

Director of Compliance and Innovation Report

October 18, 2023

Plant Loading, CSO Report, and Director's Notes

Plant Influent Report:

Biochemical Oxygen Demand, 5-Day (Avg. 40334 lbs/day)	63 percent of design
Total Suspended Solids (Avg. 54713 lbs/day)	50 percent of design
Average Daily Flow (22.39 million gallons/day)	55 percent of design
Maximum Daily Flow (28.22 million gallons/day)	23 percent of design

Plant Influent Total Monthly Flow (million gallons) for August	877.22
Estimated Unbilled Total Monthly Flow (million gallons)	119.70
Total Monthly Precipitation (inches)	4.89

Plant Effluent Report:

Parameter	Report Frequency	Permit Limits	Reported Values	Violations
CBOD ₅ , mg/L	Mo./Wk. Avg	20/40	2/2	0
TSS, mg/L	Mo./Wk. Avg	25/45	5/7	0
NH ₃ -N, mg/L	Mo. Avg/Daily Max	1.5/3.0	0.43/0.48	0
DO, mg/L	Mo. Avg/Wk. Avg/Daily Min	6.0/4.5/4.0	6.94/6.75/6.65	0
pH, S.U.	Daily Min/Max	6.0/9.0	7.84/8.00	0
Total Nickel, mg/L	Mo. Avg	0.0381	0.019	0
Cl ₂ Residual, mg/L	Daily Max	0.05	<0.011	0
Fecal Coliform CFU/100mL	Daily Max	400	247	0

CSO Report:

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

Director's Notes:

Disinfection Season:

Although the disinfection season is coming to an end for the 2023 season, the District operators continue to work hard operating the disinfection system. Operators have had to continually deal with issues such as nitrite fluctuation and ammonia levels mainly due to heavy loading from industries and low flow conditions.

Land Application Program:

Staff have been hard at work mixing sludge over at the Wyckles storage lagoons prepping for land application to begin this month.

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. These included the annual NARP Progress Report, the semi-annual Feasibility Progress Report, and the annual Stormwater Pollution Prevent Plan (SWPP) Inspection Report.

New Operator:

Lewis Feltes has been selected for the operator position. Lewis comes to the District with industrial and environmental experience and knowledge from his former positions. He will be a great addition to the operations team.

Operations, Laboratory, and Pretreatment Activity Reports – September/October 2023**Operations Activities:**

Normal operational activities were conducted as prescribed by standard procedures or in response to conditions within the plant. These include operating, monitoring, and adjusting facility equipment, performing process control testing, records keeping, and coordination with the other departments to realize optimal performance of the Plant.

- 1) Digester #2- Operators have removed all the sludge that they can. Maintenance will finish pumping sludge but have experienced high methane levels in the attic space creating a safety concern. We will pump the remaining sludge out this month.
- 2) Digester #3- Digester has been put back online. The mixer has been taken offline due to an oil leak.
- 3) Digester #1 - Joint leak has been repaired and is back online.
- 4) Operations staff continue to actively address PMs as time, workload, and staff levels allow.
- 5) Blower usage has still been increased due to low flows and higher concentrations of Ammonia, BOD and Nitrates. Operations staff continue to look for opportunities to lower blower usage. # 1 Hoffman Blower was in use from 9/6 to 9/8 and 9/30 – 10/2 for a total of 72 hours.
- 6) Operations staff continue to monitor disinfection chemical usage and make the necessary adjustments.
- 7) I&C has installed the inclinometers and Jaimie is updating the alarms in Scada.
- 8) We have started the sludge mixing at Wyckles lagoons in anticipation of land ap starting this month.
- 9) The rain that we received on the 5th of October has helped with the odors at the plant.

Laboratory Activities:**Routine:**

A total of 1,801 analyses were performed in the laboratory during the month of September 2023.

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 twice a week throughout the month of September 2023 for the "COVID-19 in Wastewater" study funded by the Illinois Department of Public Health. A Zoom call was held on September 8, 2023, with the study participants and the researchers to discuss the results of the study thus far. An increase in COVID levels has been observed across the state.

- 2) The SDD laboratory analyzed seven stormwater samples during September 2023 for the Lake Decatur Watershed monitoring study. The SDD is providing in-kind laboratory analysis of samples collected at the study's three monitoring sites after significant storm events.
- 3) The SDD laboratory/pretreatment collected and analyzed samples on September 13, 2023, for the ongoing nutrient study for Black and Veatch.
- 4) Keith Richard attended the Illinois Water Environment Association (IWEA) Executive Board and Committee Chair Meeting at Starved Rock Lodge on September 15, 2022. The group meets quarterly to discuss current and upcoming activities of the IWEA and its committees. Keith continues to serve as the Chair of the IWEA Laboratory Committee.
- 5) Samples were collected of the influent, final effluent, primary sludge, sludge in the Wyckles Lagoon, and landfill leachate on September 27, 2023, for PFAS testing.

Pretreatment Activities:

Pretreatment - General Activities:

- 1) Pretreatment personnel monitored five commercial and industrial users (IU) during September 2023. Three industry site inspections took place during September.
- 2) Bimonthly sampling for the Nutrient Study is ongoing. SDD personnel are utilizing our portable samplers to collect the extra samples from **Primient** and **ADM**.
- 3) Permit renewal packets were sent to **Mason Manufacturing** and **VAE Nortrak North America**.
- 4) Renewed wastehauler permits were issued to **Decatur Municipal Services, Enviroserve, Kelly's Septic Service, Midwest Pottyhouse, Parks Sewer Service, Septic Specialist, and Zeschke Septic Cleaning**.
- 5) Meetings were held with **ADM** and **Primient** to get updates on their nutrient reduction efforts.

Pretreatment Ordinance - Verbal Notices:

The SDD issued a total of 2 Verbal Notices to **Primient** in September 2023:

1. 9/29/2023: **Primient** was issued a verbal notice and a \$1,000 fine for discharging 26,354 lbs. of BOD, 2,129 lbs. above their limit.
2. 9/30/2023: **Primient** was issued a verbal notice and a \$1,000 fine for discharging 30,118 lbs. of BOD, 5,893 lbs. above their limit.

Pretreatment Ordinance - Warning Notices (WN):

No Warning Notices were issued during September 2023.

Pretreatment Ordinance - Notices of Violation (NOV):

No Notices of Violation were issued during September 2023.

Pretreatment Ordinance - Executive Orders:

No Executive Orders were issued during September 2023.

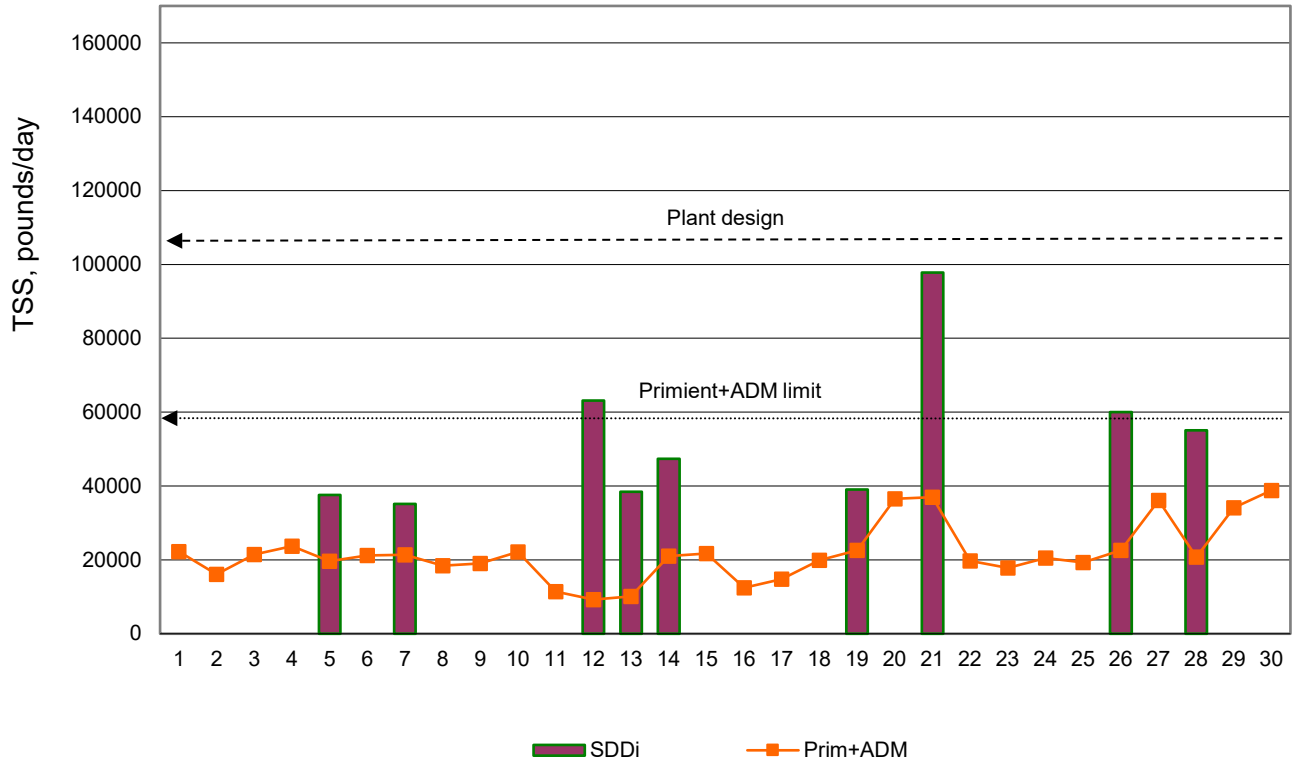
Pretreatment Ordinance - Penalty Assessments:

The following industrial penalties were assessed for September 2023:

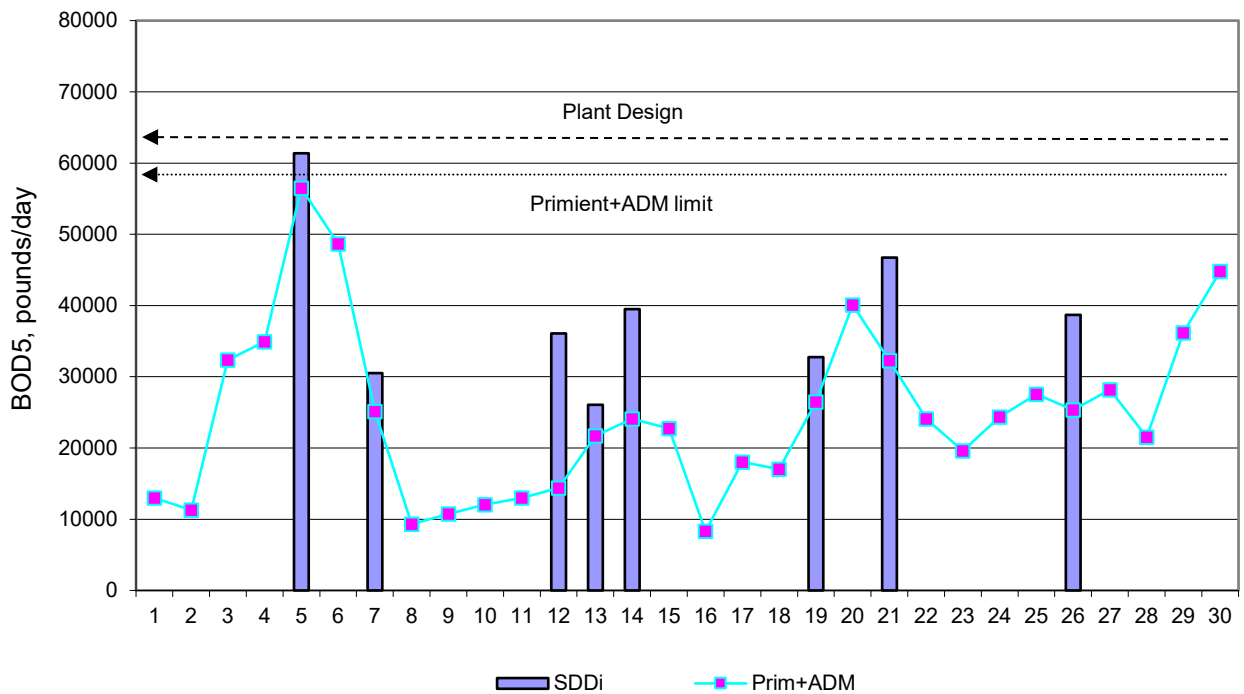
- 1) **Primient** **\$2,000**

Plant Operating Graphs:

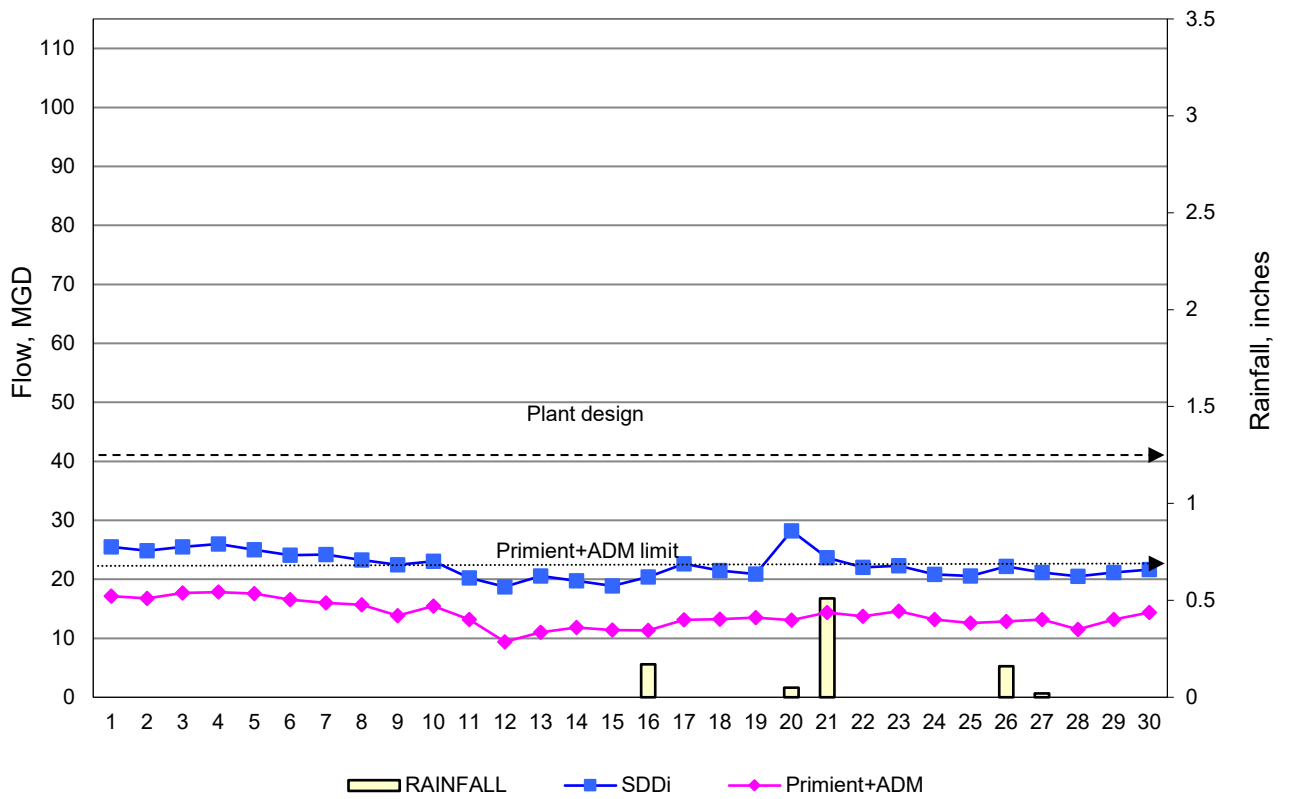
TSS Comparison: SDD Inf Primient+ADM Discharges



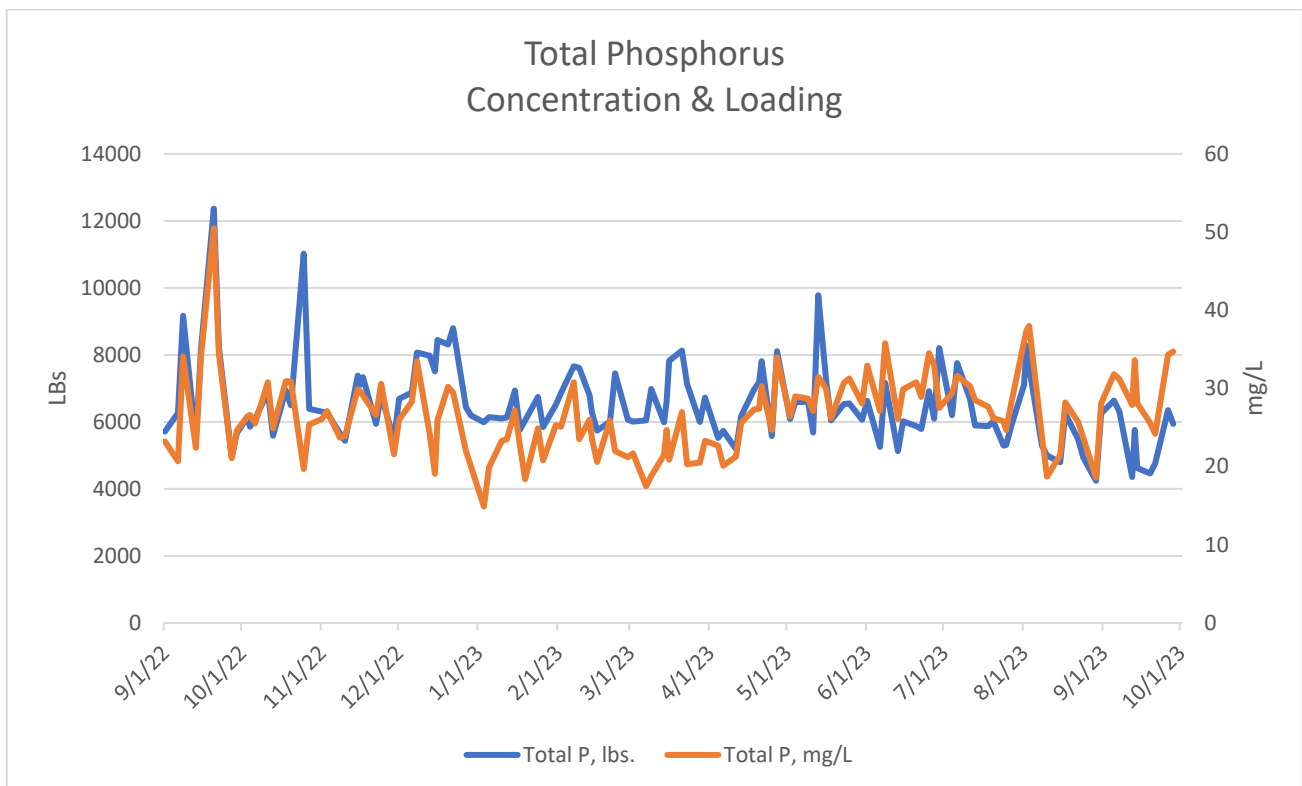
BOD Comparison: BOD Inf vs. Primient + ADM Discharges



Flow Comparison: SDD vs. Primient + ADM Discharges and Rainfall

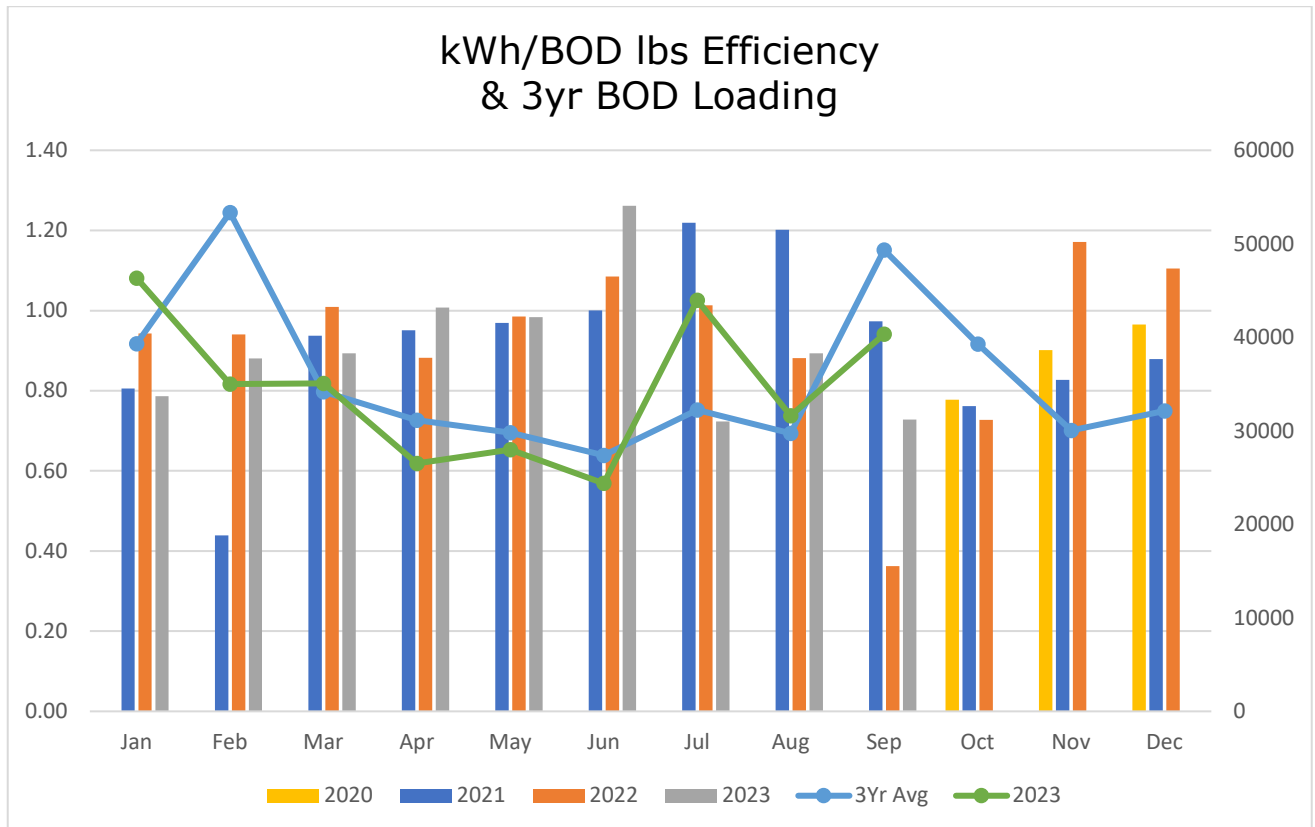
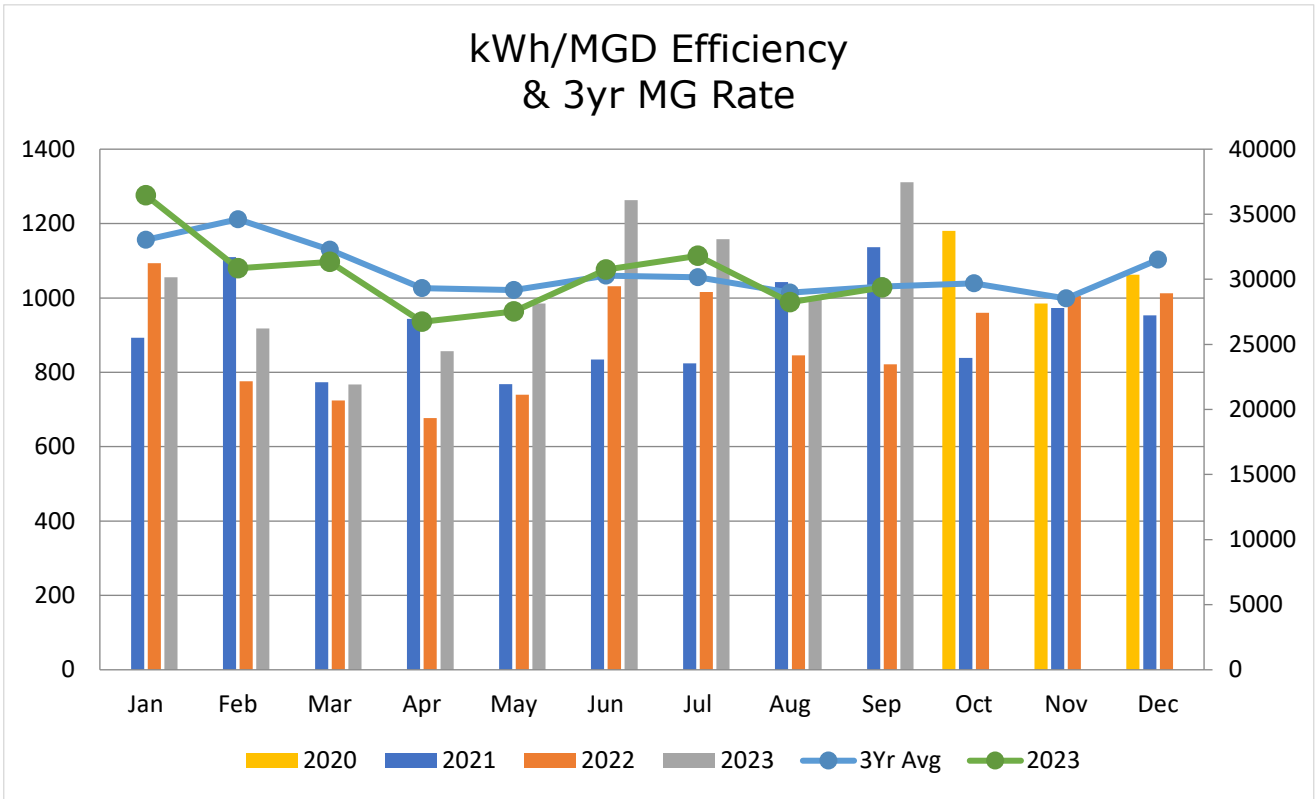


Phosphorus Tracking Graph:



Plant Efficiency Graphs:

September 2023



**Sanitary District of Decatur
Nutrient Program Management Report**

October 18, 2023

During the month of September District personnel attended meetings with members of the Black & Veatch Team to affect progress in nutrient reduction planning and activities.

Currently, activities continue to surround the gathering and sharing of data and information so that all parties can assist in how to move the projects forward as efficiently as possible. In the month of September, the District continued to gather and forward all requested industrial special sampling lab results and plant performance data as requested by the B&V.

B&V has continued the development of their full facility model, continued to develop aged infrastructure evaluation, and as well as continued to assistance with construction phase services of the Frac Tank Pilot Study including leading the construction progress meetings.

Below you will find a list of the actual meetings conducted in chronological order. The information 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 during September 2023

<u>Subject</u>	<u>Date</u>	<u>Agenda Items</u>
Nutrient Program Management Bi-weekly Meeting	09/13/2023	<i>Objective:</i> Provided Status Update on Program Tasks 1. Frac Tank Pilot 2. Power BI 3. Pretreatment Program Update 4. PDOP/Annual Progress Report 5. Watershed Services 6. Aging Infrastructure 7. WRRF Upgrade Plan
Nutrient Program Management Bi-weekly Meeting	09/27/2023	<i>Objective:</i> Provided Status Update on Program Tasks including schedule and outstanding task items. 1. Frac Tank Pilot 2. Power BI 3. Pretreatment Program Update 4. PDOP/Annual Progress Report 5. Watershed Services 6. Aging Infrastructure 7. WRRF Upgrade Plan
ADM Nutrient Reduction Strategy Update	9/6/2023	<i>Objective:</i> The meeting served as an update meeting for ADM’s Nutrient Reduction Strategy
Primient Quarterly and Nutrient Reduction Strategy Update	9/26/2023	<i>Objective:</i> The meeting served as both a quarterly update meeting and an update meeting for Primient’s Nutrient Reduction Strategy
Fermentation Reactor Pilot Construction Progress Meeting	08/31/2023	1. Submittal Status 2. Request for Information 3. Work Change Directive / Change Orders 4. Pay Applications 5. Additional Questions / Discussion 6. Next Meeting

**Sanitary District of Decatur
Watershed Management Report**

October 18, 2023

During the month of September District personnel attended meetings with members of the Black & Veatch and Geosyntec Teams to affect progress in meeting the NARP requirements as listed in the NPDES permit as well as moving forward on the formation of a future watershed workgroup for the Middle Sangamon River.

Recent activities pertained to items necessary to complete the NARP Study. Foremost in these efforts included Geosyntec completing their initial watershed modeling efforts and the Sangamon River Watershed Report for SDD review. This month focused on the review of this model and report where SDD provided review comments for incorporation. Geosyntec has also begun to develop potential watershed management scenarios.

Below you will find a list of the meetings conducted. The information 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 during September 2023

<u>Subject</u>	<u>Date</u>	<u>Agenda Items</u>
Watershed Services Bi-weekly Meeting	09/06/2023	1. Discussed the Watershed Model Report and review comments
Watershed Services Bi-weekly Meeting	09/20/2023	1. Provided summary of potential watershed management scenarios

October 2, 2023

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
September Monthly Progress Update (September 1, 2023 – September 30, 2023)

Dear Mr. Miller:

This letter summarizes the work associated to the SDD Nutrient Program Management project for services from September 1, 2023, through September 30, 2023.

1. Program Management, Administration, and Coordination
 - Conducted bi-weekly program conference calls to update progress and discuss key issues.
 - Provided Monthly Project Update.
 - Attended August Board meeting to provide program support and updates to the Board of Trustees.
 - Provided ongoing management of the project including program management, preparation/monitoring of the program schedule and budget as well as program administrative duties.
 - Updated Power BI dashboard with most recent plant monitoring data.
2. Pretreatment Program Update
 - Continued to evaluate special sampling data
 - Prepared for and met with both ADM and Primient on their Nutrient Reduction Strategies
 - Continued to update the full facility process model with the industrial special sampling results.
3. Phosphorus Discharge and Optimization Plan (PDOP)
 - No Services were completed this period.
4. Watershed Support Services
 - Conducted bi-weekly progress update meeting.
 - Geosyntec incorporated SDD comments into the Sangamon River Watershed Model Report and submitted the Final Report
 - Geosyntec completed their Instream model for the NARP Study.
 - Geosyntec began to identify watershed management scenarios and next steps for the WASP modeling efforts.
 - Continued initial planning efforts for the Watershed Group formation development.

- 5. WRRF Upgrade Plan
 - Aged Infrastructure Evaluation
 - i. Continued to developed rehabilitation and replacement costs.
 - ii. Developing rating score for each asset evaluated to determine criticality and timing of upgrades.
 - iii. Continued summarizing structural assessments and incorporate into overall aging infrastructure evaluation.
 - Plant Facility Evaluation
 - i. Continued detailed modeling efforts to evaluate and provide whole plant process model simulations related to the alternatives identified for nutrient removal.

- 6. Pilot and Demonstration Testing
 - Continued to review for contractor submittals
 - Prepared for and conducted the Construction Progress Meeting with Burdick (Contractor).

FRAC TANK PILOT PROJECT SCHEDULE	
MILESTONE/ACTIVITES	DATE
Bi-weekly Construction Progress Meetings	August – December 2023
Early Receipt of Pre-purchased Equipment Primary Sludge Pumps Big Bubble Mixing Frac Tank	November 2023
Substantial Completion (pending equipment delivery times)	December 2023
Final Completion	January 2023

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

Sincerely,

Diane Grossenheider, P.E.
 Project Manager, Black & Veatch

Enclosure(s):

- SDD Nutrient Program Manager Schedule
- Anticipated Cost Forecast

Project: Nutrient Program Management - 100223

Activity Name	Duration	Start	End	2022												2023											
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Nutrient Program Management - 100223				18-Dec-26																							
Program Management, Administration and Coordination				18-Dec-26																							
A1000	NTP	0	26-Jun-22 A																								
A1010	Kick Off Meeting	0	18-Feb-22 A																								
A1020	Kick Off Meeting Minutes	1	24-Feb-22 A																								
A1030	SDO Bi-Wednesday Program Review on Call - Thursdays	1217	01-Mar-22 A																								
A1040	SDO Monthly Program Meeting Minutes	1217	01-Mar-22 A																								
A1050	Cost Parameters	1217	01-Mar-22 A																								
A1051	PowerWtr	1217	15-Mar-22 A																								
A1060	Monthly Progress Update - First Monday of Month	1214	04-Mar-22 A																								
A1070	Monthly Board of Trustees Meetings	1212	08-Mar-22 A																								
A1080	Industrial Water Red Line Meetings	1202	22-Mar-22 A																								
Pre-treatment Program Update				02-Sep-23																							
B2000	Task Collection/Request	5	19-Jun-22 A																								
B2010	Drinking Water	25	20-Jun-22 A																								
B2020	Characterize Waste Water Discharge	40	29-Aug-22 A																								
B2021	Waste Water Discharge Characterization Meeting	4	27-Mar-22 A																								
B2030	Pre-treatment Program Analysis	60	13-Jun-22 A																								
B2040	Pre-treatment Program Update Draft Report Submitted	37	24-Jul-22 A																								
B2050	SDO Review	10	22-Aug-22 A																								
B2060	Pre-treatment Analysis Draft Review Meeting	0	16-Oct-23																								
B2070	Stakeholder Meeting	0	30-Oct-23																								
B2080	Pre-treatment Program Update Final Report Submitted	20	30-Nov-23																								
B2090	Send Annual Industrial User Meeting (Quarterly)	510	06-Jun-23 A																								
Phosphorus Discharge and Optimization Plan (PDOP)				24-Nov-23 A																							
C3000	Phosphorus Optimization Evaluation	276	01-Mar-22 A																								
C3010	SDO Workshop	5	05-May-22 A																								
C3011	Deep Well Injection Analysis	5	03-Aug-22 A																								
C3020	Industrial User Workshop(s)	0	16-Dec-22 A																								
C3030	PDOP Draft Submitted	105	09-May-22 A																								
C3040	PDOP SDO Draft Review	15	21-Nov-22 A																								
C3050	PDOP Draft Review Meeting	0	30-Nov-22 A																								
C3055	Prepare Final PDOP	5	23-Nov-22 A																								
C3060	Final PDOP Submitted	0																									
C3070	PDOP Plan Report Submitted to IEPA	20	27-Feb-23 A																								
Watershed Support Services				18-Dec-26																							
D1000	Data Review and Analysis	30	09-Feb-22 A																								
D1010	QA/QC	30	09-Feb-22 A																								
D1020	SDO Review Meeting	0	24-May-22 A																								
D1030	Site Visit	2	24-May-22 A																								
D1040	Real Monitoring Plan	38	09-Feb-22 A																								
D1050	PRM Monitoring	0	23-Jun-22 A																								
D1060	Deploy for Sampling (not needed)	30	22-Jun-22 A																								
D1070	Watershed Group Formations	96	31-Aug-22 A																								
D1080	Watershed Group Meetings	773	29-Nov-23																								
D1090	SDO Public Meetings (not needed)	773	29-Nov-23																								
D1100	Bi-Annual Update Summary (March/October)	1025	12-Sep-22 A																								
D1110	Watershed Support Services Bi-Wednesday Meetings - Wednesdays	205	09-Mar-22 A																								
Increase Model Development				04-Dec-23																							
N1000	Phase Data for Model Input	30	01-Jun-22 A																								
N1010	Develop and Calibrate Model	30	03-Jul-22 A																								
N1020	Sensitivity Analysis	20	03-Aug-22 A																								
N1030	QA/QC Outputs	20	12-Oct-23																								
N1040	QA/QC Outputs	16	09-Nov-23																								
Watershed Monitoring Contract				25-Nov-24																							
N1050	Identify Scenarios	40	17-Jul-23 A																								
N1060	Develop Outputs	25	26-Oct-23																								
N1070	Run Scenarios and Post Process	25	05-Dec-23																								
N1080	Internal Discussion and Considerations	10	11-Jan-24																								
N1090	Client Discussion and Considerations	22	25-Jan-24																								
Implementation Plan and Schedule				23-Oct-24																							
N1100	Develop List of Proj/Approaches to Facilitate Scenarios	42	26-Jan-24																								
N1110	Determine Necessary Physical Pathways	42	26-Mar-24																								
N1120	Coordinate and Develop Schedule	42	24-May-24																								
N1130	NARP Draft Submitted	22	25-Jul-24																								
N1140	SDO Review	20	26-Aug-24																								
N1150	NARP Final for Submission to IEPA	22	24-Sep-24																								
Feasibility Study				19-Sep-24																							
E1010	Feasibility Study Outline	25	06-Feb-23 A																								
E1020	Draft Feasibility Study	300	06-Feb-23 A																								
E1021	SDO Review	15	08-Aug-24																								
E1024	Final Plan by Study Subteam	15	29-Aug-24																								
E1030	Send Annual Progress Reports	300	24-Feb-23 A																								
Comprehensive WRRF Upgrade Plan				08-Feb-24																							
Comprehensive WRRF Tech Memos				02-Nov-23 A																							
F1000	Conduct Current Influent Studies and Characterize	15	18-Feb-22 A																								
F1010	Technology Evaluation Workshop (Wloop #1)	0	15-Mar-22 A																								
F1020	On Site Condition Assessment	0	15-Mar-22 A																								
F1030	Establish Current and Future Drivers	10	15-Mar-22 A																								
F1040	Tech Memo 1 Submitted	10	15-Mar-22 A																								
F1050	Tech Memo 1 SDO Review	10	06-May-22 A																								
F1060	Tech Memo 1 Review Meeting	0	24-May-22 A																								
F1070	Tech Memo 1 Final Submitted	0																									
F1070	Tech Memo 1 Review	10	27-Feb-23 A																								
Post Aerobic Digester Tech Memo				31-Oct-22 A																							
F1125	Post Aerobic Digester TM Subteam	5	30-Jun-22 A																								
F1126	Post Aerobic Digester TM SDO Review	10	07-Sep-22 A																								
F1127	Post Aerobic Digester TM Review Meeting	0	31-Oct-22 A																								
F1128	Post Aerobic Digester TM Final Subteam - NJA	0	31-Oct-22 A																								
Liquid Stream Evaluations Review Tech Memo 2				03-Apr-23 A																							
F1080	Comprehensive Technology List and Baseline Analysis	21	29-Mar-22 A																								
F1090	Liquid Stream Technology Screening Workshop (Wloop #2)	0	05-May-22 A																								
F1100	Workshop Minutes	5	06-May-22 A																								
F1110	Liquid Stream Aerobics Analysis	15	05-May-22 A																								
F1120	Liquid Stream Evaluation Review Workshop (Wloop #3 Virtual)	0	13-Jul-22 A																								
F1130	Tech Memo 2 Submitted	15	30-Jun-22 A																								
F1140	Tech Memo 2 SDO Review	10	22-Aug-22 A																								
F1150	Tech Memo 2 Review Meeting	0	29-Sep-22 A																								
F1160	Tech Memo 2 Final Submitted	5	30-Sep-22 A																								
Liquid Stream Pilot Plant Design/Construct Tech Memo 3				22-Nov-22 A																							
F1170	Potential Pilot Alternatives Evaluation	15	24-Jun-22 A																								
F1180	Develop Nutrient Removal Pilot-Testing Plan	40	11-Jul-22 A																								
F1190	Tech Memo 3 BNR Submitted	40	27-May-22 A																								
F1200	Tech Memo 3 SDO Review	10	26-Sep-22 A																								

Project: Nutrient Program Management - 100223

Job #/ID	Activity Name	Duration	Start	End	2022												2023											
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
F2120	Tech Memo 3 Review Meeting	1	06-Oct-22 A	06-Oct-22 A																								
F2120	Tech Memo 3 Final Submitted	10	10-Oct-22 A	22-Nov-22 A																								
	Sulfate Development/Solid Stream Tech Memo 4	3000	09-Sep-22 A	15-Nov-23																								
F2130	Solids Stream Data Review	80	09-Sep-22 A	22-Nov-22 A																								
F2140	Solids Stream Data Analysis	50	12-Jan-23 A	22-Mar-23 A																								
F2150	Solids Stream Skidoff	0	29-Nov-22 A	29-Nov-22 A																								
F2152	Solids Stream Technology Workshop	0	12-Jan-23 A	12-Jan-23 A																								
F2154	Solids Stream Aheron Iron Workshop	0	07-Feb-23 A	07-Feb-23 A																								
F2156	Solids Stream Biorate Up Workshop	0	06-Apr-23 A	06-Apr-23 A																								
F2160	Tech Memo 4 Submitted	70	30-Nov-22 A	22-Aug-23 A																								
F2170	Tech Memo 4 Review Meeting	0	17-Oct-23	17-Oct-23																								
F2180	Tech Memo 4 SSD Review	10	17-Oct-23	30-Oct-23																								
F2190	Tech Memo 4 Final Submitted	10	31-Oct-23	13-Nov-23																								
	Aging Infrastructure Evaluation Tech Memo 5b	514	11-Nov-22 A	08-Feb-24																								
F2195	SSD Skidoff Meeting	0	04-Apr-23 A	04-Apr-23 A																								
F2200	Detailed Modeling Evaluation	150	17-Nov-22 A	29-Dec-23																								
F2300	Aging Infrastructure Evaluation Plan	105	11-Nov-22 A	17-May-23 A																								
F2310	Aging Infrastructure Evaluation	3	18-May-23 A	27-Oct-23																								
F2320	Tech Memo 5b Submited	45	30-Oct-23	04-Jan-24																								
F2330	Tech Memo 5b Review Meeting	5	12-Jan-24	18-Jan-24																								
F2340	Tech Memo 5b SSD Review	10	19-Jan-24	01-Feb-24																								
F2350	Tech Memo 5b Final Submited	5	02-Feb-24	08-Feb-24																								
	Pilot and Demonstration Testing (If Needed)	794	11-Jul-22 A	29-Jan-24																								
G1000	Conceptual Design Report	20	11-Jul-22 A	22-Nov-22 A																								
G1010	Conceptual Design SSD Review and Meeting	22	30-Nov-22 A	30-Nov-22 A																								
G1020	Draft Procurement Pkg Submited	0	31-Jan-23 A	31-Jan-23 A																								
G1030	50% Design Docs Submitted to SSD	0	24-Feb-23 A	24-Feb-23 A																								
G1040	Comments Received on Draft Procurement Pkg	5	01-Feb-23 A	03-Feb-23 A																								
G1050	50% Design Review Meeting	0	06-Mar-23 A	06-Mar-23 A																								
G1060	SSD Issue Procurement Docs to Vendor	5	06-Feb-23 A	27-Feb-23 A																								
G1080	Receive Vendor Quotes	5	20-Feb-23 A	10-Mar-23 A																								
G1085	Final B id Docs Submitted to SSD	10	06-Feb-23 A	17-Mar-23 A																								
G1090	Issue Vendor Pkgs	5	24-Feb-23 A	02-Mar-23 A																								
G1100	Advertise for Bid	8	06-Mar-23 A	20-Mar-23 A																								
G1110	Bid Opening	12	09-May-23 A	09-May-23 A																								
G1120	RFI	1	30-Jan-23 A	30-Jan-23 A																								
G1130	Receipt of Pre-Purchased Equipment	0		21-Nov-23																								
G1140	Substantial Completion	0		15-Jan-24																								
G1150	Final Completion	0		29-Jan-24																								
	Conceptual Design Development and Detailed Design Support Services	542	23-Jun-24	18-Dec-26																								
	GIS and DDP Support Services	542	23-Jun-24	18-Dec-26																								
	Additional Services	0																										

SANITARY DISTRICT OF DECATUR - NUTRIENT PROGRAM MANAGEMENT
2022 - 2023 COST FORECAST
 BV Project Number 411502

Incremental		2022.02	2022.03	2022.04	2022.05	2022.06	2022.07	2022.08	2022.09	2022.10	2022.11	2022.12	2023.01	2023.02	2023.03	2023.04	2023.05	2023.06	2023.07	2023.08	2023.09	2023.10	2023.11	2023.12	2022 Total	2023 Total	
		Planned	Actuals	Forecast	Planned	Actuals	Forecast	Planned	Actuals	Forecast	Planned	Actuals	Forecast	Planned	Actuals	Forecast	Planned	Actuals	Forecast	Planned	Actuals	Forecast	Planned	Actuals	Forecast	Planned	Actuals
	Planned	13,683	108,359	237,519	168,336	497,476	284,217	100,648	86,219	109,725	91,822	91,820	204,625	175,033	184,839	230,195	181,219	171,412	188,595	126,472	126,461	158,090	126,472	126,465	1,789,824	1,999,878	
	Actuals	16,724	60,831	77,995	54,608	61,865	125,355	145,679	112,979	118,381	94,677	105,543	155,812	179,053	152,247	155,630	138,917	142,510	137,166	116,874	116,626				974,636	1,294,835	
	Forecast	16,724	60,831	77,995	54,608	61,865	125,355	145,679	112,979	118,381	94,677	105,543	155,812	179,053	152,247	155,630	138,917	142,510	137,166	116,874	116,626	122,320	96,379	96,377	974,636	1,609,911	
Task 1 Program Mgmt	Planned	4,631	18,589	25,171	20,169	20,164	25,213	20,168	20,170	25,211	20,169	20,167	20,050	17,010	17,014	21,263	17,010	17,012	21,267	17,010	17,012	21,263	17,012	17,012	219,822	199,885	
	Actuals	7,905	2,198	2,585	3,303	2,115	3,760	4,348	5,103	3,173	9,068	4,320	9,295	8,708	21,585	22,475	18,400	15,276	19,376	5,868	4,878				47,875	125,859	
	Forecast	7,905	2,198	2,585	3,303	2,115	3,760	4,348	5,103	3,173	9,068	4,320	9,295	8,708	21,585	22,475	18,400	15,276	19,376	5,868	4,878	7,000	7,000	7,000	47,875	146,859	
Task 2 Pretreatment Program Update	Planned	1,726	15,177	42,250	17,294	10,680	30,576	19,616	5,192	6,491	5,192	5,192	-	-	-	-	-	-	-	-	-	-	-	-	159,386	-	
	Actuals			705	470	470	235	-	353	430	430	1,450	4,250	4,715	8,238	7,625	2,330	40,696	9,115	16,840	31,810				4,543	125,618	
	Forecast			705	470	470	235	-	353	430	430	1,450	4,250	4,715	8,238	7,625	2,330	40,696	9,115	16,840	31,810	5,192	6,000	6,000	4,543	142,810	
Task 3 Phosphorus Discharge and Optimization	Planned	536	3,756	4,694	7,073	26,718	5,977	4,881	4,879	6,099	4,877	4,879	6,748	5,656	5,213	5,665	4,536	4,531	5,665	4,533	4,531	5,668	4,533	4,531	74,369	55,062	
	Actuals		1,290	3,755	3,508	1,613	235	4,645	8,731	8,100	10,948	3,898	4,760	6,665	1,045	-	-	-	-	-	-	-	-	-	-	46,721	12,470
	Forecast		1,290	3,755	3,508	1,613	235	4,645	8,731	8,100	10,948	3,898	4,760	6,665	1,045	-	-	-	-	-	-	-	-	-	-	46,721	12,470
Task 4 Watershed Support Services	Planned	6,790	61,631	12,107	4,040	193,891	22,817	18,255	18,250	22,817	18,253	18,251	5,383	4,569	4,567	3,760	29,712	29,705	30,850	29,712	29,705	30,850	29,709	29,707	397,102	258,229	
	Actuals	940	14,809	17,206	28,841	21,065	45,297	54,170	36,587	44,435	12,003	34,319	16,395	4,931	31,212	1,260	42,718	29,505	13,980	21,228	9,026				309,674	170,255	
	Forecast	940	14,809	17,206	28,841	21,065	45,297	54,170	36,587	44,435	12,003	34,319	16,395	4,931	31,212	1,260	42,718	29,505	13,980	21,228	9,026	30,850	29,709	29,707	309,674	260,521	
Task 5 Comprehensive WRRF Upgrade Plan	Planned	-	9,206	122,984	89,447	32,035	35,466	-	-	-	-	-	62,344	52,898	52,900	66,121	52,900	52,898	66,124	52,898	52,898	66,124	52,898	52,898	289,138	621,557	
	Actuals	7,879	42,534	53,745	16,778	36,223	74,878	81,756	59,461	42,065	47,294	28,643	60,035	67,250	65,345	116,523	71,274	49,148	67,288	59,559	44,920				491,254	601,339	
	Forecast	7,879	42,534	53,745	16,778	36,223	74,878	81,756	59,461	42,065	47,294	28,643	60,035	67,250	65,345	116,523	71,274	49,148	67,288	59,559	44,920	44,688	25,000	25,000	491,254	606,927	
Task 6 Feasibility Study	Planned	-	-	-	-	-	-	-	-	-	-	-	-	-	3,670	3,670	4,590	3,670	3,670	4,590	3,670	3,670	3,670	3,670	4,590	3,670	43,130
	Actuals														775	1,128	-	-	-	1,120	1,648					4,670	
	Forecast														775	1,128	-	-	-	1,120	1,648	4,590	3,670	3,670			16,600
Task 7 Pilot and Demonstration Testing	Planned	-	-	-	-	213,988	164,168	37,728	37,728	49,107	43,331	43,331	105,773	91,229	101,474	54,736	43,787	43,787	54,736	43,785	43,785	54,736	43,785	43,787	589,381	725,408	
	Actuals				1,710	380	950	760	2,745	20,178	14,935	32,914	61,078	86,010	23,695	7,748	4,195	7,885	27,408	12,260	24,345				74,572	254,623	
	Forecast				1,710	380	950	760	2,745	20,178	14,935	32,914	61,078	86,010	23,695	7,748	4,195	7,885	27,408	12,260	24,345	30,000	25,000	25,000	74,572	334,623	
Cumulative		2022.02	2022.03	2022.04	2022.05	2022.06	2022.07	2022.08	2022.09	2022.10	2022.11	2022.12	2023.01	2023.02	2023.03	2023.04	2023.05	2023.06	2023.07	2023.08	2023.09	2023.10	2023.11	2023.12	2022 Total	2023 Total	
	Planned	-	13,683	122,042	359,561	527,897	1,025,373	1,309,590	1,410,238	1,496,457	1,606,182	1,698,004	1,789,824	1,994,449	2,169,482	2,354,321	2,584,516	2,765,735	2,937,147	3,125,742	3,252,214	3,378,675	3,536,765	3,663,237	3,789,702	1,789,824	3,789,702
	Actuals	-	16,724	77,554	155,549	210,157	272,023	397,378	543,057	656,036	774,417	869,094	974,636	1,130,448	1,309,502	1,461,748	1,617,378	1,756,295	1,898,804	2,035,971	2,152,845	2,269,471				974,636	1,294,835
	Forecast	-	16,724	77,554	155,549	210,157	272,023	397,378	543,057	656,036	774,417	869,094	974,636	1,130,448	1,309,502	1,461,748	1,617,378	1,756,295	1,898,804	2,035,971	2,152,845	2,269,471	2,391,791	2,488,170	2,584,547	974,636	2,584,547

