% of the pre-development infiltration volume. As a redevelopment, the project is exempted from the infiltration requirements of both the WDNR and the Village of Caledonia.

Protective Areas

WDNR Chapter NR 151 and the Village of Caledonia Post-Construction Stormwater Management Ordinance require developments to provide varying impervious surface setbacks from water bodies and wetlands. As a redevelopment, the project is exempted from the protective area performance standards of both the WDNR and the Village of Caledonia.

Method of Analysis

The storm water analysis was made using HydroCAD 10.20-5c which utilizes United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS), Technical Release No. 55 (TR-55) methodology. The NRCS MSE3 precipitation distribution was used along with the following NOAA Atlas 14, Volume 8, Version 2 precipitation depths:

Table 1- Rainfall Data		
Recurrence Interval Precipitation Depth		
(year)	(inches)	
1	2.35	
2	2.67	
10	3.77	
100	5.92	

WinSLAMM V10.5 was utilized to analyze the water quality of the Post-Developed runoff.

PRE-DEVELOPED CONDITIONS

The Pre-Developed drainage area was delineated to match the proposed disturbance limits for comparison purposes to the post-developed conditions. It was analyzed with the land use conditions present before any development at the site. A Pre-Developed Conditions Map can be found in Appendix "E" of this report. The Pre-Developed drainage area is further described as follows:

Sub-basin PRE-1 (12.15 Acres, CN 77) is the area within the proposed disturbance limit. It includes an open space with grass. Time of concentration value has been maintained as it was in the 2023 SWMP.

POST-DEVELOPED CONDITIONS

Analysis Area Comparison

The 2015 SWMP report (prepared by NMB) proposed three sub basins (sub drainage areas) as shown in Table 2. North Basin was the area (8.47 ac) draining to the then proposed wet retention basin. School Basin was the area being captured by the storm sewers and draining to the northeast corner of the site. South Basin was the area draining to the south side of the site.

The 2023 SWMP report (prepared by Ruekert & Mielkie) proposed enhancement to the wet retention basin storage capacity by expanding it. It also added a 1.23 acres drainage area from School Basin to North Basin. The basin drainage area totaled 9.70 acres. The retention basin drainage area boundary in 2023 report is shown in the Post-developed Conditions Map for reference.

Per the proposed project, the new building and part of the driveway and sidewalks will drain to North Basin. Also, the building location will disconnect the existing west side parking area from the storm sewers discharging to the northeast. That west parking lot will be diverted from School Basin to North

Basin, adding 2.11 acres to the basin drainage area shown in the 2023 SWMP. The total basin drainage area will be 11.81 acres.

The remaining 0.34 acres will flow undetained and picked up by the storm sewers discharging to the northeast corner.

Table 2-Area Comparison						
	NMB 2015	Drainage Area acres	RM 2023	Drainage Area acres	NMB 2024	Drainage Area acres
To Wet Retention Basin	North Basin	8.47	Proposed	9.70	DEV-1, DEV 2	11.81 (9.93 +1.88)
To storm sewer discharging to the northeast corner of the site	School Basin	11.72			UND-1	0.34
Overland flow	South Basin	3.25				
Total Project Analysis Area		23.44		9.70		12.15

DEV-Developed, UND-Undetained

Post-Developed Conditions

Post-Developed conditions consist of parking lots, buildings, sidewalks, and open space. A Post-Developed Conditions Map can be found in Appendix "E" of this report.

The post-developed drainage area has been divided into three sub-basins as follows:

Sub-basin **DEV-1 (9.93 Acres, CN 87)** is the area tributary to the retention basin. It includes proposed building addition, existing parking lots, sidewalks, existing and expanded play area, and lawn.

Sub-basin **DEV-2** (1.88 Acres, CN 93) is the diverted west side parking area tributary to the retention basin. It includes a small overhang roof, parking lot, sidewalks, and lawn.

Sub-basin UND-1 (0.34 Acres, CN 94) is the undetained area. It includes the proposed driveway, sidewalks, and lawn. It will drain to the existing storm sewer discharging to the northeast corner of the site. Out of 0.34 acres, 0.185 acres will be diverted from North Basin to School Basin due to grading changes necessary for the new driveway.

DESIGN SUMMARY

Soil Data and Infiltration

Existing soils have been reviewed using the Web Soil Survey developed by the USDA NRCS. The Web Soil Survey indicates Markham Silt Loam, Elliott silt Loam, and Elliott Silty Clay Loam throughout the site. The pre-development and post-development CN's have been developed utilizing Hydrologic Soil Group "C" soils. The Web Soil Survey map for this site can be found in Appendix "A" of this report.

The proposed site is a redevelopment site and hence it is exempt from the WDNR Chapter NR 151 and Village of Caledonia requirement.

Total Suspended Solids Load Reduction

As stated before, NR 151 and the Village of Caledonia require an 80% reduction of the Total Suspended Solids (TSS) load for a new development and a 40% reduction of the TSS load for newly added and redeveloped parking lots, respectively. The proposed development is a combination of previously approved new development (e.g. new building) and redevelopment (e.g. parking lot/driveway upgrades).

There is no stormwater requirement applicable to the undisturbed part of the west side parking lot diverted to the retention basin and the redeveloped sidewalk and lawn area. Hence, the TSS removal requirement was applicable to 10.04 acres out of the analysis area of 12.15 acres.

Two WinSLAMM models have been prepared for the required post-developed TSS analysis.

The **first model (TSS Load)** was developed to determine the total pollutant loading generated from the area for which the requirement was applicable (10.04 acres as described above). Based on the % removal requirement for each drainage area, a weighted average % was calculated. This weighted average % removal was applied to the total TSS yield shown by the model. The result was the required TSS removal goal in lbs.

2023 Approved SWMP Retention Basin Area (9.70 acres) – It includes the area tributary to the basin. The land use distribution is based on the 2023 SWMP WinSLAMM model. (The 2023 SWMP used the land use type as Industrial. However, it was updated to Institutional to be consistent with the site type. The water surface was also updated from 0.750 to 0.494 to be consistent with basin surface area at EL 707.50).

Disturbed Driveway Area in UND-1 (0.071 acres)- The UND-1 area has been split in between the previously detained and undetained area due to the 2023 basin boundaries. The previously detained area was part of above 9.7 acres area and requires 80% TSS removal. Out of the undetained area, 0.071 acres will be disturbed driveway (and rest will be sidewalk and lawn). A 40% TSS removal will be applicable to the disturbed driveway area.

Disturbed Driveway Area in DEV-2 (0.266 acres)- It includes the disturbed area out of diverted west side parking lot. A 40% TSS removal will be applicable to the disturbed parking area.

Table 3 –TSS Load Model					
Area	Area acres	Required TSS Reduction %	Weighted Average %	Particulate Solids Yield Ibs	Required TSS Removal Ibs
2023 Approved SWMP Basin Area	9.70	80			
Disturbed Driveway Area in UND-1	0.071	40	78.66	3116	2451
Disturbed Driveway Area in DEV-2	0.266	40			
Total	10.04				

A WinSLAMM Area Exhibit can be found in Appendix "E" of this report.

Weighted avg-78.66= ((9.7*80) + (0.266*40) + (0.071*40))/(9.7+0.266+0.071)

The **second model (Water Quality Analysis**) was developed to determine the total pollutant reduction achieved for the areas (11.81 acres) tributary to the retention basin. The area for which TSS requirement was not applicable was connected through the other device (OD) feature to exclude the TSS removal credit. The net TSS load removed by the basin was compared to the required TSS removal goal set earlier.

Table 4 – Water Quality Analysis Model				
Area Draining to the Existing		Required TSS reduction	Proposed TSS Reduction	
Basin	Area	lbs	lbs	
	acres			
DEV-1	9.93			
Disturbed Driveway Area in DEV-	0.266	2451	2937	
2		2101	2007	
Remaining area with other device	1.62			
	1.02			
Total	11.81			

3440-503=2937 lbs

The existing basin exceeds the WDNR's and the Village of Caledonia's treatment goals by achieving a TSS reduction of greater than required 2451 lbs.

Though the TSS removal credit for 1.62 acres has not been taken into account in this analysis, the area is part of the property and treating this area will enhance the total water quality. The TSS removal credit from this area could be qualified towards a future development.

The WinSLAMM input data and the output summary can be found in Appendix "C" of this report. An Exhibit of TSS reduction applicable area can be found in Appendix "E."

Peak Discharge Management

The Village of Caledonia's Stormwater Management Ordinance requires that the peak discharge rate for the post-developed 2-year, 10-year, and 100-year, 24-hour rainfall events does not exceed the predeveloped peak discharge rates for the 2-year, 24-hour rainfall event. This requirement has been achieved through the storage within the existing wet retention basin.

The total post-developed peak discharges from the proposed project site were calculated and compared to the pre-developed peak discharge rates as follows:

	Pre-Developed	Allowable Peak	Post-Developed
	Peak Discharge	Discharge	Peak Discharge
	Cfs	cfs	cfs
Q1	11.35	11.35	1.47
Q ₂	15.22	15.22	1.84
Q ₁₀	30.09	15.22	3.74
Q ₁₀₀	62.61	15.22	6.87

Detailed sub-basin and routing information can be found in Appendix "D" of this report.

Existing Wet Retention Basin

Existing Contributory Watershed: Proposed Contributory Watershed: Existing Surface Area: Normal Water Level (NWL): Maximum side slope grade: Safety Shelf:	9.700 Acres (PRE-1) 11.81 Acres (DEV-1and DEV-2) 57,763 SF (1.33 Acres) 707.50 4:1 10' Wide (4:1 slope)
Top of Berm:	712.50
Existing High-Water Mark (HWM):	710.45
Proposed HWM:	711.09
Existing Free Board:	2.05′
Proposed Free Board:	1.41′
Discharge/ HWM (100-year) Discharge/ HWM (10-year) Discharge/ HWM (2-year) Discharge/ HWM (1-year)	6.67 cfs@711.09 3.62 cfs@709.69 1.78 cfs@708.97 1.20 cfs@708.76
Existing Multi-Stage Outlet Control Structure:	1 – 6" Orifice @ 707.50 1 – 10" Orifice @ 708.50 48" Riser with crest @ 711.00 62 LF – 18" RCP @ 0.81% Inlet/Outlet Invert = 707.50/707.00
Emergency Spillway:	10' Wide Broad Crested Weir at 712.00 100-yr HWM (Plugged condition) 1.22 cfs @ 712.09

Comparison of the post-developed peak discharges to the pre-developed peak discharges shows that the existing basin meets the peak discharge rate requirements.

CONCLUSION

The existing basin has adequate capacity to treat the 9.70 acres area approved in 2023 SWMP and additional 2.11 acres area as discussed above. Hence, the proposed project will enhance the overall water quantity and quality treatment.

We conclude that the proposed project is compliant with the Village of Caledonia and WDNR NR 151 design standards.



53 14.13 714.03 CH)	SAN 1 RIM 719.36 IE. 8" S 706.86 IE. 8" W 706.96 SAN 2	SAN 6 RIM 718.94 IE. 8" S 694.69 IE. 15" SW/NE 694.69 IE. 8" NW 706.39 IE. 10" NW 694.69
85 714.45 714.45 97 14.97	RIM 719.39 IE. 8" N 705.94 IE. 8" SW 705.84 SAN 3 RIM 717.37 IE. 8" S 705.22 IE. 8" NW 705.82 IE. 8" NE 705.52	OCS 1 RIM 712.13 IE. 18" (NE) 708.60 IE. 12" (SW) 709.39 IE. 12" (SE) 709.46
66 713.66 13.46 7	SAN 4 RIM 715.44 IE. 15" SW/NE 692.04 IE. 8" NNE 694.24 IE. 8" NNE 704.24	
/14.02	SAN 5 RIM 716.63 IE. 15" SW/NE 693.33	

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D MOUNT TRANSFORMER	►
MMUNICATION MANHOLE	Δ
MMUNICATION BOX	
MMUNICATION LINE	—x—
ARD POST	—он—







REMOVE CULVERT



UTILITY CONFLICT RESOLUTION TABLE					
LOCATION	UTILITY	BOTTOM OF PIPE	TOP OF PIPE	CLEARANCE	
A	6" SAN 6" STM	712.57 714.21	713.15 714.79	1.06'	
B	8" STM 6" SAN	713.62 708.47	714.39 709.05	4.57'	
Ô	12" WTR 6" SAN	705.15* 694.76	706.33* 695.34	9.81'*	













719.00	EXISTING SPOT GRADES
719.00	FINISHED CONCRETE PAVEMENT GRADES
719.00	FINISHED ASPHALT PAVEMENT GRADES
719.50 719.00	TOP OF CURB/FINISHED SIDEWALK GRADE FINISHED PAVEMENT GRADE
719.00	FINISHED YARD GRADE
	DRAINAGE SWALE CENTERLINE
5 C107 CT-1.5	CURB HEAD TAPER
	LIGHT-DUTY CONCRETE PAVEMENT
$\begin{array}{c} 11 \\ C107 \end{array} \begin{array}{c} + & + & + \\ + & + & + & + \\ + & + & + &$	HEAVY-DUTY CONCRETE PAVEMENT
12 C107	MEDIUM-DUTY ASPHALT PAVEMENT
13 C107	HEAVY-DUTY ASPHALT PAVEMENT
2 C107	18" VERTICAL FACE, REVERSE PAN CONCRETE CURB & GUTTER
3 C107	6" CONCRETE BARRIER CURB

x	5'-TALL BLACK VINYL-COATED CHAIN LIN FENCE WITH 10' POST SPACING
	8' TALL ALUMINUM HORIZONTAL SLAT FE
	3'-0" SINGLE PEDESTRIAN GATE
$\bigvee]$	6'-0" DOUBLE PEDESTRIAN GATE
*	30'-0" DOUBLE SERVICE GATE 5'-TALL BLACK VINYL-COATED CHAIN LIN NO PRIVACY SLATS
	32'-0" PIPE FRAME SWING GATE
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