1. Ilion Water System History and Overview
2. Source Water Improvement Program Options
3. Distribution System Improvement Program Options
4. Project Cost Comparison
5. Next Steps
1825 - Erie Canal completed 1825
1828 - E. Remington started first factory
1845 - Remington Post office established
1892 - Board of Water Commissioners organized
1893 - Reservoir #1 and Sand Filters served by Hawks Creek (very hard)
1903 - Reservoir #2 built served by Hawks & Litchfield Creeks
1910 - Population reached 6,500
1923 - Reservoir #3 Built served by Clapsaddle Creek (softer)
1939 - Water softening plant installed in 1939
2012 - Severe drought caused shortage of water supply
2014 – Clark Street Wells went online as a supplemental Source
Ilion Water District

- 3 reservoirs (capacity = 240 MG)
- 4 sand filters
- ~50,000 feet of raw water main
- 200,000 feet of distribution main
- 2 groundwater wells
- Average Demand = 1.1 MGD
- Unaccounted for water is 33%
Reservoir #1
15 Million Gallons

Reservoir #2
65 Million Gallons

Reservoir #3
160 Million Gallons
Reservoir #3 Project

- Constructed 1922
- Restored in 1956 and 1977
Well Site (2014)
4-inch Main Replacement (45,500 feet)
Looping and Dead-ends
MVWA Transmission
Well Transmission
Source Alternative 1 – New WTP

New WTP = $13,000,000
Well Transmission Main = $3,000,000
Raw Water Intakes Project = $5,000,000
Reservoir #3 Project = $1,000,000

Source 1 = $22,000,000
Source Alternative 2 - MVWA Connection

- **Illion**: $10M
- **Frankfort**: $5M
- **MVWA Connection**: $15,000,000
- **Well Transmission Main**: $3,000,000
- **Reservoir #3 Project**: $1,000,000
- **Source 2**: $19,000,000 or $14,000,000
Distribution Project Program

4-Inch Replacement = $9,000,000

Looping Dead Ends = $2,500,000

Valve Replacements = $1,000,000

Meter Replacements = $1,500,000

Distribution = $14,000,000
Distribution $14,000,000 + Source 1 $22,000,000 = Water Program $36,000,000

Distribution $14,000,000 + Source 2 $19,000,000 or $14,000,000 = Water Program $33,000,000 or $28,000,000
Annual Operations & Maintenance

- 2018 Water Budget = $1,453,000
- Annual Distribution O&M = $446,000
- Annual Treatment O&M = $591,000
- Annual Admin/ Debt = $416,000
- New WTP Annual O&M = $2,300,000
- MWVA Annual O&M = $2,400,000
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