



OFFICIAL NOTICE AND AGENDA
of a meeting of a City Board, Commission, Department
Committee, Agency, Corporation, Quasi-Municipal
Corporation, or Sub-unit thereof.

A Meeting of Wausau Water Works Commission will be held in the
Council Chambers, 1st Floor City Hall, Wausau, WI 54403 at 10:30 a.m. on
Tuesday, January 9th, 2024.

Members: Katie Rosenberg (President), Dawn Herbst, Jim Force, Joe Gehin, John Robinson

AGENDA

1. Approve Minutes of December 5th 2023 Meeting.
2. Director's Report on Utility Operations
 - Solar Array Task Force Update
 - Water Facility Construction Update
 - Wastewater Facility Construction Update
 - Wastewater Plant Continues to Discharge a Quality Effluent
 - Wastewater Lab Tech Interviews
 - 2023 CIPP Project Update
 - Lift Station Upgrade Project Update
 - 48th Ave Sanitary Interceptor Update
3. Presentation on the Development of a Lead Service Line Replacement Ordinance and Associated PSC Requirements.
4. Discussion on a Draft Lead Service Line Replacement Ordinance and Proposed Schedule.
5. Discussion on the Wastewater PFAS Sampling Results from November 2023.
6. Discussion on Utility Financial Strategies and Key Performance Indexes.
7. Discussion and Possible Action Approving Principal Forgiveness and Loan Acceptance through the WDNR Environmental Loan Fund.

Adjourn.

**Next meeting scheduled for February 6 at 1:30 P.M.*

Signed by: /s/ Katie Rosenberg, Mayor
Presiding Officer or Designee

THIS NOTICE POSTED AT CITY HALL AND EMAILED TO CITY PAGES AND DAILY HERALD: January 5th, 2024 at 10:00 a.m.

This meeting is being held in person. Members of the public who do not wish to appear in person may view the meeting live over the internet, cable TV, Channel 981, and a video is available in its entirety and can be accessed at <https://tinyurl.com/wausaucitycouncil>. Any person wishing to offer public comment not appearing in person may e-mail michelle.weasler@ci.wausau.wi.us with "Water Commission Public Comment" in the subject line prior to the meeting start. All public comment, either by email or in person, will be limited to items on the agenda at this time. The messages related to agenda items received prior to the start of the meeting will be provided to the Chair.

In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 (ADA), the City of Wausau will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs or activities. If you need assistance or reasonable accommodations in participating in this meeting or event due to a disability as defined under the ADA, please call the ADA Coordinator at (715) 261-6622 or ADAServices@ci.wausau.wi.us to discuss your accessibility needs. We ask your request be provided a minimum of 72 hours before the scheduled event or meeting. If a request is made less than 72 hours before the event the City of Wausau will make a good faith effort to accommodate your request.



Minutes of December 5, 2023

A meeting of the Wausau Water Works Commission was called to order at 1:30 p.m. in City Hall on Tuesday, December 5th, 2023. In compliance with Wisconsin Statutes, this meeting was posted and receipted for by the Wausau Daily Herald on December 4th, 2023.

Members Present: President Rosenberg, Commissioners Herbst, Robinson, Force, Gehin
Others Present: Eric Lindman, Ben Brooks, Tegan Troutner, James Henderson, Anne Jacobson, Tegan Troutner, Susan Wojtkiewicz/ Donohue, Tonia Westphal/ Clark-Dietz.

1) Approve Minutes of November 7th 2023 Meeting.

Herbst motioned to approve minutes. Seconded by Gehin.

Force questioned public engagement on the proposed LSL ordinance and if we could have updates monthly as we move forward?

Lindman replied under the contract with CIP, who drafted most of the community outreach, is heading to Council. Once signed, the information would go out to residents. CIP is going door to door communicating with homeowners directly.

Rosenberg shared CIP is working with H2N to make sure we are speaking in the language folks speak and understand.

Motion Carried 5-0.

2) Director's Report on Utility Operations.

Lindman began there are many things ongoing but one thing that has been completed is the dryer met Class A biosolids requirements so that's great news.

Force questioned the mechanical shape of the dryer because of operational issues?

Brooks replied there are still some issues but our team and supervisor Brad Wendtland has been a key player in keeping the dryer running while waiting for a new gear box to arrive and for replacement of some leaking seals by the contractors but it's operational and functioning.

Force questioned the retirement on the water report because the last sentence stating senior maintenance tech would have had only 1 year 27 days experience is concerning. Is there anything we could do to increase level of experience, are we looking to hire someone with more experience, or a training that could take place? This is very concerning.

Lindman replied we have concerns about the level of skills, we haven't had a lot of retention and had a lot of staff turnover. Tim is leaving and is our most experienced plant operator. He will be here for the next few months helping/training but he's just one individual and there's a lot going on. We are short staffed and looking at job descriptions to hire more skilled people but are not hopeful if we add a lot of additional skills with what we are paying but will try to balance that as we begin advertising these positions.

Gehin questioned if Kevin retired because that's another hole.

Lindman replied yes, he retired earlier this year.

Director's Report Placed on File.

3) Discussion on the Water Savvy Campaign and Water Conservation for Customer Outreach.

Force requested this item and began that 2 years ago we came up with this water savvy idea and developed this campaign. We can rejuvenate this for people looking to help with their water rates. What can we do that might be new or what could we do that worked in the past like rain barrels as our water usage goes up in the Summer with irrigation. He wanted to change the way the bill looks and the communications in the bill.

Herbst added there was a water savvy brochure with the initial introduction of the water savvy campaign back then, maybe something like that could go into the water bills going out quarterly. If you look at quarterly bill it's a shock but if you divide it by 3 months, it's workable.

Robinson brought up looking at means testing and going from quarterly to different frequencies of billing. There are several other elements and overall issues of affordability to look at and decreasing utilization is very important and reduces cost but are there other things we should discuss and evaluate.

Rosenberg requested we put a work group together to brainstorm concepts and topics.

Lindman stated people could pay monthly if they wanted to, we bill quarterly but we could communicate that better to the public that if they wanted to pay monthly, they could. We do have flexibility to make changes to how the bill looks that is mailed to customers.

No Action Taken.

4) Discussion on the Disposition of the Old Water Treatment Plant.

Lindman replied there is no plan for the disposition of the water plant but Economic Development had some interest to utilize the meter shop for a kayak business.

Robinson questioned if Commission or City owned the building? The County is trying to identify its surplus properties and have remnant parcels loss in surveys, tax delinquent properties, and properties not being used and trying to establish criteria. It might be good to look at if they are looking forward to developing this area. It can go on record if it doesn't have value to the Commission or Utility, we would support efforts to redevelop it.

Rosenberg sees nodding from the Attorney's office that it belongs to the city. We have this for discussion only but we could do that at a future meeting and work with economic development team to get more info and get something together for this body to weigh in formally and vote on next month.

Force questioned the taxation of Utility properties?

Lindman replied the City Council approved the Payment in Lieu of Tax (PILOT) to remain the same at \$1.59 million in total. The PSC didn't put a value at the old facility only the new water treatment facility.

No Action Taken.

5) Discussion on Staffing Demands for Upcoming Locates Beginning in 2024 for the Installation of City-wide Fiber Optic Cable by Multiple Providers.

Lindman began the utility had to put in a great amount of effort when TDS came with their fiber lines. This year Frontier, Bugtussle, and Charter will be doing this in large portions of the city. When a contractor calls in a locate, by law we have 3 days to complete the locate. If it's a relocate, then by law its 24 hrs to complete the relocate. When TDS was in, we had individuals on both the Water and Wastewater side doing locates for weeks from start to end of day and even staying overtime to complete these. We looked at contracting it out with USIC but it was over \$100k/ year so I'm not sure that's something we want to look at. There are only a couple of businesses that do that here but USIC told us they are short staffed too so it's a matter of whether they would take on that contract or not. When construction season starts, we could have more than one individual on each side just doing locates. We are doing our best to control that with our

permits issuance by reducing the areas of the permits but it's a balance. Permits issued are good for 30 days, if the contractor doesn't finish the work, they are required to request reissuance, then they get another 30 days. When locates come in, they get directed to Water and Wastewater.

Robinson questioned if there was a charge for the additional issuance of the permits? Frontier is looking to do about 10,600 sites in the County. We need to manage and make sure we are not creating double work for us.

Lindman replied yes. We sat down with Frontier, looking to bring in 6-7 crews for different construction areas and I don't know if we could keep up. We are working through it with them but it's a strain on the utility and the staff. The locates need to be done by law, and we would have to keep staff on until they are done. It's a lot of communications with the contractor on site.

Gehin questioned if we could charge for the locates?

Lindman replied, we can't. I don't know if we should reach out and contract this out and bring something back in January? I want the commission to be aware as I have concerns of trying to keep up with what's happening over the next couple of years. We've talked about adding staff from the Baker tilly study but I don't know what would be in place once this starts rolling out. Is this something the commission would consider? It's a heavy price tag to bring someone in and have them input into our GIS system, there's a lot of administrative things as well.

Force questioned if we recover costs or if this is something we could change?

Lindman replied its \$60 for each permit. We've already done the fee schedule but we could look at changing the fee. It's more of an excavation permit, we might need to separate that out for someone doing commercial driveway vs a residential area. I don't know what the balance would be but willing to have a conversation about that. There are other municipalities that struggle with this but the bigger ones have more staff and the smaller ones normally contract it out but they have less lines to locate.

Robinson questioned if contractors provide us their layouts? The County has a utility accommodation policy and some of the roads have fees based on the age of the road and could get that information to Lindman.

Lindman replied they provide us with drawings but we don't have all that information in our GIS. We don't keep outside entity in our information. I've spoken with Allen (City Engineer) and we have looked at that as well and spoken with some of the cities that have that and it may or may not be helpful. It is not our responsibility to keep track of others infrastructure, we rely on other entities to manage their own and locate their own utilities.

No Action Taken.

6) Discussion on Testing and Monitoring Wastewater for PFAS.

Brooks began we have results from the first round of testing performed October 24th, 2023, with Influent's PFOA 4.68 (ng/L) Nanograms per Liter PFOS 6.3 ng/L, Effluent's PFOA 5.86 ng/L PFOS 7.81 ng/L, and Biosolids below 8. DNR's guidance adds the PFOA/PFOS together to be 50 micrograms per kilograms, anything below 16- no action is required and our biosolids were at 7.804 so we are sitting good. Our second round of testing was sent out last Thursday.

Gehin replied our wastewater is seeing the value of the removal at the drinking water side so it saves money on one Utility. I keep going back to Well 3 that adds to our efforts in removing the level of PFAS. We should still visit this.

Lindman replied we are still having conversations with GHD (City Environmental Consultant for the Superfund Site) on their quarterly calls with the EPA/DNR that is continually brought up and no final decision yet. We do have another call with GHD and the city environmental engineer is pushing as hard as we can at this point. Our goal was to take that well offline and continue to pump well 3 as required for the superfund site requirements. We designed a discharge area but we haven't gotten the authorization to put that in place and discharge well 3 to this area and into the river. The other thing is that we've been doing minimal maintenance on the

well because we've been trying to take it offline. At some point we are going to have a sanitary survey with the DNR and we should be making improvements if its going to stay online but it's trying to get someone to decide.

Rosenberg replied because of the water issues we have here, the EPA is listening and I've been asked to join their local advisory committee so at least we will have a good seat to have these discussions and getting connected to the right people to make the best decisions.

Robinson questioned if we do any point source monitoring in the system? Maybe we can look to industries to connect and see if they can modify or change their behavior. There's recent legislation introduced requiring sampling of biosolids but on the State of Federal level, no one wants to jump onto biosolid regulation. Maine and Michigan took some leadership position but we don't want this to sneak up on us. We are getting kickback from farm groups and it's good that we are doing this. We maybe look upstream and see if it's an industrial source.

Lindman replied Brooks and I met with Schofield and talked about sampling of more industries and samples from lift stations in their collection system. Here in the city, we will be looking at certain areas to see if there are higher concentrations and focus on those areas instead of just citywide at this point. We've had those conversations but haven't acted on it yet but as we move forward, we should have more information on how that progresses.

Force questioned how much water we are pumping from Well 3 and if shutting it down would have an impact? There was news that 3M corporation contributed to the PFAS.

Lindman replied Boers has those numbers in his head but thinks its about 1,000-1,200 gallons per minute. It's not just 10%. It does impact if we shut down, but Well 3 and Well 6 is required to run because of the consent decree related to the Superfund Site.

Rosenberg replied yes, we are keeping an eye on that, 3M was required to test and came back at 520ppt. We are concerned but not sure what to do about it yet.

Robinson replied there are broader concerns not just the source but what's taken back to the quarry and coated. There may be ramifications throughout the city given the prevalence of 3M material over the years being used as fill material.

Gehin stated that Wausau paper pumped their waste into the ground that had sulfide and the concern was that it may migrate to our wells so there was a barrier put in place years ago, maybe there's a relationship there as well.

Brooks stated as far as source reduction, we plan on sending out letters through the pre-treatment program to the industrial users that gives them a chance to see if what they are using is PFAS free to eliminate some of that prior to any testing.

No Action Taken.

7) Discussion and Possible Action on Approving Contract between Wausau Water Works, City Works, and Axim Geospatial for Asset Management.

Rosenberg stated we are removing this item because we have an RFP out, more on that in the future, hopefully next month.

No Action Taken.

8) Adjourn.

Herbst motioned to adjourn. Seconded by Gehin.

Motion Carried 5-0.

Link to view meeting in its entirety: <https://tinyurl.com/wausaucitycouncil>

Gina Vang, Recording Secretary

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MEMORANDUM

TO: President Rosenberg
Commissioner Herbst
Commissioner Force
Commissioner Gehin
Commissioner Robinson

FROM: Eric Lindman, P.E.
Director of Public Works & Utilities

SUBJECT: Director's Report – January 2024

▪ Solar Array Task Force Update:

The Task Force has been meeting every month since last summer. The next meeting in January will focus on a summary of the criteria established and looking at various locations and budget costs for a new solar array. Also, in January the task Force will again present information to the NW Neighborhood Group. Task Force is proposed to wrap up in March/April and bring recommendations to the Commission for consideration. No engineering design and very little calculations are being completed as this is all planning and looking at alternatives. The Task Force continues to ask for Return on Investment (ROI) information, and this would require engineering design and a budget for us to use for this work. If the Commission is OK with using the funds, we may run ROI scenarios through our contract with Clark Dietz. I would anticipate this would be a few thousand dollars depending on how many scenarios will be run. No formal motion would be needed just a consensus of the Commission to use the funds or hold off until the Commission has an opportunity to review the information later this spring.

WATER DIVISION

1. Drinking Water Treatment Facility Update: See attached.

WASTEWATER DIVISION

1. Wastewater Facility Construction Update: See attached.

2. The Wastewater Treatment Plant continues to discharge a quality effluent. Optimization throughout the plant continues to ensure a quality effluent is being discharged.
3. **Wastewater Lab Technician**: Phone interviews of 12 applicants commenced on 12/15/23 and ended on 12/18/23. A second round of in-person interviews took place on 1/3/24 where four applicants were interviewed. Selection of successful applicant and job offer to follow.
4. The 2023 Cured-In-Place (CIPP) project for Flieth Street and Imm Street is 98% complete with site work and asphalt patching remaining.
5. Earth Inc. is scheduled to start sometime in February 2024 on the Green Wood Hills Lift Station and Northwestern Lift Station
6. 48th Avenue Sanitary Interceptor replacement project has been completed.

DWTF PFAS Treatment

Update for Director's Report – January 2024

The PFAS treatment building (Structure 120) footings and foundation walls are installed and the building excavation has been backfilled. Storm sewer piping between the PFAS treatment building and the DWTF process building (Structure 100) has been installed.

The contractor has installed small diameter piping within the DWTF process building and will be focusing on interior work for the next several months. Currently the electrical subcontractor is laying out and installing conduit. The mechanical subcontractor is beginning installation of process piping within Structure 100 that will connect the existing treatment train to the new PFAS treatment equipment.

We are currently awaiting results for sampling of the anion exchange resin that is stored on site. Samples were collected and submitted to the Wisconsin State Lab of Hygiene. Once sample results are available, we can proceed with a discussion for disposal of the resin.

Wastewater Treatment Facility Improvements Project – Engineer During Construction

City of Wausau, Wisconsin

Donohue Project Number 13229

Period | November 5, 2023 – December 2, 2023

Invoice 78

Engineer Activities This Period

- Construction administration services related to the remaining project close-out efforts associated processing work changes to the contract, and contractor monthly payment requests.
- Prepared and submitted Clean Water Fund disbursement request and provided CWF administration.
- The Engineer’s application engineering staff continues to fine tune the various systems as unit process systems are being operated.
- Provided to Contractor for signature, last of the Certificates of Substantial Completion for those process systems that the Owner has been operating.
- Submitted to Contractor for review and concurrence, the warranty Items list along with the final closeout letter.
- Continued to assist Owner with WDNR Class A biosolids approval.

Engineer Near-Term Activities

- As the project proceeds to closure, the engineer will continue to provide construction administration services assisting with warranty items until responsibility has been transferred to Owner upon finalization of the Project Close-out letter with the Contractor.
- Secure compliance of Project Close-out letter from Contractor.
- Provide Record Drawings.
- Submit CWF closeout documentation to WDNR and prepare final disbursement request(s).

Project Status Report

Wastewater Treatment Facility Improvements Project – Engineer During Construction

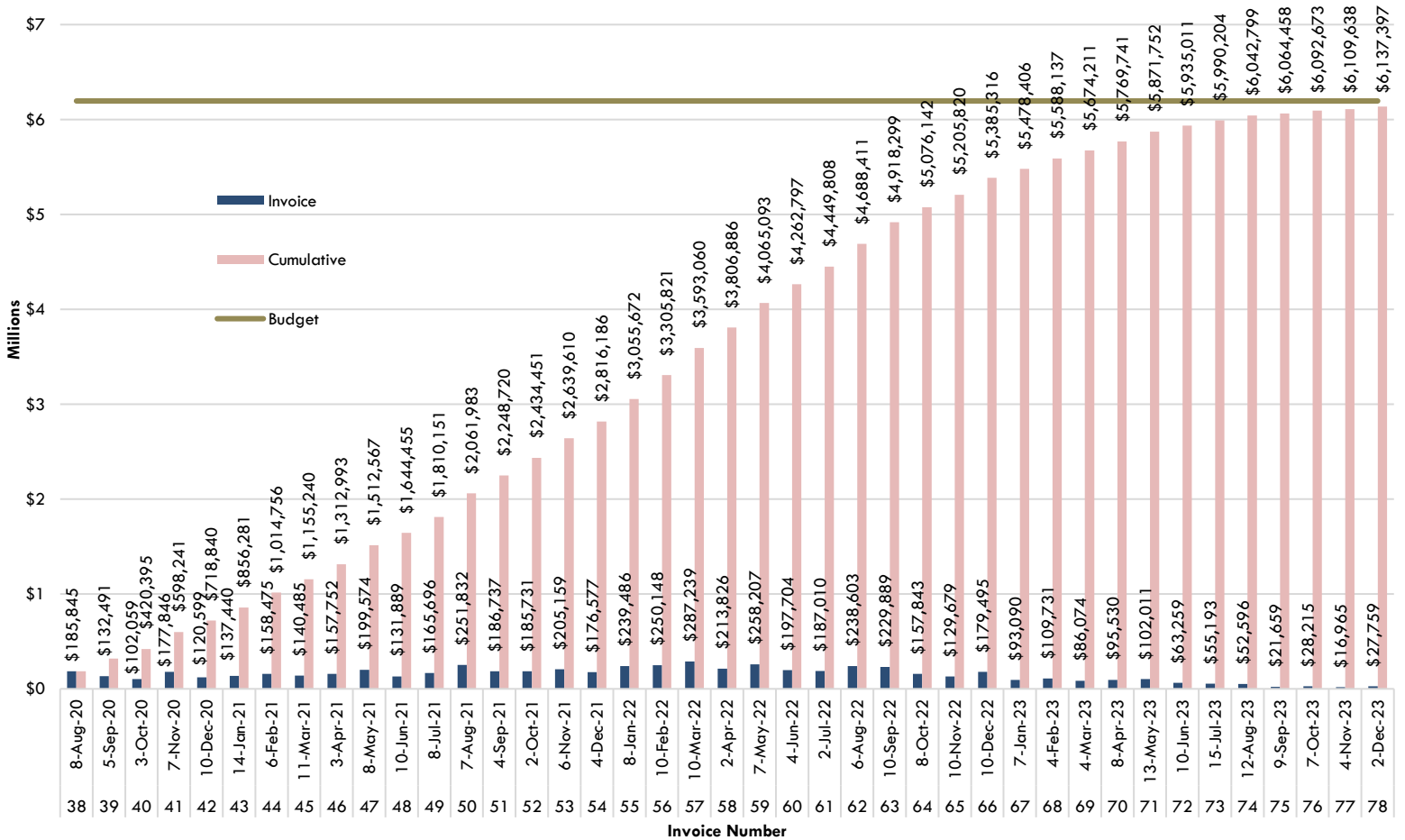
City of Wausau, Wisconsin

Donohue Project Number 13229

Period | November 5, 2023 – December 2, 2023
Invoice 78

Project Related Budget Snapshot

Construction Engineering Budget



Project Status Report

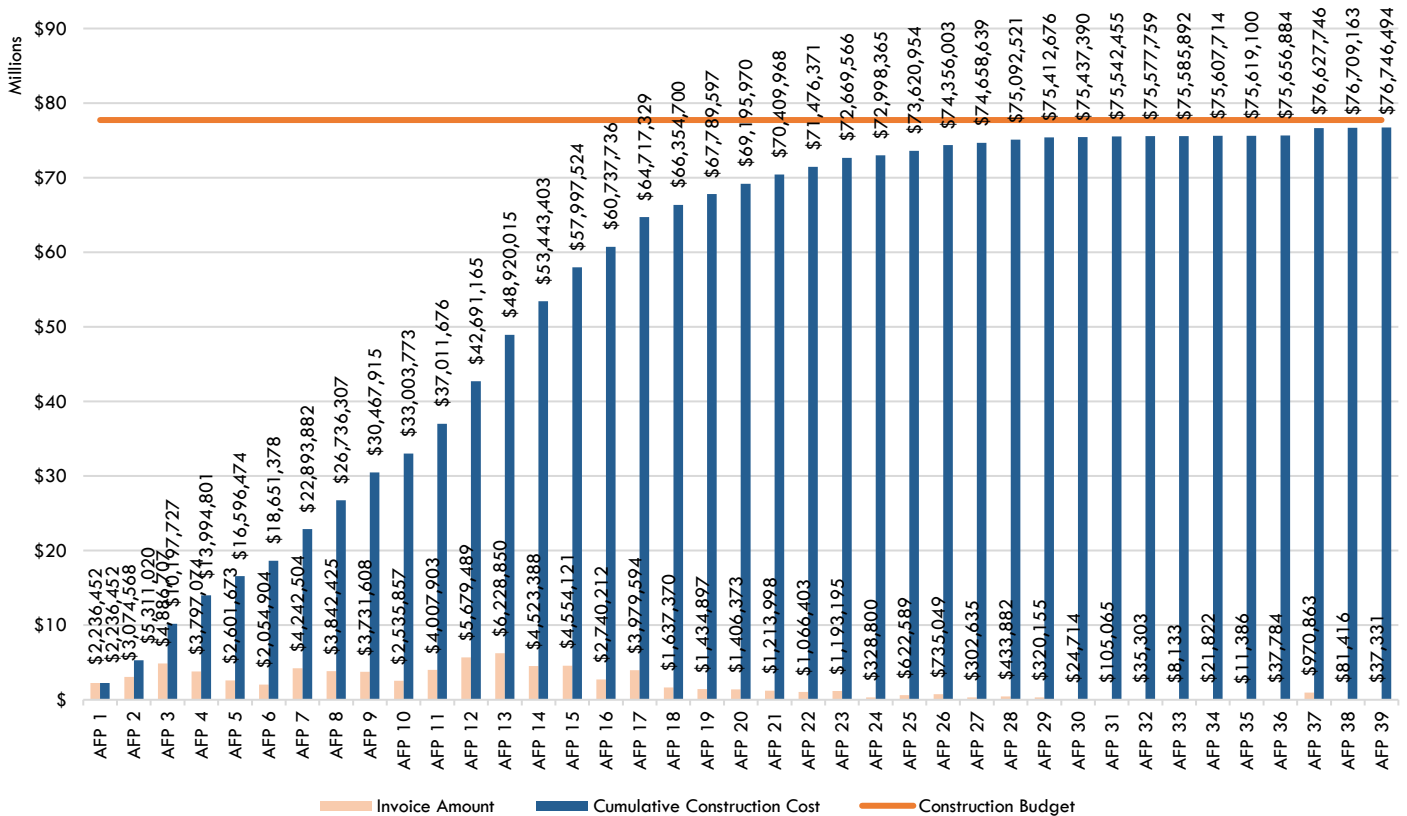
Wastewater Treatment Facility Improvements Project – Engineer During Construction

City of Wausau, Wisconsin

Donohue Project Number 13229

Period | November 5, 2023 – December 2, 2023
Invoice 78

Construction Budget: Pay Applications Approved by Engineer



Project Status Report

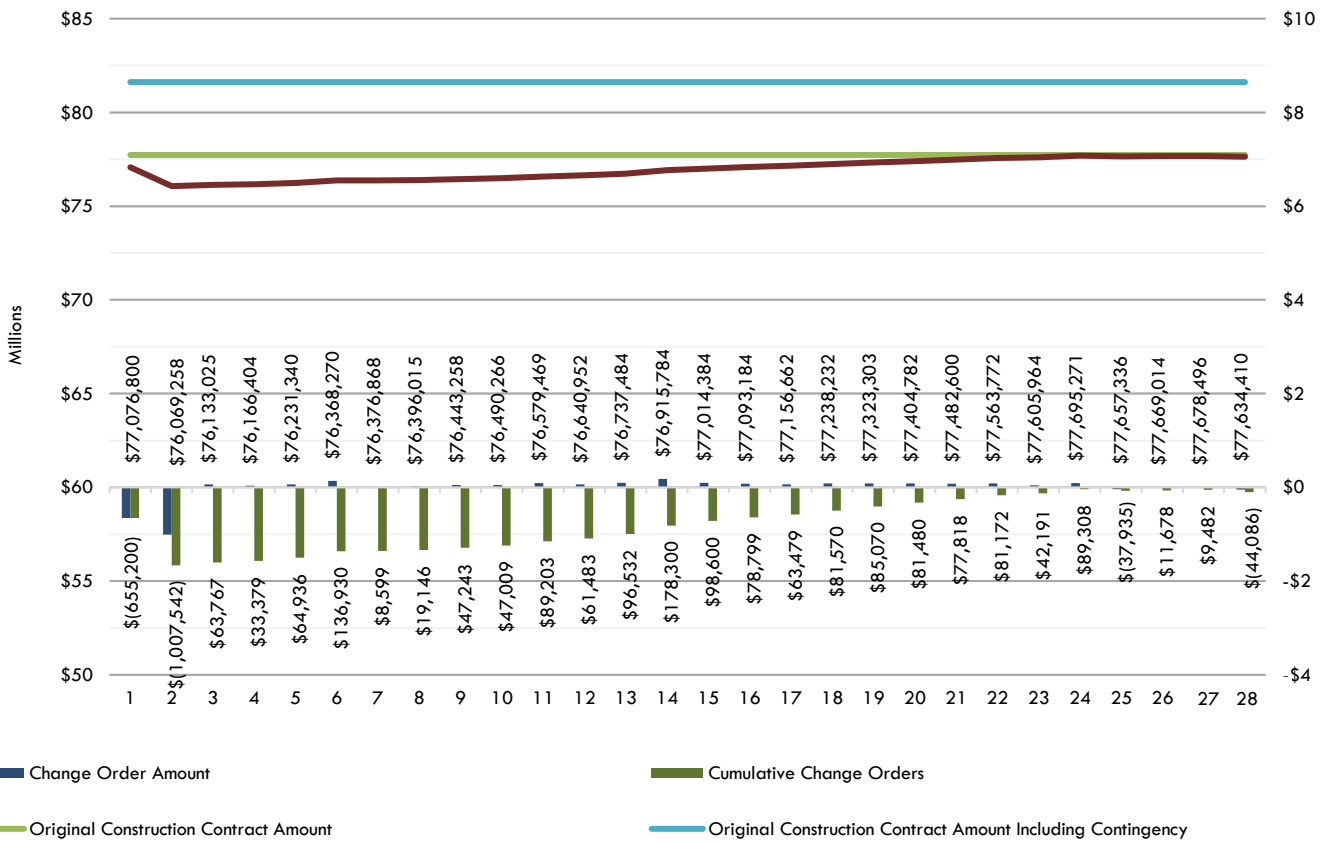
Wastewater Treatment Facility Improvements Project – Engineer During Construction

City of Wausau, Wisconsin

Donohue Project Number 13229

Period | November 5, 2023 – December 2, 2023
Invoice 78

Overall Project Budget



Budget Notes:

1. No budget issues at this time.

Remarks

1. Construction is complete except for punch list corrective work; therefore, construction photographs are no longer beneficial to document project progress.

INVOICE



3311 Weeden Creek Road
Sheboygan, WI 53081
Phone: 920-208-0296
www.donohue-associates.com

Invoice To:

City of Wausau
Attn: Ben Brooks
407 Grant Street
Wausau, WI 54403

Invoice Date:

December 7, 2023

Donohue Project No.:

13229

Invoice No:

13229-78

Project Manager:

Mike Gerbitz

Terms:

Net 30 Days

Billing Period:

11/05/23 - 12/02/23

Project Description:

Wastewater Facilities Plan & Design

Your Authorization:

Engineering Services Agreement, Signed 03/29/17
Amendment No. 1, Signed 06/28/18
Amendment No. 2, Signed 03/05/19
Amendment No. 3, Signed 01/27/20
Amendment No. 4, Signed 05/07/20
Permit Review Fees Payment Request, 02/27/20

Compensation:

Time and Expense	\$	129,220.00
Time and Expense	\$	984,565.00
Time and Expense	\$	3,323,900.00
Time and Expense	\$	4,351,831.00
Time and Expense	\$	1,843,325.00
Permit Review Fees	\$	12,534.50
Total	\$	10,645,375.50

Billing Summary:

Total Charges to Date	\$	10,588,631.71
Charges Previously Billed	\$	10,560,872.52
Current Charges	\$	27,759.19

Summary of Current Charges

Labor (156.5 hours)	\$	27,545.00
Reimbursable Expenses	\$	214.19
Permit Review Fees	\$	-
Subconsultants	\$	-
Total	\$	27,759.19

Current Charges Due	\$	27,759.19
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Please Remit to:

Donohue & Associates, Inc.
3311 Weeden Creek Road
Sheboygan, WI 53081
Phone: 920-208-0296
Fax: 920-208-0402

Aged Receivables

<u>Current</u>	<u>31 - 60 Days</u>	<u>61 - 90 Days</u>	<u>91 - 120 days</u>	<u>≥120 days</u>
\$27,759.19	\$16,965.00	\$0.00	\$0.00	\$1,640.73



Mandatory Lead Service Line Replacement Ordinance

Wausau Water Works Commission Meeting

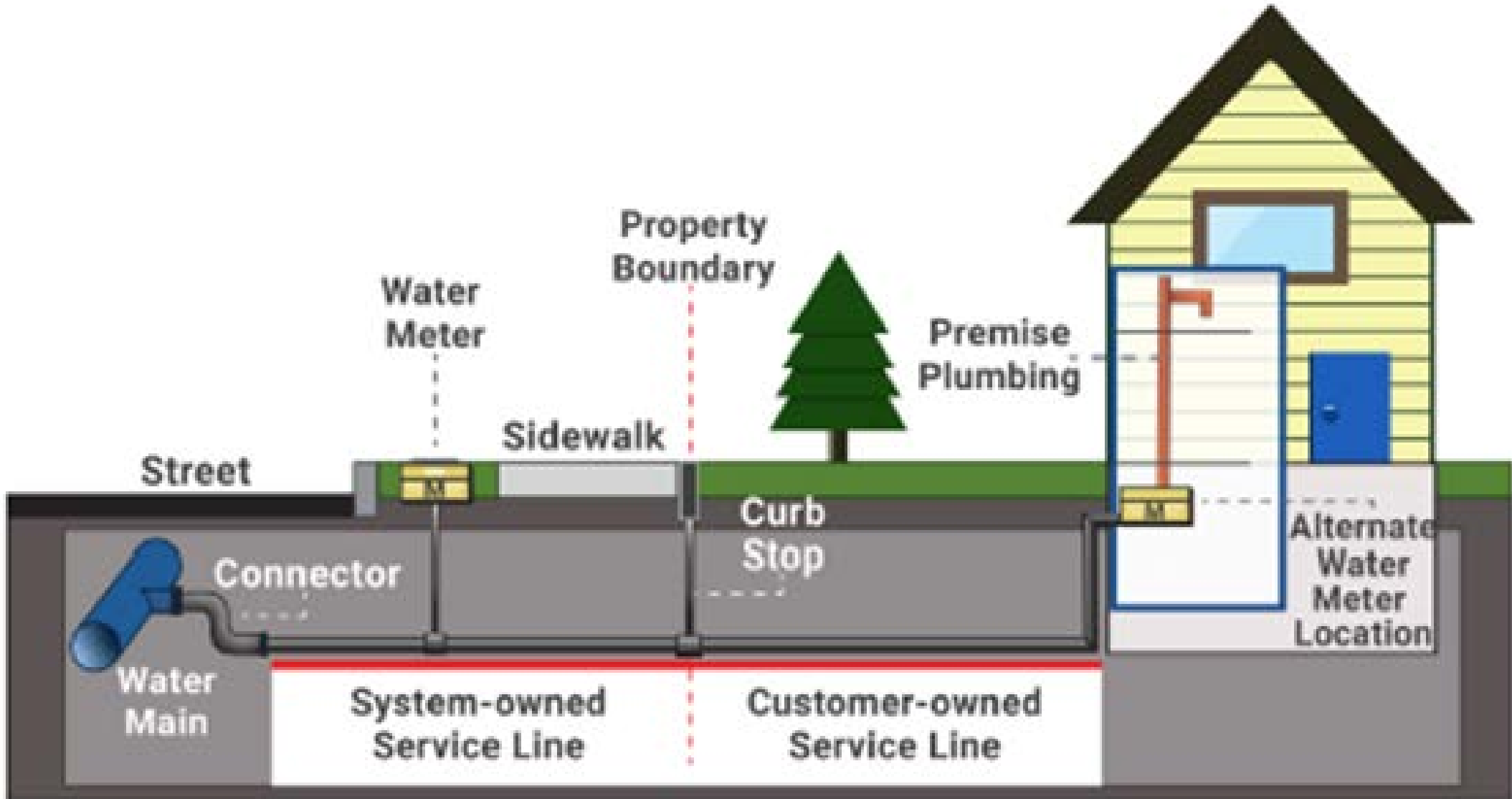
January 9, 2024

What are lead service lines?



- A service line is the section of pipe used to connect a home (or other property) to a water main. In most communities, service lines are partially owned by the water system and partially owned by the customer. In Wausau, the service line between the customer's meter to the curb stop is owned by the customer and the service line between the curb stop and the water main is owned by Wausau Water Works.
- Lead can enter drinking water through service lines if they are made of lead or galvanized steel that is/was downstream of lead.
- An estimated 6 to 10 million lead service lines (LSLs) provide water to properties in communities across the United States. In Wausau, there are an estimated 8,000 customer lead service lines and 2,500 public lead service lines.

What are lead service lines?



Why do we need to remove LSLs?



Health



Regulatory Requirements

Health



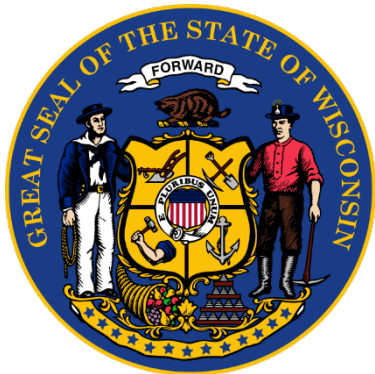
- When people come in contact with lead, it may enter their bodies and accumulate over time, resulting in damage to the brain, nervous system, red blood cells, and kidneys.
- Young children, infants, and fetuses are particularly vulnerable to harmful effects of lead. A child's mental and physical development can be irreversibly stunted by overexposure to lead.
- Mothers who have had exposure to lead in the past may store lead in their bones. Lead may be released from bones during pregnancy and lactation.

Regulatory Requirements



Federal Regulations

- Lead and Copper Rule Revisions (2021) require water systems to prepare and maintain an inventory of service line materials by October 16, 2024.
- Establishing an inventory of service line materials and identifying the location of LSLs are key steps in getting LSLs replaced.
- Upcoming updates to these regulations (currently in draft form) are anticipated to require an annual percentage of full (private- and public-side) LSL replacements.



State Regulations

- Wisconsin follows federal drinking water regulations and has some of its own state requirements related to reporting LSLs and replacements, including through the Public Service Commission (PSC).

What is a mandatory LSL replacement ordinance?



- An ordinance is defined by the League of Wisconsin Municipalities as: "A local law of a municipality, enacted by the proper authorities, prescribing general, uniform, and permanent rules of conduct relating to the corporate powers of the municipality."
- A mandatory lead service line replacement ordinance requires each **owner** of a property that is serviced by a customer-side water service line containing lead to replace that customer-side water service line under certain conditions.

Why are WI communities passing mandatory LSL replacement ordinances?



- Many public water systems have implemented mandatory ordinances as a mechanism to overcome issues of ownership, control, and access to increase LSL replacements.
- Partially replacing LSLs can increase lead levels in homes and is not considered best practice. Mandatory ordinances can reduce partial replacements.
- Mandatory ordinances can reduce the length of time between when the water system removes the system-side LSL and customers replace their sides of the LSL, helping avoid exposure to lead.
- Enacting a mandatory LSL replacement ordinance can increase funding availability for WI water systems.

PSC and DNR Funding



- Wisconsin Act 137 permits utilities and municipalities to provide financial assistance, through loans and grants, to private consumers for the express purpose of replacing private LSLs.
- Participation in Wisconsin Act 137 requires all LSLs to be replaced, both utility-side and customer-side.
- **In order to receive state approval from the Wisconsin Public Service Commission (PSC) to provide financial assistance to help customers replace customer-side LSLs, using ratepayer funds, municipalities must pass a municipal ordinance that outlines their general approach to implementing Wisconsin Act 137.**
- To receive DNR funding, full service line replacements (public- and private-side) are required.
- DNR funding applications receive additional "bonus" points if an ordinance is passed prior to submitting application.

Additional PSC, DNR, and EPA Requirements



- Per PSC: “The ordinance must require each owner of a premise located in the city, town, or village that is serviced by a customer-side water service line containing lead to replace that customer-side service line.”
- PSC requires all customers in the same customer class to be treated equally.
- There are various detailed state and federal requirements that water systems could consider in their ordinances, such as:
 - Notification to customers prior to system-side LSL replacement
 - Timing of customer-side LSL replacements, once the public-side LSL has been replaced
 - Provision of mitigation measures (e.g., filters) following LSL replacements
 - Customer-side LSL replacements within a certain timeframe after notification by the water system and timing of customer-side LSL replacement scheduling following notification

Have other WI communities adopted mandatory LSL replacement ordinances?

- YES, many!
- Municipalities can tailor their ordinances to local needs, for example, with additional stipulations related to:
 - Deadlines for required replacement
 - Subsidies towards replacement
 - Financial assistance program
 - Triggers for mandatory replacement (e.g., leak, emergency repair, damaged line)
 - Right of entry to property
 - Potential penalties for non-compliance, up to and including disconnection

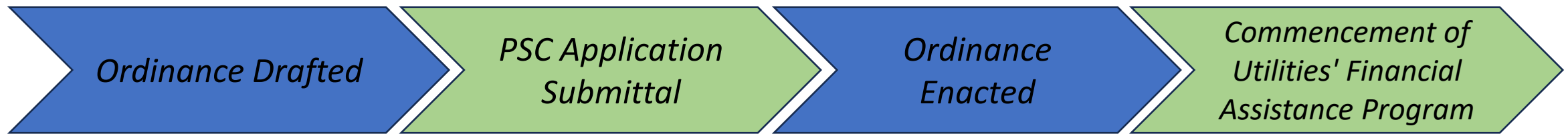


Timeline Considerations: PSC Approval

If a community is seeking PSC approval to use ratepayer funds to pay for LSL replacement, it will need the following:

- Ordinance must be drafted prior to PSC application submittal, and
- Ordinance must be enacted prior to commencement of utilities' financial assistance program.

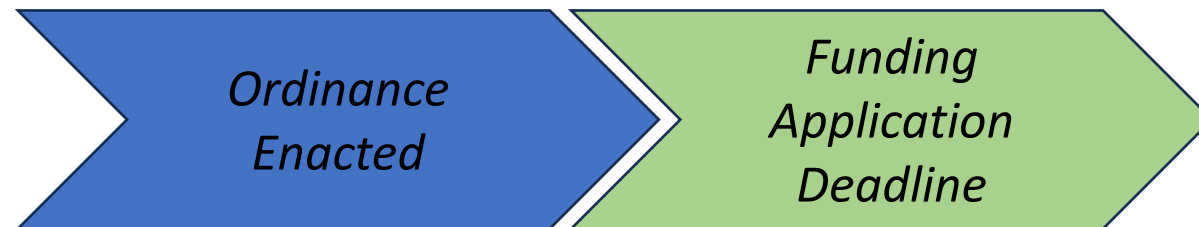
PSC Approval Timeline



Timeline Considerations: DNR Funding

If a community is applying for fiscal year 2025 WI DNR Safe Drinking Water Loan Program Bipartisan Infrastructure Law (BIL) LSL Funding and wants to score an additional 10 "points" on its application, an ordinance must be enacted prior to the June 30th, 2024, funding application deadline.

WI DNR Funding Timeline



What are the cost implications of a mandatory LSL replacement ordinance?



- Municipalities typically include varying cost and funding information in their ordinances, such as information about responsibilities for payment.
- Potential funding sources for LSL replacements may include:
 - DNR SDWLP BIL LSL funding
 - **An LSL replacement ordinance helps with application scoring.**
 - PSC approval for use of ratepayer funds
 - **An LSL replacement ordinance is required.**
- Outside funding (e.g., Community Development Block Grant (CDBG) funding) may also be available for LSL replacements.

How do mandatory LSL replacement ordinances address potential private property impacts?

- Communities may tailor their ordinances to address potential private property impacts from LSL replacements the best way they see fit.
- Language typically would be included in project documents indicating private property would be restored to pre-existing condition.
- For the ordinance and potential private property impacts, options include:



No specific commentary



Refer and defer to subsequent documents (e.g., contract)



Explicitly describe process

Questions?





TO: Wausau Waterworks Commission

FROM: Eric Lindman, P.E.
Director of Public Works & Utilities

DATE: January 9, 2024

SUBJECT: Lead Service Line Replacement Ordinance

Attached is a revised Lead Service Line Replacement ordinance for your review and discussion. Horsley Witten Group will provide a presentation related to establishing an ordinance. They are the engineer consultant hired under the USEPA LSL Accelerator Program.

There are decision points the Commission will need to address as we move forward and wanted to highlight some of those key decision points.

1. Who will have authority to grant a timeline extension if a homeowner wants/needs more time to replace their own LSL?
2. There is language added into the ordinance related to shutting off service for non-compliance. What are the steps to be done before the utility takes this action? How much time should be given and who makes that decision?
3. How does the WWWC anticipate paying for the program? Where does the loan portion of the funding come from? Will there be a requirement of the homeowner to pay a portion, all or none of their LSL replacement cost?
4. Does the cost responsibility of the private side get established in the ordinance or by some other method?

Please review the attached DRAFT ordinance and provide any feedback. Staff will be bringing this back along with any public comment we receive at future meetings. A tentative timeline for this approval is included for your review.

**Mandatory LSL Replacement Ordinance
Wausau Water Works**

DRAFT Ordinance Development and Approval Timeline

Date	Entity	Milestone
1/9/24	Wausau Water Works Commission	Present updated Ordinance draft and timeline for approval
1/15 – 2/2/24	Public Outreach – Looking for email comments	Informational and public input sessions on Ordinance in open format, outreach materials distribution
2/6/24	Wausau Water Works Commission	Present updated Ordinance (if comments are received at previous meeting) and outreach materials
2/12 – 3/1/24	Potential Public Information Meetings	Informational and public input sessions on Ordinance in open format, outreach materials distribution
3/5/24	Wausau Water Works Commission	Public Hearing at WWWC or BPW?
4/2/24	Wausau Water Works Commission	Final opportunity to deliberate ordinance and make recommendations as needed
5/7/24	Wausau Water Works Commission	Final Ordinance is presented and approved at Wausau Water Works Commission
5/8-5/21/24	Wausau City Council Engagement	Send Ordinance and background materials to Council for early review and engagement.
5/21/24	Wausau City Council	Wausau City Council begins discussions of Ordinance.
6/11/24	Wausau City Council	Ordinance deliberation or approval

Notes:

- Wausau Water Works Commission meets first Tuesday of every month. Materials for the Commission’s meetings must be sent one week prior to the meeting.
- Wausau City Council meets second and fourth Tuesday of every month. Materials for the Council’s meetings must be sent one week prior to the meeting.

CITY OF WAUSAU, 407 Grant Street, Wausau, WI 54403

ORDINANCE OF THE WAUSAU WATERWORKS COMMISSION

Creating Chapter 13.66 Lead and galvanized water service line replacement, Section 13.66.010 Intent and purpose, Section 13.66.020 Authorization, Section 13.66.030 Rules of construction and definitions, Section 13.66.040 Survey and self-inspections, Section 13.66.050 Partial or full service line material replacement; water utility or customer side, Section 13.66.060 Replacement priority, Section 13.66.070 Application and Scheduling, Section 13.66.080 Financing of replacement, Section 13.66.090 Exceptions, Section 13.66.100 Prohibitions, Section 13.66.110 Severability, Section 13.66.120 Penalties.

Committee Action: Pending **Ordinance Number:**

Fiscal Impact: 2024: Total Allocation- \$5,790,028 (Principle Forgiveness - \$3,641,078; Loan Amount - \$2,148,950 (this should be at a rate of 0.5%))
2025: Total Allocation - \$15,000,000 (Estimated) (Principle Forgiveness - \$9,750,000; Loan Amount - \$5,250,000 (this should be at a rate of 0.5%))
2026: Total Allocation - \$15,000,000 (Estimated) (Principle Forgiveness - \$9,750,000; Loan Amount - \$5,250,000 (this should be at a rate of 0.5%))
2027: Total Allocation - \$15,000,000 (Estimated) (Principle Forgiveness - \$7,500,000; Loan Amount - \$7,500,000 (this should be at a rate of 0.5%))
2028: Total Allocation - \$15,000,000 (Estimated) (Principle Forgiveness - \$7,500,000 (this should be at a rate of 0.5%))

File Number:

Date Introduced:

The Common Council of the City of Wausau do ordain as follows:

Section 1. That Chapter 13.66 Lead and galvanized water service line replacement is hereby created and made up of the following Sections outlined below.

Section 2. That Section 13.66.010 Intent and purpose is hereby created to read as follows:

13.66.010 Intent and purpose.

Lead in drinking water poses a threat to the public health. Leaching of lead from lead service lines or from galvanized lines, that are or were downstream of lead, are sources of lead in drinking water. Additionally, aged water services including lead and galvanized lines can be a source of water loss and potential contamination. The Common Council of the City of Wausau therefore finds that it is in the public interest to establish a comprehensive program for the removal and replacement of lead and galvanized service lines in use within the Wausau Water Utility system, and to that end, declares the purposes of this chapter to be as follows:

- (1) Continue to ensure that the water quality at every tap of Wausau Water Utility customers meets the water quality standards specified under the Federal Safe Drinking Water Act;
- (2) Continue to reduce the level of lead in the City's drinking water to meet EPA standards in City drinking water for the health of City residents;
- (3) Continue to meet the WDNR requirements for local compliance with the EPA's Lead and Copper Rule;
- (4) Continue to affect the replacement of all high-risk lead and galvanized service lines within five years of their discovery and the replacement of all remaining lead and galvanized pipe water service lines in use in the City within seven years; and
- (5) Limit costs by setting a service replacement schedule when federal, state, or local funding is available.

Section 3. That Section 13.66.020 Authorization is hereby created to read as follows:

13.66.020 Authorization.

This chapter is enacted pursuant to Wis. Stats. §§ 62.11(5), 281.12(5), 66.0627(8), and 196.372, and as mandated by 42 USC 300g of the Federal Safe Drinking Water Act, as amended, enforced by the EPA and the WDNR.

Section 4. That Section 13.66.030 Rules of construction and definitions is hereby created to read as follows:

13.66.030 Rules of construction and definitions.

This section and all rules and orders promulgated under this section shall be liberally construed so that the purposes enumerated in Section 13.66.010 may be accomplished. Words and phrases shall be construed and understood according to their common and usual meaning unless the contrary is clearly indicated. Within this chapter:

~~Childcare facility means any state licensed or county certified childcare facility including, but not limited to, licensed family childcare, licensed group centers, licensed day camps, certified school age programs and Head Start programs.~~

City means City of Wausau.

Confirmed water sample test means a tap water analysis, completed after a prior analysis that indicated lead levels at or above the EPA action level, and conducted in accordance with the Lead and Copper Rule, with Wis. Admin. Code § N 809.547, and with instructions provided by the Water Utility.

Customer-side water service line means the water conduit pipe running from the customer's meter to the curb stop which is the Water Utility shut-off valve usually located behind the curb on public property.

EPA means the U.S. Environmental Protection Agency.

EPA action level means a concentration of 10 or more parts per billion (PPB) of lead as measured at a customer's tap.

Federal Safe Drinking Water Act as codified as 42 USC §§ 300f - 300j-26.

Director means the Director of Public Works and Utilities.

High risk lead service means a lead and/or galvanized customer-side water service line identified in Section 13.66.050 and any lead and/or galvanized customer-side water service line where a confirmed water sample test of a customer's tap water reveals a lead concentration at or above the EPA action level.

Lead and Copper Rule means the rules created by the EPA and adopted by the WDNR in response to the passage of the Safe Drinking Water Act, which provides maximum containment level goals and national primary drinking water regulations (NPDWR) for controlling lead and copper in drinking water. NPDWR regarding approved treatment techniques include corrosion control treatment, source water treatment, lead and galvanized service line replacement and public education. The rules may be found in 56 FR 26460, 40 CFR 141.80—141.90, and Wis. Admin. Code §§ NR 809.541 through 809.55.

Lead service line means a service line made of lead and/or galvanized steel, and any lead pigtail, gooseneck or other fitting which is connected to such lead line. The term can apply to the customer-side service line and/or the public-side service line.

Licensed plumber means a person, firm, corporation or other entity licensed to perform plumbing work in the City by the State of Wisconsin.

~~Occupant means person or persons in actual possession of and living at a property.~~

PPB means parts per billion.

Property means any possessory interest, legal or equitable, in real property, including an estate, trust, or lien, and any buildings, structures and improvements thereon.

Commented [TT1]: This isn't reference any where in the code.

Commented [EL2R1]: I think this something we need to address. The priority within the EPA requirements is Daycare facilities so maybe we need to set up priorities somewhere in the code.

Commented [TT3]: We don't use this word anywhere in the code

Commented [EL4R3]: Somewhere we should identify properties and rental properties with owners versus occupants. We should consider this and priorities on our next draft for the commission.

Property owner means a person or legal entity having a possessory interest, legal or equitable, in property, which defined term includes an estate, trust, or lien.

Service replacement schedule means the schedule adopted by the Wausau Waterworks Commission for the replacement of lead and galvanized customer-side water service lines based on community resources; on availability of licensed plumbers and Water Utility resources to complete service line replacements; on physical location of properties with lead and/or galvanized customer-side water service lines; and on availability of federal, state, or local funding.

Public-side service line means the utility-owned portion of the water service line from the water main to the curb stop.

WDNR means the Wisconsin Department of Natural Resources.

Water Utility means the City of Wausau public water utility system, also known as Water Utility and/or Wausau Water Works.

Section 5. That Section 13.66.040 Survey and self-inspections is hereby created to read as follows:

13.66.040 Survey and self-inspections.

Upon notice from the Water Utility, any person who owns, manages or otherwise exercises control over a property within the Wausau Water Utility system shall allow the Water Utility to inspect the customer-side water service line or have the customer-side water service line inspected by a licensed plumber or other representative as authorized by the Director to determine whether the service line is lead, copper, cast iron, galvanized steel, plastic or other material.

Section 6. That Section 13.66.050 Partial or full-service line material replacement; water utility or customer side is hereby created to read as follows:

13.66.050 Partial or full-service line material replacement; water utility or customer side.

- (a) All of the following service line material combinations are subject to partial or full replacement with copper, and/or plastic service lines under this division as identified:

SERVICE LINE MATERIAL REPLACEMENT

Public-Side	Customer-Side	Side Requiring Replacement
Lead	Lead	Both
Lead	Galvanized	Both
Lead	Copper	Water utility only
Lead	Plastic	Water utility only
Copper	Lead	Customer only
Copper	Galvanized	Customer only
Copper	Copper	Neither
Copper	Plastic	Neither
Plastic	Lead	Customer only

Plastic	Galvanized	Customer only
Plastic	Copper	Neither
Plastic	Plastic	Neither
Galvanized	Galvanized	Both
Galvanized	Copper	Water utility only
Galvanized	Plastic	Water utility only
Galvanized	Lead	Both

No other service line material combinations have been identified which require replacement under this division.

- (b) All lead and galvanized water service lines must be replaced regardless of whether on the public-side or the customer-side. If either a customer-side or public-side lead or galvanized water service line is connected to each other, both lines must be replaced at the time the Water Utility or the customer is replacing its side of the lead or galvanized water service line per section 13.66.070. If a customer-side lead or galvanized water service line is connected to a public-side service that is not lead or galvanized, the replacement of the customer-side lead or galvanized water service line shall be completed under a schedule determined by the Water Utility. As of the effective date of the ordinance from which this Chapter is derived, no lead or galvanized service line will be allowed to connect to a Water Utility line once replaced.

Section 7. That Section 13.66.060 Replacement priority is hereby created to read as follows:

13.66.060 Replacement priority.

- (a) Owners, managers or persons otherwise exercising control over properties within the Wausau Water Utility system with customer-side lead and/or galvanized water service lines shall be required to replace the customer-side water service lines according to the order of priority as outlined in the lead service line replacement plan and based on the replacement schedule established by the Wausau Waterworks Commission.

(b) Notwithstanding the schedules set forth herein and any limitations on funding sources which may be made available to either the Water Utility or the customer, all customer-side water service lines identified herein shall be replaced no later than seven years after the commencement of this program.

Section 8. That Section 13.66.070 Application and Scheduling is hereby created to read as follows:

13.66.070 Application and Scheduling.

Replacement of customer-side lead and/or galvanized pipes that are connected to a public-side lead and/or galvanized line must be completed at the time the public-side service line is replaced. The Water Utility shall notify customers of planned public-side lead and/or galvanized line replacements no less than 45 days prior to the replacement, as required by the Lead and Copper Rule Revisions (US EPA Dec. 2023). Scheduling of all such replacements for customer-side lead and/or galvanized pipes must be coordinated between the homeowner's contractor and the Water Utility within 30 days of receipt of notice that the public-side water service lines are scheduled to be replaced. Owners, managers or persons otherwise exercising control over properties shall obtain from and submit to the Water Utility, in accordance with its service rules, an Application for Water Service which states an intention to replace the customer-side lead and/or galvanized water service lines. Additional time to schedule the customer-side lead and/or galvanized pipe replacement may be granted by the Director for good cause.

The service replacement schedule for customer-side lead and/or galvanized pipes that are connected to a public-side service that is not lead and/or galvanized line shall be adopted by the Wausau Waterworks Commission based on community resources; availability of licensed plumbers and Water Utility resources to complete service line replacements; physical location of properties with lead and/or galvanized customer-side water service lines; and availability of federal, state, or local funding. Based on the above factors, customers will be assigned a time period within the schedule for replacing their lead and/or galvanized customer-side water service line. In no case shall a customer on this schedule have less than 30 days from the date of notification pursuant to Section 13.66.060 for the replacement of any lead and/or galvanized customer-side water service line.

If the Water Utility determines that a customer-side service line is constructed of lead and notifies the property owner in writing, the property owner must make arrangements described above to replace the lead service line within 36 months. Additional time to schedule the replacement may be granted by the Director for good cause.

Section 9. That Section 13.66.080 Financing of replacement is hereby created to read as follows:

13.66.080 Financing of replacement.

- (a) In the event public funding is made available for replacing lead and/or galvanized service lines, the City authorizes the Wausau Water Works Commission, acting through the Water Utility, to implement and maintain a financial assistance program for the replacement of lead and galvanized service lines in accordance with the requirements of the Wisconsin Public Service Commission and Wis. Stat. § 196.372 (2023).
- (b) If the Wausau Water Works Commission implements an approved financial assistance program in the event public funding is made available, the Water Utility may provide eligible property owners with a grant for up to 50 percent of the cost of the service line replacement, but not to exceed a maximum grant amount established by the Wausau Water Works Commission, which shall periodically review and adjust the maximum grant amount. All work must be done by a utility-approved plumbing contractor.

Commented [TT5]: For the Water Works Committee: this language is similar to what Sheboygan has in their ordinance. It's replacing previous language in response to the concerns addressed in prior meetings.

Commented [EL6R5]: This is a good starting point for their discussion on funding the private side. I have also outlined some of their decision points on my memo for the meeting next week.

- (c) The remainder of the lead service line replacement cost after the grant provided in subsection (b) shall either be paid for directly by the property owner or by a zero percent interest loan of up to six years provided by the water utility. A property owner shall repay the loan in equal monthly or quarterly installments. Loan repayments shall be included on the Water Utility's monthly or quarterly utility bills, or bill prepared separately by the Water Utility. Loan repayments that are past due may be placed on the property tax roll as provided in Wis. Stats. § 66.0809. Neither the Water Utility nor the City may forgive any LSL loan amount. Upon the sale of the property, the loan amount shall be paid in full prior to or on the sale date.
- (d) A property owner is eligible for financial assistance for the purpose of replacing the customer-side service line if the property owner satisfies all of the following criteria:
 - (1) The property owner alone, or collectively with others, owns the entire fee simple title property to the property served by the customer-side service line.
 - (2) The property owner replaces the entire LSL, leaving no remnant of lead or galvanized material.
 - (3) The replacement work is done by a pre-qualified plumbing contractor in compliance with this section.
- (e) Written applications for financial assistance shall include the following:
 - (1) A completed application on a form furnished by the Water Utility signed by the eligible property owner. The completed application form shall include a certification by the property owner who attests that all eligibility criteria listed in subsection (d) are met.
 - (2) Copies of written quotes from at least two pre-qualified plumbing contractors for the replacement of the property owner's customer-side service line. A pre-qualified plumbing contractor is one who has completed and submitted proper forms and been placed on the water utility's pre-qualified plumbing contractor list.
- (f) A property owner will be eligible for financial assistance based only on the lowest bid amount included in the written quotes received from pre-qualified plumbing contractors under subparagraph (e)(2) unless except in extraordinary circumstances and with the approval of the Director in his/her sole discretion. Except as provided herein, financial assistance amounts will strictly be determined pursuant to base bid pricing and will not include change orders. In extraordinary circumstances the Director may in his/her sole discretion, with approval of the property owner, approve a contractor-requested change order for inclusion in the financial assistance portion of the work.
- (g) After a complete application is received, prior to the commencement of any replacement work, and subject to the availability of public funding, the Water Utility shall determine if the property owner is eligible for financial assistance available as a loan. Such determination shall be provided in writing to the applying property owner.
- (h) Customer-side line replacement work must be accomplished in a workmanlike manner and be coordinated with any other utility work.
- (i) Upon completion of the customer-side service line replacement, the property owner shall provide the Water Utility with a copy of the invoice from the plumbing contractor.

Upon proof of completion satisfactory to the Water Utility, the Water Utility shall directly pay the plumbing contractor the amount of money approved by the Water Utility for financial assistance for replacement of the customer-side service line. The Water Utility shall provide the property owner with documentation of such payment.

- (j) The total amount of money provided by the Water Utility as financial assistance in the form of a grant and loan may not exceed the actual cost of replacement of the customer-side service line.
- (k) The property owner shall, as a condition of participating in the grant or loan program described in this section, execute a temporary right of entry and construction easement authorizing the Water Utility and/or its contractors' access to the dwelling as needed.
- (l) Disputes regarding eligibility for financial assistance may be appealed to the Wausau Water Works Commission. Any appeal must be made in writing and state the basis for the appeal. The appeal must be received by the City Clerk within 30 days of the denial.

Section 10. That Section 13.66.090 Exceptions is hereby created to read as follows:

13.66.090 Exceptions.

- (a) The Water Utility may modify the inspection requirement set forth under 13.66.040 if the customer so requests and demonstrates a compelling need.
- (b) Upon the demonstration of a compelling need, the owner of a single-family dwelling or a business to which the public has no access to tap water and with no more than five employees, may request a change of schedule or an extension of time for compliance with Sections 13.66.050 through 13.66.070.
- (c) Guidelines for the consideration of requests under subsections (a) and (b) of this section will be established by the Wausau Waterworks Commission.
- (d) Compliance deadlines will be calculated on a calendar year basis but may be deferred during the months of December through March on the basis of weather constraints.

Section 11. That Section 13.66.100 Prohibitions is hereby created to read as follows:

13.66.100 Prohibitions.

It shall be unlawful for any person to fail to comply with the applicable lead and/or galvanized customer-side water service line replacement requirements as set forth herein or to violate any other provision of this chapter.

Section 12. That Section 13.66.110 Severability is hereby created to read as follows:

13.66.110 Severability.

If any section or portion of this chapter is for any reason determined to be invalid or unconstitutional by the decision of a court of competent jurisdiction, that section or portion shall be deemed severable and shall not affect the validity of the remaining sections or portions of this chapter.

Section 13. That Section 13.66.120 Penalties is hereby created to read as follows:

13.66.120 Penalties.

Any person who violates any provision of this chapter may be subject to a forfeiture of no less than \$50.00 and no more than \$1,000.00. Each day a violation continues may be considered a separate offense.

Section 14. That section 13.66.130 Authority to Discontinue Service is hereby created to read as follow:

13.66.130 Authority to Discontinue Service.

As an alternative to any other methods provided for obtaining compliance with the requirements of this Code regarding replacement of illegal customer-side lead or galvanized service line, the Water Utility may, no sooner than 60 days after giving written notice and an opportunity for a hearing pursuant to Wis. Stats. Ch. 68 before the Wausau Water Works Commission, discontinue water service if the Water Utility determines that the illegal customer-side lead service line endangers public health, safety, or welfare, and requires immediate action.

Section 14. All ordinances or parts of ordinances in conflict herewith are hereby repealed.

Section 15. This ordinance shall be in full force and effect from and after its date of publication.

Commented [TT7]: The PSC will require a section for discontinuation of water services if Wausau is looking to use rate paying funds for service.

I combined language from multiple codes for this one

Commented [EL8R7]: I think this a good starting point

Adopted:

Approved:

Published:

Attest:

Approved:

Katie Rosenberg, Mayor

Attest:

Kaitlyn Bernarde, City Clerk

Environmental Health Division

WSLH Sample: 714809001

Report To:
BEN BROOKS
WAUSAU WWTP
430 ADRIAN ST
WAUSAU, WI 54401

Invoice To:
TONIRAYALA WAUSAU CITY CLERK
407 GRANT ST
WAUSAU, WI 54403

Customer ID: 358849

Field #: 26920009
Project No:
Collection End: 11/30/2023 11:58:00 AM
Collection Start:
Collected By: JASON SCHILL
Date Received: 12/1/2023
Date Reported: 12/15/2023
Sample Reason:

ID#:
Sample Location:
Sample Description:
Sample Type: IF-INFLUENT (UNTREATED WW)
Waterbody:
Point or Outfall:
Sample Depth:
Program Code:
Region Code:
County:

Sample Comments

Results for PFBA, PFPeA, and PFBS obtained from pre-diluted sample at a 1/25 dilution. Sample was diluted before IS was added. Result includes true isotope dilution.

PFAS in Waste Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 12/05/23 10:30		Analysis Date: 12/07/23 17:08			
4:2 FTSA (757124-72-4)	WSLH PFAS in Waste Water	<0.383	ng/L	0.383	0.968
PFHxA (307-24-4)	WSLH PFAS in Waste Water	4.65	ng/L	0.319	0.968
PFPeS (2706-91-4)	WSLH PFAS in Waste Water	<0.392	ng/L	0.392	0.968
HFPO-DA (13252-13-6)	WSLH PFAS in Waste Water	<0.327	ng/L	0.327	0.968
PFHpA (375-85-9)	WSLH PFAS in Waste Water	1.80	ng/L	0.241	0.968
PFHxS (355-46-4)	WSLH PFAS in Waste Water	0.979	ng/L	0.395	0.968
Transition Ion Ratio Failure.					
Confirmation result = 0.314 ng/L, interference					
DONA (919005-14-4)	WSLH PFAS in Waste Water	<0.266	ng/L	0.266	0.968

Environmental Health Division

WSLH Sample: 714809001

PFAS in Waste Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 12/05/23 10:30		Analysis Date: 12/07/23 17:08			
6:2 FTSA (27619-97-2)	WSLH PFAS in Waste Water	<0.558	ng/L	0.558	1.94
The internal standard QC limit has failed high.					
PFOA (335-67-1)	WSLH PFAS in Waste Water	4.80	ng/L	0.218	0.968
PFHpS (375-92-8)	WSLH PFAS in Waste Water	<0.271	ng/L	0.271	0.968
PFOS (1763-23-1)	WSLH PFAS in Waste Water	8.91	ng/L	0.449	0.968
Branched isomer peak area ratio not observed in analytical standard					
PFNA (375-95-1)	WSLH PFAS in Waste Water	<0.431	ng/L	0.431	0.968
9CI-PF3ONS (756426-58-1)	WSLH PFAS in Waste Water	<0.348	ng/L	0.348	0.968
8:2 FTSA (39108-34-4)	WSLH PFAS in Waste Water	<0.373	ng/L	0.373	0.968
PFDA (335-76-2)	WSLH PFAS in Waste Water	<0.438	ng/L	0.438	0.968
PFNS (68259-12-1)	WSLH PFAS in Waste Water	<0.449	ng/L	0.449	0.968
N-MeFOSAA (2355-31-9)	WSLH PFAS in Waste Water	0.626F	ng/L	0.390	0.968
The internal standard QC limit has failed low.					
N-EtFOSAA (2991-50-6)	WSLH PFAS in Waste Water	3.29F	ng/L	1.17	3.87
The internal standard QC limit has failed low.					
FOSA (754-91-6)	WSLH PFAS in Waste Water	<0.567	ng/L	0.567	1.94
The internal standard QC limit has failed low.					
PFUnA (2058-94-8)	WSLH PFAS in Waste Water	<0.362	ng/L	0.362	0.968
The internal standard QC limit has failed low.					
PFDS (335-77-3)	WSLH PFAS in Waste Water	<0.354	ng/L	0.354	0.968
11CI-PF3OUdS (763051-92-9)	WSLH PFAS in Waste Water	<0.186	ng/L	0.186	0.968
PFDoA (307-55-1)	WSLH PFAS in Waste Water	<0.220	ng/L	0.220	0.968
The internal standard QC limit has failed low.					

Environmental Health Division

WSLH Sample: 714809001

PFAS in Waste Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 12/05/23 10:30		Analysis Date: 12/07/23 17:08			
PFDoS (79780-39-5)	WSLH PFAS in Waste Water	7.86	ng/L	0.253	0.968
The internal standard QC limit has failed low.					
PFTTrDA (72629-94-8)	WSLH PFAS in Waste Water	<0.378	ng/L	0.378	0.968
The internal standard QC limit has failed low.					
N-MeFOSA (31506-32-8)	WSLH PFAS in Waste Water	<1.57	ng/L	1.57	3.87
N-MeFOSE (24448-09-7)	WSLH PFAS in Waste Water	1.55F	ng/L	1.08	3.87
N-EtFOSA (4151-50-2)	WSLH PFAS in Waste Water	<1.18	ng/L	1.18	3.87
N-EtFOSE (1691-99-2)	WSLH PFAS in Waste Water	<0.717	ng/L	0.717	1.94
PFTeDA (376-06-7)	WSLH PFAS in Waste Water	<0.319	ng/L	0.319	0.968
The internal standard QC limit has failed low.					
Prep Date: 12/05/23 10:30		Analysis Date: 12/07/23 17:36			
PFBA (375-22-4)	WSLH PFAS in Waste Water	19.8F	ng/L	19.8	43.9
Interference					
PFPeA (2706-90-3)	WSLH PFAS in Waste Water	103	ng/L	6.30	22.0
Retention time differs by more than 0.1 minute from retention time of internal standard.					
No confirmation result available.					
PFBS (375-73-5)	WSLH PFAS in Waste Water	219	ng/L	4.75	22.0

Environmental Health Division

WSLH Sample: 714809001

WDNR LAB ID:113133790 NELAP LAB ID:2091 EPA LAB ID:WI00007, WI00008 WI DATCP ID:105-415

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification (for PFAS the LOQ = MRL)
ND = None detected. Results are less than the LOD
F next to result = Result is between LOD and LOQ
Z next to result = Result is between 0 (zero) and LOD
if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>
Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.
Results relate only to the items tested.
This Laboratory Report shall not be reproduced except in full, without written approval of the laboratory.
The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

Responsible Party

Inorganic Chemistry: Graham Anderson, Supervisor 608-224-6281
Metals: Graham Anderson, Supervisor 608-224-6281
Organics: Erin Mani, Supervisor 608-224-6269
Environmental Toxicology: Dawn Perkins, Supervisor 608-224-6230
Water Microbiology: Martin Collins, Supervisor 608-224-6239
Radiochemistry: Jesse Wouters, Supervisor 608-224-6227

Environmental Health Division

WSLH Sample: 712691001

Report To:
BEN BROOKS
WAUSAU WWTP
430 ADRIAN ST
WAUSAU, WI 54401

Invoice To:
TONIRAYALA WAUSAU CITY CLERK
407 GRANT ST
WAUSAU, WI 54403

Customer ID: 358849

Field #: VAF130323
Project No:
Collection End: 11/30/2023 11:38:00 AM
Collection Start:
Collected By: JASON SCHILL
Date Received: 12/1/2023
Date Reported: 12/15/2023
Sample Reason:

ID#:
Sample Location:
Sample Description:
Sample Type: EF-EFFLUENT (TREATED WW)
Waterbody:
Point or Outfall:
Sample Depth:
Program Code:
Region Code:
County:

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 12/05/23 09:00		Analysis Date: 12/06/23 20:50			
PFBA (375-22-4)	WSLH PFAS in Water	13.1	ng/L	0.648	1.83
PFPeA (2706-90-3)	WSLH PFAS in Water	13.3	ng/L	0.259	0.915
PFBS (375-73-5)	WSLH PFAS in Water	154	ng/L	0.199	0.915
4:2 FTSA (757124-72-4)	WSLH PFAS in Water	<0.195	ng/L	0.195	0.915
PFHxA (307-24-4)	WSLH PFAS in Water	15.0	ng/L	0.307	0.915
PFPeS (2706-91-4)	WSLH PFAS in Water	<0.170	ng/L	0.170	0.915
HFPO-DA (13252-13-6)	WSLH PFAS in Water	<0.206	ng/L	0.206	0.915
PFHpA (375-85-9)	WSLH PFAS in Water	2.46	ng/L	0.288	0.915
PFHxS (355-46-4)	WSLH PFAS in Water	2.86	ng/L	0.167	0.915
DONA (919005-14-4)	WSLH PFAS in Water	<0.271	ng/L	0.271	0.915
6:2 FTSA (27619-97-2)	WSLH PFAS in Water	0.299F	ng/L	0.222	0.915
PFOA (335-67-1)	WSLH PFAS in Water	7.73	ng/L	0.224	0.915
PFHpS (375-92-8)	WSLH PFAS in Water	0.236F	ng/L	0.200	0.915
PFOS (1763-23-1)	WSLH PFAS in Water	34.0	ng/L	0.303	0.915

Environmental Health Division

WSLH Sample: 712691001

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 12/05/23 09:00		Analysis Date: 12/06/23 20:50			
Branched isomer peak area ratio not observed in analytical standard					
PFNA (375-95-1)	WSLH PFAS in Water	1.56	ng/L	0.249	0.915
9CI-PF3ONS (756426-58-1)	WSLH PFAS in Water	<0.175	ng/L	0.175	0.915
8:2 FTSA (39108-34-4)	WSLH PFAS in Water	<0.135	ng/L	0.135	0.915
PFDA (335-76-2)	WSLH PFAS in Water	2.24	ng/L	0.255	0.915
PFNS (68259-12-1)	WSLH PFAS in Water	<0.173	ng/L	0.173	0.915
N-MeFOSAA (2355-31-9)	WSLH PFAS in Water	5.59	ng/L	0.308	0.915
N-EtFOSAA (2991-50-6)	WSLH PFAS in Water	6.32	ng/L	0.182	0.915
FOSA (754-91-6)	WSLH PFAS in Water	0.242F	ng/L	0.167	0.915
PFUnA (2058-94-8)	WSLH PFAS in Water	<0.230	ng/L	0.230	0.915
PFDS (335-77-3)	WSLH PFAS in Water	<0.274	ng/L	0.274	0.915
11CI-PF3OUdS (763051-92-9)	WSLH PFAS in Water	<0.170	ng/L	0.170	0.915
PFDoA (307-55-1)	WSLH PFAS in Water	<0.233	ng/L	0.233	0.915
PFDoS (79780-39-5)	WSLH PFAS in Water	<0.362	ng/L	0.362	0.915
PFTTrDA (72629-94-8)	WSLH PFAS in Water	<0.356	ng/L	0.356	0.915
N-MeFOSA (31506-32-8)	WSLH PFAS in Water	<0.355	ng/L	0.355	0.915
N-MeFOSE (24448-09-7)	WSLH PFAS in Water	<0.214	ng/L	0.214	0.915
N-EtFOSA (4151-50-2)	WSLH PFAS in Water	<0.304	ng/L	0.304	0.915
N-EtFOSE (1691-99-2)	WSLH PFAS in Water	<0.336	ng/L	0.336	0.915
PFTeDA (376-06-7)	WSLH PFAS in Water	<0.236	ng/L	0.236	0.915



Environmental Health Division

WSLH Sample: 712691001

WDNR LAB ID:113133790 NELAP LAB ID:2091 EPA LAB ID:WI00007, WI00008 WI DATCP ID:105-415

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification (for PFAS the LOQ = MRL)
ND = None detected. Results are less than the LOD
F next to result = Result is between LOD and LOQ
Z next to result = Result is between 0 (zero) and LOD
if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation>
Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.
Results relate only to the items tested.
This Laboratory Report shall not be reproduced except in full, without written approval of the laboratory.
The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

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Radiochemistry: Jesse Wouters, Supervisor 608-224-6227

Environmental Health Division

WSLH Sample: 712686001

Report To:
BEN BROOKS
WAUSAU WWTP
430 ADRIAN ST
WAUSAU, WI 54401

Invoice To:
TONIRAYALA WAUSAU CITY CLERK
407 GRANT ST
WAUSAU, WI 54403

Customer ID: 358849

Field #: J336248
Project No:
Collection End: 11/30/2023 12:13:00 PM
Collection Start:
Collected By: JASON SCHILL
Date Received: 12/1/2023
Date Reported: 1/2/2024
Sample Reason:

ID#:
Sample Location:
Sample Description: J512873-2029
Sample Type: SL-SLUDGE
Waterbody:
Point or Outfall:
Sample Depth:
Program Code:
Region Code:
County:

Sample Comments

Due to the sample's composition, less than the default 10 grams were extracted. Sample results and limits have been adjusted accordingly.
Sample results are reported based on the dry weight of the sample. Results have been adjusted to account for the sample's moisture content.

PFAS in Solids

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 12/12/23 06:55		Analysis Date: 12/13/23 13:04			
PFBA (375-22-4)	WSLH PFAS in Solids	0.218F	ng/g	0.0602	0.251
PFPeA (2706-90-3)	WSLH PFAS in Solids	0.0813F	ng/g	0.0351	0.100
PFBS (375-73-5)	WSLH PFAS in Solids	1.16	ng/g	0.0301	0.100
4:2 FTSA (757124-72-4)	WSLH PFAS in Solids	<0.0803	ng/g	0.0803	0.251
The internal standard QC limit has failed high.					
PFHxA (307-24-4)	WSLH PFAS in Solids	0.445	ng/g	0.0502	0.100
PFPeS (2706-91-4)	WSLH PFAS in Solids	<0.0351	ng/g	0.0351	0.100
HFPO-DA (13252-13-6)	WSLH PFAS in Solids	<0.0502	ng/g	0.0502	0.100
PFHpA (375-85-9)	WSLH PFAS in Solids	<0.0652	ng/g	0.0652	0.251
PFHxS (355-46-4)	WSLH PFAS in Solids	0.0361F	ng/g	0.0301	0.100

Environmental Health Division

WSLH Sample: 712686001

PFAS in Solids

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 12/12/23 06:55		Analysis Date: 12/13/23 13:04			
Transition Ion Ratio Failure.					
DONA (919005-14-4)	WSLH PFAS in Solids	<0.0351	ng/g	0.0351	0.100
6:2 FTSA (27619-97-2)	WSLH PFAS in Solids	<0.0452	ng/g	0.0452	0.100
PFOA (335-67-1)	WSLH PFAS in Solids	0.561	ng/g	0.0401	0.100
Branched isomer peak area ratio not observed in analytical standard					
PFHpS (375-92-8)	WSLH PFAS in Solids	<0.0652	ng/g	0.0652	0.251
PFOS (1763-23-1)	WSLH PFAS in Solids	7.78	ng/g	0.0301	0.100
PFNA (375-95-1)	WSLH PFAS in Solids	0.162	ng/g	0.0351	0.100
9CI-PF3ONS (756426-58-1)	WSLH PFAS in Solids	<0.0602	ng/g	0.0602	0.251
8:2 FTSA (39108-34-4)	WSLH PFAS in Solids	0.184	ng/g	0.0351	0.100
PFDA (335-76-2)	WSLH PFAS in Solids	0.818	ng/g	0.0452	0.100
PFNS (68259-12-1)	WSLH PFAS in Solids	<0.0401	ng/g	0.0401	0.100
N-MeFOSAA (2355-31-9)	WSLH PFAS in Solids	3.64	ng/g	0.0401	0.100
N-EtFOSAA (2991-50-6)	WSLH PFAS in Solids	4.54	ng/g	0.0502	0.100
PFUnA (2058-94-8)	WSLH PFAS in Solids	0.382	ng/g	0.0753	0.251
PFDS (335-77-3)	WSLH PFAS in Solids	0.231	ng/g	0.0452	0.100
11CI-PF3OUdS (763051-92-9)	WSLH PFAS in Solids	<0.0351	ng/g	0.0351	0.100
PFDoA (307-55-1)	WSLH PFAS in Solids	0.587	ng/g	0.0502	0.100
PFDoS (79780-39-5)	WSLH PFAS in Solids	<0.0652	ng/g	0.0652	0.251
The internal standard QC limit has failed low.					
PFTTrDA (72629-94-8)	WSLH PFAS in Solids	0.201	ng/g	0.0401	0.100
N-MeFOSA (31506-32-8)	WSLH PFAS in Solids	0.877	ng/g	0.100	0.251
Branched isomer peak area ratio not observed in analytical standard					
The internal standard QC limit has failed low.					
N-MeFOSE (24448-09-7)	WSLH PFAS in Solids	10.1	ng/g	0.115	0.251

Environmental Health Division

WSLH Sample: 712686001

PFAS in Solids

Analyte	Analysis Method	Result	Units	LOD	LOQ
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Prep Date: 12/12/23 06:55 Analysis Date: 12/13/23 13:04

Branched isomer peak area ratio not observed in analytical standard

The internal standard QC limit has failed low.

N-EtFOSA (4151-50-2)	WSLH PFAS in Solids	0.486	ng/g	0.0602	0.251
N-EtFOSE (1691-99-2)	WSLH PFAS in Solids	1.78	ng/g	0.0401	0.100
PFTeDA (376-06-7)	WSLH PFAS in Solids	0.249	ng/g	0.0452	0.100

The internal standard QC limit has failed low.

Prep Date: 12/12/23 06:55 Analysis Date: 12/13/23 13:51

FOSA (754-91-6)	WSLH PFAS in Solids	1.03	ng/g	0.0452	0.100
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Pending Tests

Percent Moisture by EPA 160.3



Environmental Health Division

WSLH Sample: 712686001

WDNR LAB ID:113133790 NELAP LAB ID:2091 EPA LAB ID:WI00007, WI00008 WI DATCP ID:105-415

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ND = None detected. Results are less than the LOD
F next to result = Result is between LOD and LOQ
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if LOD=LOQ, Limits were not statistically derived

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Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.
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Water Microbiology: Martin Collins, Supervisor 608-224-6239
Radiochemistry: Jesse Wouters, Supervisor 608-224-6227



TO: Wausau Waterworks Commission

FROM: Eric Lindman, P.E.
Director of Public Works & Utilities

DATE: January 9, 2024

SUBJECT: 2024 Environmental Loan Projects – Loan & Principal Forgiveness

Over the past 18-months staff has spent considerable time and effort preparing applications for projects to secure principal forgiveness loans through the WDNR Environmental Loan Fund. These projects are specifically for water, wastewater and storm water projects. With the introduction of the Bipartisan Infrastructure Law (BIL) these funds have just begun to become available through the program. The City of Wausau was provided the following potential funding for the identified projects:

WDNR Environmental Loan Fund - 2023/2024 Projects			
Clean Water Fund (CWF)			
Project Description	WDNR Loan	WDNR PF	Other
Stewart Ave Sewer/Force Main	\$1,324,920.00	\$567,823.00	\$0.00
WWTP Headworks Screening	\$1,375,167.00	\$3,208,723.00	\$800,000.00
Eau Claire Blvd Sewer	\$904,490.00	\$157,010.00	\$0.00
Total CWF =	\$3,604,577.00	\$3,933,556.00	\$800,000.00
Safe Drinking Water Fund (SDWF)			
Project Description	WDNR Loan	WDNR PF	Other
LSL Replacement	\$2,148,950.00	\$3,641,078.00	\$0.00
GAC Treatment	\$12,831,091.00	\$4,737,025.00	\$0.00
Total SDWF =	\$14,980,041.00	\$8,378,103.00	\$0.00
Total CWF & SDWF =	\$18,584,618.00	\$12,311,659.00	

Staff has reviewed each of the projects as well as the requirements needed to utilize this funding and receive the Principal Forgiveness. The additional requirements for procurement are extensive and require an extensive amount of additional administrative work for projects. The additional federal requirements also may significantly increase the overall cost of the project, this is due to the requirement of using federal wage rates. Summary of each project as well as the recommendation.

Clean Water Fund Program (Wastewater)

Stewart Ave Sewer/Force Main - Full reconstruction of Stewart Ave from 48th to 72nd. It includes replacement of water, sewer and storm sewer as well as the addition of a multi-use trail on the north side of the road.

1. The CWF funding is only funding for the sewer main portion of the project. The overall project cost is about \$6 million.
2. This project is being partially funded through the DOT and has federal funding requirements included in the procurement.
3. Additional requirements would be using Federal Wage Rates vs. State Prevailing Wage Rates if the WDNR funding is used. This would likely increase the cost of the project overall but not significantly.
4. Currently working with DOT on the procurement using Davis-Bacon wages versus State Prevailing Wages. The project is proposed to be bid in February 2024.

WWTP headworks Screening – Project was initially to be completed as part of the WWTF upgrade but was removed due to the costs of the project. The project will make needed improvements to the headworks of the facility, key aspects of the project will allow staff to properly remove and maintain the screens, improve the solids handling portion of the process and repair/support the building that has been settling and shifting.

1. CWF funding will cover the entire cost of the project.
2. Due to the specialty nature of the work to be performed it is unlikely requiring federal wage rates would have a significant cost impact on the project.
3. Some challenges may be the Build America Buy America requirements to get products made in America. At this time it seems feasible to meet this requirement based on the types of equipment we are specifying.
4. The city has also obligated \$800,000 of ARPA funds to this project. There would be different ways to incorporate this funding for the project to reduce the amount of loan. This could be reducing the scope of the project with the DNR and use the ARPA funds to pay for a stand alone portion of the project. This would likely not be a dollar-for-dollar benefit as the DNR project funding was allocated as a percentage based on the total project scope and cost.

Eau Claire Blvd Sewer – City 2024 local Street project. Project is full reconstruction of the street to include replacement of the sewer, water and storm sewer.

1. CWF funding is only to cover the sewer portion of the project.
2. There is currently no requirement for wage rates in this project as the project is proposed to use local funding only. Adding Davis Bacon wage rates to the project is likely to increase the overall project by 15-20%. This increase would likely exceed the amount of PF we are proposing to receive the WDNR funding.

Safe Drinking Water Program (Drinking Water)

LSL Replacement – Replacement of the private side LSL's.

1. Currently working with Community Infrastructure Partners (CIP) to improve our inventory of private side LSL's in the areas proposed for work in 2024.
2. The council approved the CIP contract in December with some final language changes and the attorneys are finalizing the language so the contract may be signed. Once the contract is signed CIP will begin preparing the bid package, preparing public outreach materials, and getting ready for 2024 construction.
3. The current proposed SDWF funding includes Principal Forgiveness as well as loan funds. A determination of how the loan will be paid still needs to be determined as rate payer funding will not be able to be used to pay this back at this time.

GAC Treatment – Installation of Granulated Activated Carbon, a tertiary filtration process for the removal of PFAS in drinking water.

1. Project is ongoing with interim financing approved by the city council.

What are the next steps and moving forward.

1. WWWC to provide staff their initial thoughts on which projects to move for with for 2024.
2. Projects the WWWC would like to move forward staff will prepare resolutions for the next meeting, or possibly a special meeting in January.
3. Staff will work with the state and financial advisors to prepare appropriate loan closing documents for the projects moving forward.
4. It would be anticipated, depending on when decisions are made, to close on the project loans in March 2024.
5. All projects listed above are either under construction, are currently being bid or are ready to be bid in the coming month.
6. Any projects not moving forward in 2024, staff has preserved the ability to apply for funding projects during the next funding cycle, which is 2025.