Wastewater Facilities Plan

Chisago Lakes Joint Sewage Treatment Commission

January 22, 2019

Ron LaFond, P.E.
Stantec
St. Paul, MN

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CITY OF STACY

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Wastewater Facilities Plan

- CLJSTC owns and operates a lot of wastewater infrastructure
- Miles of gravity sewer and forcemain
- Multiple lift stations
- Wastewater treatment facility

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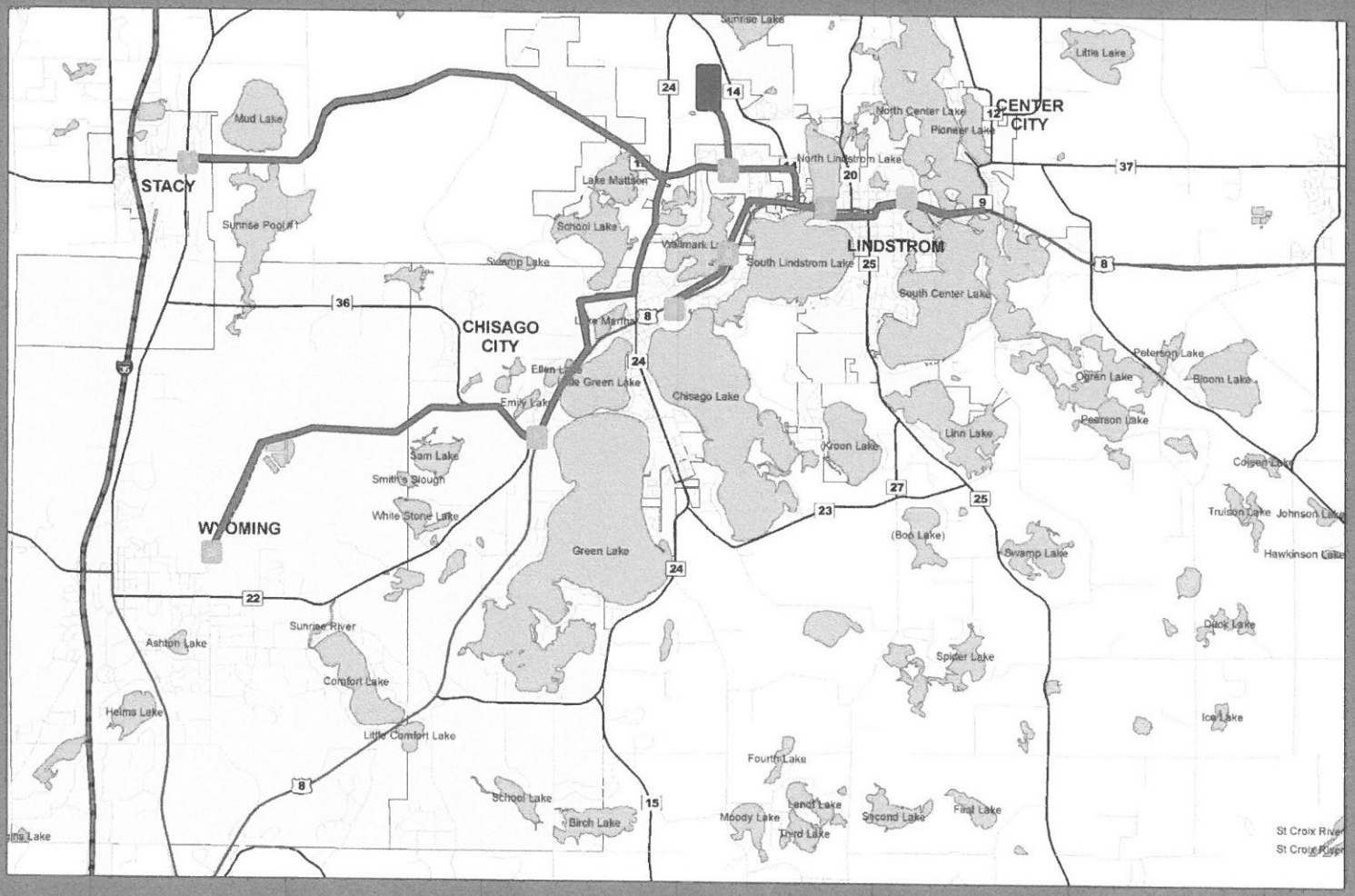
Wastewater Facilities Plan



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Wastewater Facilities Plan

- Capital Improvements Plan recently prepared
- Projects prioritized
- CLJSTC committees met with Kathe Barrett from PFA to discuss funding options

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Wastewater Facilities Plan

- Kathy Aho from Springsted hired to assess potential impact to finances
- Consensus is that the Clean Water Revolving Fund program is the best fit for financing improvements
- Requires preparation of a Facilities Plan

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Wastewater Facilities Plan

- A single Facilities Plan can be used to obtain approval for projects over a three year period
- MPCA may accept a project in the fourth year
- Proposed list of projects:

Year	Project
2020	Corridor LS Improvements (#3)
2021	Andrews LS Improvements (#5) Chisago City Main LS Improvements (#4)
2022	WWTF Improvements
2023	Chisago Main LS Improvements (#1)
2024	Vac Truck

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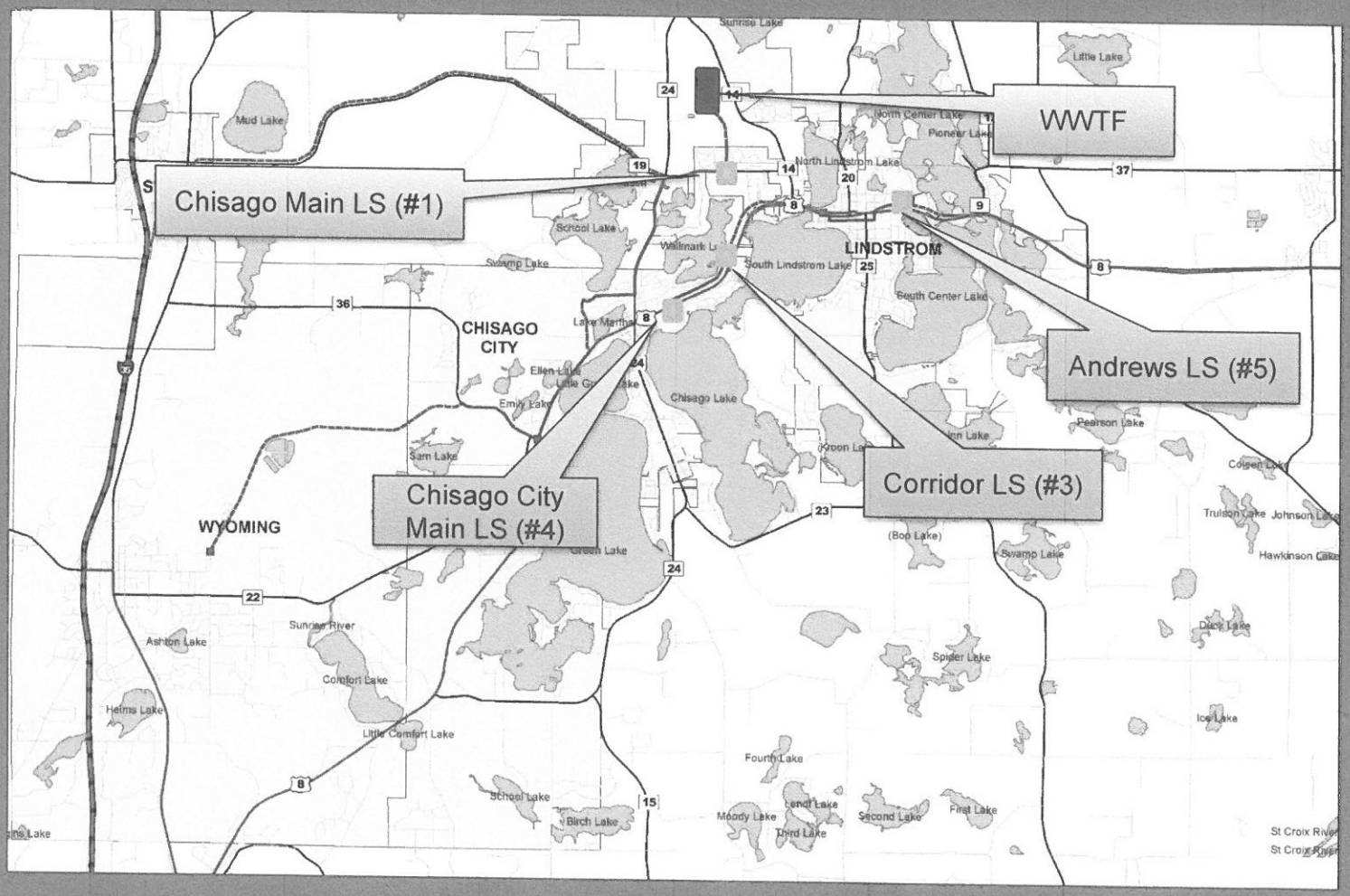
Wastewater Facilities Plan



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Wastewater Facilities Plan

- Year 2020
- Corridor LS Improvements (#3)

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Wastewater Facilities Plan

- Year 2020
- Corridor LS Improvements (#3)
  - Three pumps (2,000 GPM firm LS pumping capacity)
  - Generator
  - Control panel
  - Pipe and valves
  - Site work

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Wastewater Facilities Plan

- Year 2021
  - Andrews LS Improvements (#5)
  - Chisago City Main LS Improvements (#4)

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Wastewater Facilities Plan

- Year 2021
- Andrews LS Improvements (#5)
  - Two Pumps (800 GPM firm LS pumping capacity)
  - Generator
  - Control panel
  - Pipe and valves
  - Site work

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Wastewater Facilities Plan

- Year 2021
- Chisago City Main LS Improvements (#4)
  - Control panel
  - Valves
  - Miscellaneous electrical

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Wastewater Facilities Plan

- Year 2022
- WWTF Improvements

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Wastewater Facilities Plan

- Year 2022
- WWTF Improvements
  - Repair and replacement throughout the WWTF
  - Pretreatment Building grit pump and classifier
  - SBR diffuser replacement, chemical carrier pipe, decant valves
  - Chemical Building pumps and electrical/HVAC rehabilitation
  - Control Building replace PLCs and convert from radio signals to fiber optic
  - Thickener Building and equipment rehabilitation

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Wastewater Facilities Plan

- Year 2023 Chisago Main LS Improvements (#1)

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Wastewater Facilities Plan

Year 2023

Chisago Main LS Improvements (#1)

- Four Pumps (same size as existing)
- Control panel
- Odor Control
- Generator noise reduction
- Building repairs

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Wastewater Facilities Plan

- Year 2024
- Vac Truck

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Wastewater Facilities Plan

- Project Cost Estimates
  - Includes contingency, engineering, legal, administration

Year	Project	Facility Plan Project Cost Estimate	CIP Project Cost Estimate
2020	Corridor LS Improvements (#3)	$792,000	$590,000
2021	Andrews LS Improvements (#5) Chisago City Main LS Improvements (#4)	$590,000 $220,000	$490,000 $94,000
2022	WWTF Improvements	$1,450,000	$1,391,000
2023	Chisago Main LS Improvements (#1)	$1,080,000	$860,000
2024	Vac Truck	$350,000	$350,000

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Wastewater Facilities Plan

- Timeline
  - Feb 2019 — Public Hearing held on Facilities Plan
  - Mar 2019 — Facilities Plan submitted to MPCA
    Apply for placement on Project Priority List (PPL)
  - Spring 2019 — MPCA approval of Facilities Plan

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Wastewater Facilities Plan

- Timeline
  - July 2019 Start design Corridor LS Improvements
  - Late 2019 Advertise
  - Apr 2020 CLJSTC member cities and County approve borrowing
  - Spring 2020 Start Construction
  - Dec 2020 Substantial Completion
  - Spring 2021 Final Completion

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Wastewater Facilities Plan

- Notice for February Public Hearing

NOTICE OF PUBLIC HEARING
CHISAGO LAKES JOINT SEWAGE TREATMENT COMMISSION

Notice is hereby given that the Chisago Lakes Joint Sewage Treatment Commission will meet at _____ at __:__ p.m., February __, 2019, to conduct a public hearing and to consider approving a Wastewater Facilities Plan. The plan includes improvements to four sanitary lift stations and improvements to the wastewater treatment facility. The Chisago Lakes Joint Sewage Treatment Commission is proposing to fund project costs with a low interest loan through the Public Facilities Authority. Those persons who so desire, will be heard at this hearing with reference to the proposed improvements. Written comments may be submitted prior to or at the hearing.

BY ORDER OF THE CHISAGO LAKES JOINT SEWAGE TREATMENT COMMISSION

(Name) _____
(Title)

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Questions?

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