

Director of Compliance and Innovation Report

December 17, 2025

Plant Loading, CSO Report, and Director's Notes

Plant Influent Report:

Biochemical Oxygen Demand, 5-Day (Avg. 22590 lbs/day)	35 percent of design
Total Suspended Solids (Avg. 30120 lbs/day)	28 percent of design
Average Daily Flow (25.08 million gallons/day)	61 percent of design
Maximum Daily Flow (34.78 million gallons/day)	28 percent of design

Plant Influent Total Monthly Flow (million gallons) for October	730.61
Estimated Unbilled Total Monthly Flow (million gallons)	87.25
Total Monthly Precipitation (inches)	2.03

Plant Effluent Report:

<u>Parameter</u>	<u>Report Frequency</u>	<u>Permit Limits</u>	<u>Reported Values</u>	<u>Violations</u>
CBOD ₅ , mg/L	Mo./Wk. Avg	20/40	3/4	0
TSS, mg/L	Mo./Wk. Avg	25/45	10/15	0
NH ₃ -N, mg/L	Mo. Avg/Daily Max	1.5/3.0	0.24/1.04	0
DO, mg/L	Mo. Avg/Wk. Avg/Daily Min	6.0/4.5/4.0	7.67/7.52/7.24	0
pH, S.U.	Daily Min/Max	6.0/9.0	7.69/8.31	0
Total Nickel, mg/L	Mo. Avg	0.0381	0.016	0
Cl ₂ Residual, mg/L	Daily Max	0.05	<0.011	0
Fecal Coliform CFU/100mL	Daily Max	400	NA	0

CSO Report:

Location	Events	Est. Total Duration of Discharges (hrs.)	Discharge (million gallons)
Oakland Avenue (Outfall 003)	1	1.57	0.28
Lincoln Park (Outfall 004)	0	NA	NA
McKinley Avenue (Outfall 007)	0	NA	NA
Seventh Ward (Outfall 008)	0	NA	NA

Director's Notes:

Administrative Order of Consent:

With the assistance of HeplerBroom LLC, the District continues to work with the U.S. Environmental Protection Agency (USEPA) on the proposed Administrative Order on Consent (AOC). The objective is to negotiate terms that will allow the District to enter the AOC and fully comply with all of its requirements.

Pretreatment Software:

After several months of evaluation, SDD staff determined that Klir's pretreatment software is the best replacement for the current on-premises LinkoCTS system, which is no longer being actively developed. The existing LinkoCTS platform is outdated, inefficient, and expected to be fully phased out in the future.

Klir offers major improvements, most notably the automatic daily import of lab data, eliminating the manual data transfer currently performed by staff. PowerBI was also explored as a potential option, but it functions only as a data visualization tool and cannot serve as a comprehensive pretreatment management system.

Additional benefits of Klir include centralized task scheduling, automated Significant Non-Compliance and Technical Review Criteria calculations, compliance with EPA CROMERR/CDX electronic reporting requirements, ongoing feature development and support, and customizable dashboards that allow industrial users to enter data and complete required annual reporting electronically.

Compliance Reporting:

In accordance with the requirements of our NPDES permit the SDD has submitted all semi-annual and/or annual reports to the appropriate entities. The SDD will be submitting the annual Total P Progress Report to IEPA in mid-December, the final report due in 2025.

Staff Training Activities:

On November 5, 2025, Keith Richard and Ashley Bailey attended the Illinois Nutrient Loss Reduction Strategy (NLRS) Partnership Conference in Champaign. The conference focused on highlighting the success of the NLRS in reducing nutrient loss to the waterways in Illinois.

Operations, Laboratory, and Pretreatment Activity Reports – November/December 2025Operations Activities Summary:

Routine operational activities were carried out in accordance with established procedures and in response to plant conditions. These activities encompassed equipment operation, monitoring and adjustment, process control testing, recordkeeping, and interdepartmental coordination to ensure optimal plant performance.

1) Digester Pumping Alternatives-

Operations and Maintenance personnel have been evaluating alternative methods for transferring material from Primary Digester #2 to the Secondary Digester due to recurring pump blockages.

2) Preventive Maintenance (PM)-

Operations staff continue to address preventive maintenance tasks as permitted by current time constraints, workload demands, and staffing levels.

3) Standard Operating Procedures (SOPs)-

Efforts to develop and refine SOPs are ongoing, with staff actively engaged in documentation and procedural improvements.

4) Blower Usage-

Blower demand remains elevated due to sustained industrial loading and increased effluent ammonia concentrations.

Laboratory Activities:

Routine:

A total of 1,670 analyses were performed in the laboratory during the month of November 2025.

Monitoring of treatment plant, industrial users, and receiving stream samples for compliance purposes and process monitoring continued. Laboratory personnel continued to perform additional background nutrient monitoring to help fully characterize the nutrient loading on the plant.

Non-Routine:

- 1) The SDD laboratory continued to send samples of raw influent weekly throughout November 2025 for the Illinois Wastewater Surveillance System (IWSS). Levels of COVID have started to increase while influenza A, influenza B, and RSV all remained at undetectable levels in the recent samples. Keith Richard attended the monthly IWSS virtual meeting on November 7, 2025.
- 2) The SDD laboratory analyzed one stormwater sample during November 2025 for the Lake Decatur Watershed monitoring study. The SDD is providing in-kind laboratory analysis of samples collected at the study's monitoring sites after significant storm events.
- 3) Keith Richard and Ashley Bailey attended the Illinois Nutrient Loss Reduction Strategy (NLRs) Partnership Conference in Champaign on November 5, 2025. The conference was focused on highlighting the successes of the NLRs on reducing nutrient loss to the waterways in Illinois. The NLRs has been very successful thus far and will see even greater achievements in the coming years as more POTWs, including the SDD, are upgraded for nutrient removal.
- 4) Keith Richard hosted a meeting of the IWEA Laboratory Committee on November 20, 2025, at the City of St. Charles Public Works. The purpose of the meeting was to discuss the committee's upcoming activities including a lab webinar in December, IWPC 2026, and a lab training workshop. Keith continues to serve as the chair of the committee.

Pretreatment Activities:

Pretreatment - General Activities:

- 1) Pretreatment personnel monitored 10 commercial and industrial users (IU) during November 2025. There were 7 industrial site inspections completed.
- 2) There were no permits issued in November 2025.
- 3) Local Limits sampling will be completed in December. No local limits sampling occurred in November.
- 4) Sampling for **Tillamook** continued in November. They failed three of their four TSS samples, which led them to a monthly average TSS violation, and they also failed on their FOG sample on 11/5. There was only one slug attributed to **Tillamook** on November 6th. In order to control FOG issues, Tillamook will be jetting and cleaning their system to reduce the amount of residual FOG.
- 5) Following an evaluation of multiple different pretreatment software systems, **Klir** has been selected as the new pretreatment software for the program. An information sheet was put together and distributed for review. Upon signing the licensing contract, **Klir** will begin the integration process with our current lab software.

Pretreatment Ordinance - Verbal Notices:

SDD issued a total of 9 Verbal Notices to **ADM, Tillamook,** and **Primient** in November 2025:

- **Primient (1 Violation):**
 - Sulfide Daily Max: 11/18/2025
- **Tillamook (7 Violations):**
 - TSS Daily Max (3): 11/18/2025 – 11/20/2025
 - TSS Monthly Average
 - BOD Daily Max: 11/19/2025
 - Slug load on 11/6/2025
 - FOG-T Daily Max: 11/5/2025

Pretreatment Ordinance - Warning Notices (WN):

There were no WN's issued during November 2025.

Pretreatment Ordinance - Notices of Violation (NOV):

There were no NOV's issued during November 2025.

Pretreatment Ordinance - Executive Orders (EO):

There were no EO's issued during November 2025.

Pretreatment Ordinance - Penalty Assessments:

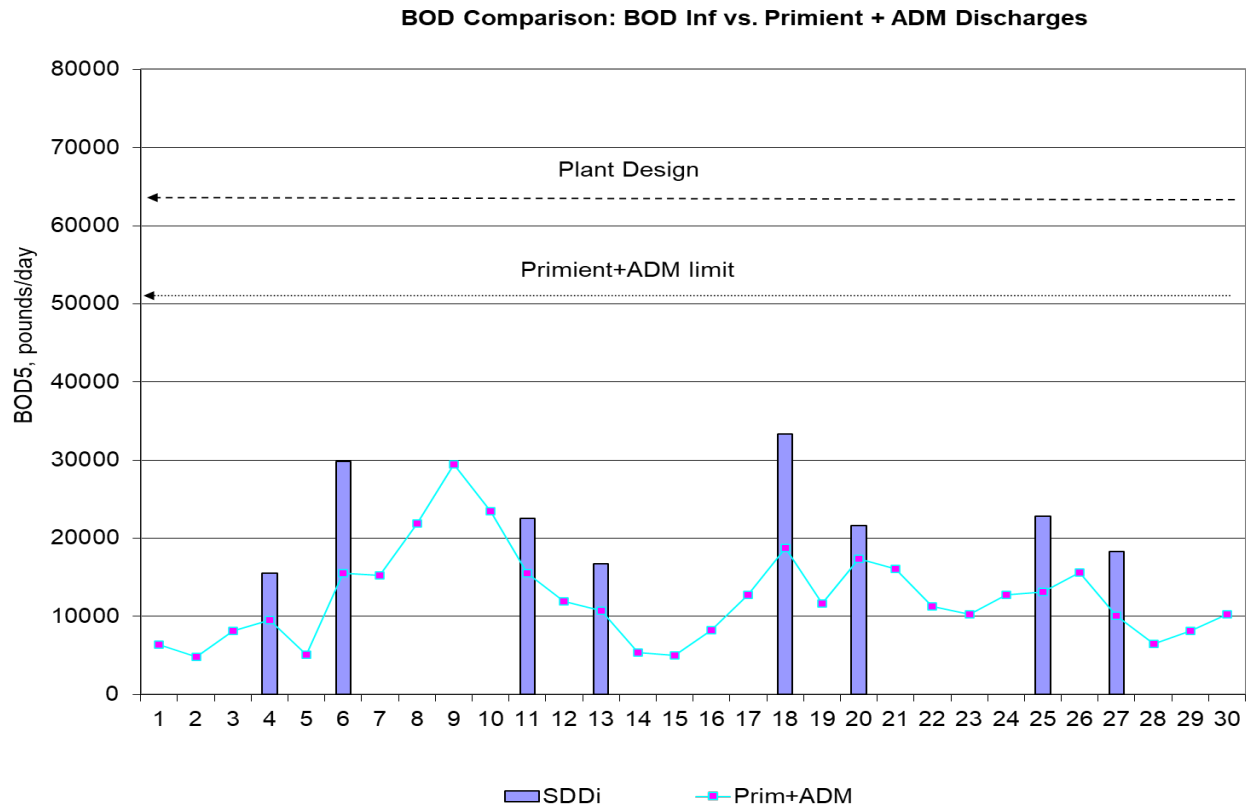
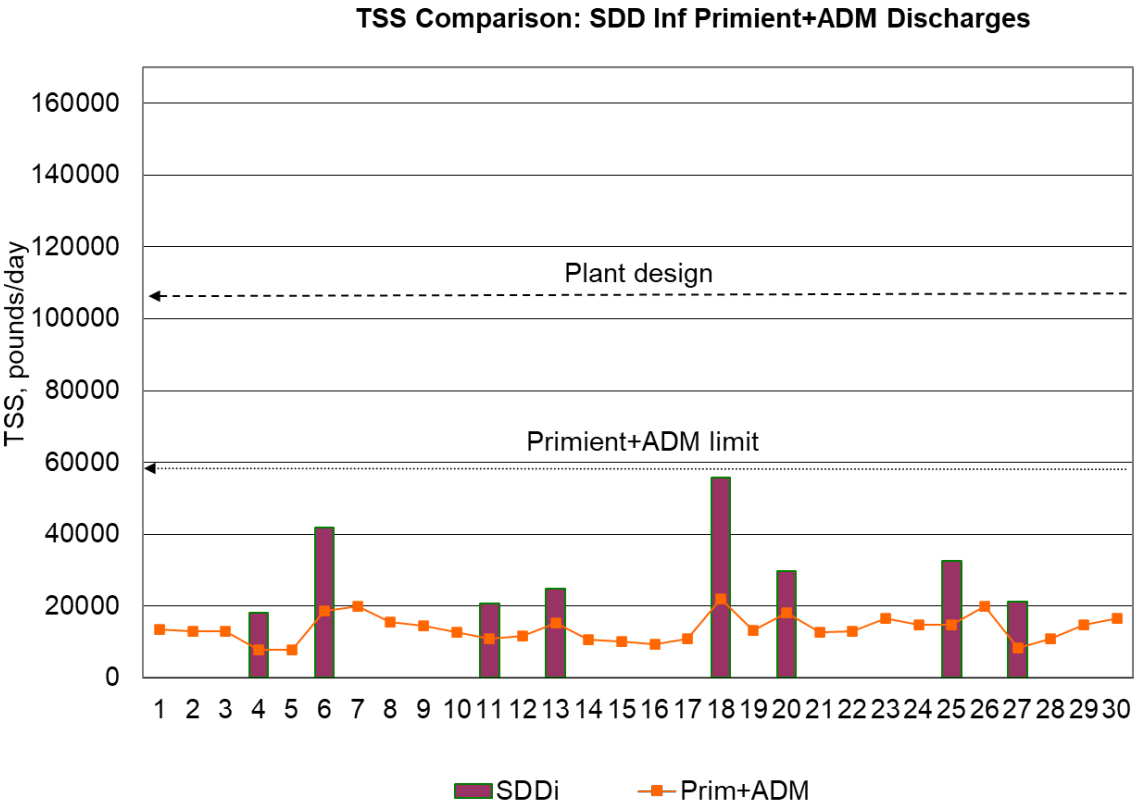
The following industrial penalties were assessed for November 2025.

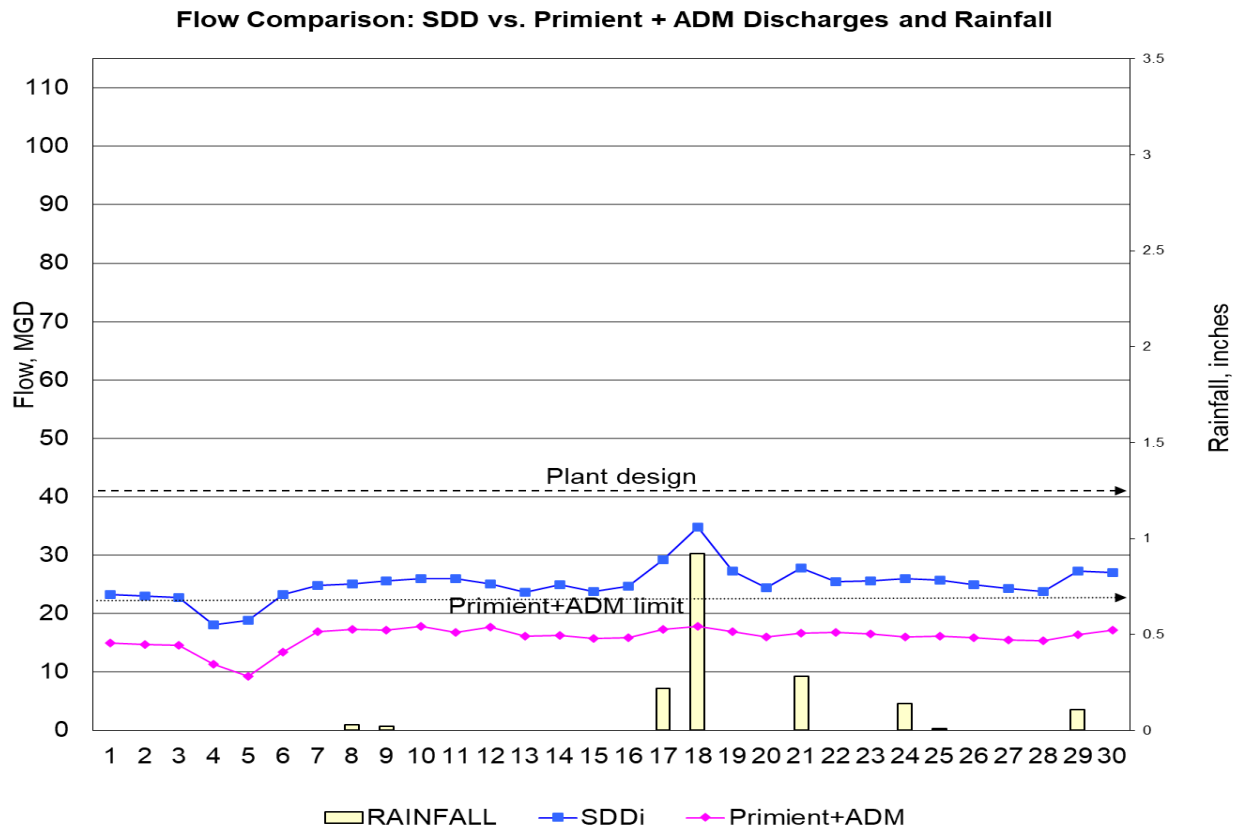
- **Primient** - \$1,000
- **Tillamook** - \$37,000

Nutrient Program Report:**NARP/Integrated Planning:**

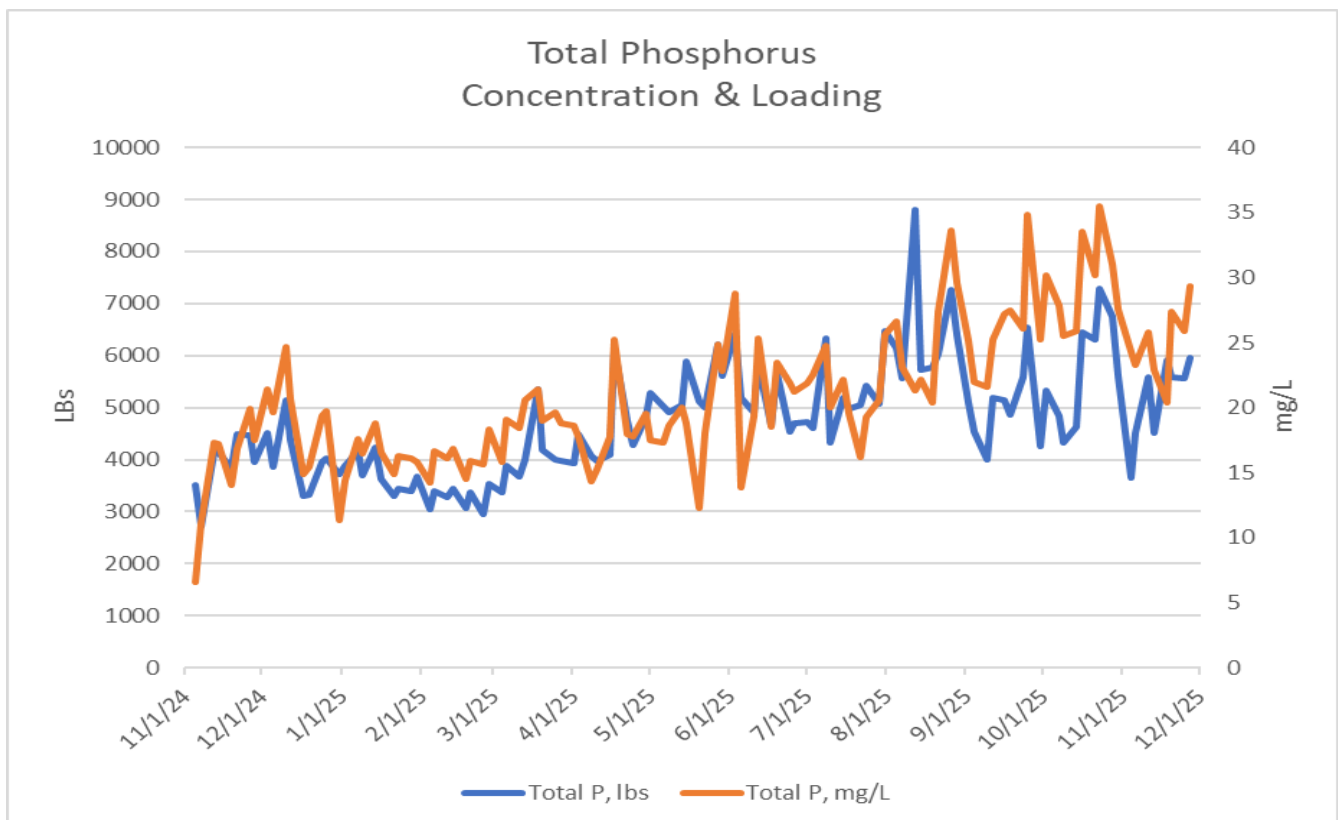
The City is still reviewing the newest revised draft of the Memorandum of Understanding (MOU). Once the District receives the City's approval the revised draft will be distributed to stakeholders for review by their respective legal teams. A scheduled meeting will then take place to discuss and finalize the work plan schedule.

Plant Operating Graphs:



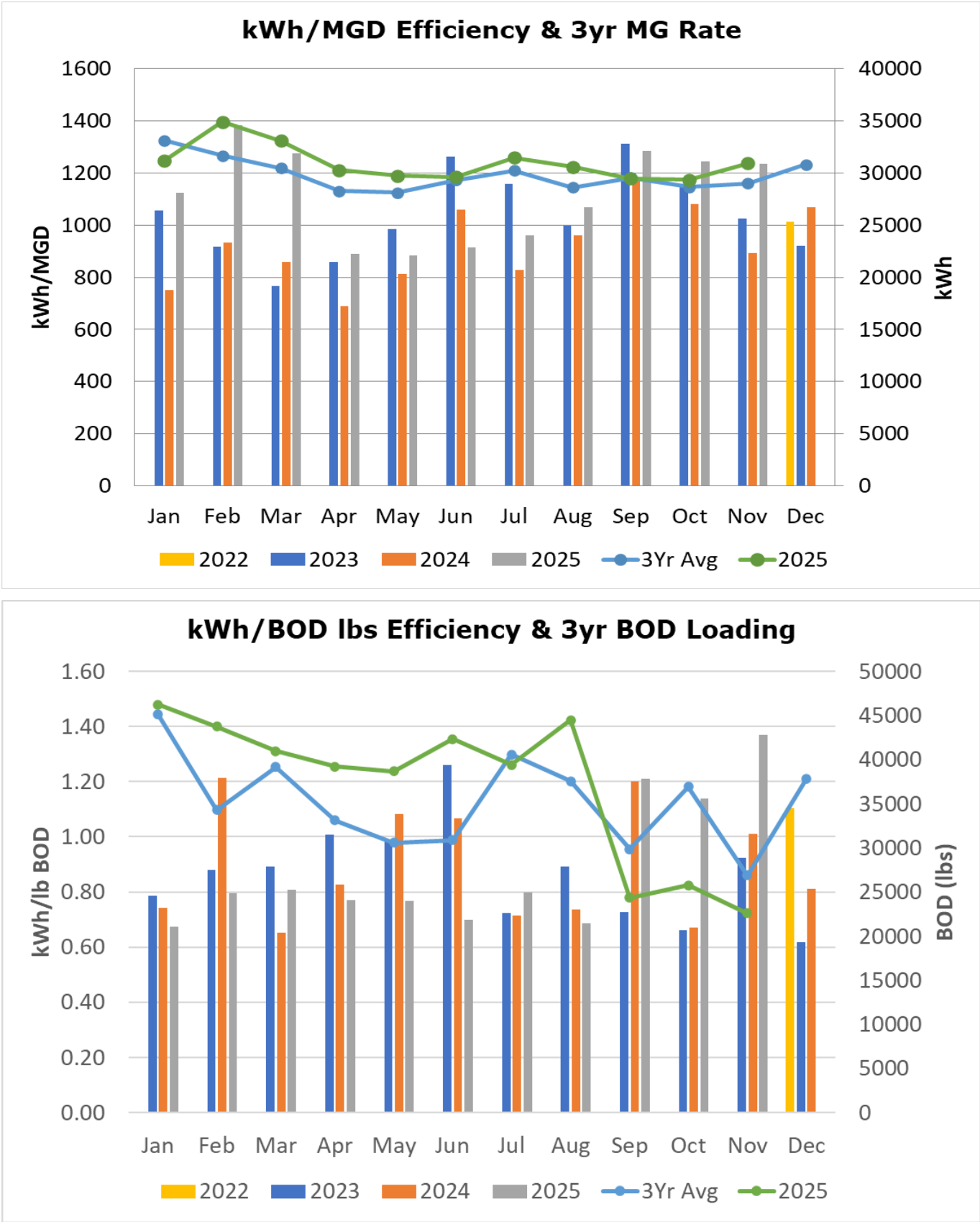


Phosphorus Tracking Graph:



Plant Efficiency Graphs:

November 2025



Pretreatment Software Information Document

Prepared for: Board of Trustees

Prepared by: Pretreatment Administrator

Date: December 3, 2025

Abstract

After several months of research and demonstrations from various software developers, SDD personnel have determined that the pretreatment software offered by Klir is the best fit for the pretreatment program.

1. Background

The SDD Pretreatment program currently utilizes an on-premises (OP) instance of LinkoCTS, a subsidiary of Hach. This year, it was announced that future development of LinkoCTS-OP would cease, with existing customers continuing to have access to their software. This prompted SDD personnel to begin searching for options to replace the sunseting software. Additionally the current software requires the Pretreatment Administrator to manually transfers data in the form of text files from the shared lab/pretreatment drive into the LinkoCTS system so additional functionality was reviewed.

2. Review of options

LinkoCTS -Cloud Based (CB), Klir, and PowerBI were evaluated as potential replacements to LinkoCTS-OP. LinkoCTS-CB and Klir are industrial pretreatment database software applications with interfaces specifically designed for an industrial pretreatment program. PowerBI is a visualization tool that helps users connect to, visualize, and analyze data from various sources to create interactive reports and dashboards.

LinkoCTS-CB functions similarly to the OP version and still lacks the desired data integration. PowerBI can be used to accomplish some of the items in our scope document, however it is not feasible to use as a standalone pretreatment program software.

3. Advantages of Klir

- Data integration: Automatically imports lab data on a daily basis
- Centralized task scheduling – Ensures users are properly sampled and inspected based on the various frequencies listed in their permit
- Significant Non-Compliance and Technical Review Criteria Calculations – automatically calculates and reports users that are in significant non-compliance
- Meets all EPA electronic reporting security criteria for Cross-Media Electronic Reporting (CROMERR) and Central Data Exchange (CDX)
- Active new feature development and support
- Industrial User Dashboards for each permitted user – allows for electronic data entry by users, as well as yearly report requirements as required by their permits.

Permit Effective Date	10/1/21	HIGH IMPORTANCE	Updated12/9/25					
Approximate Expiration Date (Month)	9/30/26	New app 4/3/26						
Permit Requirement	Reccurence Cycle	Repeats?	Period Covered	Permit Location	Deadline Date(s)	# Months to Comply	Date Reported	Completed
DMR Submissions	25th day / month	Yes - monthly	Previous Month	SC 6	Monthly 25th	0	12/9/25	
Fecal Coliform Testing Submission	25th day / month	Yes - monthly *	May - Oct	SC10	Monthly 25th	0	-	
Quarterly SWPPP Plant Inspection	Quarterly	Yes	Year begins each Oct	NA	3/31, 6/30, 9/30, 12/31		11/13/25	
Annual SWPPP Report	Yearly	Yes	Previous 12 months	SC19, K	9/30/Each Yr	2	9/11/25	
Pretreatment Annual Report	Annual	Yes	Previous Year	SC 11, B, 1, a-e	4/28/Each Yr	3	3/26/25	
Pretreatment Qrtly - DMR Tests	Quarterly	Yes	Calendar Year	SC 11, C, 1	1/25/Each Yr	25 days	1/10/25	
Qrtly Sludge Disposal DMR Report	Quarterly	Yes	Calendar Year	2021-SC-66254	1/25, 4/25, 7/25, 10/25	0	10/6/25	
110 Priority Polutants Tests	Yearly	Yes	Previous Year	SC 11, C, 2, a-c	4/28/Each Yr		3/26/25	
Annual Fiscal Report	Yearly, email	Yes	Budget Year	SC 13	1/31/Each Yr	1	1/3/25	
Discharge 002 Reporting	Special, DMR	As required	When Discharging	SC 15, All	Special	Special		
Semi-Annual Sludge Report 1st	Semi-Annual	Yes	Jan - Jun each Yr	SC 16	7/31/Each Yr	1	7/2/25	
Semi-Annual Sludge Report 2nd	Semi-Annual	Yes	Jul - Dec each Yr	SC16	1/31/Each Yr	1		
CSO Monthly Discharge Reports	Monthly, email	Yes	Previous Month	SC17, A, 1	Monthly 25th	0	12/3/25	
CSO PPP Public Meeting	Annual	Yes	NA	SC17, C, 1	4/1 yrly	12	3/19/25	
CSO PPP Revision & Report	As needed	Yes	NA	SC17, C, 1	1 mon. from revision	1		
CSO O&M Public Meeting	Annual	Yes	NA	SC17, E, 1, h	4/1 yrly	12	3/19/25	
CSO O&M Revision & Report	As needed	Yes	NA	SC17, E, 1, h	1 mon. from revision	1		
Sewer Use Ordinance Revision & Report	As needed	Yes	NA	SC17, F, 2	1 mon. from revision	1		
CSO Long-term Control Plan (LTCP)	9mos post-notification	No	NA	SC17, G, 1, b	NA	9		
CSO LTCP Report	12mos post-notification	No	NA		NA			
NARP Progress Report	Semi-Annual	YES	Every 6 months	SC 24	3/31 & 9/30 yrly	Fixed	9/30/25	
Update CMOM	NA	As needed	NA	SC18	As needed			
SWPPP Required Review/Update	As needed	Yes	NA	SC19, B	As needed	1	9/11/25	
PDOP Annual Progress Report	Annual	Yes	Calendar Year	SC21	3/31 yrly	12	3/26/25	
Feasibility Study Reports	Semi-Annual	Yes	March & September	SC20	3/31 & 9/30 yrly	Fixed	9/30/25	
Total P 1.0 mg/L MoAvg Compliance	Final	No	96mos post eff date	SC23, F	9/30/29	Fixed		
Total P 1.0 mg/L Progress Report	Annual	Yes	Previous Year	SC23, A	12/31 yrly	0		
Plant BNR Design Completed & Report	Final	No	60mos post eff date	SC23, D	9/30/26	Fixed		
Complete Construction & Report	Final	No	90mos post eff date	SC23, E	3/31/29	Fixed		
Total P 0.5 mg/L RGM Compliance	Final	No	NA	SC22, B,1-5	12/31/35	Fixed		
Biosolids 503 Annual Report	Annual	Yes	Previous Year	40 CFR Part 503/SC16	2/19 yrly	12	1/9/25	
Tier II Report	Annual	Yes	Previous Year		3/1 yrly	12	1/13/25	
Nonhazardous Special Waste Annual Report	Annual	Yes	Previous Year	Title 35 Ill. 809.501	2/1 yrly	12	1/22/25	

""- scheduled but have not complete as of yet

Sanitary District of Decatur
Nutrient Program Management Report

December 10, 2025

During the period of November 8, 2025 through December 5, 2025, District personnel attended meetings with members of the Black & Veatch team to affect progress in nutrient reduction planning and activities.

Black & Veatch coordinated with the SDD and the design consultants regarding their respective design package(s). Work consisted of site visits and bi-weekly coordination calls to discuss the design packages as shown in the following table, as well as bi-weekly coordination calls to review and discuss BIM/drafting requirements. Black & Veatch also conducted, or is in the process of conducting, additional evaluations for the following items: alternative WRRF wet-weather operation, channel air mixing, aeration design criteria, and disinfection evaluation.

The following is a list of meetings conducted. The information provided covers the subject, date, and agenda items of each meeting. Additional information related to any of these meetings or specific agenda items can be supplied to the Board upon request including meeting minutes and documentation used during the meeting as it is all being stored as part of the permanent record.

Nutrient Reduction Program Meetings conducted from November 8, 2025 through December 5, 2025

<u>Subject</u>	<u>Date</u>	<u>Agenda Items</u>
Nutrient Program Management Bi-weekly Meetings	Meeting held on 11/19/2025	<i>Objective:</i> Provide Status Update on Program Tasks <ul style="list-style-type: none">• Detailed Design• Watershed Services• PowerBI
Detailed Design, Donohue, Meeting	Meetings held on 11/12/2025 and 12/3/2025	<i>Objective:</i> Status Update and Discuss Detailed Design <ul style="list-style-type: none">• Discuss 30% Detailed Design Items• Review Schedule
Detailed Design, Clark Dietz, Meeting	Meetings held on 11/13/2025 and 12/4/2025	<i>Objective:</i> Status Update and Discuss Detailed Design <ul style="list-style-type: none">• Discuss 30% Detailed Design Items• Review Schedule
Detailed Design, CMT, Kickoff Meeting	Meetings held on 11/18/2025 and 12/2/2025	<i>Objective:</i> Status Update and Discuss Detailed Design <ul style="list-style-type: none">• Discuss 30% Detailed Design Items• Review Schedule

Sanitary District of Decatur
Watershed Management Report

December 10, 2025

During the period of November 8, 2025 through December 5, 2025, District personnel attended meetings with members of the Black & Veatch and Geosyntec team to coordinate and discuss elements essential to meet the Nutrient Assessment Reduction Plan (NARP) requirements as listed in the NPDES permit.

This month's Integrated Planning activities included reviewing the planned activities and focusing on the SDD's required input to the Integrated Plan. The SDD communicated with the City of Decatur regarding management changes within the City.

The following is a list of the meeting(s) conducted. The information provided covers the subject, date, and agenda items of each meeting. Black & Veatch provided a written summary. Additional information related to any of these items can be supplied to the Board upon request including meeting minutes and documentation used during the meeting as it is all being stored as part of the permanent record.

Watershed Management Meetings Conducted from November 8, 2025 through December 5, 2025

<u>Subject</u>	<u>Date</u>	<u>Agenda Items</u>
Watershed Services Bi-weekly Discussions	Meeting held on 11/12/2025	<i>Objective:</i> Geosyntec discussed Integrated Planning.



December 10, 2025

Sanitary District of Decatur (SDD)
501 Dipper Lane
Decatur, IL 62522

Nutrient Program Manager
BV Project No. 411502

Attention: Don Miller, P.E., Director of Engineering

Subject: SDD Nutrient Program Management
Progress Update (November 8, 2025 – December 5, 2025)

Dear Mr. Miller:

This letter summarizes the work associated to the SDD Nutrient Program Management project for services from November 8, 2025 through December 5, 2025.

1. Program Management, Administration, and Coordination
 - Conducted bi-weekly program conference calls to update progress and discuss key issues.
 - Provided monthly project updates.
 - Provided ongoing management of the project including program management, preparation/monitoring of the program schedule and budget as well as program administrative duties.
2. PowerBI
 - Managed access to PowerBI and design consultants.
3. Watershed Support Services
 - Conducted a bi-weekly progress update meeting.
4. Detailed Design
 - Continued coordination with potential subcontractors for surveying and geotechnical services. These services will be reviewed with the SDD and a request for an amendment to include these services in the program scope will be submitted to SDD.
 - Conducted bi-weekly calls with design consultants on detailed design requirements and BIM/drafting requirements.
 - Continued to evaluate potential increased loadings from Tillamook and the corresponding impact to the proposed improvements.
 - Discussed solids storage requirements with SDD and required volume for the Wyckles facility, it was decided to maintain the current storage volume available.
 - Provided a high-level overview of the ozone disinfection “desktop” analysis at the WRRF. A memorandum to summarize this analysis is being finalized.
 - Attended site visits with design consultants to review their project scopes.
 - Reviewed 30% design documents for Design Packages 3 and 4.

Please feel free to contact me with any questions, comments or if you need additional information.
Sincerely,

Todd Archer, P.E.
Engineering Manager, Black & Veatch