Director of Compliance and Innovation Report

February 21, 2024

Plant Loading, CSO Report, and Director's Notes

Plant Influent Report:

Biochemical Oxygen Demand, 5-Day (Avg. 42727 lbs/day) Total Suspended Solids (Avg. 60383 lbs/day) Average Daily Flow (42.34 million gallons/day) Maximum Daily Flow (73.18 million gallons/day) 67 percent of design 56 percent of design 103 percent of design 59 percent of design

Plant Influent Total Monthly Flow (million gallons) for January Estimated Unbilled Total Monthly Flow (million gallons) Total Monthly Precipitation (inches)

960.61 252.08 2.92

Plant Effluent Report:

<u>Parameter</u>	Report Frequency	<u>Permit</u>	<u>Reported</u>	<u>Violations</u>
		<u>Limits</u>	<u>Values</u>	
CBOD₅, mg/L	Mo./Wk. Avg	20/40	2/4	0
TSS, mg/L	Mo./Wk. Avg	25/45	6/12	0
NH ₃ -N, mg/L	Mo. Avg/Daily Max	1.5/3.0	0.25/0.89	0
DO, mg/L	Mo. Avg/Wk. Avg/Daily Min	6.0/4.5/4.0	8.68/8.50/8.28	0
pH, S.U.	Daily Min/Max	6.0/9.0	7.80/8.18	0
Total Nickel, mg/L	Mo. Avg	0.0381	0.013	0
Cl ₂ Residual, mg/L	Daily Max	0.05	NA	NA
Fecal Coliform	Daily Max	400	NA	NA
CFU/100mL				

CSO Report:

Location	Events	Est. Total Duration of Discharges (hrs.)	Discharge (million gallons)
Oakland Avenue (Outfall 003)	4	39.97	8.306
Lincoln Park (Outfall 004)	0	0	0
McKinley Avenue (Outfall 007)	3	25.1	8.49
Seventh Ward (Outfall 008)	3	21.8	5.584

Director's Notes:

ICP-OES Proposal (RFP):

A request for proposals for an Inductively Coupled Plasma – Optical Emission Spectrometer (ICP-OES) unit was posted on the District's website on January 15, 2024. All the proposals except one were opened on February 7, 2024. The last proposal was opened on February 13, 2024 due to a delivery error by FedEx after verification with legal counsel that the District could open the proposal.

A motion for the acceptance of the following proposal will be presented to the Board during this month's Board meeting.

Chemical, Fuel and Polymer Bids:

Bid requests for plant chemicals, fuel and polymer have been sent out for 28% Liquid Urea-Ammonium Nitrate (UAN), Sodium Hypochlorite, Ferrous Chloride, Sodium Bisulfite, Gasoline, Diesel, and Waste Activated Sludge Flocculant (Polymer). Bids will allow the District to ensure that the best rate is obtained. Bids will be publicly opened and read aloud on April 3, 2024.

Compliance Reporting:

In accordance with the requirements of our facility the District submitted a Tier II report and annual 503 sludge report.

Staff Training Activities:

Brent Deardorff and Brandi Rosenberger attended the Central Illinois Professional Wastewater Operators (CIPWO) winter meeting at Hudson Farms in Urbana on January 31, 2024. The meeting included presentations about PFOS/PFAS sampling and testing by Teklab Inc. and improvements Clark Dietz made to the St. Joseph IL wastewater facility.

Pretreatment USEPA Inspection:

The USEPA Chicago Office contacted Austin Gruber on February 2, 2024 to notify him that they would be at the District from March 11th-14th to perform a pretreatment compliance inspection. The inspection will be a review of certain aspects of the pretreatment program and its implementation.

Operations, Laboratory, and Pretreatment Activity Reports – January/February 2024

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 as soon as possible.
- 2) Digester #3- Jarvis repaired the fire tube and box. Operators will put back online asap. We are still waiting for the parts for the mixer.
- 3) Operations staff have been assisting with the ongoing issues with the Frac tank.
- 4) Operations staff continue to actively address PMs as time, workload, and staff levels allow.
- 5) Operations staff continue to assist contractors regarding Grit system replacement.
- 6) Operators are preparing to dewater #5 Primary Clarifier for replacement.

Laboratory Activities:

Routine:

A total of 2,271 analyses were performed in the laboratory during the month of January 2024.

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 January 2024 for the "COVID-19 in Wastewater" study funded by the Illinois Department of Public Health. A Zoom call was held on January 12, 2024, with the study participants and the researchers to discuss the results of the study thus far. Elevated levels of COVID and RSV were observed in the samples collected in January.
- 2) The quarterly sampling of the groundwater monitoring wells was conducted at the South Sludge Lagoons and Wyckles Lagoons during the second week of January 2024.
- 3) Keith Richard was a panelist for an IWEA Lunch and Learn webinar on January 24, 2024. The topic of the webinar was PFAS sampling at POTW's. Keith joined panelists from MWRD and Fox Metro WRD to discuss the challenges of sampling for PFAS at POTW's. The webinar was attended by over fifty wastewater professionals.
- 4) Keith Richard virtually attended the Nutrient Loss Reduction Strategy (NLRS) Annual Partnership Conference on January 25, 2024. The conference was hosted by the Illinois EPA with the purpose of updating the attendees on the current state of the NLRS and highlighting the successes of the past year.
- 5) The SDD laboratory analyzed twenty-seven stormwater samples during January 2024 for the Lake Decatur Watershed monitoring study. This was considerably more samples than in previous months due to the six inches of rainfall during the month. The SDD is providing in-kind laboratory analysis of samples collected at the study's three monitoring sites after significant storm events.
- 6) An application was submitted on behalf of the District for a NACWA Peak Performance Award for the calendar year 2023. The Peak Performance Awards recognize POTW's for excellent compliance with their NPDES discharge permits. The District qualifies for a Silver Award since we had only one violation of our NPDES permit discharge limits during the 2023 calendar year. The 2023 Peak Performance Award winners will be announced later this year.

Pretreatment Activities:

Pretreatment - General Activities:

- 1) Pretreatment personnel monitored eleven commercial and industrial users (IU) during January 2024. There were no industry site inspections that took place in January.
- 2) There were no wastehauler permits issued in the month of January.
- 3) **Primient** continued to operate under their revised penalty structure. They had a total of 26 violations in the month of January, so the consecutive three month count to revert to the previous structure has been reset. Following successful completion of the consecutive 3-month period, their penalty structure will revert back to the structure set in EO 18-003.

Pretreatment Ordinance - Verbal Notices:

Special Note: 1/12/2024-1/31/2024 – **Primient** has been in violation of their BOD daily max, BOD 10-Day Moving Average, TSS daily max, and flow limits during the month of January for a total of 26 violations in the month of January. Currently, **Primient** is still in violation of their BOD 10-day moving average as of 2/1/2024. Once violations cease there will be higher level enforcement assigned.

The SDD issued a total of 5 Verbal Notices to **Bulkmatic** and **ADM** in January 2024:

- 1. 1/3/2024 **ADM** was issued a verbal notice and \$1,000 fine for violating their FOG limit from the West Plant, as well as discharging FOG to the Lakeshore Pump Station. A 5-Day and 15-Day response was submitted but was not adequate. A meeting has been scheduled for with West Plant personnel on 2/13/2024 to discuss the next steps.
- 2. 1/16/2024 **ADM** was issued a verbal notice, a \$1,000 fine, and a \$2,000 dumpster fee for discharging excess corn germ to the district due to a plugged cyclone at the East complex. The Dumpster fee was calculated at an average of \$800 per dumpster for 2.5 dumpsters filled. A 5-Day response was submitted and was adequate.
- **3.** 1/20/2024 **ADM** was issued a verbal notice and \$1,000 fine for discharging water with a pH lower than 6 for more than 45 minutes from the East complex. A 5-Day response was submitted and was adequate.
- **4.** 1/28/2024 **ADM** was issued a verbal notice and \$1,000 fine for discharging BOD above their permitted limit, the majority of which coming from the West complex. A 5-Day response was submitted and was adequate.
- **5.** 1/30/2024 **Bulkmatic** was issued a verbal notice with no fine for discharging BOD above their permitted limit. No response is expected.

Pretreatment Ordinance - Warning Notices (WN):

No Warning Notices were issued during January 2024.

Pretreatment Ordinance - Notices of Violation (NOV):

No Notices of Violation were issued during January 2024.

Pretreatment Ordinance - Executive Orders:

No Executive Orders were issued during January 2024.

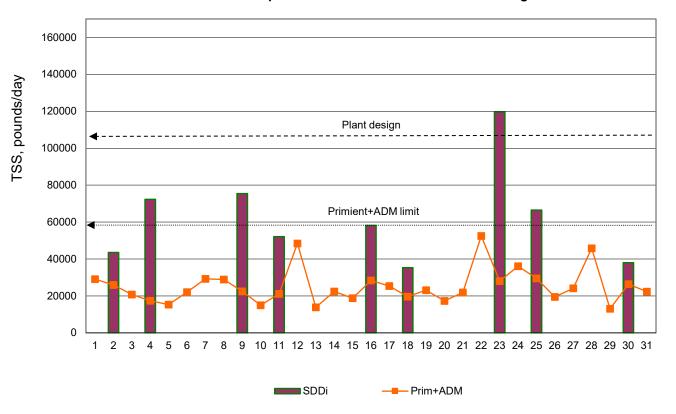
Pretreatment Ordinance - Penalty Assessments:

The following industrial penalties were assessed for January 2024:

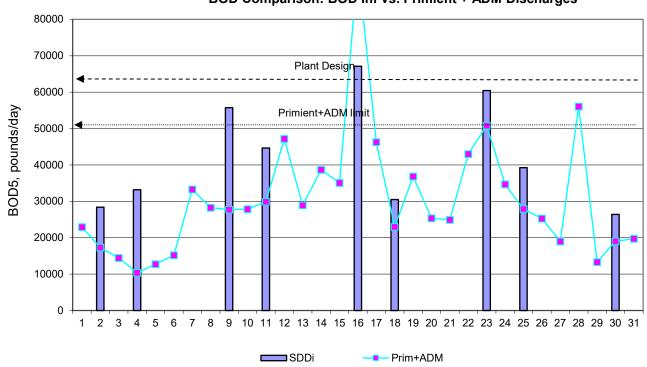
1) Primient \$483,500 2) ADM \$4,000

Plant Operating Graphs:

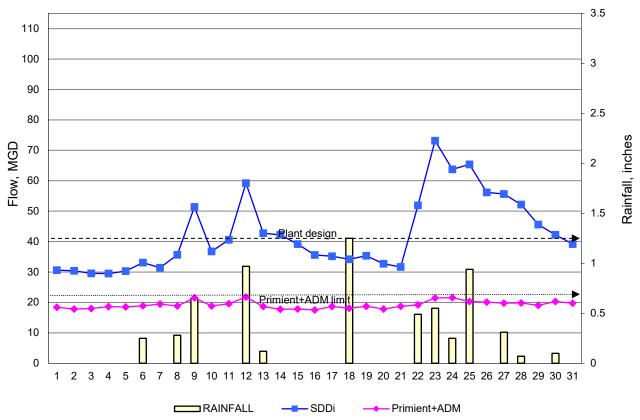
TSS Comparison: SDD Inf Primient+ADM Discharges



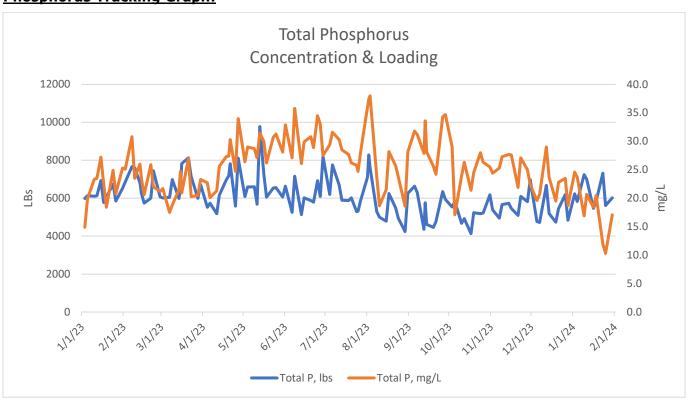






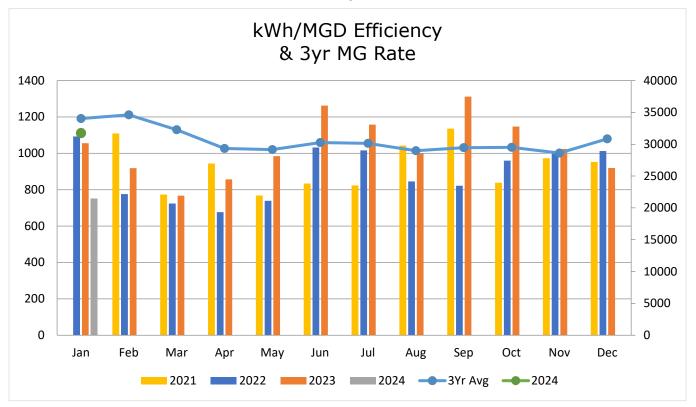


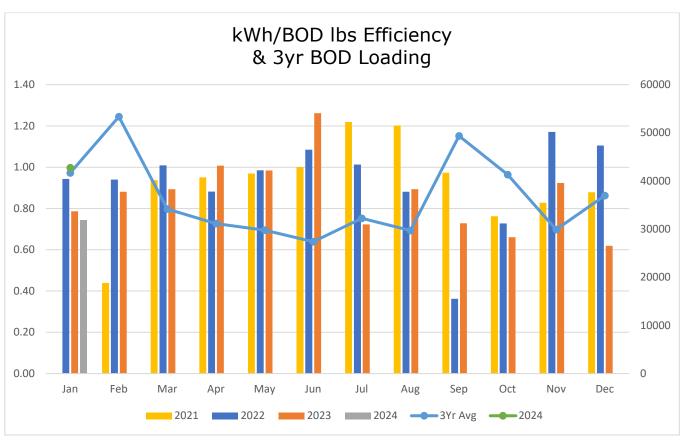
Phosphorus Tracking Graph:



Plant Efficiency Graphs:

January 2024





Sanitary District of Decatur Bid Tabulation Results from 02/07/2024 (Pending Approval)

Attached (see below) are the bid tabulations from 02/07/24, please note that no submitted bids are accepted until the District's Board of Trustees have voted to approve them. These are just the results of the bids opened that day. Please feel free to check the District's website for additional information. www.sddcleanwater.org

2024 ICP-OES Bid Tabulation

Bid Opening Date	02/07/24
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Bidder	Price	Service Plan
Perkin Elmer	\$80,220.04	2024 - \$0 2025 - \$0 2026 - \$11,080.32
Agilent Techologies	\$55,777.48	2024 - \$2,900.00 2025 - \$7,056.00 2026 - \$7,056.00
Thermo Electron	Not received by	10 am deadline *
*Note- The proposal was opened at 7:20 AM of \$83,691.68 with annual consumables cost of \$2026 service plan is \$10,999.00. The proposal error.	1,300.00 for 2024, \$0	for 2025 and the
KR 2/1	3/24	
NOTE: "No Bid" submissions are not included in the tabulation sheet.		

Sanitary District of Decatur Nutrient Program Management Report

February 12, 2024

During the period November 25, 2023 through January 19, 2024 District personnel attended meetings with members of the Black & Veatch Team to affect progress in nutrient reduction planning and activities.

The District has provided plant performance data to B&V for inclusion in the Power BI dashboards. Additionally, the District has continued to construct the Fermentation Pilot to gather performance data on the proposed biological phosphorus removal process.

B&V has continued the development of their full facility model, continued to develop aged infrastructure evaluation, and evaluation of alternatives for upgrades to the Water Resource Recovery Facility. In addition, B&V continued to assistance with construction phase services of the Fermentation Pilot 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 November 25, 2023 through January 19, 2024

<u>Subject</u>	<u>Date</u>	<u>Agenda Items</u>
Nutrient Program Management Bi-weekly Meetings	12/06/2023, 12/20/23, 01/03/24 and 01/17/24	Objective: Provided Status Update on Program Tasks Frac Tank Pilot Power BI Pretreatment Program Update PDOP/Annual Progress Report Watershed Services Aging Infrastructure WRRF Upgrade Plan
Fermentation Reactor Pilot Construction Progress Meeting	12/05/2023 and 01/09/2024	Submittal Status Status of Owner Supplied Equipment Request for Information Work Change Directive / Change Orders Pay Applications Construction Schedule/Activities Additional Questions / Discussion Next Meeting
Fermentation Reactor Pilot Sequence of Operations Review meeting	01/11/2024	Objective: Review detailed sequence of operation with B&V and Farnsworth, who is providing programming services.
Fermentation Reactor Pilot Research Plan meeting	11/14/2023	Objective: Review and Discuss the draft Research Plan for the Fermentation Reactor Pilot

Sanitary District of Decatur Watershed Management Report

February 12, 2024

During the period November 25, 2023 through January 19, 2024 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 applying the calibrated instream model to evaluation management scenarios to address impairments in the Sangamon River. This period focused on the review of the results of the alternative scenarios while receiving District feedback.

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 November 25, 2023 through January 19, 2024

Subject	<u>Date</u>	<u>Agenda Items</u>
Instream Model Scenario Discussions	12/13/2023	Objective: Geosyntec presented/reviewed
		the initial results of the baseline and
	01/10/2024	alternative scenarios of the Instream
	, -,	Model and discussed baseline scenarios.



February 13, 2024

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 25, 2023, through January 19, 2024)

Dear Mr. Miller:

This letter summarizes the work associated to the SDD Nutrient Program Management project for services from November 25, 2023, through January 19, 2024.

- 1. Program Management, Administration, and Coordination
 - Conducted bi-weekly program conference calls to update progress and discuss key issues.
 - Provided Monthly Project Update.
 - 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
 - Completed final draft of Industrial Pretreatment Program Update report
- 3. Phosphorus Discharge and Optimization Plan (PDOP)
 - No Services were completed this period.
- 4. Watershed Support Services
 - Conducted bi-weekly progress update meeting.
 - Geosyntec presented/reviewed the results of the final scenarios.
 - Continued initial planning efforts for the Watershed Group formation development.
- 5. WRRF Upgrade Plan
 - Aged Infrastructure Evaluation
 - i. Cost estimating for rehabilitation and replacement of infrastructure.
 - ii. Completed final draft TM 5b Aged 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.

- ii. Continued development of upgrades needed for each unit process to meet nutrient limits including multiple plant loading scenarios which will be considered to identify improvement costs for ADM and Primient.
- 6. Capital Improvement Plan Development
 - Alternative Funding
 - i. Reviewed opportunities for alternative funding for the Nutrient Program
 - ii. Prepared for and conducted a kickoff meeting for the Alternative Funding
- 7. Pilot and Demonstration Testing
 - Prepared for and conducted the Construction Progress Meeting with Burdick (Contractor).
 - Prepared draft Pilot Testing Research Plan
 - Prepared for and conducted Pilot Testing Research Plan review meeting with SDD

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

Bently Green, P.E. Vice President, Black & Veatch

Enclosure(s): SDD Nutrient Program Manager Schedule and Anticipated Cost Forecast

SANITARY DISTRICT OF DECATUR - NUTRIENT PROGRAM MANAGEMENT 2022 - 2024 COST FORECAST BV Project Number: 411602

Incremental		2022.02	2022.03	2022.04	2022.05	2022.06	2022.07	2022.00	2022.09	2022.10	2022.11	2022.12	2023.01	2023.02	2023.03	2023.04	2023.06	2023.06	2023.07	2023.00	2023.00	2023.10	2023.11	2023.12	2024.01	2024.02	2024.03	2024.04	2024.05	2024.06	2024.07	2024.00	2024.09	2024.10	2024.11	2024.12	922 Total 21	23 Total 2	124 Total
		13,683		201 (0.10	168,336	401,1110	201/211	100,548	85,219	109,725	91,822	91,820	204,625	175,033	184,839	230,195	181,219		188,595		126,461	158,090	126,472		77,238	65,537	65,537	81,916	65,539	65,537	81,920	65,532	65,537	81,918	65,532		1,789,824		
	Actuals					61,865	125,355	145,679	112,979	118,381	94,677	105,543										136,508	141,045		181,479			_									974,636		
	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	116,845	136,508	141,045	-	181,479	65,310	71,310	77,383	65,311	103,268	105,355	93,278	100,270	105,353	93,278	107,173	974,636	,572,606	1,168,768
	Plamed	4.631	18.580	25 171	20.169	20.164	25213	20.168	20 170	25.211	20169	20.167	20.050	17.010	17014	21.263	17.010	17.012	21.267	17.010	17.012	21.263	17.012	17.012	20.303	17 228	17.228	21.532	17.228	17 228	21.535	17 226	17 226	21.698	17.226	10.680	219.822		
Task 1 Program Mont	Actuals	7,905		25,171	20,109	20,164	25,213	4345	20,170	25,211	20,109	4320	9.795	17,010	17,014	21,253	18,400	17,012	19.376	5.865	17,012	21,263	9.720		10.453	17,228	17,220	21,532	17,228	17,220	21,535	17,226	17,220	21,535	17,220		47,875		225,100
last i Programmyrs	Forecast		2,198	2,585	3,303	2,115	3,760	4348	5103	3,173	9,058			8 708	21,565	22,475		15,276	19,376		5 103	7.355	9,720		10,453	11 000	17.000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000		47,875		101.453
	T OF BUILDING	1,000	8,188	2,000	4,040	2,110	2,100	4,0 40	0,100	9,119	*,000	4,040	4,650	0,700	21,000	88,410	10,100	10,610	10,010	4,000	0,100	1,000	47.44		14/100	11,000	11 (0000	11,000	11 (000	11,000	,000	11 (000	11,000	11 (000	11/000	,000	41,010	140,100	101/100
	Planned	1.726	15.177	42.250	17.294	10.680	30.576	19.616	5.192	6.491	5.192	5.192								-		-		-				-		-				-			159.385		-
Task 2 Pretreatment Program Update	Actuals			705	470	470	235		353	430	430	1,450	4,250	4,715	8,238	7,625	2,330	40,596	9,115	16,840	31,810	3,618	1,150		3,395												4,543		\neg
Opdate	Forecast			705	470	470	235		353	430	430	1,450	4,250	4,715	8,238	7,625	2,330	40,596	9,115	16,840	31,810	3,618	1,150	-	3,395	6,000	6,000										4,543	130,386	15,395
Tank 3 Phosphorus Discharge	Planned	536	3,756	4,694	7,073	26,718	5,977	4,881	4,879	6,039	4,877	4,679	6,748	5,656	5,213	5,665	4,536	4,531	5,665	4,533	4,531	5,668	4,533	4,531				\neg									74,369		-
and Optimization	Actuals		1290	3 755	3 508	1613	235	4 6 4 5	8731	8100		3 898	4 760	6 665					_		$\overline{}$	-						$\overline{}$		$\overline{}$				$\overline{}$	$\overline{}$		46 721		
	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	-
	I francis	6,790	61.631							*****			5.383					*****							7.597				6.443			6.446	6.446		6.446		397,102		*****
Task 4 Watershed Support	Planned Actuals	940	14,809	17,206	28,841	21,065	45.297	54,170	36,587	44.435	12,003	34319	16,395	4,931	31,212	1,260	42.718	29,505	13,980	21,228	9,006	20,784	29,709	29,707	17,943	0,440	6,446	0,059	0,443	0,440	0,039	0,440	0,440	8,002	0,440	7,309	309.674		84,257
Services	Forecast		14,809		28,841				30,507	44,435	12,003				31,212		42,718			21,228		20,764			17,943	6.446	6,446	8.050	6.443	6.448	8,059	6.446	5.445	8.052	6.446	7.960	309,674		04 603
	ru sussi	-	17,000	11,200	20,041	21,000	10,001	34,110	30,001	44,400	12,000	34,318	10,000	4,801	21,212	1,200	44,710	20,000	14,000	21,220	8,000	20,100	21,004	-	11,000	0,440	0,440	0,000	0,463	0,440	0,038	0,440	0,440	9,000	0,440	1,000	300,014	210,010	81,000
	Parned		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	31.626	26,635	26.835	33.541	26,835	26,633	33,541	26,633	26,835	33.546	26,833	30.666	289,138	621,557	350,759
Task 5 Comprehensive WRRF Upgrade Plan	Actuals	7.879	42.534	53,745	16,778	36,223	74,678	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	44,179	76,856	87,793		124,858												491,254	765,247	
Opgrade Fall	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	44,179	76,856	87,793	-	124,858	26,835	26,835	33,541	26,835	26,833	33,541	26,533	26,835	33,546	26,833	30,666	491,254	765,247	443,991
																																					-		_
	Planned	-		-	-	-	-		-		-		-	3,670	3,670	4,590	3,670	3,570	4,590	3,670	3,670	4,590	3,670	3,670	4,278	3,632	3,632	4,536	3,634	3,630	4,538	3,632	3,630	4,538	3,632	4,149	-	43,130	47,461
Task 6 Feasibility Study	Actuals				_		_					_	_	775	1,128	-	-			1,120	1,548	-	-		1,395	_	_	_	_	$\overline{}$			_	_	_	_	-	4,670	
	Forecast				-	-	-		-		-		-	775	1,128					1,120	1,648	-		-	1,395	3,632	3,632	4,536	3,634	3,630	4,538	3,632	3,630	4,538	3,632	4,149	-	4,670	44,578
	Planned		_			212.000		97.704		40.107	43.331	43.331	105.773	91.229	101.474	54.736	43.787	43.787	54.736	43.789	43.785	54.736	43.789	40.707	13.434	11.397	11.307	14247	11.399	11.300	14247	11.397	11,300	14247		13.027	589.381	206 406	148,987
Task 7 Plot and Demonstration	Actuals	-	-	-	1710	213,900	104,100	760	37,720	20,107	43,331	32.014	61 078	86,010	23,606	7.748	43,/07	7.888	27,408	43,709	25,760	27,896	14,000	40,707	23,436	11,397	11,397	14,247	11,399	11,399	14,247	11,397	11,399	19,297	11,397	13,027		298.061	140,907
Testing	Forecast	_	$\overline{}$	_	1.710	380	950	760	2.745	20,178	14,935	32,914	61,078	86,010	23,696	7.748	4.195	7,885	27,408	12.260	25,080	27.895	14,808	-	23,436	11.307	11.307	14247	11.300	11.300	14247	11.307	11.300	14247	11.397	13.027	74.572		158.988
						-	-									1,000	-	1,000		-					-				,	,						-			
	Planned			-	-	-	-		-	-	-	-		-	\neg	-	\neg	-	$\overline{}$	$\overline{}$	\neg	$\overline{}$	\neg		-			\neg	$\overline{}$	37,958	27,970	27,970	34,960	27,970	27,970	34.962	-	-	219,760
Task 5 Conceptual Design Dev_DO Support	Actuals																													. ,									
Ser_SO support	Forecast																								-			-		37,958	27,970	27,970	34,960	27,970	27,970	34,962			219,760
Cumulative		2022.02	2022.03	2022.04	2022.06	2022.06	2022.07	2022.00	2022.09	2022.10	2022.11	2022.12	2023.01	2023.02	2023.03	2023.04	2023.06	2023.06	2023.07	2023.00	2023.00	2023.10	2023.11	2023.12	2024.01	2024.02	2024.03	2024.04	2024.06	2024.06	2024.07	2024.00	2024.09	2024.10	2024.11		022 Total 21		
Planned	-	13,683	122,042			1,025,373	1,309,590	1,410,238	1,496,457	1,606,182	1,696,004	1,789,824	1,994,449		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	3,866,940	3,932,477	3,998,014	4,079,930	4,145,469	4,211,006	4,292,926	4,358,458	4,423,995	4,505,913	4,571,445		1,789,824		4,651,926
Actuals	-	16 724				272 023		543 057		774-417			1 130 448				756 295	1 898 804	2 035 971	2152845		2 406 197		2 547 242				_									974 636		
Forecast	1 1	16,724	77.554	155,549	210,157	272,023	397,378	543,057	856,036	774,417	869,094	974,636	1,130,448	1,309,502	1,461,748	1,617,378	.756,295	1,898,804	2.035.971	2,152,845	2,269,689	2,405,197	2.547,242	2,547,242	2,728,722	2,794,032	2,865,342	2.942,725	3,008,036	3,111,304	3,216,659	3,309,937	3,410,207	3,515,560	3,606,838	3,716,011	974.636	547,242	3,716,011

