



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 1:30 p.m. on
Tuesday, December 5th, 2023.

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

AGENDA-
Amended

1. Approve Minutes of November 7th 2023 Meeting.
2. Director's Report on Utility Operations
 - Drinking Water Plant Technician Retiring after 26 years of service
 - Wastewater Facility Construction Update
 - Wastewater Treatment Plant continues discharging quality effluent
 - Wastewater Lab Technician advertised, interviews to follow
 - Wastewater 2023 Cured-In-Place (CIPP) Project for Flieth/Imm Street Update
 - Wastewater Class A Dryer/Biosolids Inspection meeting held, met Class A Biosolid Requirements
 - Wastewater 48th Ave Sanitary Interceptor replacement project almost complete
 - Wastewater new T.V Van and equipment ordered-Enviro Tech, scheduled to arrive early 2024
3. Discussion on the Water Savy Campaign and Water Conservation for Customer Outreach.
4. Discussion on the Disposition of the Old Water Treatment Plant.
5. Discussion on Staffing Demands for Upcoming Locates Beginning in 2024 for the Installation of City-wide Fiber Optic Cable by Multiple Providers.
6. Discussion on Testing and Monitoring Wastewater for PFAS.
7. Discussion and Possible Action on Approving Contract between Wausau Water Works, City Works, and Axim Geospatial for Asset Management.

Adjourn.

**Next meeting scheduled for January 9th at 10:30 A.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: December 4th, 2023 at 11:30 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 gina.vang@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 November 7, 2023

A meeting of the Wausau Water Works Commission was called to order at 1:32 p.m. in City Hall on Tuesday, November 7th, 2023. In compliance with Wisconsin Statutes, this meeting was posted and receipted for by the Wausau Daily Herald on November 6th, 2023.

Members Present: President Rosenberg, Commissioners Herbst, Robinson, Force, Gehin
Others Present: Eric Lindman, Scott Boers, Ben Brooks, Tegan Troutner, James Henderson, Anne Jacobson, Doug Diny, Tom Killian, Susan Wojtkiewicz/ Donohue, Joe Kafczyk/ Becher-Hoppe

1) Approve Minutes of October 17th 2023 Meeting.

Herbst motioned to approve minutes. Seconded by Gehin.
Motion Carried 5-0.

2) Director's Report on Utility Operations.

Robinson questioned if there would be need for another ion exchange resin due to the accelerated schedule not taking place and if we were monitoring PFAS levels at individual wells?

Boers replied the accelerated schedule didn't work because there was no guarantee the equipment would be available or delivered on time and there was no reason to keep sampling at individual wells because the numbers were always close between 30-40 parts consistently.

Force questioned if this would delay the construction of the Granular Activated Carbon (GAC) vessels and incur more costs if we required more changeouts of the resin?

Boers replied it took a while to build the plant and there is one more changeout that's already been budgeted for the \$1.1 million but we may not incur costs if we could keep PFAS level low prior to the carbon.

Gehin wanted to recognize Brooks for being selected as the Vice Chair in Wastewater Association.

Herbst questioned if the Wastewater lab technician resigned due to wages?

Brooks replied not in this case, he was leaving for personal reasons and that Human Resources would be reviewing his job position and possible title change before it's posted.

Director's Report Placed on File.

3) Discussion and Possible Action Approving an Ordinance Amendment for Mandatory Lead Service Line Replacement.

Lindman began we brought a draft last month and worked with legal and Horsley Witten and incorporated comments and recommendations received pertinent to city of Wausau.

Robinson questioned the wording changes of Wausau Water Utility and Water Utility System to define the system and then the role of the commission in developing guidance and exemptions? He questioned the roles for Director of Public Works and Director of Water Utility, and appeals coming to the commission as the County has it where appeals go to the administrator,

and if this was consistent with the city policy where things go to the governing body, an arbitrator or assigned person. He questioned the 7-year period with exemptions because there was talk about 5 or 15 years, and lastly the continued concern about the costs. We've got ranges but it would be helpful to know before we vote.

Lindman replied could work on the wording changes and consistency. The 7 years versus 5 years were because of the delay in the funding. If we ask for the 5 years, the last year of funding is not going to be spent until year 6 or 7 and that was the reasoning that it may be longer. As for the commission and its role, some things, as we move forward the commission needs to consider are budget impacts and we don't have a firm value on those. We have a value on the public side estimating 2,500 public side services at \$10,000 each, so an estimated fiscal impact is \$25 million over the course of the 5 years. The private side, we are getting principal forgiveness promised by the State/Federal government but that's not 100%. This year we are anticipating 80/20 on private side so a discussion would have to be made on who's going to pay for that 20%. The utility or city or if there would be a loan program for the residents. That's the next step for 2024. We are working with CIP to try and fill the funding gap with other sources and access additional funding outside our normal channels.

Rosenberg added that if we are using the Bipartisan Infrastructure Law (BIL), the private side, those folks won't be able to cover the costs of this so that's another thing we have to consider when looking at this.

Force questioned the timing of when we need to put this ordinance in place?

Lindman replied we must have this ordinance in place before we submit an application to the PSC for the potential use of utility revenue funds for the private side. Currently, the PSC only allows up to 50% of a private side if you have their approval and part of that is the ordinance. We are working with Horsley Witten to get this application put in place. Financially moving forward, we don't know what impacts would be and we could only make our best assumptions. The Mayor and I've spoken about possible subsidies or other options and we will also have further discussions with CIP as well.

Rosenberg stated it would be worth our time to get public feedback and listen to people, there's still some time for us and we have many people who want them replaced than what we have the funding for so our hair is not on fire but we could engage the public in this.

Lindman questioned if it's the fiscal impact or if there were any other significant concerns the commission may have?

Force replied fiscal impact but it's also the requirement that all homeowners replace their galvanized or lead lines. Public feedback is that if it's mandatory, and they don't want to do it, then what? We've talked about trenchless excavation and that's the default approach but concerns arise from people who have driveways and stonework that would be torn up. The wording in the ordinance itself didn't have language between the homeowner who objects and the utility trying to enforce or the resident who is protesting the mandatory requirement.

Robinson replied that's addressed under 13.66.090 exemptions. Guidelines for consideration is developed by the water commission, we want to have an idea of what those parameters may be before the ordinance is approved. Policy and clear expectation upfront but I support taking this up for hearing. So, by making a mandatory ordinance we qualify for covering cost through our utility rates that creates a funding source for those who can't pay. If we take the BIL dollars, we can't charge for the private side so there is no cost to the property owner. The other issue would be to service the property. If we add another \$25 million to the water rates that's excessive, we have to give thought to what that may mean and leverage a reasonable sum that people could afford.

Lindman replied he wants the commission to be comfortable moving forward but then this won't be ready for the 2024 construction season. There are two reasons to do this mandatory

ordinance, one is for PSC to use utility rates to pay back loans for private replacements, the other one is that it gains additional points for when we apply for lead service line funding from the DNR. That's part of their requirement. We've submitted the intent to apply for the 2025 season.

Robinson questioned the drop-dead date on the ordinance? Is it when the grant application is made and not during the intent to apply (ITA).

Lindman replied yes when they score the projects, I believe the ITA does a tentative score on those.

Boers replied they check for eligibility through the ITA then they look at scoring come June in the application.

Robinson requested a timeline on when we would need to take action understanding that this commission doesn't enact the ordinance and that it's the city council. Then we want to look at what the expectations are for this commission relative to those exemptions, policy and procedures. Then the exposure to the rate payers that have noncomplying public and private side and those that are complying because those costs would shift to them as well.

Force questioned if or when there would be a public session on this document? We should take this document and get the public's input before we start making changes on our own.

Rosenberg replied that's part of the development for this timeline.

Boers stated the ordinance does incentivize non partial replacements. Currently with our street reconstruction projects we are still allowed to do partial replacements but there is a higher chance of lead being released into the water with the disturbance of the lines, so an ordinance would reduce partial replacements.

Rosenberg stated that what she is hearing is establishing a timeline, talking through public engagement sessions, effects on customers both monetarily and their homes and yards.

Killian stated he was glad that the commission brought up the public engagement component as this is so far reaching and it would impact a lot of different segments with different needs. Is it possible to develop a language access plan if the commission doesn't already have one? It would be nice to see that on the commission side not as an elective but a requirement to help with transparency and if we do have partnership with CIP so that the council knows what the expectations are and with the open records requests so the public knows or has an idea of what's going on and participate and sees transparency and accountability.

Rosenberg replied with this partnership we've emphasized specifically with folks who don't speak any English and working with H2N for both Spanish and Hmong speaking folks.

Robinson stated we have the guidance of the ordinance and then we have the contract. As we look at those timelines and the development of CIP with timeline for turnaround if we could incorporate those in there. If we look at 2024 now, when would we know start date for 2025 so there is an understanding for us, council and public. At least 30 days' notice but hopefully we give more than 30 days when dealing with contractor or public.

Rosenberg reiterated that we'll expect a timeline for our next meeting and questioned the commission to continue looking at this draft and decide what else the body needed.

No Action Taken.

4) Adjourn.

Herbst motioned to adjourn. Seconded by Robinson.

Motion Carried 5-0.

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

Gina Vang, Recording Secretary

S:\WaterWorks\Common\WaterCommission\2023\December\WWWC_20231107_Minutes.doc.



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 – December 2023

WATER DIVISION

1. We have received notice that our most experienced technician of over 26 years will be retiring. His last day will be May 10th. This will leave 2 ½ FTE's, our current plant staff, left operating and maintaining the new 40-million-dollar treatment facility. On that day, May 10th, our most senior Maintenance Technician will have 1 year and 27 days experience.

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: Advertising for the vacant position commenced on November 13, 2023 and closes December 4, 2023. Interviews to follow.
4. The 2023 Cured-In-Place (CIPP) project for Flieth Street and Imm Street has commenced with a completion date scheduled for mid-December 2023.
5. Class A Dryer/Biosolids Inspection meeting was held on November 16, 2023. Those present were WDNR, Donohue Engineers and Wastewater Treatment Staff. WDNR has determined that the dried sludge being produced has met Class A Biosolids requirements and has given verbal approval of such. Formal letter of approval to follow.

6. 48th Avenue Sanitary Interceptor replacement project is 98% complete with security fencing yet to be installed.
7. New T.V. Van and equipment was ordered November 6, 2023 from EnviroTech. Delivery of new T.V. Van is scheduled early 2024.

Project Status Report



Wastewater Treatment Facility Improvements Project – Engineer During Construction

City of Wausau, Wisconsin

Donohue Project Number 13229

Period | October 8, 2023 – November 4, 2023

Invoice 77

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.
- Prepared Clean Water Fund closeout documentation including O & M checklist, project acceptance and documentation of DBEs.
- The Engineer's application engineering staff continues to fine tune the various systems as unit process systems are being operated.
- Final Change Order 28 was submitted to City and approved.
- The last of the Certificates of Substantial Completion for those process systems that the Owner has been operating have been provided to the Contractor for signature.
- Continue to verify completed punch list items and develop a warranty items list for the final close out letter with the Contractor.
- 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 when necessary.
- Review any final punch list items as they are completed by the Contractor.
- 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

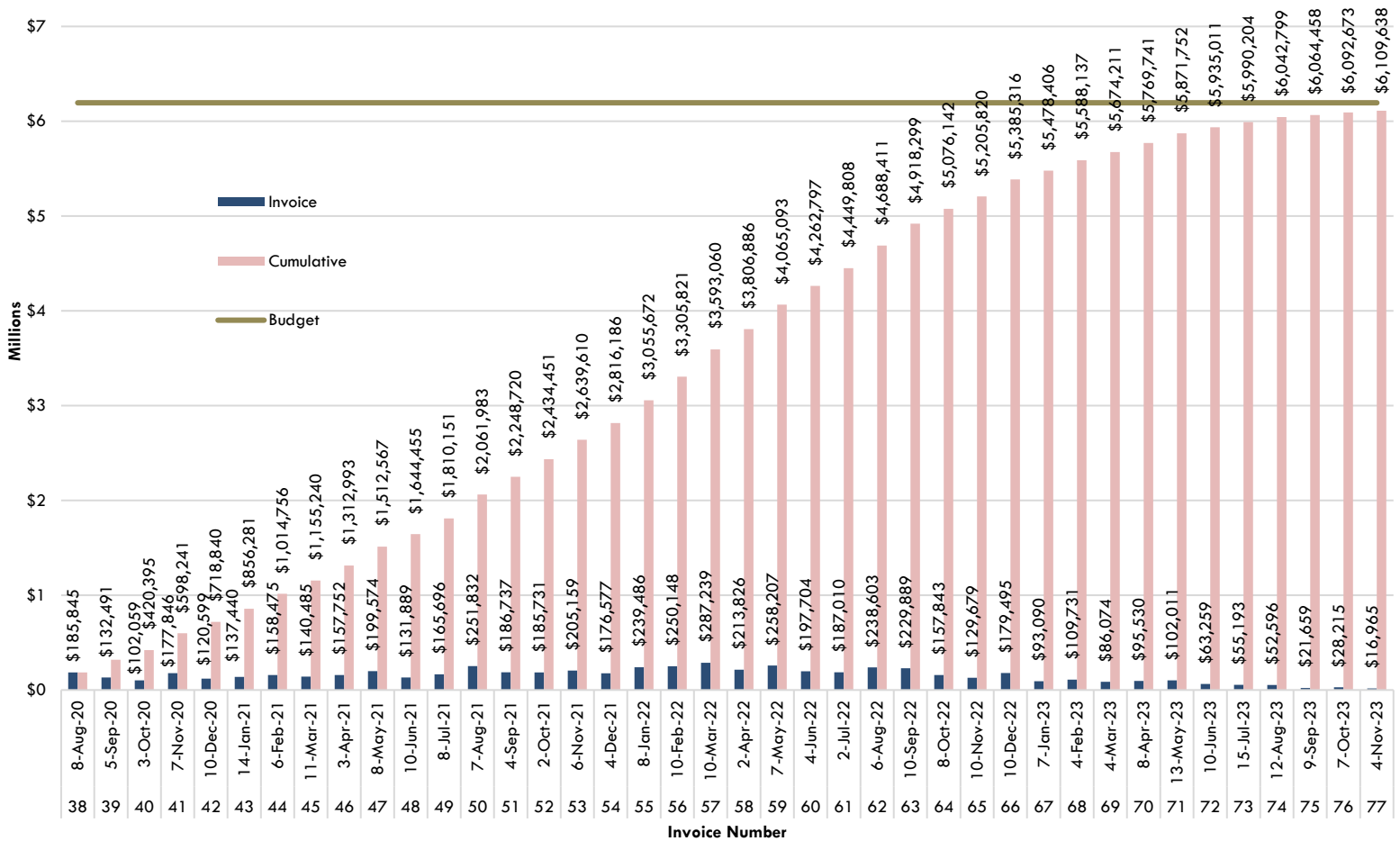
Donohue Project Number 13229

Period | October 8, 2023 – November 4, 2023

Invoice 77

Project Related Budget Snapshot

Construction Engineering Budget



Project Status Report

Wastewater Treatment Facility Improvements Project – Engineer During Construction

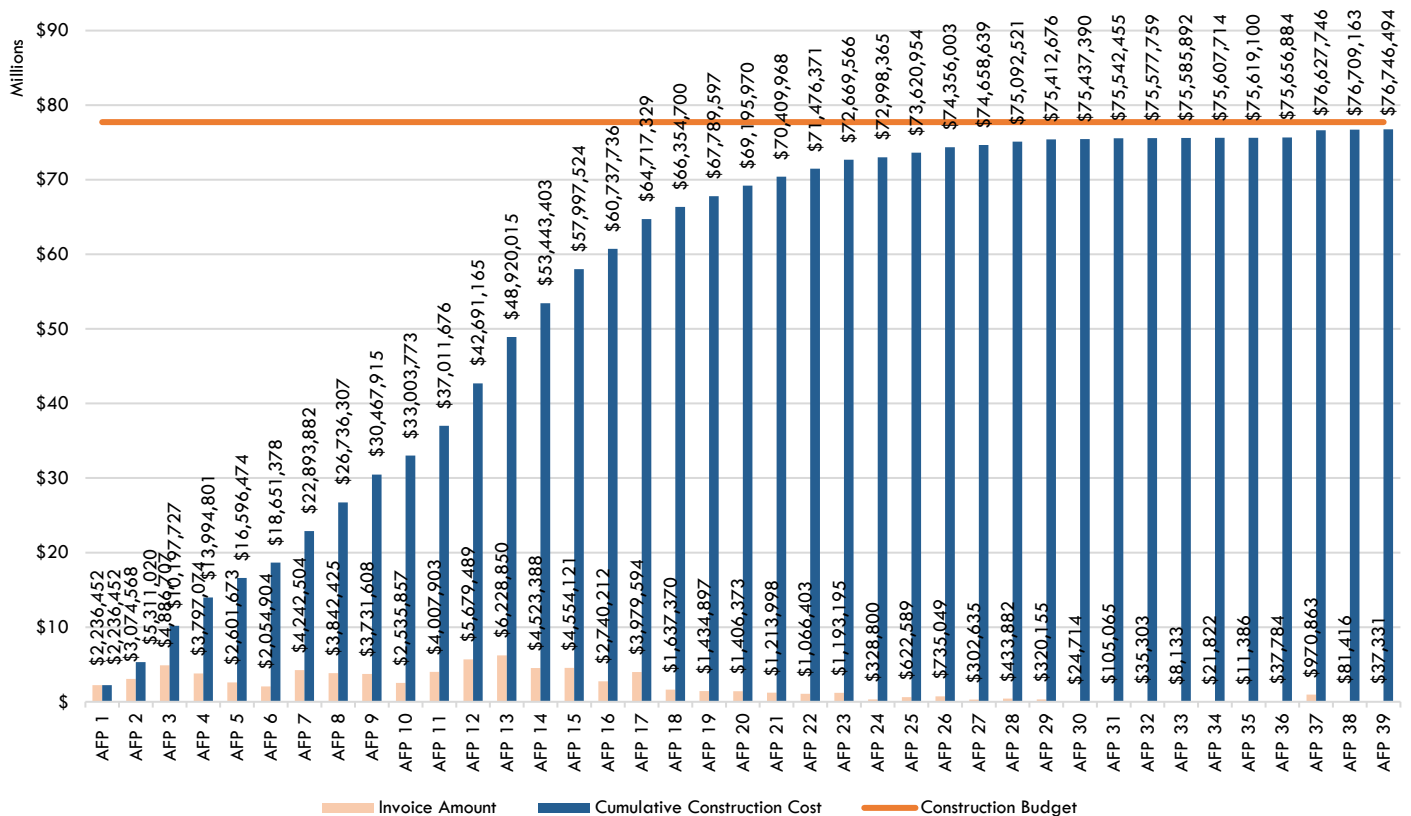
City of Wausau, Wisconsin

Donohue Project Number 13229

Period | October 8, 2023 – November 4, 2023

Invoice 77

Construction Budget: Pay Applications Approved by Engineer



Project Status Report



Wastewater Treatment Facility Improvements Project – Engineer During Construction

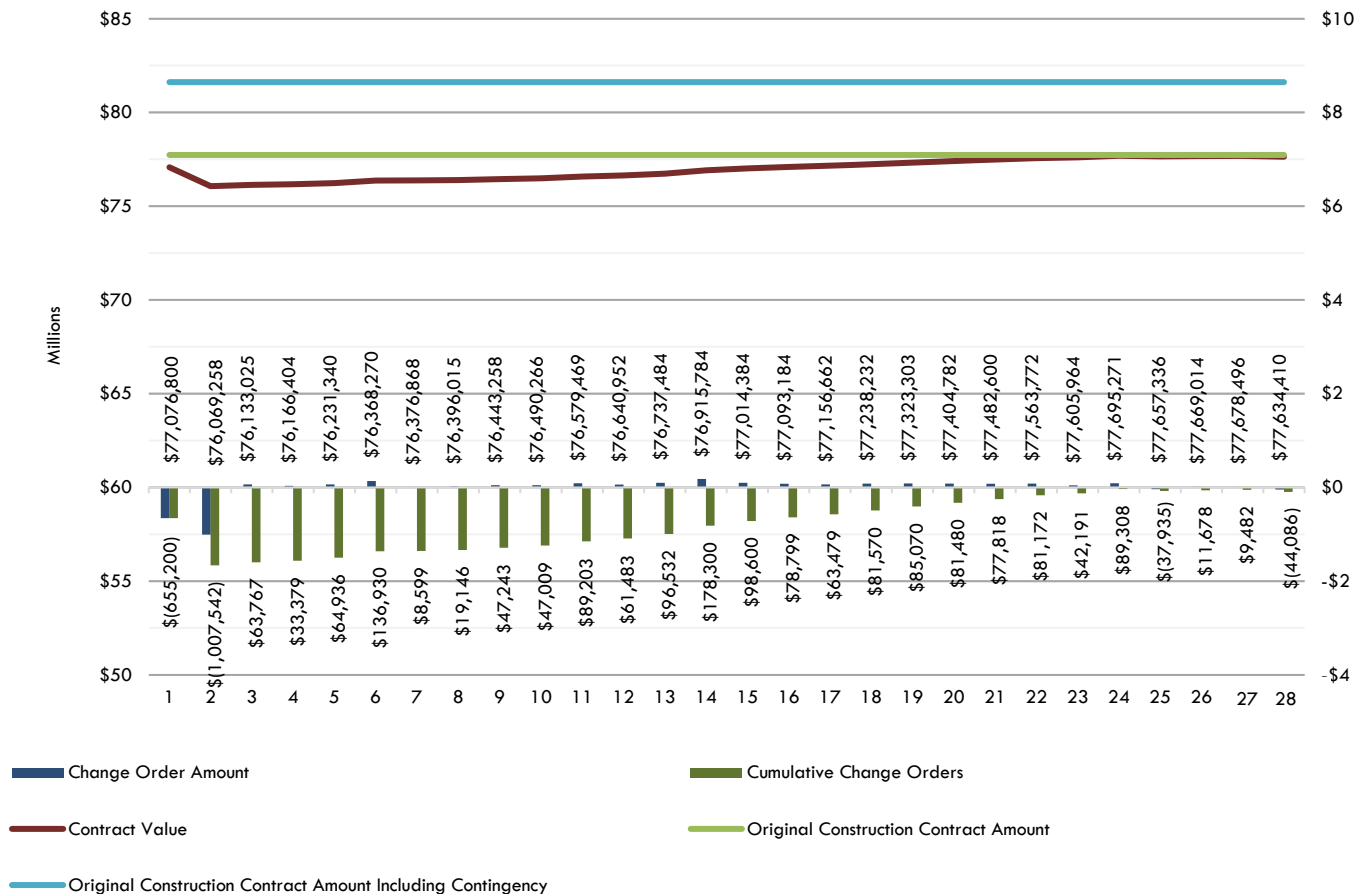
City of Wausau, Wisconsin

Donohue Project Number 13229

Period | October 8, 2023 – November 4, 2023

Invoice 77

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:

November 9, 2023

Donohue Project No.:

13229

Invoice No:

13229-77

Project Manager:

Mike Gerbitz

Terms:

Net 30 Days

Billing Period:

10/08/23 - 11/04/23

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	\$	10,560,872.52
Charges Previously Billed	\$	10,543,907.52
Current Charges	\$	16,965.00

Summary of Current Charges

Labor (86.5 hours)	\$	16,965.00
Reimbursable Expenses	\$	-
Permit Review Fees	\$	-
Subconsultants	\$	-
Total	\$	16,965.00

Current Charges Due	\$	16,965.00
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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

<u>Aged Receivables</u>				
<u>Current</u>	<u>31 - 60 Days</u>	<u>61 - 90 Days</u>	<u>91 - 120 days</u>	<u>≥120 days</u>
\$16,965.00	\$28,214.50	\$0.00	\$0.00	\$1,640.73

Laboratory Report

Environmental Health Division

WSLH Sample: 707872001

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 #: INFLUENT
Project No:
Collection End: 10/24/2023 8:30:00 AM
Collection Start:
Collected By: JASON SCHILL
Date Received: 10/25/2023
Date Reported: 11/27/2023
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

Interference in PFBA peak. The target peak for PFBA is better resolved in the 1/25 dilution. PFBA is reported from the 1/25 dilution; isotope dilution is achieved for the result.
The area of the target peak for PFBS was above the area of the highest calibration standard. The sample was diluted by a factor of 25 prior to repeat extraction. A result for PFBS is reported from the 1/25 diluted sample; isotope dilution is achieved for the result.

PFAS in Waste Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 10/31/23 13:00		Analysis Date: 11/03/23 12:49			
PFPeA (2706-90-3)	WSLH PFAS in Waste Water	4.52	ng/L	0.285	0.994
4:2 FTSA (757124-72-4)	WSLH PFAS in Waste Water	<0.394	ng/L	0.394	0.994
PFHxA (307-24-4)	WSLH PFAS in Waste Water	5.03	ng/L	0.327	0.994
Compound detected in lab blank.					
PFPeS (2706-91-4)	WSLH PFAS in Waste Water	<0.403	ng/L	0.403	0.994
HFPO-DA (13252-13-6)	WSLH PFAS in Waste Water	<0.336	ng/L	0.336	0.994
PFHpA (375-85-9)	WSLH PFAS in Waste Water	1.67	ng/L	0.248	0.994

Environmental Health Division

WSLH Sample: 707872001

PFAS in Waste Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 10/31/23 13:00		Analysis Date: 11/03/23 12:49			
PFHxS (355-46-4)	WSLH PFAS in Waste Water	1.85	ng/L	0.406	0.994
Confirmation result = 0.537 ng/L, interference					
Transition Ion Ratio Failure.					
DONA (919005-14-4)	WSLH PFAS in Waste Water	<0.273	ng/L	0.273	0.994
6:2 FTSA (27619-97-2)	WSLH PFAS in Waste Water	<0.573	ng/L	0.573	1.99
The internal standard QC limit has failed high.					
PFOA (335-67-1)	WSLH PFAS in Waste Water	4.68	ng/L	0.224	0.994
PFHpS (375-92-8)	WSLH PFAS in Waste Water	<0.278	ng/L	0.278	0.994
PFOS (1763-23-1)	WSLH PFAS in Waste Water	6.30	ng/L	0.461	0.994
PFNA (375-95-1)	WSLH PFAS in Waste Water	<0.442	ng/L	0.442	0.994
9CI-PF3ONS (756426-58-1)	WSLH PFAS in Waste Water	<0.357	ng/L	0.357	0.994
8:2 FTSA (39108-34-4)	WSLH PFAS in Waste Water	<0.383	ng/L	0.383	0.994
PFDA (335-76-2)	WSLH PFAS in Waste Water	<0.994	ng/L	0.449	0.994
Transition ion ratio failure.					
Interference					
PFNS (68259-12-1)	WSLH PFAS in Waste Water	<0.461	ng/L	0.461	0.994
N-MeFOSAA (2355-31-9)	WSLH PFAS in Waste Water	<0.401	ng/L	0.401	0.994
N-EtFOSAA (2991-50-6)	WSLH PFAS in Waste Water	2.83F	ng/L	1.20	3.98
FOSA (754-91-6)	WSLH PFAS in Waste Water	<0.582	ng/L	0.582	1.99
The internal standard QC limit has failed low.					
PFUnA (2058-94-8)	WSLH PFAS in Waste Water	<0.372	ng/L	0.372	0.994
PFDS (335-77-3)	WSLH PFAS in Waste Water	<0.364	ng/L	0.364	0.994
11CI-PF3OUdS (763051-92-9)	WSLH PFAS in Waste Water	<0.191	ng/L	0.191	0.994

Environmental Health Division

WSLH Sample: 707872001

PFAS in Waste Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 10/31/23 13:00		Analysis Date: 11/03/23 12:49			
	Water				
PFDaA (307-55-1)	WSLH PFAS in Waste	<0.226	ng/L	0.226	0.994
	Water				
PFDaS (79780-39-5)	WSLH PFAS in Waste	4.53	ng/L	0.259	0.994
	Water				
The Relative Percent Difference (RPD) for the sample and sample duplicate does not meet the QC limit.					
PFTTrDA (72629-94-8)	WSLH PFAS in Waste	<0.388	ng/L	0.388	0.994
	Water				
N-MeFOSA (31506-32-8)	WSLH PFAS in Waste	<1.61	ng/L	1.61	3.98
	Water				
N-MeFOSE (24448-09-7)	WSLH PFAS in Waste	<1.11	ng/L	1.11	3.98
	Water				
N-EtFOSA (4151-50-2)	WSLH PFAS in Waste	<1.21	ng/L	1.21	3.98
	Water				
N-EtFOSE (1691-99-2)	WSLH PFAS in Waste	<0.737	ng/L	0.737	1.99
	Water				
PFTTeDA (376-06-7)	WSLH PFAS in Waste	<0.994	ng/L	0.327	0.994
	Water				
Transition ion ratio failure.					
Prep Date: 10/31/23 13:00		Analysis Date: 11/03/23 13:17			
	Water				
PFBA (375-22-4)	WSLH PFAS in Waste	40.9F	ng/L	19.7	43.7
	Water				
Interference					
PFBS (375-73-5)	WSLH PFAS in Waste	173	ng/L	4.72	21.8
	Water				

Environmental Health Division

WSLH Sample: 707872001

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

Wisconsin Department of Natural Resources Laboratory Report

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6/25/2021

Lab FID: 113133790

Sample ID: 542489004

Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID: 113133790

PO Box 7996

2601 Agriculture Dr

Madison WI 53718

Phone: 608-224-6203

Fax: 608-224-6213

Sample:

Field #: WAUSAUEFF

Sample #: 542489004

Collection Start: 1/5/2021 1:04:00 PM

Collection End: 1/5/2021 1:04:00 PM

Collected By: AUSTIN GRIESBACH

ID #:

Waterbody/Outfall Id:

County: Marathon

ID Point #: OUTFALL 001

Sample Location: WAUSAU WWTF - 435
ADRIAN STREET, WAUSAU,
WI

Account #: WQ033

Sample Description: WAUSAU WWTP EFFLUENT
COMPOSITE SAMPLE

Sample Source: Effluent

Sample Depth:

Date Reported: 6/24/2021

Sample Status: CORRECTED

Project No:

Sample Reason:

Comment: COLLECTION DATE UNKNOWN. TIME LISTED AS 13:04 ON PAPERWORK.
Analyzed past the 30 days holding time: Method Modified ISO 21675 analyzed on
03/05/21 2008 Analyzed past the 28 days holding time: Method WSLH PFAS in Water
analyzed on 03/19/21 0800

Analyses and Results:

Analysis Method

Analysis Date

Lab Comment

Sample ID: 542489004

Field Data

Code	Description	Result	Units	LOD	Report Limit	LOQ
10	TEMPERATURE FIELD	11.1	C			
400	PH FIELD	7.02	SU			

Analysis Method		Analysis Date	Lab Comment				Sample ID: 542489004
WSLH PFAS in Water		4/7/2021					
Code	Description	Result	Units	LOD	Report Limit	LOQ	
99992	PERFLUORO-N-PENTANOIC ACID	12.9	ng/L	0.327		0.365	
99987	Perfluoro-n-butanesulfonic acid	16.0	ng/L	0.404		0.913	
97415	4:2 Fluorotelomer sulfonic acid	<0.416	ng/L	0.416		0.913	
99993	PERFLUORO-N-HEXANOIC ACID	15.1	ng/L	0.386		0.913	

**Wisconsin Department of Natural Resources
Laboratory Report**

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97425	Perfluoropentanesulfonic acid	<0.250	ng/L	0.250		0.365
97435	Hexafluoropropylene oxide dimer acid	<0.487	ng/L	0.487		0.913
99994	PERFLUORO-N-HEPTANOIC ACID	4.19	ng/L	0.435		0.913
99988	Perfluoro-n-hexanesulfonic acid	5.77	ng/L	0.378		0.913
97434	4,8-Dioxa-3H-perfluorononanoic acid	<0.388	ng/L	0.388		0.913
97414	6:2 Fluorotelomer sulfonic acid	1.02	ng/L	0.472		0.913
99597	Perfluoro-n-octanoic acid	14.8	ng/L	0.424		0.913
99989	Perfluoro-n-heptanesulfonic acid	<0.369	ng/L	0.369		0.913
99598	Perfluoro-n-octanesulfonic acid	8.48	ng/L	0.313		0.365
99995	PERFLUORO-N-NONANOIC ACID	1.18	ng/L	0.398		0.913
97432	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	<0.387	ng/L	0.387		0.913
97413	8:2 Fluorotelomer sulfonic acid	<0.412	ng/L	0.412		0.913
99996	PERFLUORO-N-DECANOIC ACID	0.530	ng/L	0.362		0.913
97424	Perfluorononanesulfonic acid	<0.461	ng/L	0.461		0.913
97437	N-methyl perfluorooctanesulfonamid oacetic acid	1.13	ng/L	0.495		0.913
97436	N-ethyl perfluorooctanesulfonamid oacetic acid	2.10	ng/L	0.395		0.913
97422	Perfluorooctanesulfonamide	<3.75	ng/L	3.75		4.57
99997	PERFLUORO-N-UNDECANOIC ACID	<0.375	ng/L	0.375		0.913
99990	Perfluoro-n-decanesulfonic acid	<0.420	ng/L	0.420		0.913
97433	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.363	ng/L	0.363		0.913
99998	PERFLUORO-N-DODECANOIC ACID	<0.354	ng/L	0.354		0.913
97423	Perfluorododecanesulfonic acid	<0.478	ng/L	0.478		0.913
99923	PERFLOURO-N-TRIDECANOIC ACID	<0.370	ng/L	0.370		0.913
97421	N-methyl perfluorooctanesulfonamide	<0.741	ng/L	0.741		0.913
97417	N-Methyl perfluorooctanesulfonamid oethanol	<0.373	ng/L	0.373		0.913

97420	N-ethyl perfluorooctanesulfonamid e	<0.607	ng/L	0.607		0.913
97416	N-Ethyl perfluorooctanesulfonamid oethanol	<0.381	ng/L	0.381		0.913
99924	PERFLOURO-N- TETRADECANOIC ACID	<0.327	ng/L	0.327		0.365



Laboratory Report

Environmental Health Division

WSLH Sample: 707874001

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 #: EFFLUENT
Project No:
Collection End: 10/24/2023 8:10:00 AM
Collection Start:
Collected By: JASON SCHILL
Date Received: 10/25/2023
Date Reported: 11/6/2023
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: 10/26/23 09:50		Analysis Date: 10/27/23 15:16			
PFBA (375-22-4)	WSLH PFAS in Water	33.1	ng/L	0.650	1.84
PFPeA (2706-90-3)	WSLH PFAS in Water	16.2	ng/L	0.260	0.919
4:2 FTSA (757124-72-4)	WSLH PFAS in Water	<0.196	ng/L	0.196	0.919
Interference					
Transition Ion Ratio Failure.					
Confirmation result = 4.36 ng/L interference in confirmation					
PFHxA (307-24-4)	WSLH PFAS in Water	17.0	ng/L	0.309	0.919
PFPeS (2706-91-4)	WSLH PFAS in Water	<0.171	ng/L	0.171	0.919
HFPO-DA (13252-13-6)	WSLH PFAS in Water	<0.207	ng/L	0.207	0.919
PFHpA (375-85-9)	WSLH PFAS in Water	2.32	ng/L	0.289	0.919
PFHxS (355-46-4)	WSLH PFAS in Water	2.79	ng/L	0.167	0.919
DONA (919005-14-4)	WSLH PFAS in Water	<0.272	ng/L	0.272	0.919
6:2 FTSA (27619-97-2)	WSLH PFAS in Water	0.231F	ng/L	0.223	0.919
PFOA (335-67-1)	WSLH PFAS in Water	5.86	ng/L	0.225	0.919

Environmental Health Division

WSLH Sample: 707874001

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 10/26/23 09:50		Analysis Date: 10/27/23 15:16			
PFHpS (375-92-8)	WSLH PFAS in Water	<0.201	ng/L	0.201	0.919
PFOS (1763-23-1)	WSLH PFAS in Water	7.81	ng/L	0.304	0.919
PFNA (375-95-1)	WSLH PFAS in Water	0.560F	ng/L	0.250	0.919
9CI-PF3ONS (756426-58-1)	WSLH PFAS in Water	<0.175	ng/L	0.175	0.919
8:2 FTSA (39108-34-4)	WSLH PFAS in Water	<0.136	ng/L	0.136	0.919
PFDA (335-76-2)	WSLH PFAS in Water	0.594F	ng/L	0.256	0.919
PFNS (68259-12-1)	WSLH PFAS in Water	<0.174	ng/L	0.174	0.919
N-MeFOSAA (2355-31-9)	WSLH PFAS in Water	1.38	ng/L	0.310	0.919
N-EtFOSAA (2991-50-6)	WSLH PFAS in Water	1.74	ng/L	0.183	0.919
FOSA (754-91-6)	WSLH PFAS in Water	<0.168	ng/L	0.168	0.919
PFUnA (2058-94-8)	WSLH PFAS in Water	<0.231	ng/L	0.231	0.919
PFDS (335-77-3)	WSLH PFAS in Water	<0.275	ng/L	0.275	0.919
11CI-PF3OUdS (763051-92-9)	WSLH PFAS in Water	<0.171	ng/L	0.171	0.919
PFDoA (307-55-1)	WSLH PFAS in Water	<0.234	ng/L	0.234	0.919
PFDoS (79780-39-5)	WSLH PFAS in Water	<0.364	ng/L	0.364	0.919
PFTTrDA (72629-94-8)	WSLH PFAS in Water	<0.357	ng/L	0.357	0.919
N-MeFOSA (31506-32-8)	WSLH PFAS in Water	<0.356	ng/L	0.356	0.919
N-MeFOSE (24448-09-7)	WSLH PFAS in Water	<0.215	ng/L	0.215	0.919
N-EtFOSA (4151-50-2)	WSLH PFAS in Water	<0.305	ng/L	0.305	0.919
N-EtFOSE (1691-99-2)	WSLH PFAS in Water	<0.337	ng/L	0.337	0.919
PFTeDA (376-06-7)	WSLH PFAS in Water	<0.237	ng/L	0.237	0.919
Prep Date: 10/26/23 09:50		Analysis Date: 10/27/23 17:51			
PFBS (375-73-5)	WSLH PFAS in Water	114	ng/L	2.00	9.19

PFBS result obtained from diluted sample. True isotope dilution not achieved. Result is approximate.

Environmental Health Division

WSLH Sample: 707874001

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



Laboratory Report

Environmental Health Division

WSLH Sample: 707873001

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 #: SLUDGE

Project No:

Collection End: 10/24/2023 8:50:00 AM

Collection Start:

Collected By: JASON SCHILL

Date Received: 10/25/2023

Date Reported: 11/28/2023

Sample Reason:

ID#:

Sample Location:

Sample Description:

Sample Type: SL-SLUDGE

Waterbody:

Point or Outfall:

Sample Depth:

Program Code:

Region Code:

County:

Sample Comments

Sample results are reported based on the dry weight of the sample. Results have been adjusted to account for the sample's moisture content.

Due to many internal standard failures, less than the default 10 grams of sample was extracted. Sample results and limits have been adjusted accordingly.

PFAS in Solids

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 10/31/23 11:30		Analysis Date: 11/01/23 14:37			
PFBA (375-22-4)	WSLH PFAS in Solids	0.152F	ng/g	0.0604	0.252
PFPeA (2706-90-3)	WSLH PFAS in Solids	<0.101	ng/g	0.0353	0.101
Interference					
PFBS (375-73-5)	WSLH PFAS in Solids	0.909	ng/g	0.0302	0.101
4:2 FTSA (757124-72-4)	WSLH PFAS in Solids	<0.0806	ng/g	0.0806	0.252
The internal standard QC limit has failed high.					
PFHxA (307-24-4)	WSLH PFAS in Solids	0.366	ng/g	0.0504	0.101
PFPeS (2706-91-4)	WSLH PFAS in Solids	<0.0353	ng/g	0.0353	0.101
HFPO-DA (13252-13-6)	WSLH PFAS in Solids	<0.0504	ng/g	0.0504	0.101
PFHpA (375-85-9)	WSLH PFAS in Solids	<0.0655	ng/g	0.0655	0.252

Environmental Health Division

WSLH Sample: 707873001

PFAS in Solids

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 10/31/23 11:30		Analysis Date: 11/01/23 14:37			
PFHxS (355-46-4)	WSLH PFAS in Solids	0.0559F	ng/g	0.0302	0.101
Transition Ion Ratio Failure.					
DONA (919005-14-4)	WSLH PFAS in Solids	<0.0353	ng/g	0.0353	0.101
PFOA (335-67-1)	WSLH PFAS in Solids	0.744	ng/g	0.0403	0.101
PFHpS (375-92-8)	WSLH PFAS in Solids	<0.0655	ng/g	0.0655	0.252
PFOS (1763-23-1)	WSLH PFAS in Solids	7.06	ng/g	0.0302	0.101
PFNA (375-95-1)	WSLH PFAS in Solids	0.155	ng/g	0.0353	0.101
Transition Ion Ratio Failure.					
Confirmation result < 0.624 ng/g, interference.					
9CI-PF3ONS (756426-58-1)	WSLH PFAS in Solids	<0.0604	ng/g	0.0604	0.252
8:2 FTSA (39108-34-4)	WSLH PFAS in Solids	0.175	ng/g	0.0353	0.101
The internal standard QC limit has failed high.					
PFDA (335-76-2)	WSLH PFAS in Solids	0.753	ng/g	0.0453	0.101
PFNS (68259-12-1)	WSLH PFAS in Solids	<0.0403	ng/g	0.0403	0.101
N-MeFOSAA (2355-31-9)	WSLH PFAS in Solids	2.99	ng/g	0.0403	0.101
FOSA (754-91-6)	WSLH PFAS in Solids	1.30	ng/g	0.0453	0.101
PFUnA (2058-94-8)	WSLH PFAS in Solids	0.363	ng/g	0.0755	0.252
PFDS (335-77-3)	WSLH PFAS in Solids	0.155	ng/g	0.0453	0.101
11CI-PF3OUdS (763051-92-9)	WSLH PFAS in Solids	<0.0353	ng/g	0.0353	0.101
PFDaA (307-55-1)	WSLH PFAS in Solids	0.523	ng/g	0.0504	0.101
PFDoS (79780-39-5)	WSLH PFAS in Solids	<0.0655	ng/g	0.0655	0.252
PFTTrDA (72629-94-8)	WSLH PFAS in Solids	0.153	ng/g	0.0403	0.101
N-MeFOSA (31506-32-8)	WSLH PFAS in Solids	0.408	ng/g	0.101	0.252
Branched isomer peak area ratio not observed in analytical standard.					
N-MeFOSE (24448-09-7)	WSLH PFAS in Solids	6.22	ng/g	0.116	0.252
N-EtFOSA (4151-50-2)	WSLH PFAS in Solids	0.590	ng/g	0.0604	0.252
N-EtFOSE (1691-99-2)	WSLH PFAS in Solids	2.84	ng/g	0.0403	0.101

Laboratory Report

Environmental Health Division

WSLH Sample: 707873001

PFAS in Solids

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 10/31/23 11:30	Analysis Date: 11/01/23 14:37				
PFTeDA (376-06-7)	WSLH PFAS in Solids	0.230	ng/g	0.0453	0.101
Prep Date: 10/31/23 11:30	Analysis Date: 11/01/23 16:57				
6:2 FTSA (27619-97-2)	WSLH PFAS in Solids	<0.0453	ng/g	0.0453	0.101
N-EtFOSAA (2991-50-6)	WSLH PFAS in Solids	5.69	ng/g	0.0504	0.101

Pending Tests

Percent Moisture by EPA 160.3

Environmental Health Division

WSLH Sample: 707873001

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

List of Abbreviations:

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if LOD=LOQ, Limits were not statistically derived

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Results relate only to the items tested.

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Responsible Party

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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

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

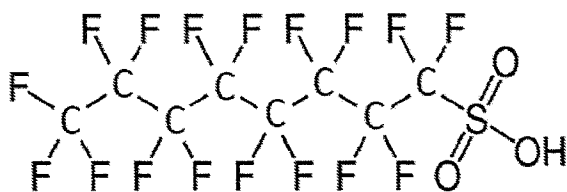
PFAS & Biosolids

March 9, 2021 | DNR.WI.GOV

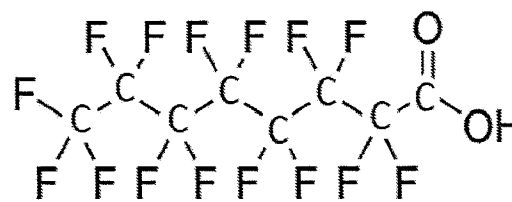


Brief PFAS Overview

- Brief Intro to PFAS
 - Over 4,000 PFAS Compounds
 - Chemistry of PFOS and PFOA



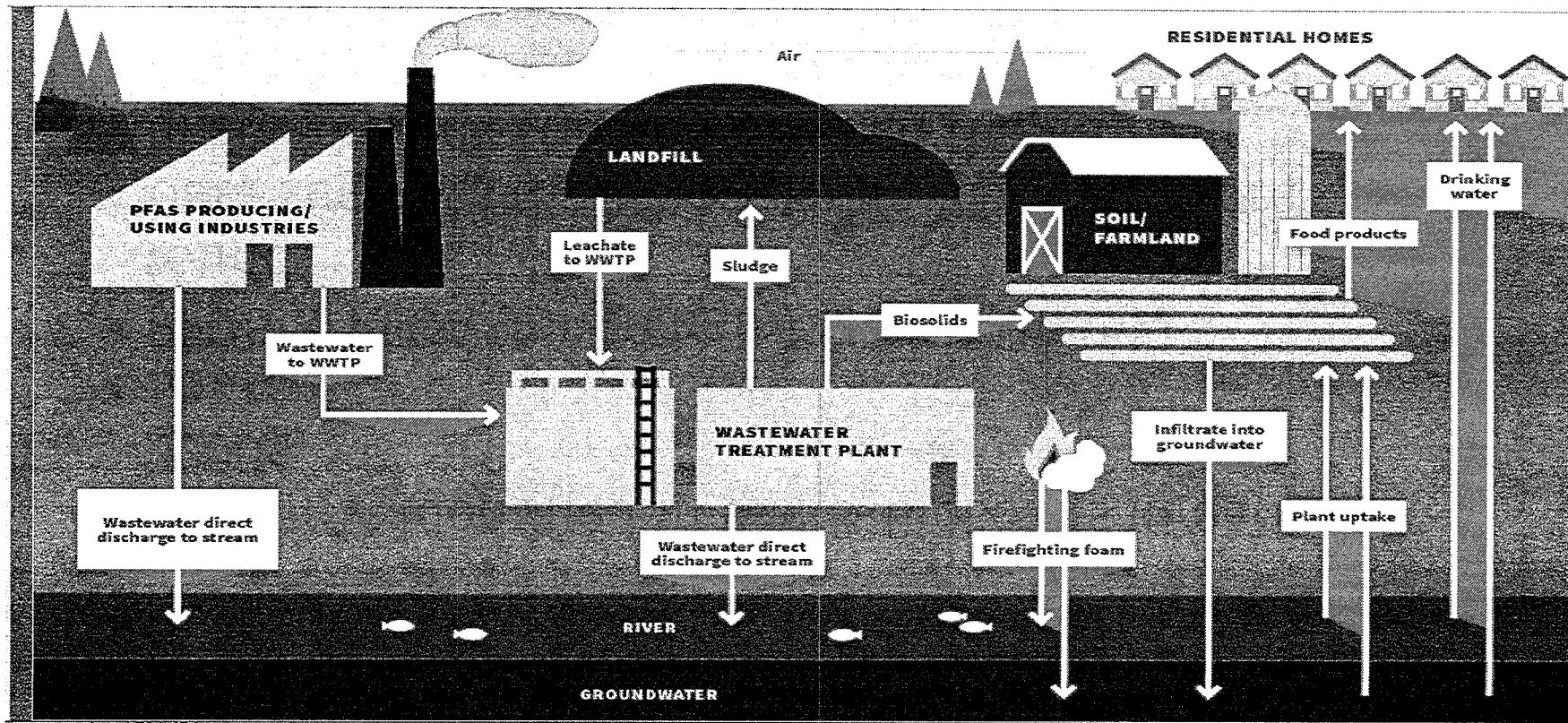
PFOS – perfluorooctanesulfonic acid



PFOA – perfluorooctanoic acid

- Termed “Forever Chemicals” due to extremely strong bonds and resistance to degradation in the environment.

PFAS Fate & Transport



PFAS in Muni WW & Biosolid

- PFAS first identified in WW & Biosolids in early 2000s
- Sources
- PFOS & PFOA (long-chain) are commonly found
- Data suggests that short-chain PFAS are more likely to be discharged through the effluent while longer chain PFAS compounds are more likely accumulate in the sludge

Regulation of Biosolids in WI

- Federally Delegated Program from EPA
- Subject to 40 CFR Part 503 Requirements
- Chapters 283, Wis. Stats. and NR 204, Wis. Adm. Code.

WI Efforts on PFAS & Biosolids

- 2019 – Gather research, monitor EPA and state activity
- 2020 – Work closely with Great Lakes states like MI
 - Evaluate various models
- 2021 – Continue coordination with EPA & Other States
 - Develop Interim Strategy Approach

Draft Interim Strategy Approach

Goal of Interim Strategy

- Provide municipal operators an approach for handling and disposing PFAS-impacted biosolids in the interim
- SOURCE REDUCTION, SOURCE REDUCTION, SOURCE REDUCTION!!!
- Interim step or approach while we gather more data and waiting on EPA to conclude risk assessment

Draft Interim Strategy Approach

- PFAS Biosolids Sampling – included at permit reissuance
- PFAS Source Reduction – will be developing more content and sharing in the near term
- Farmer and Landowner Communication – will be developing messaging and sharing in the near term
- Additional internal review pending and looking to engage with stakeholders on a final approach prior to implementation.

PFAS Biosolids Sampling

- Sample and analyze biosolids for PFAS prior to land application.
- All Municipal WWTFs with a design flow over a million gallons and WWTFs that generate EQ/Class A product will monitor PFAS in the year they plan to land apply
- Lagoon, reed bed and other facilities will monitor prior to any land application and at least once during their 5-year WPDES permit cycle

Use of Analytical Results

- Tiered System
 - Below 50 micrograms per kilograms ($\mu\text{g}/\text{kg}$) of sum of PFOA/PFOS concentrations
 - 16 $\mu\text{g}/\text{kg}$ concentration
 - 50 $\mu\text{g}/\text{kg}$ – 150 $\mu\text{g}/\text{kg}$ of sum of PFOA/PFOS concentrations
 - Above 150 $\mu\text{g}/\text{kg}$ of sum of PFOA/PFOS concentrations

Below 50 $\mu\text{g}/\text{kg}$

- If over 16 $\mu\text{g}/\text{kg}$, implement PFAS source investigation and reduction. If below, no further action necessary prior to land application.
- Provide PFAS analytical results to the landowner prior to application
- Track application rates

50 $\mu\text{g}/\text{kg}$ - 150 $\mu\text{g}/\text{kg}$

- Immediately notify DNR Staff
- Investigate potential sources to develop a source reduction program
- Reduce any future land application rates to no more than 1.5 dry tons per acre
- Provide PFAS analytical results to the landowner prior to application.
- Track application rates
- WWTF operators may decide to arrange for alternative disposal options.

Above 150 $\mu\text{g/kg}$

- Biosolids are considered industrially impacted by PFAS. Biosolids should not be land applied. Future WPDES permits likely to include language prohibiting land application above this level.
- Immediately notify DNR Staff
- Investigate potential sources to develop a source reduction program
- Arrange alternative disposal of biosolids (e.g., incineration or appropriate landfill)

Identify PFAS Sources

- Numerous potential industrial sources as discussed earlier
- Commercial sources can occasionally be a source of PFAS
- Reach out to your DNR contact to discuss a source identification and reduction plan. We are happy to assist your team.

Next Steps

- Discuss Interim Strategy internally and externally prior to implementation. This is key!
- Continue to partner with all WWTFs on PFAS efforts with an emphasis on PFAS source identification and reduction.
- Work with other states and EPA on PFAS efforts
- Review new information as it becomes available and revise strategy as appropriate.
- Keep an open dialogue!

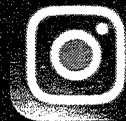
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"WILD WISCONSIN:
OFF THE RECORD"

Trimble Pricing Estimate

Prepared for City of Wausau WI

Trimble proposes the following pricing options for Cityworks Software Platform. Table 1 summarizes the pricing estimate for population served 25-50K for a **Cityworks Online AMS Premium ELA**. This includes all departments at the city of Wausau WI.

Table 1 - Software Pricing Estimate

Description	Price
Cityworks Online AMS Premium ELA: Includes the Identified Products for up to 60 Named Logins: <ul style="list-style-type: none">RespondRespond Mobile Native Apps (for iOS/Android)Office (limited use for Admin and Reporting only) -- Includes the following Add-ons: <ul style="list-style-type: none">WorkloadeURL (Enterprise URL)Cityworks Analytics AMSOperational InsightsStoreroomOpX (Contracts, Projects, Budgets)Web HooksAMS API's (Wo Basic, Advanced API's, Case API, CE API, Inspection API)	Annual Fee for 60 Logins: <ul style="list-style-type: none">Year 1: \$52,000 (30% Discount Year one)Year 2: \$63,200 (15% Discount Year two)Year 3: \$74,375 <p><i>Represents the combined total cost, including the existing AMS platforms in Wausau WI. The discounts are being offered if the city is able to purchase the software prior to Dec 24 2023.</i></p> <p><i>Additional users can be added upon request at a cost of \$125.00 per user.</i></p>

Terms & Conditions

This Rough Order of Magnitude (ROM) pricing estimate is provided by Trimble to represent our good faith estimate for software and services listed. The pricing provided herein is provided so that your organization has a budgetary sense for its investment. However, this is not a formal quote for purchase and is subject to change. If a formal quote is required, your Trimble representative will provide a firm quote at the time of request. This quotation and the pricing information herein is confidential and proprietary and may not be copied or released to outside parties or used for any other purpose without written consent from Trimble, Inc.

Date: 10-19-2023

Created by: Brett Ruoti

Senior Sales Manager - Western USA

Brett_Ruoti@trimble.com

GISinc GSA Contract
Schedule 70 GS-35F-0682R

November 16, 2023

Eric Lindman
City of Wausau, WI
Eric.lindman@ci.wausau.wi.us
407 Grant St
Wausau, Wisconsin 54401

Dear Eric,

Axim Geospatial (Axim), thanks you for your interest in our Cityworks Discovery Workshop. The Cityworks Discovery Workshop has proven to be a valuable tool for our clients looking to define project requirements, timeline, and budget for Cityworks optimizations. Included in the following pages are the scope of work and pricing.

I hope you find this information helpful. If I can provide further assistance, please do not hesitate to contact me.

Thank you again for your interest. We look forward to working with you.

Sincerely,



Matthew Pujalte
Account Executive
Axim Geospatial
100 QBE Way, Suite 1225 | Sun Prairie, WI 53590
Phone: (205) 725-5838 | Email: matthew.pujalte@aximgeo.com

I. Scope of Work

Our Cityworks Discovery Workshop is a proven process for gathering requirements, establishing scope, and identifying the optimal path or solution vision for our clients' projects. The Workshop is intended to facilitate discussions regarding the functional and configuration requirements that comprise the future Cityworks optimization. The Workshop will provide an opportunity to analyze and document your needs and requirements and ultimately outline the implementation approach and supporting strategic recommendations. The discussions will center on the current configuration, but will be considerate of forward-looking system aspects, such as vertical assets, which of known interest to the City.

Axim proposes a 4-day Cityworks Discovery Workshop to support the City of Wausau, WI. This workshop will focus on the operational requirements and gathering organizational information that will guide the configuration of a full Cityworks AMS implementation. In many cases, this discovery process is an embedded element of a full Cityworks implementation project, but it is highly effective to perform the service as an independent and predecessor project. We will support the workshop with a Cityworks implementation lead and configuration expert with have a broad range of experience designing and architecting GIS-based asset management solutions.

Additionally, Axim will also support a portion of the workshop with an enterprise GIS expert to facilitate conversation and discussion specifically targeting vertical assets, underlying data model strategies, and eventual incorporation into Cityworks solutions. Our GIS technical expert will spend 2-days onsite, overlapping with the Cityworks technical lead, with one day of collaborative/shared sessions.

The Axim technical experts will facilitate, discussions, interviews, and brainstorming session, but most importantly, the team will be listening to staff and stakeholders. The information we gather will be translated into configuration documentation, implementation plans and recommendations, and strategies for vertical asset acquisition and integration. Ultimately, the workshop is intended to combine the local domain knowledge of City stakeholders with the breadth of technical expertise and experience from Axim to produce an optimal path forward.

A high-level agenda for the Discovery Workshop is captured is represented below:

***Days 1 - 3** – During the first three days, our Cityworks technical expert will focus on understanding City business processes by discussing and capturing assets and workflows as well as roles and responsibilities. We will also compile organizational inputs to establish the foundational configuration framework for Cityworks. These exercises will be supported via standardized spreadsheets and documents that will be populated by City staff in collaboration with the Axim technical expert. Additional topics, such as business objectives, key performance indicators, and reporting requirements, will be discussed to inform configuration inputs and outputs.*

***Day 3** – On day 3, while our Cityworks expert continues to focus on enterprise asset management discussions, our GIS expert will launch discussions focused on enterprise GIS, starting with a baseline understanding of the architecture, deployment pattern, and utilization. This information provides context for a more detailed conversation targeting vertical assets, during which we will again listen to staff and stakeholders to understand objectives and requirements to feed recommendations around*

collection strategy, specifications, and parameters. The Axim GIS expert will also start to consider relevant data models to help optimize an initial adoption strategy.

Day 4 – *On the final day, our Cityworks and GIS experts will collaborate with City staff to discuss the integration of vertical assets into the enterprise asset management strategy and the corresponding impacts on the Cityworks configuration. Additionally, the final day is designed to accommodate follow-up discussions and questions to ensure clarity and completeness of information, as permitted within the available time. Likewise, as time permits, the Axim team may meet with City project leadership to summarize the onsite and review preliminary thoughts or vision for deliverables.*

Within the discussions, Axim will facilitate conversation and documentation, but we will also be focused on learning organizational requirements by actively listening to the participants. Among the primary topics for the optimization will be the following:

Cityworks

- Enterprise AMS requirements and objectives
- Deployment pattern (e.g., on-premise, SaaS/cloud hosted)
- Authentication and security considerations
- Workflows and work activities (e.g., Service Requests, Work Orders, Inspections)
- Organizational data inputs (e.g., personnel, roles/responsibilities, hourly rates)
- Inventory management options
- System Integrations
- GIS data and service readiness
- Legacy data migration
- Reporting

GIS & Vertical Assets

- Enterprise GIS technology landscape assessment
- Vertical asset
 - Vision and requirements
 - Collection/acquisition strategy
 - Data model foundation
 - Data integration and operationalization

Prior to the onsite work, Axim will provide the City with an agenda that is constructed in collaboration and coordination with City staff. The City will be responsible for helping to ensure that the key stakeholders are present as required. Axim will finalize the Cityworks Optimization recommendations document offsite, after which a draft will be shared with the City to ensure all requirements have been addressed. The final deliverable will provide a summary of the requirements and associated strategic recommendations along with budgetary pricing for development and implementation services.

Deliverables

- Project management and oversight
- Project kickoff
- Onsite discovery workshop
 - 4-days onsite from a Cityworks technical expert
 - 2-days onsite from a GIS technical expert
- Draft documentation
- Virtual review of documentation (up to 1-hour)
- Final documentation:
 - Cityworks configuration documents
 - Cityworks implementation plan
 - Vertical asset strategy recommendations
 - Budgetary pricing

Assumptions

- All meetings with stakeholders will be conducted during the four (4) day onsite period.
- The City will provide facilities to support the workshop discussions with the stakeholder groups.
- City staff will be able to articulate the requirements and provide supplemental documentation that may be referenced in the discussions.
- Each stakeholder group will be limited to 4+/- people (unless mutually agreed to otherwise) with appropriate knowledge, vision, and authority to guide the requirements.
- The City will be able to accommodate overlapping discussions
- The City will gather and share the requisite organizational information in the format designated and provided by Axim.
- Where appropriate, feasible, and necessary, the City will facilitate introductions between Axim and third-party software vendor contacts to discuss technical framework, methods, configuration, licensing, and more.
- Axim will not be providing any system configuration or implementation as part of this initial scope of work.
- Axim will not be performing any data collection, generation, translation, manipulation, administration, or other management as part of the proposed scope.
- Axim will help identify a vision, strategy, and relevant base model for vertical assets, however, the proposed effort does not encompass a full modeling and customization effort.

II. Pricing & Acceptance

Axim is proposing a firm-fixed price of \$46,066.

You may indicate your acceptance of the above proposal with a signature from authorized personnel from the City of Wausau, WI.

City of Wausau, WI

Signature: _____

Name: _____

Title: _____

Date: _____

Quotation Terms and Conditions

This confidential quotation is valid for thirty (30) days unless otherwise stated and does not include shipping or tax unless otherwise stated. This contract will expire one year after signature. This quotation information is proprietary and may not be copied or released other than for the express purpose of system and service selection and purchase. This information may not be given to outside parties or used for any other purpose without written consent from Geographic Information Services, Inc. (GISinc).

Standard Terms and Conditions

These standard terms and conditions (“Terms and Conditions”) apply to any proposal, quotation and the resultant agreement relating to products and services sold by Axim Geospatial (herein after, “Axim”) to a customer (“Customer”). These Terms and Conditions, together with the proposal, quotation and contract, including any statement of work, herein SOW, shall constitute the entire agreement (“Agreement”) between the parties.

These Terms and Conditions are governed by the terms of the applicable License Agreement for any incorporated software (“License Agreement”). Capitalized terms used and not otherwise defined herein shall have the respective meaning set forth in the License Agreement.

1. GENERAL PROVISIONS.

This proposal including the SOW and all Terms and Conditions set forth herein, constitutes the entire agreement between Axim and Customer. The Terms and Conditions of the proposal shall govern and control the terms of any purchase order or purchase confirmation form from the Customer. Customer acknowledges that Axim has not authorized any of its sales agents or representatives to make any representations, warranties or agreements on behalf of, or to bind Axim in any way. This confidential proposal is valid for thirty (30) days and unless otherwise stated.

2. SCOPE OF SERVICES.

During the term of the Agreement, Axim shall furnish the services in accordance with the SOW set forth in the proposal.

3. WORK PERFORMANCE.

Axim agrees that all work performed hereunder shall be performed on a best effort basis by Axim’s staff having an appropriate experience and skill level, and in compliance with the SOW.

4. TAXES.

Unless this Agreement specifies otherwise, the price included in the proposal does not include, and Customer is liable for and shall pay, all taxes, impositions, charges, and exactions imposed on or measured by this Agreement. Prices shall not include any taxes, impositions, charges, or exactions for which Customer has furnished a valid exemption certificate or evidence of exemption.

5. CHANGES.

No changes, modification, amendment shall be binding upon Axim unless otherwise agreed to in writing. Customer’s authorized representative may in writing, direct changes within the general scope of the Agreement. If such change increases or decreases the cost or time required to perform this Agreement, Customer and Axim shall negotiate an equitable adjustment in the price and schedule to reflect the appropriate change. Axim shall adjust the proposal to reflect the change. Customer shall modify any purchase order or confirmation form and reissue to Axim accordingly.

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8. ASSIGNMENT.

Neither party shall assign any of its rights or interest in this Agreement or subcontract all or substantially all of its performance of this Agreement without the other party's prior written consent.

9. INDEMNITY.

The parties shall indemnify and hold harmless the other, its officers and employees from and against damages, claims liabilities, fines, penalties and expenses (to include reasonable attorney's fees) due to its negligent acts, willful misconduct, errors or omissions of any Axim employee during the performance of its obligations hereunder that arise out of (1) injuries or death to persons or damage to property, (2) services and/or deliverables agreed to under this order (3) violation of any federal, state, county or municipal laws. Axim's total liability to Customer for any reason shall not exceed the total amount paid to Axim by Customer for the services provided under this Agreement.

Axim's duty to defend and hold harmless Customer shall not apply to any liability claim for damages or injuries arising from or as a result of the negligence of Customer or employees / agents of Customer.

Axim shall have no liability for any claim of infringement to the extent based on (1) the use of a superseded or altered version of any Axim provided product or framework or (2) the combination, operation or use of the Axim provided product with software, hardware or other materials not furnished or authorized to be used by Axim.

To the extent permitted by law, in no event shall either party be liable to the other for any lost revenues, lost profits, incidental, indirect, consequential, special or punitive damages of any kind.

10. WARRANTY.

Axim warrants that it will perform the services in good faith and in conformance with professional industry standards. All Axim employees, that work on the project, shall have the knowledge, education, training, skills and experience of the subject matter to which they will be performing services.

Axim warrants the completed application against bugs and defects for a period of 30 days after acceptance. Ongoing support, functional enhancements, or performance issues caused by a change in the customer's IT environment are not included in the warranty. Coverage for these items will require a separate agreement.

11. LIMITATION OF LIABILITY.

NOTWITHSTANDING ANY OTHER PROVISION HEREOF, AXIM SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR EXEMPLARY LOSS, DAMAGE, COST OR EXPENSE (INCLUDING, WITHOUT LIMITATION, LOST PROFITS AND OPPORTUNITY COSTS), EVEN IF THE CUSTOMER HAS BEEN ADVISED, OR SHOULD HAVE KNOWN OF THE POSSIBILITY OF SUCH DAMAGES. AXIM'S AGGREGATE LIABILITY FOR DAMAGES ARISING OUT OF, RELATING TO OR IN ANY WAY CONNECTED WITH THE RELATIONSHIP OF THE PARTIES, THIS AGREEMENT, ITS NEGOTIATION OR TERMINATION, OR PURSUANT TO ANY SOW (WHETHER IN CONTRACT OR TORT) SHALL IN NO EVENT EXCEED THE AMOUNT OF FEES RECEIVED BY AXIM FROM CUSTOMER PURSUANT TO THE APPLICABLE SOW UNDER WHICH THE ALLEGED LIABILITY AROSE.

12. FORCE MAJEURE.

Neither party will be liable to the other for delays in performing any obligations under the Agreement due to circumstances beyond its reasonable control, including but not limited to revolts, insurrections, riots, wars, acts of enemies, national emergency, strikes, floods, earthquake, embargo, inability to secure materials or transportation, and acts of God, and other events beyond the reasonable control of the parties caused by nature or governmental authorities.

13. SERVERABILITY.

If any provision of the Agreement is found to be invalid, illegal or unenforceable, then, notwithstanding such invalidity, illegality or unenforceability, the Agreement and the remaining provisions shall continue in full force and effect. In this event the parties will agree upon a valid, binding and enforceable substitute provision which shall be as close as possible to the commercial interests of the invalid or unenforceable provision.

14. GENERAL SERVICES ADMINISTRATION SCHEDULE.

As indicated in the proposal, if applicable, this Agreement incorporates and shall be governed by the terms of a General Services Administration (GSA) Schedule entered by Axim and the U.S. Government. Axim's GSA Schedule number: GS-35F-682R.

15. GOVERNING LAW.

This Agreement and any disputes arising out of, or relating to, this Agreement shall be governed by the laws of the State of Wisconsin without regard to the conflict of law rules thereof, provided that (i) contract provisions that have been incorporated directly from or by express reference to the Federal Acquisition Regulations ("FAR"), FAR supplements or GSA schedule terms, (ii) contract provisions that have been flowed down from a contract with the U.S. Government, and (iii) the Changes and Termination for Convenience articles, shall be construed and interpreted according to the federal common law of government contracts, as enunciated and applied by federal judicial bodies, boards of contract appeals, and quasi-judicial agencies of the federal government.

16. DISPUTE RESOLUTION.

Customer and Axim shall endeavor to resolve any controversy, claim or dispute arising out of or relating to the Agreement, or the performance or breach thereof, by negotiation. Any claim that is not resolved by negotiation within thirty (30) days of notification shall be settled by arbitration administered by the American Arbitration Association under its Commercial Arbitration Rules, and judgment on the award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof. The hearing locale will be held in the AAA office closest to Axim corporate headquarters.

17. OTHER.

This Agreement shall be governed by and constructed in accordance with the laws of the State of Wisconsin without regard to conflicts of laws provisions thereof.

Both Axim and Customer will comply with all laws applicable to the Agreement.

All notices given under the Agreement will be effective when received in writing. Notices to the Customer and Axim will be sent to the address provided in the proposal.

Changes to the Agreement must be in writing and must be signed by both parties.

18. COMPLETE AGREEMENT.

Customer acknowledges it has read the Agreement, understands it and agrees to be bound by its Terms and Conditions. This contract contains the entire agreement of the parties and supersedes any and all prior agreements, understandings and communications between Customer and Axim related to the subject matter of this contract. No amendment or modification of this contract shall bind either party unless it is in writing and is signed by Customer's authorized representative and an authorized representative of Axim.

November 3, 2023

Dan Kerntop
GIS Analyst
City of Wausau, WI
407 Grant St
Wausau, Wisconsin 54401

Dear Dan,

Axim Geospatial, LLC, an NV5 Company (Axim) is pleased to submit the following Rough Order-of-Magnitude (ROM) estimate for deploying Cityworks for vertical assets in 2024 and integrating both CUSI and Workday. We have provided a high-level scope of work outline, and ROM pricing for this project.

Axim Geospatial has provided City of Wausau, WI with a ROM estimate. Specific project requirements have not been reviewed in great enough detail to provide an actual project budget or quote. Axim Geospatial provides a ROM level of effort estimate for general planning purposes only; a ROM does not constitute a quote and the actual project price will vary.

I want to thank you for the opportunity to work together. If you have questions or need additional information please do not hesitate to contact me. We look forward to the opportunity to support you with this project!

Sincerely,



Matthew Pujalte
Account Executive

Axim Geospatial
100 QBE Way, Suite 1225 | Sun Prairie, WI 53590
Phone: (205) 725-5838 | Email: matthew.pujalte@aximgeo.com

I. Scope of Work

Solution & Approach

Cityworks is a web based, GIS-centric asset management system developed directly on top of Esri's ArcGIS platform, which avoids the additional moving parts and synchronizations of many commercial systems. Likewise, the software was designed against an open and well documented database model with application programming interfaces (APIs) that accommodate the flow of information between Cityworks and other solutions.

As an enterprise solution, Cityworks implementation projects require a well-structured, systematic approach that accurately encapsulates and accommodates core business processes. The effort is often a comprehensive exercise that not only draws out existing processes, but also offers an opportunity for review and revisions within the context of introducing new technology and new capabilities.

The process that Axim will employ is outlined below:

Planning & Analysis

The Planning & Analysis phase is centered on communications, coordination, and management, starting with project kickoff and continuing throughout the duration of the engagement. This phase will be leveraged to facilitate status reporting and meeting time as well as overarching documentation and deliverable management.

Design

In contrast with a traditional development project, the Design phase in a Cityworks implementation is intended to establish the foundation of the implementation, which is comprised of infrastructure/environment, client inputs, functional requirements and anticipated outputs. Key among the activities in the Design phase is identifying, discussing, and documenting the work activities that will ultimately be represented as workflows within the software. Additional items will be compiled and reviewed as well (e.g., reports, potential integration points), resulting in documentation that will guide the subsequent phases. A bulk of the design work will take place during the Cityworks Readiness Assessment, however remaining design tasks will be completed during this phase.

Development

Again, in contrast with traditional development projects, in this case the Development phase refers more generally to the core project work that focuses on establishing the hosting environment(s), installing and configuring all prerequisite and primary software, and configuring the software according to the guidelines established in the previous phase.

Key Activities (Core Implementation):

- Deployment of Cityworks development environment (On-premises or Cityworks Online)
- Base Cityworks configuration (employees, equipment, materials, etc.)
- Work activity configurations (work orders, service request, inspections, etc.)
 - 25 service requests, 200 work orders, 10 inspections.

- Report development (up to 8 hours)
- Integration development – Cusi and Workday

With the completion of the Development phase, the City will have an operational system that is ready for initial testing and review.

User Acceptance and Testing (UAT)

The User Acceptance & Testing phase is the stage of the project where both City staff and Axim will engage in a thorough review of the system to ensure that the workflows, data flows, and behaviors are configured as outlined in the Design phase and to validate that the resulting system conforms to mutually established expectations. As part of the UAT phase, Axim will return onsite to offer a preliminary training session to the subset of users who will participate in system review and testing. The training will not be exhaustive, but rather will serve as an orientation sufficient to allow core user interaction to validate that the configuration represents the work described previously. The process will effectively be an iterative feedback loop where Axim will track, review, and address the observations and issues reported by the collective team.

Key Activities:

- Preliminary training (3-days onsite)
- Test plan development and delivery
- Testing & feedback
- Configuration revisions
- System acceptance

Implementation

The final element of the project is the Implementation phase, wherein the team will prepare the system for release into production. The implementation phase will, of course, prepare the production environment to support the system, but equally important will be to prepare the City's users to adopt the system. The final and more comprehensive training offerings will be incorporated into the Implementation phase, spanning user and administrative training. The administrative training will, likewise, span both Cityworks and the associated integrations. Axim will help facilitate the release coordination and will transition into a period of post implementation support followed by project closure.

Key Activities:

- Deployment of Cityworks production environment
- Training plan and curriculum
- Onsite administrative and end-user training (5 days)
- Release coordination
- Post implementation support (24 hours, to be used within 30 business days of final training)
- Project closure & acceptance

Data Collection and Extraction – Scan to BIM to GIS

Wastewater Treatment Plant: 415 Adrian St, Wausau WI, 54401

- 40,000 SF
- LiDAR Point Cloud and Imagery
- Georeferenced LOD 300 Architecture
- 900 assets (pumps, valves, mechanical equipment etc)
- 3D EGDB Output with asset information

Water Treatment Plant: 1801 Burek Av, Wausau, WI 54401

- 56,000 SF
- LiDAR Point Cloud and Imagery
- Georeferenced LOD 300 Architecture
- 1200 assets (pumps, valves, mechanical equipment etc)
- 3D EGDB Output with asset information

Assumptions

- All work will be performed remotely unless otherwise stated.
- The City will acquire all required Cityworks software licensing, APIs, and webhooks from Cityworks prior to the beginning of the project.
- The Esri software environment will already be deployed (installed, configured, and operational).
- The most recent commercial version of Cityworks will be deployed at the time of project execution and the corresponding Esri software versions will be available to support the implementation.
- The required hosting environment (virtual or physical), within which Axim will operate for integration deployment, will be established by the City.
- The City will be able to provide a list of employees, materials, equipment, and contractors that can be incorporated into Cityworks as an initial configuration.
- The GIS data associated with the requested work activities exists or will be created by the City.
- The creation of any map, geocoding, printing, or routing services will be the responsibility of the City. Axim will provide guidance as to any necessary configuration requirements but authoring and publishing of those services will be the responsibility of the City.
- Any published GIS services should be externally accessible if Cityworks is hosted within Azteca's cloud environment – Cityworks Online (CWOL).
- If external access to the Cityworks application is required, the network and server configurations necessary to facilitate externalized access will be the responsibility of the City. Axim will provide documentation from Cityworks detailing configuration options.
- The City will be responsible for acquiring any SSL certificates needed for secure, externalized application access.
- If hosted on premise, the City will provide remote access (VPN or similar with comparable security and performance), specifically if or as necessary to access local content such as GIS, databases, etc.
- Work will be performed remotely unless otherwise specifically referenced as onsite services.
- The City has and will provide facilities capable of supporting the training events (onsite and/or remote), including room, projector, workstations, internet access, etc.

II. ROM Pricing

This rough order of magnitude (ROM) is provided for budgetary reference and is and does not constitute a formal quote.

Cityworks Readiness Assessment Four (4) days onsite with Solutions Architect, two (2) days onsite with Solutions Engineer. Deliverable to include detailed implementation plan for Cityworks deployment and vertical asset strategy.	+/- \$47k
Cityworks Implementation Services Cityworks implementation, including configuration requirements gathering/ documentation, system installation and configuration, configurations of reports, testing, as well as training and knowledge transfer.	+/- \$175k
CUSI Integration	+/- \$75k
Workday Integration	+/- \$40k
Wastewater Treatment Plant: 415 Adrian St, Wausau WI, 54401 Data Collection and Extraction – Scan to BIM to GIS	+/- \$55k
Water Treatment Plant: 1801 Burek Av, Wausau, WI 55401 Data Collection and Extraction – Scan to BIM to GIS	+/- \$75k
Cityworks Software Licensing <i>(To be procured separately through Azteca Cityworks)</i> Cityworks Online AMS Premium Enterprise License Agreement (ELA). Includes 60 named logins of the Office and Respond, as well as all platform add-ons, and the APIs required for integrating with Esri and optional CUSI and Workday. (Year 1 cost).	+/- \$52k
ESTIMATED Cityworks Core Implementation Services TOTAL*	+/- \$519k

**This is a ROM estimate. Specific project requirements have not been provided and/or reviewed in great enough detail to create an actual project budget or quote. Axim Geospatial provides a ROM level of effort estimate for general planning purposes only; a ROM does not constitute a quote and the actual project price will vary.*

ROM Terms and Conditions

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15. GOVERNING LAW.

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