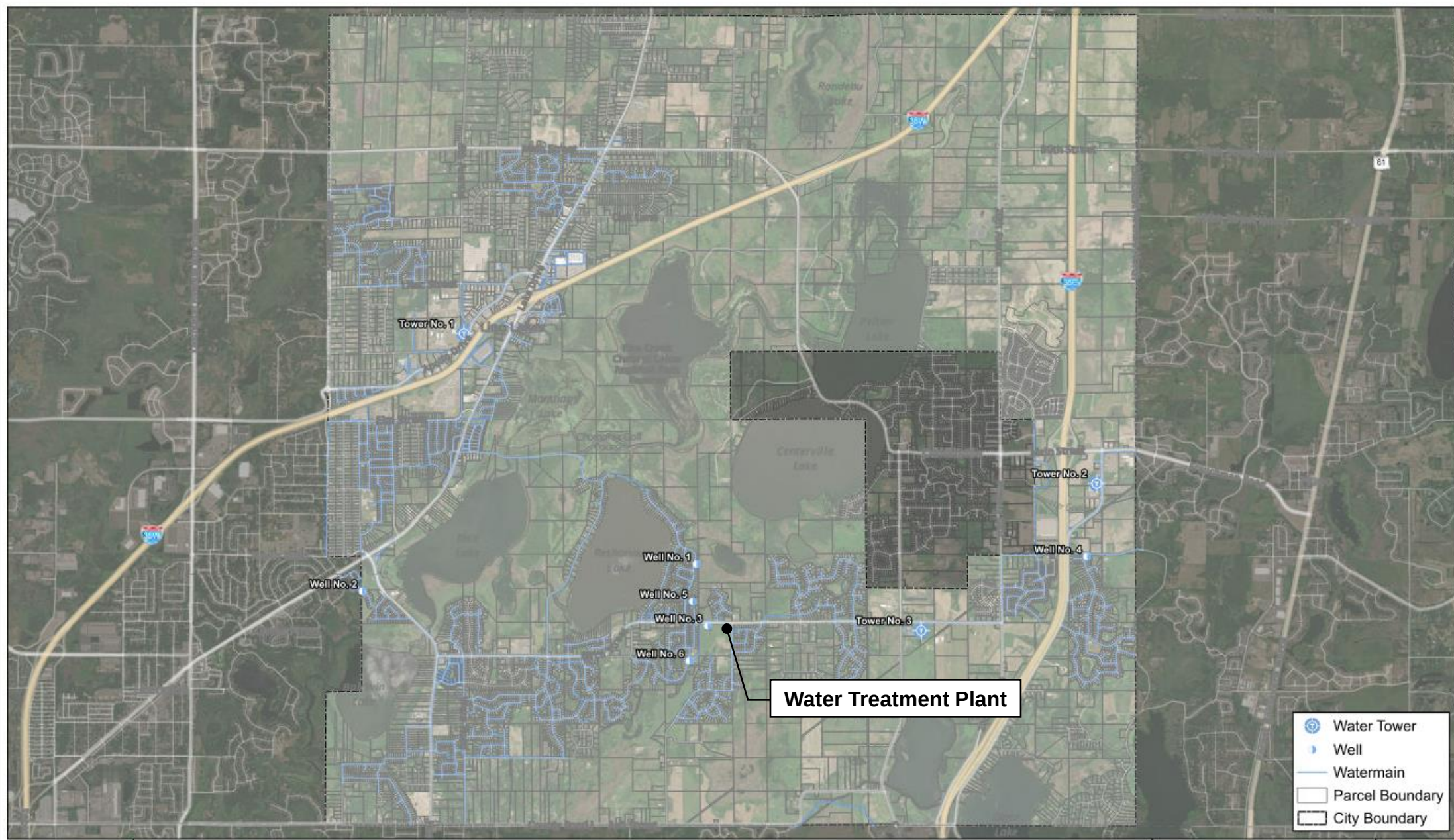


Water Treatment Plant

Open House

City of Lino Lakes, MN

February 15, 2024



Water Treatment Plant

City of Lino Lakes, MN





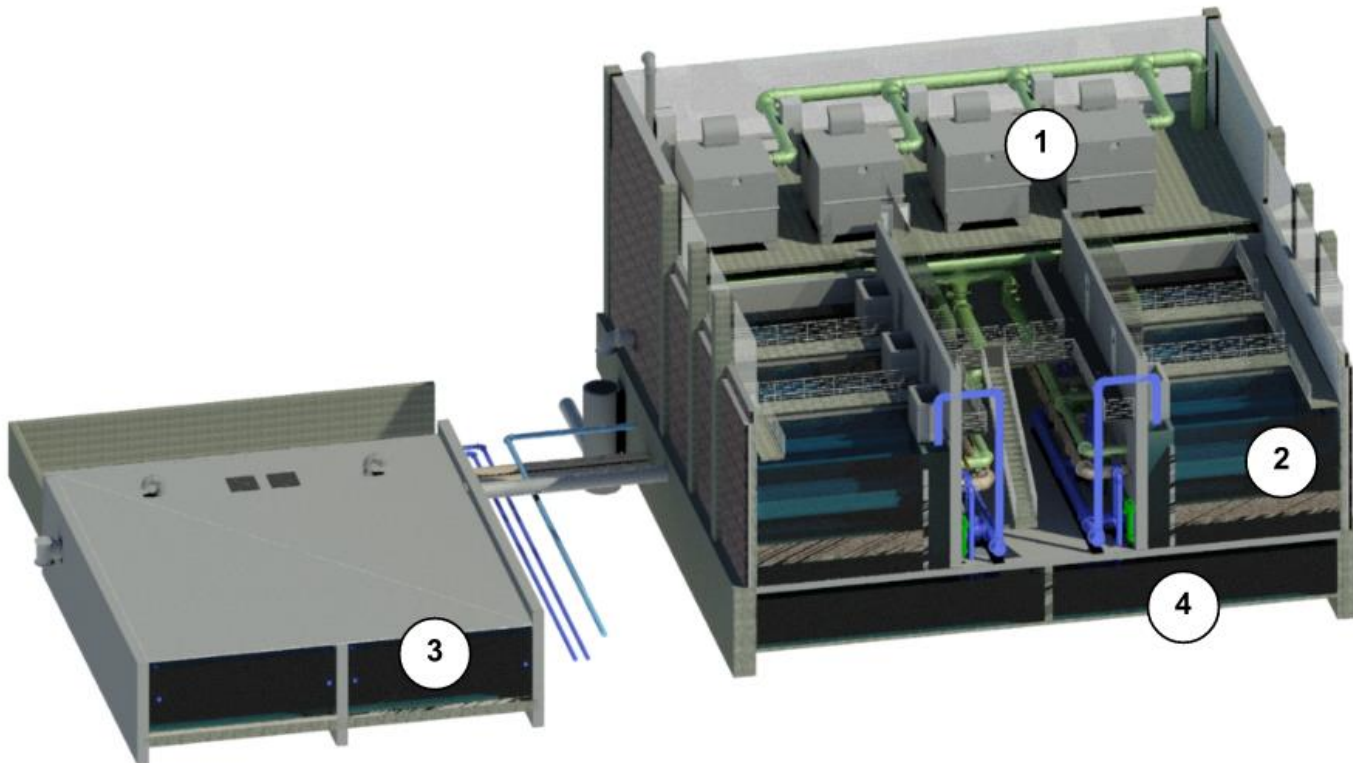
BIRCH STREET (COUNTY ROAD 34)

12TH AVE

WATER
TREATMENT
PLANT

BACKWASH
TANK

STORMWATER
POND



Gravity Filtration

1. Aeration
2. Filtration
 - Conventional Filtration
 - Biological Filtration
3. Backwash Reclaim
4. Clearwell
 - Disinfection

Biological Filtration



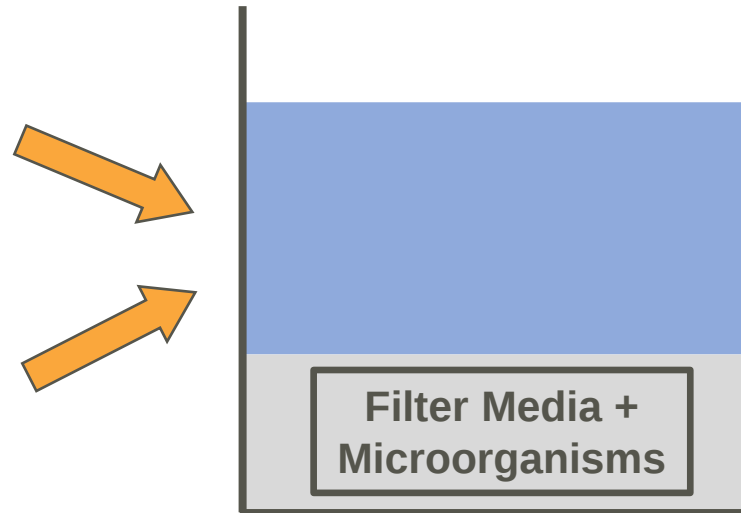
RAW WATER

Food & DO

- O_2
- Organic Carbon (C)
- Nutrients (N, P)
- Targets (Fe, Mn)

Naturally Occurring
Microorganisms

FILTRATION



TREATED WATER

- H_2O
- CO_2
- NO_3
- Cl_2



FUNDING

- Total Plant Cost Estimate: \$34,500,000
- Funding Sources:
 - State and DWRF Grants: \$16,500,000
 - City Utility Users: \$18,000,000
- Utility Rates and development connection charges currently include these costs
- Properties on private water systems are not charged for the plant costs.

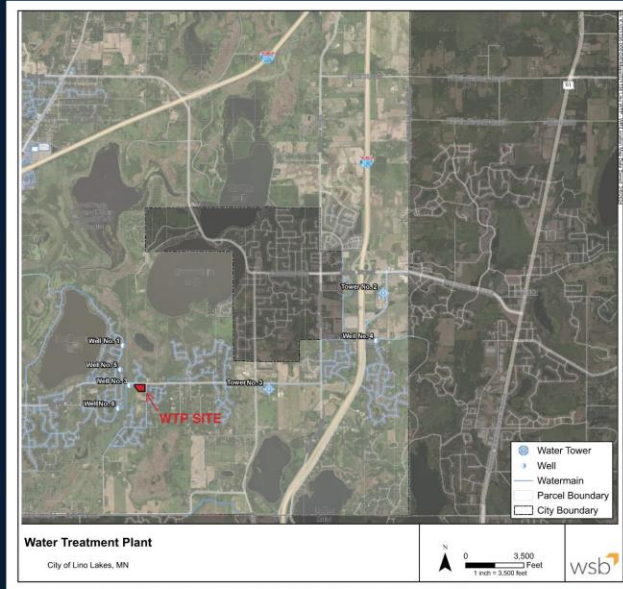
Resident Questions

- Noise
 - Plant operation does not create any exterior noise
 - Exterior Back up Generator
 - 75dBA at 7m ~ vacuum cleaner at 23'
- Odor
 - No odors produced by plant operations
 - Chemical, HVAC exhaust above roofline
 - Water tank vents at grade
- Traffic
 - Public Works
 - Chemical Deliveries
- Building Height



Water Treatment Plant Elevation Comparison





Water Treatment Plant - New Building





QUESTIONS?

