

HASTINGS PFAS TREATMENT & WATER LINES



May 9, 2024

Public Meeting on Drinking Water & PFAS



Overview of Water Infrastructure

- Population ~ 23,000
- 7,500+ Water Customers
- 100+ Miles of Water Mains
- 1,200+ Fire Hydrants
- 6 Municipal Wells
- 2 Elevated Storage Towers
- 1 Ground Storage Tank
- 1 Water Treatment Plant (Nitrate Removal)
- BLENDED SYSTEM



Lower Levels for PFAS Projected

- **June 15, 2022:** EPA released Interim Health Advisories for PFAS
 - Concerned as these levels would impact 5 of 6 wells
 - Updated science showed our levels may be unsafe for the first time
- **September 6, 2022:** MDH presented PFAS to City Council
- Hastings **2022** Drinking Water Report added PFAS



A Call to Action

- Council funded a feasibility report that was completed in 2023
 - Reviewed several alternatives:
 - Blend to dilute below levels
 - Construct deeper wells
 - Purchase water from St. Paul Regional Water Services
 - Implement water treatment (supported by MDH)
- Placed the project on the State's Project Priority List in 2023
- Bonding Bill introduced at the State Capitol
- Received the MPCA's PFAS Planning & Design Grant for \$3.2M
 - Design work began December 2023
- With EPA Rule Promulgation 4/10/2024, the clock has started

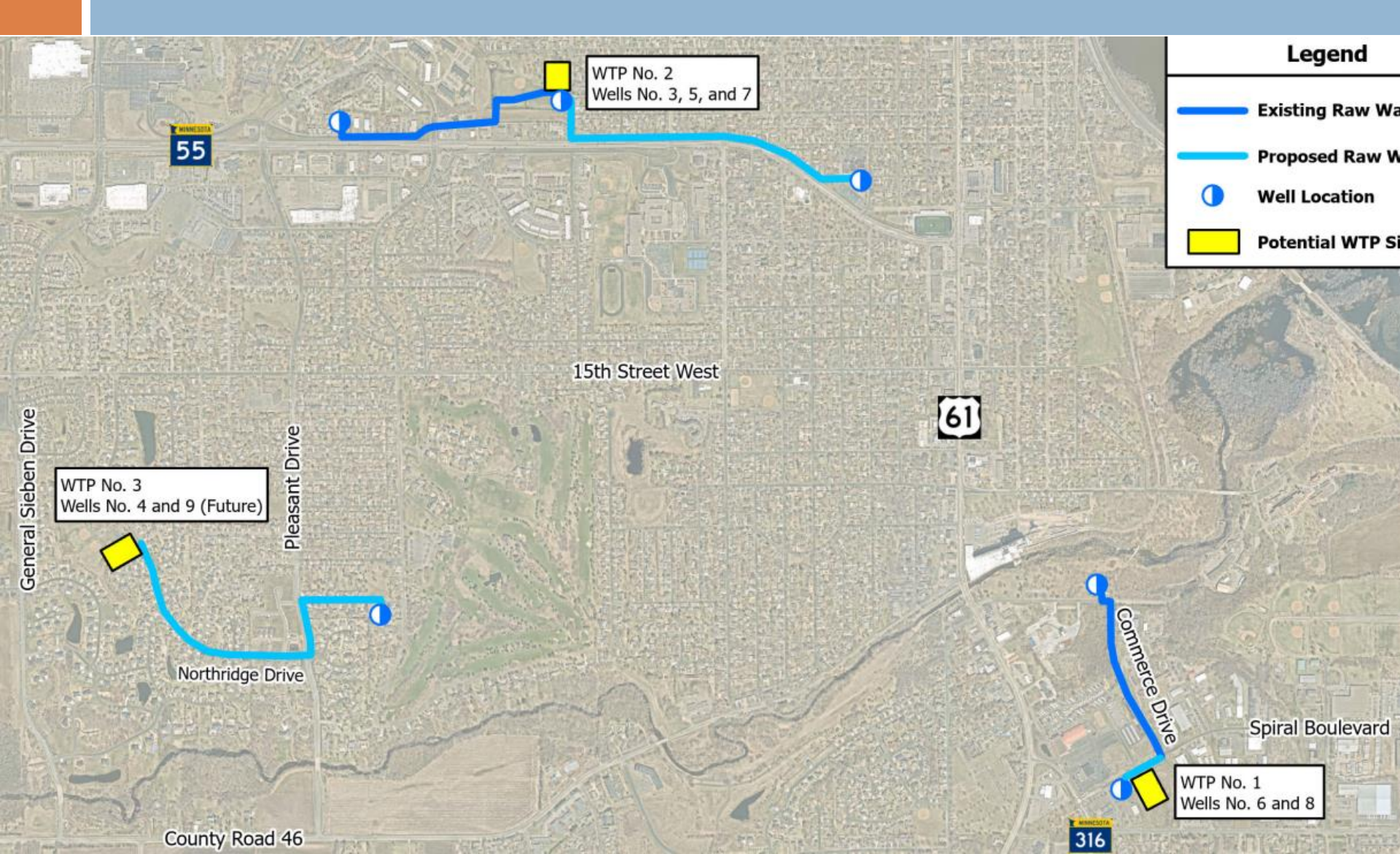
PFOA & PFOS in Hastings Wells

Well No.	PFOA – QRAA Concentration (PPT)	PFOS – QRAA Concentration (PPT)	EPA MCL (PPT)	MDH Epidemiology (PPT)
3	10.5		PFOA = 4 PFOS = 4	PFOA = 0.0079 PFOS = 2.3
4	3.1			
5	17.5			
6	5.5			
7	6.8	4.3		
8	21.8	3		

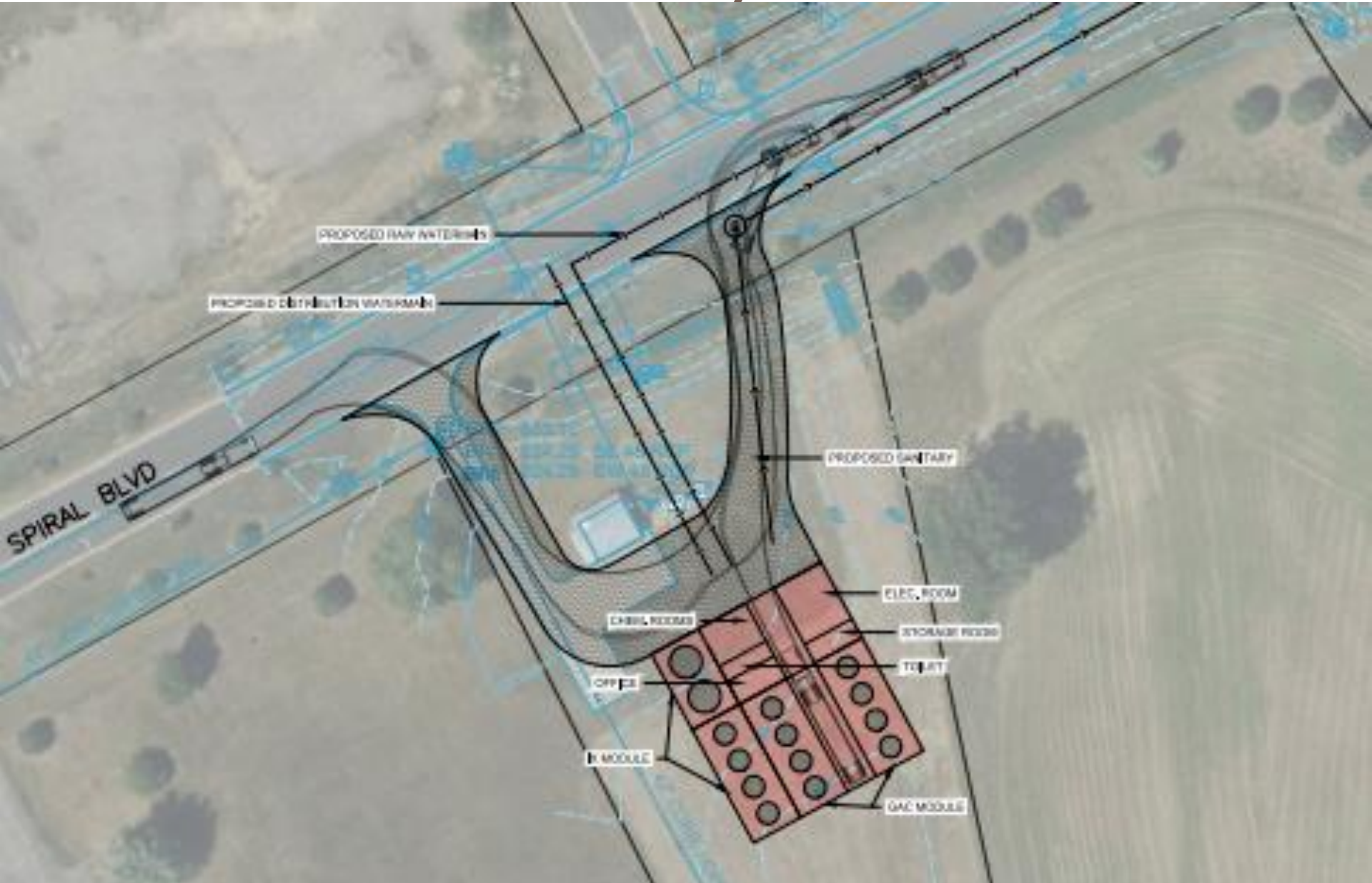
Project Description:

- 3 PFAS & Nitrate Decentralized Treatment Plants with associated water main piping
 - ▣ Includes GAC for PFAS removal and IX for Nitrate removal
 - ▣ Phased in from 2024 to 2027 if we find funding now
- Interconnect with the MN Veterans Home
 - ▣ Trunk water main extensions to property line
 - ▣ Pressure Reducing Valves
- Shovel Ready to begin permanent solution in 2024 if construction funding is determined

Decentralized Treatment System



WTP No. 1 Site Layout



3D Design of PFAS Treatment Plant



PFAS Treatment Plant



Expensive Fix

- \$68.9M Total Project Cost
- Up to \$1M annually O&M
- Water Rates would double in 2 years, triple in 4 years, continue to increase to 248% increase in 10 years
- Threat to degrade City' AA+ bond rate, impacting cost of all future City projects
- Need outside funding support to address this legacy contamination

Excluded from State's 2018 Settlement with 3M

- Despite proximity and similar PFAS contamination levels
- 2018 Settlement & the East Metro Conceptual Drinking Water Supply Plan do not require direct connection to a disposal site
- 2007 Consent Order does require direct connection to a disposal site
 - ▣ Current investigation by MPCA and 3M have identified a fingerprint of one disposal site to one Hastings well and MGS mapped fault lines across the river and into Hastings (investigation remains ongoing)

Pursuit of Additional Funding Sources

- Opted out of 3M and Dupont Class Action Lawsuit
 - ▣ Calculation for Hastings was \$3M-\$5M, well short of need
 - ▣ Keeps all options on the table for Hastings to pursue remedy
- Continue to work w/ Co-Trustees of 3M Settlement Funds (East Metro)
 - ▣ Understanding of complex hydrogeology
 - ▣ Due diligence
 - ▣ ESA's ongoing
- State Bonding Request for Phase 1 (\$20.6M)
- Governor's Office
- Positioning of PPL and IUP for DWRF
- Federal Community Project Funding submitted this spring

QUESTION & ANSWER SESSION



Ryan Stempski, P.E. Public Works Director