

# Monticello Water Treatment Plant



Raw Concentrations for Manganese and Iron						
Parameter	Unit	Well No. 1	Well No. 2	Well No. 3	Well No. 4	Well No. 5
Total Manganese	mg/L	693	720	810	769	435
Total Iron	mg/L	Not Detected	96.6	785	333	285
MDH recommends 100 mg/L for Infants and 300 mg/L for children and adults						

- The City's 5 municipal wells (currently serving 14,000+ people) exceed maximum recommended manganese levels for infants, children, & adults.
- MN Department of Health (MDH) recommends a manganese limit of 100 ug/L infants & 300 ug/L for adults. **The city's water is up to 8 times higher than the infant recommendation.** MDH estimates that only **3%** of Minnesota's cities currently exceed this standard.
- **Exposure to high levels of manganese can cause children and adults to develop problems with memory, attention, & motor skills. Babies under the age of one can develop long term learning and behavior problems. (MDH)**
- The City's groundwater also has elevated levels of iron exceeding the EPA's recommendations.
- Removal of iron & manganese requires installation of a water treatment plant at an estimated cost of approximately **\$28 million**.
- State funding will expedite construction and facilitate reduction of iron and manganese for the public.
- Without funding support, utility rates would drastically increase for construction & operation of a water treatment plant, creating a hardship for many of our residents.



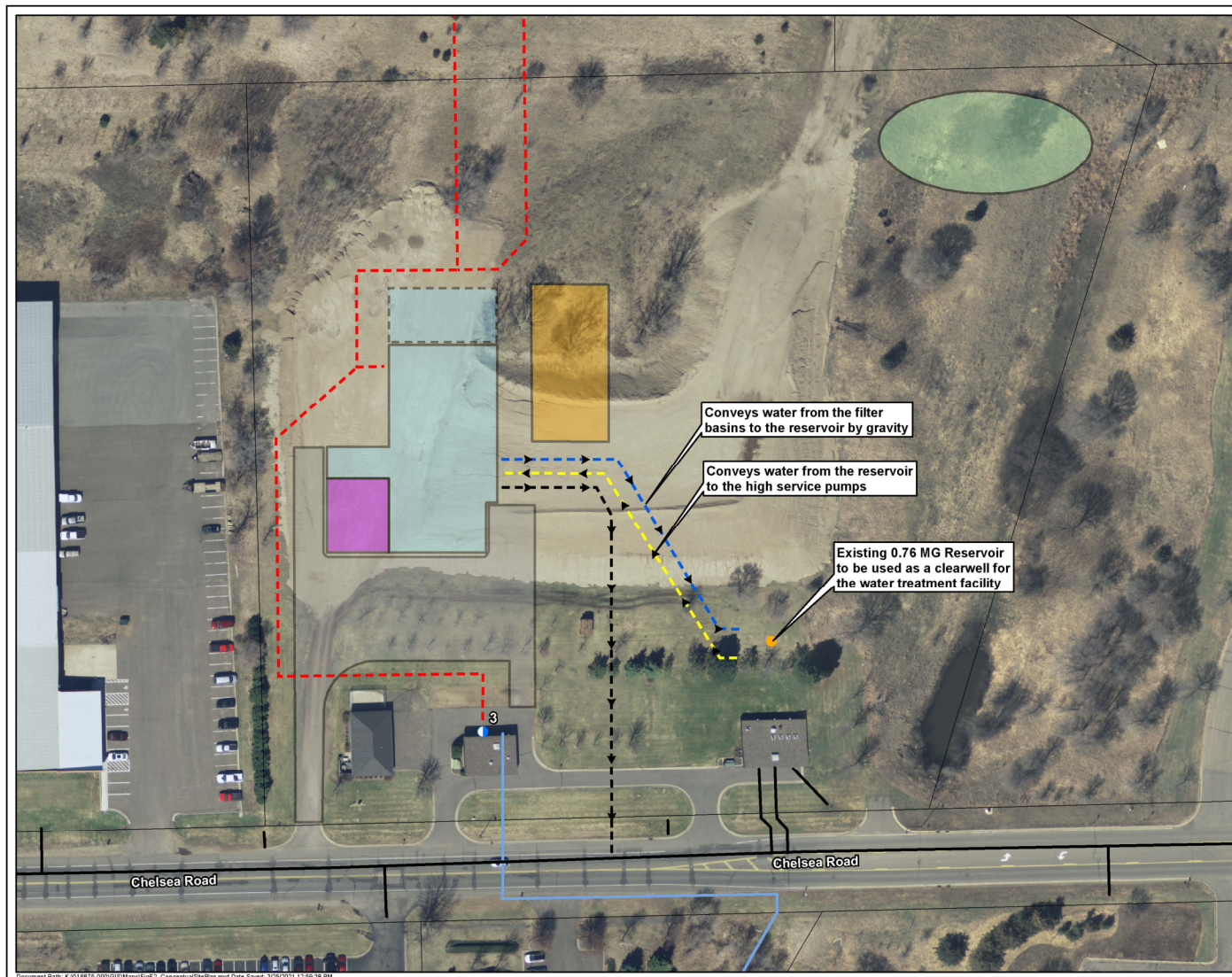


**Figure F2 - Conceptual Site Plan**

Monticello WTP Feasibility Study  
City of Monticello

**Legend**

- WTP Building
- Area for Future Expansion
- Public Works Garage
- Backwash Tank
- Parking Lot and Driveway
- Stormwater Basin
- Existing Reservoir
- Existing Production Well
- Existing Raw Watermain
- Existing Distribution Watermain
- Proposed Raw Watermain
- Proposed Filter Effluent Line
- Proposed Connecting Line
- Proposed WTP Effluent Line
- Parcels



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