

Memorandum

date: December 10, 2019

to: Heart of the Valley Metropolitan Sewerage District
Dave Casper, Commission President
Commissioners
Brian Helminger, Manager (file copy)
Kevin Skogman, Superintendent

cc: (none)

from: Strategic Municipal Services, Inc.
Scott M. Schramm, PE, PLS
David Schlichting, PE

re: STATUS UPDATE
Priority Action Plan - Interceptor System
Heart of the Valley Metropolitan Sewerage District
Outagamie County, Wisconsin

Summary

- A. Ammonia
- B. Siphon Operation Improvements
- C. Field Observations
- D. Next Steps

A. Ammonia

1. Historical Loads / Trends

- a. previously reviewed 2018 and 19 meter station flow and load contributions
- b. reviewing benchmark year data / trends including years:
 - 1) 2019
 - 2) 2018
 - 3) 2015
 - 4) 2010 WPDES permit requirement
 - 5) 2005 or earliest representative data

2. Opportunities to Reduce Point Source Loads

- a. reviewing previous sampling and testing data from key customers
- b. preparing customer list of known / probable contribution sources

3. "Normal" Community loads

- a. reviewing load / concentration data from comparable communities

4. Consider alternatives W I P

B. Siphon Operation Improvements

- 1. **Design Concepts** completed
 - a. survey elevations of key manholes
 - 1) upstream 42 (splitter), 39A (30" siphon), 39 (6, 16" siphons)
 - 2) downstream 38A (30" siphon), 38 (6, 16" siphons), 16 junction structure
 - b. historical flow conditions average / peak day, peak hour, 30" siphon projection
 - c. model siphon hydraulics preliminary - WIP
- 2. "Design"
 - a. "abbreviated" plan drawing / detail, specifications
- 3. **Construction (2019)**
 - a. construction value likely < \$25k
 - b. options
 - 1) "maintenance" negotiate contract with preferred Contractor
 - 2) public bid class I public notice and public opening

C. Field Observations

- 1. **Great Lakes TV Seal**
 - a. televise and identify changes ~ 13,500 feet
 - 1) fieldwork ~ 70% complete week of December 02
 - remaining balance T B D
 - 2) reports likely to share before Christmas
 - b. review 2010, 15 and 19 reports representative sections
 - 1) pipe rating changes
 - 2) "side by side" comparison of photos
 - c. clean 30" siphon when ground begins to freeze

D. Next Steps

1. working meeting January (after review field observations)
 - a. review effectiveness of mitigation alternatives
 - b. capital improvements and phasing
 - 1) building reserves
 - 2) WWTF
 - c. public finance
 - 1) existing CWF schedules
2. community meeting(s)

We welcome the opportunity to further discuss these items at your convenience.

enc: as noted

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REVIEW