

Nine Springs Liquid Processing Improvements-Phase I Acceptance of the Work January 13, 2022



Madison Metropolitan Sewerage District



Liquid Processing Improvements

- Effectively manage future peak flows
 - Prevent in-plant overflows
 - Improve peak flow treatment
 - Minimize process disruption during peak flow events
- Improve liquid processing reliability
 - Replace or rehabilitate critical infrastructure



Schedule

18 months of construction

Notice to Proceed

- November 27, 2019

Substantial Completion

- Original: April 30, 2021
- Extended date met:
June 30, 2021

Ready for Final Payment

- Original: June 30, 2021
- Extended date met:
November 30, 2021

UV Disinfection ready for
service for 2021 season



Budget

- **Construction Contract:**

Original=\$12,895,000

65 Change Orders

\$382,882 (+2.97%)

Final= \$13,277,882

Total Project:

Budget \$16,818,000

Final= \$16,129,000*

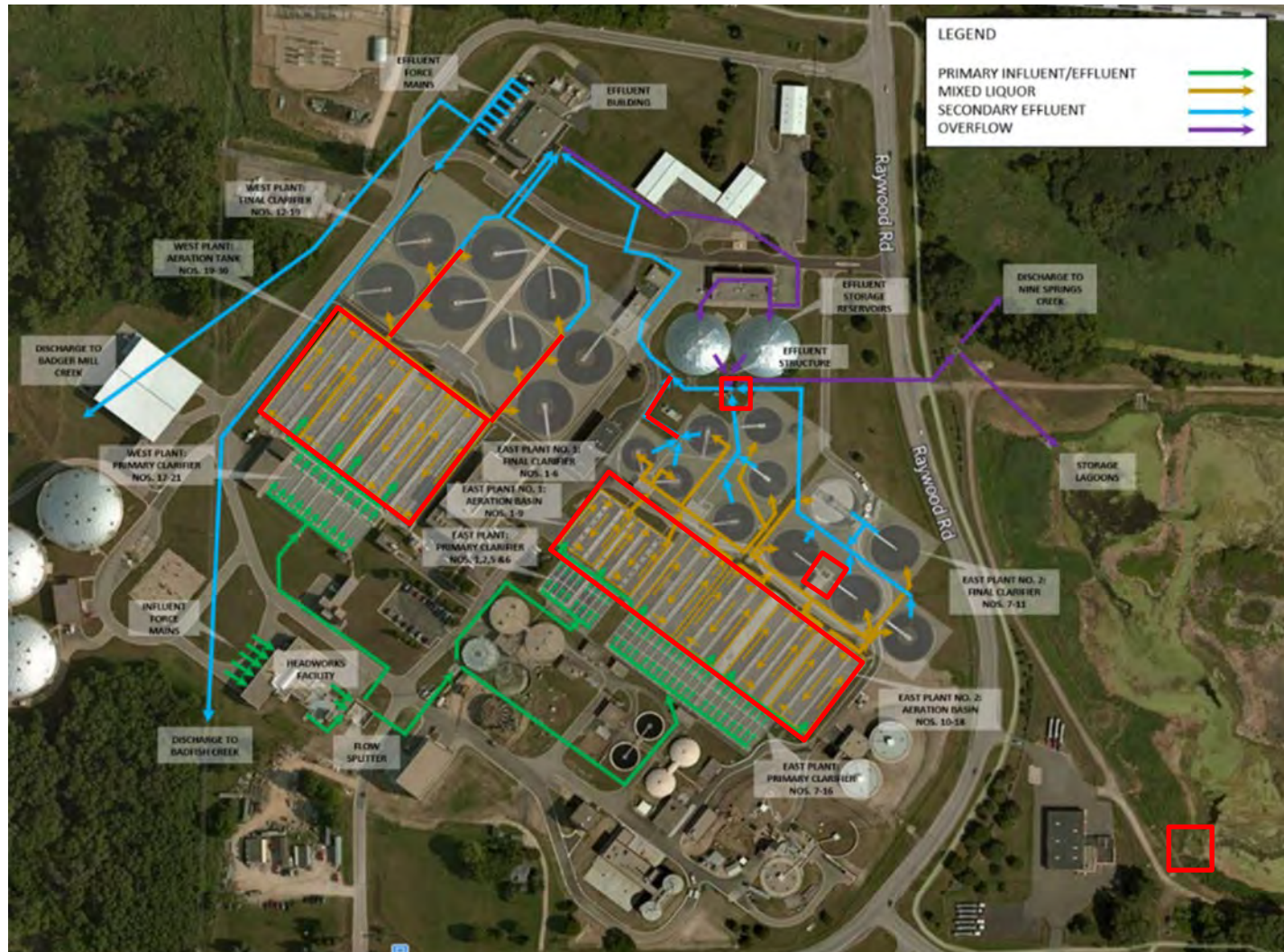


Hydraulic and Process Improvements

- Improvements to existing plant to better utilize hydraulic capacity and enhance peak flow process performance
 - Biological Contact Process
 - West Plant Mixed Liquor Channels
 - Plant 2 RAS control and measurement
 - Plant 1 Final Clarifier Effluent Conveyance
 - Effluent Diversion Structure
 - Lagoon Pumping Station



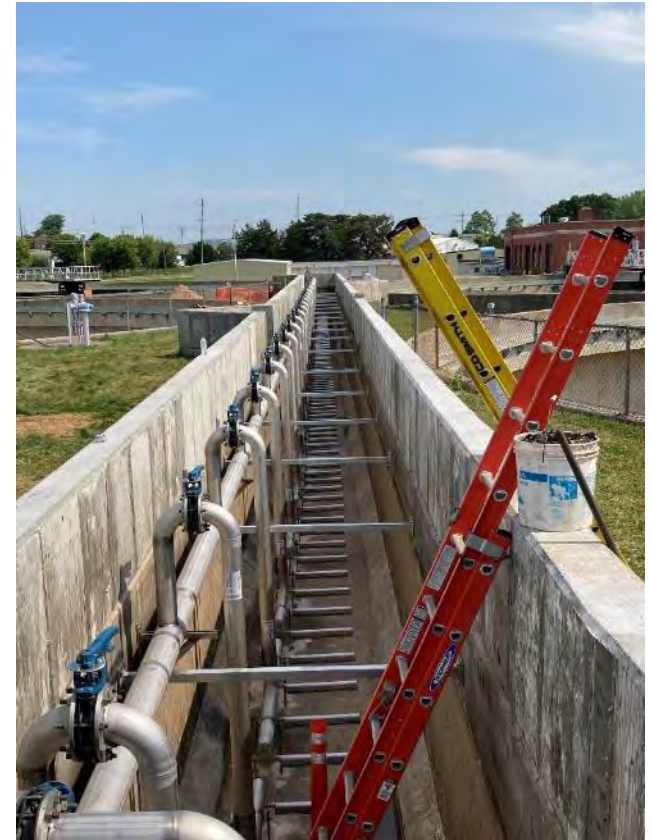
Hydraulic and Process Improvements



Biological Contact Process



West Plant Mixed Liquor Channels



Effluent Diversion Structures



Lagoon Pump Station



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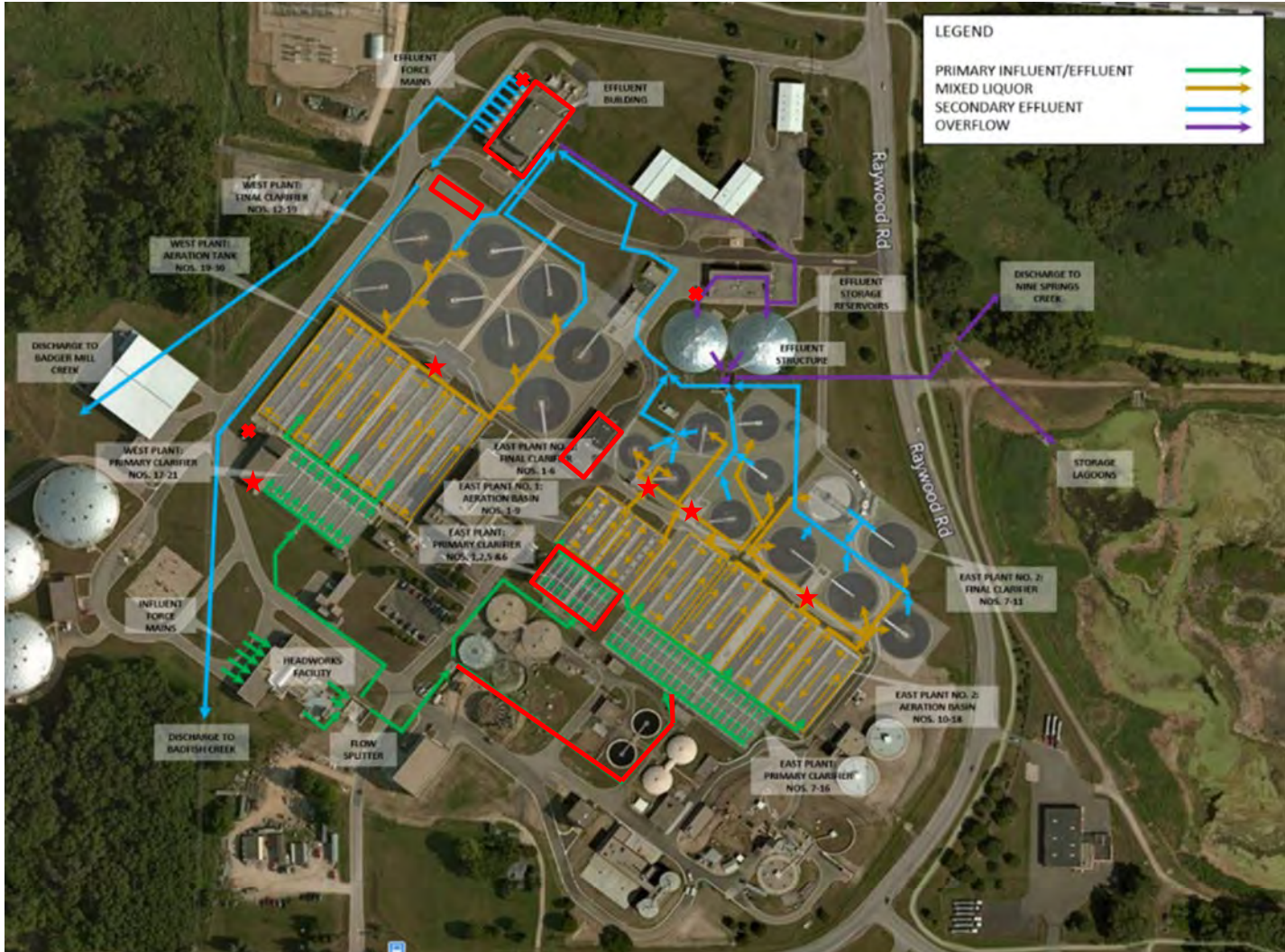


Reliability Improvements

- Replace or rehabilitate critical treatment plant infrastructure
 - UV Disinfection
 - Electrical Substations
 - Process Control System
 - Primary Influent Pipe Lining
 - Primary Clarifiers 1 & 2



Reliability Improvements



UV Disinfection Replacement



Electrical Substations



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Process Control System



Primary Influent Pipe Lining



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Rehabilitation Primary Tanks 1&2



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Recommendation

- Acceptance of the Work for the Nine Springs Liquid Processing Improvements-Phase 1
- Authorize final payment to C.D. Smith Construction, Inc..
- Adopt Resolution

2022-01-13-R8





Questions?

Madison Metropolitan Sewerage District