

AGENDA

KANKAKEE RIVER METROPOLITAN AGENCY MEETING

Thursday, November 18, 2021

9:00 AM in KRMA Board Room

1600 Brookmont Blvd., Kankakee, IL 60901

I. Roll Call

II. Public Comment

III. Approval of Board Minutes

A. October 28, 2021 – Regular Board Meeting

IV. Reports

- A. Operations & Maintenance Report
 - 1. Monthly Report (MOR)
- B. Executive Director Report
 - 1. Water, Gas & Electric Use/Cost
 - 2. Hauled in Waste Summary
 - 3. Operations Report
- C. Financial Report
 - 1. Reports
 - 2. Hauled in Waste Report
 - 3. Flows Graphs
- D. Communications

V. Old Business

- A. Blowers Update
- B. Republic Services Update – Leachate Treatment Agreement with landfills
- C. CSL Update
- D. NARP Update
- E. Bradley Property
- F. Each Municipal to discuss on CMOM Status

VI. New Business

- A. Cash Collateral Issue
- B. Motion to Terminate and give Notice to Robinson Engineering for Executive Director Contract
- C. Cyber Insurance
- D. Local #399 Insurance Increase
- E. Internal Control Presentation

VII. Executive Session

- A. Personnel & Probable or Imminent Litigation

VIII. Next Meeting

Thursday, December 16, 2021 (9:00 AM in KRMA Boardroom)

KANKAKEE RIVER METROPOLITAN AGENCY
MINUTES
October 28, 2021 – 9:00 A.M
1600 W Brookmont Blvd.

In attendance:

Board of Directors:

Mayor Christopher Curtis, City of Kankakee
Mayor Paul Schore, Village of Bourbonnais
Financial Director Robert Romo, Village of Bradley
Alderman Larry Osenga, City of Kankakee
Steven Hunter, Representative, City of Kankakee
David Crawford, Alternate, City of Kankakee

Administration:

Dave Tyson, KRMA Executive Director
Karen Benson, Smith, Koelling, Dykstra & Ohm, P.C.

Attorney:

Neal Smith, Robbins Schwartz

KRMA Staff:

Arthur Strother, Superintendent
Dustin Scheppler, Asst. Superintendent, Operations
Melanie Gossett, Asst. Superintendent, Technical Services

Other:

Dan Small, Strand Associates
Terry Memenga, Alternate, Village of Bradley
Steven Zehner, Robinson Engineering
Sara McKenna, WIPFLI
Daniel Giordano, WIPFLI

Chairman, Mayor Curtis called the meeting to order

I. **Roll Call**

All board member present except for Dir Brian Stump, Village of Aroma Park, Dir Robert Romo, Village of Bradley and Dir Danita Swanson. Alternate Terry Memenga, Village of Bradley, sitting in for Dir Romo for deciding vote, and Alternate David Crawford, City of Kankakee, sitting in for Dir Danita Swanson for deciding vote.

II. **Public Comment**

None

III. **Approval of Board Minutes September 23, 2021 – Regular Board Meeting**

Motion to approve the September 23, 2021, Regular Board Meeting minutes was made by: Dir. Hunter and seconded by Vice Chairman Schore. All board members and alternates Terry Memenga and David Crawford present voted in favor and Dir Brian Stump, Dir Robert Romo, and Dir Danita Swanson absent. Motion Carries.

Chairman, Mayor Curtis stated with consent of the Board, we have WIPFLI Auditors via gotomeeting.com to give a presentation and answer any questions concerning our Audit and would like to conduct Audit Presentation from New Business first.

VI. **New Business**

C. **Audit Presentation**

Karen introduces Auditors Sara McKenna and Daniel Giordano with WIPFLI.

Dir Romo joins the meeting

Sara offers awareness by given brief information by page numbers. Sara stated page 1 and 2 on the Independent Auditor's Reports shows a clean and unmodified auditors' opinion. On the Management's Discussion and Analysis, it shows a three-year comparison on KRMA's financial status for review. Sara brief synopsis on pages 10-13. On pages 14-17 she express concern about the custodial credit risk-deposit. Karen informed Sara that they are working with the bank regarding her concern and that she will be proposing action next month. Sara skipped to page 27: Note 11: Subsequent Events. Lastly, she discussed some accounting standard: GASB Statement No. 87 and 96. Sara stated there was **no findings** within the audit this year. Motion to approve the Audit Report was made by Dir Hunter and seconded by Dir Osenga. All board members and alternates David Crawford present voted in favor and Dir Brian Stump and Dir Danita Swanson absent. Motion Carries.

IV. Reports

A. Operations & Maintenance Report

Monthly Report

Art mention KRMA came in 2nd at the Scarecrow Hollow. Melanie state participating was fun, and she had help from some of the O&M Specialist. She also stated that participating in community events like this, shows a fun and positive light of KRMA. Art also discuss the Biobot covid monitoring, it starts November 8, 2021, and runs for a year. Dir Romo asked how is it tested? Melanie responded, we use a portion of the sampling that is already collected from the influent (what's coming into the plant) and send it to their laboratory for testing. Then they trend it with those clinical cases. Chairman Curtis asked, are the using the clinical cases from our county health department? Melanie replied yes and its County wide. Art stated the meeting with CSL went well. They have not addressed the ammonia yet, however the neutralization is running. Art also stated that from October 2021 through May 1, 2022, KRMA will not be purchasing any chlorine due to the cold weather. However, KRMA did pay the higher price of chlorine for the las two months. The increased price of chlorine. Moving forward there will be language placed in our contracts regarding inflation cost. Art informed the board he was contact by Charles Bhushan with CISA (Certified Information System Auditor). They handle cyber infrastructure security. They investigate our system to see if would be subjected to cyber-attacks. He wants to come to see if KRMA would be a target for cyber-attack. Dir Hunter asked is cyber-attack covered in our insurance.? Chairman asked to KRMA have cyber insurance? Art informed the board for him to come out and check will be no cost. Chairman Curtis on board since the cost is zero just to investigate. Dir Hunter asked if he could come and present a presentation. Chairman Curtis asked Dave to look into cyber insurance for KRMA.

B. Executive Director Report

1. Water, Gas & Electric Use/Cost

Exec. Dir. Dave Tyson presented the monthly utility usage sheet. He stated it's up to date. We received all the usage from the Hydro plant. We have a new water meter; therefore, we should start getting actual reading from Aqua instead of estimations. They have been estimating us higher than our normal usage, so we should be getting an adjustment next month. Everything else looks good for this time of year.

2. Hauled In Waste Summary

Exec. Dir. Tyson stated hauled in waste was a little lower than last month, however it still looking and is above target projected for the year.

3. Operations Report

Exec Dir Dave Tyson acknowledge Melanie and the Operators for the participation of Scarecrow Hollow event. He stated he is contacting IMRF; the O&M Operators union requested to go back IMRF. All cost will have to be on the operators and union if they are eligible. There was discussion regarding if KRMA is eligible to go back to IMRF. Dave informed the board KRMA received a violation letter from IEPA in September 2021 questioning violation we had back in February and March of 2021 regarding the ammonia. There has been correspondence back and forth and IEPA has accepted and approved our plan of correction as of September 30, 2021. Exec Dir Tyson ask Dan Small, with Strand Associate, to conduct his presentation on capacity analysis.

Dan Small presented his presentation on capacity analysis. Chairman Curtis and Vice Chairman Schore had question concerning the Village of Bourbonnais loading numbers? Dan Smalls replied there was a significant increase from lot of the development with the new intersections, however, he will review to make sure. Dir Osenga asked how do you come up with the 15% reserve? Dan Small replied if you take the existing plus new subtotal times 15%. Chairman Curtis asked is any of the projects regarding the Kankakee

Valley Airport within these number? Exec Dir Tyson replied, no, that information was not submitted. Chairman Curtis state the Kankakee Valley Airport is looking at a major expansion, therefore, that needs to be added to the capacity analysis and they need to come in and correlate the specific with KRMA. Vice Chairman Schore asked, are we going to gain capacity to the plant? Dan replied, it's community specifics on what type of reserve you want try to maintain. Dir Hunter asked was there any residential projection reflected in the capacity analysis? Chairman Curtis and Vice Chairman Schore stated that the projections were mostly industrial. Dan stated he will give all the municipalities to revisit the numbers, however, this is time sensitive. Dan also stated that the use of Village of Bradley property will be critical to KRMA expansion. Dir Hunter asked, what the status on buying the Bradley property? Chairman Curtis replied, we will meet with Mayor Watson from Village of Bradley and Dir Romo about the Bradley Property. Exec Dir Tyson stated we need to have CMOM reports complete by April of 2022 for the NPDES Permit. He also stated he still in need of Alternate letters from Village of Bradley and Aroma Park.

C. **Financial Report**

1. **Reports**

Karen Benson presented the financial statements, stating the statement of net position is showing a strong cash balance due to hauled in waste. Chairman Curtis asked, will there be recommendation by next board meeting regarding the excessive revenue? Karen replied yes. Statement revenue/expenses, Karen stated hauled is waste is a little lower than last year. All the expenses are close to budget. Change of net income was little over three hundred thousand and however, it was budgeted at two and a quarter.

2. **Hauled In Waste Report**

There was a discussion regarding the difference between 2021 and 2020 revenue and how it was projected.

3. **Flows Graphs**

Karen Benson presented the year-to-date flow graphs for review.

D. **Communications**

None

V. **Old Business**

A. **Blowers Update**

Dan informed them that Atlas Copco is waiting on a cable that is needed to complete the final toning so KRMA can benefit from the extra energy savings. Exec Dir Tyson asked, have they started they two weeks test period? Dan replied, no. They need to do the control updates and be in auto mode to verify everything is good. Exec Dir Tyson stated after Atlas Copco complete their testing, KRMA has a two-week test period, then they come recalibrate the blowers base off what the two weeks test period tell us.

B. **Republic Service Update-Leachate Treatment Agreement with Landfills**

Attorney Neal Smith informed the board members that he has had a couple cell phone conference with Republic's Attorney. They have agreed upon everything except for the guaranteed minimum on delivery or payment amount. There was more discussion regarding what's currently happening and the projection for KRMA's future with them. Attorney Neal recommend we approval the short-term agreement at the increased rate which expires in May 2022.

C. **CSL Update**

Exec Dir Tyson stated CSL have their permit, the next part of their expansion deals with their ammonia, not sure of completion date.

D. **Proposal for Pretreatment Program**

Motion to approve Proposal of the cost of \$44,000 for Pretreatment Program was made by Dir Romo and seconded by Dir Hunter. All board members and alternates David Crawford present voted in favor and Dir Brian Stump and Dir Danita Swanson absent. Motion Carries.

E. **Board Meeting New Time**

Chairman Curtis discuss board meeting time. Board meeting time will remain at 9am.

VI. **New Business**

A. **Pretreatment Presentation**

Exec Dir Tyson introduce Steven Zehner with Robinson Engineering to present Pretreatment Presentation. Mr. Zehner informs the board about the proposal of local limit study. He discussed the Special Condition #9 in the NPDES Permit that requires KRMA to have a Pretreatment Program. Bringing the Pretreatment Program back to KRMA will give KRMA control to better project what future loadings will be, future flows, as well as who is in compliance with regulation. Mr. Zehner went over all the things Robinson Engineering will be conducting in this presentation: local limits, what is being discharged, and establish what KRMA is not a source of. Robinson Engineering will be also check and monitoring for poly and perfluoroalkyl substance that is coming up on the radar USEPA. Also help KRMA to establish a city usage and pretreatment ordinance that will be adopted by all four of the communities. Dir Romo asked, are you testing the sewer pipes? Mr. Zehner replied no, the analysis would be from the influent and effluent sampling that KRMA already do. Exec Dir Tyson would this information help KRMA know the strength of the industries so everyone can be charging the adequate amount base off the strength of their loading. Chairman Curtis asked is analysis a replacement of what we are currently doing or an addition to what we are currently doing? Mr. Zehner replied, additional. Dir Osenga asked if the forty-four thousand annual fee or a one-time fee? Mr. Zehner replied, it's a five-year fee.

B. **NARP**

Exec Dir Tyson stated data is being collected and it's moving along.

C. **Audit Report Presentation**

Discussed earlier

D **Consideration of Close Session Minutes**

Motion that the need for confidentiality still exist and to keep the Close Session Minutes closed was made by Vice Chairman Schore and seconded by Dir Hunter. All board members and alternates David Crawford present voted in favor and Dir Brian Stump and Dir Danita Swanson absent. Motion Carries.

VII. **Executive Session**

Motion to go into Executive Session to discuss Personnel, and probable or imminent litigation pursuant to Sections 2(c)(1) and 2(c) (11) of the open meetings act, was made by: Dir. Hunter and seconded by Vice Chairman Schore. All board members and alternates David Crawford present voted in favor and Dir Brian Stump and Dir Danita Swanson absent. Motion Carried.

Roll call was taken, and all Board Members and Alternate David Crawford were present except Dir Brian Stump and Dir Danita Swanson absent.

The Board went into Executive Session to discuss Personnel and probable or imminent litigation.

Return to Open Session.

Roll call was taken, and all Board Members and Alternate David Crawford present except Dir Brian Stump and Dir Danita Swanson absent.

With the Board back in open session, there was no motion.

VIII. **Next Meeting**

Next Regular Board Meeting- **Thursday, November 18, 2021 (9:00 A.M. at KRMA Board Room)**

Motion to Adjourn was made by: Dir. Osenga and seconded by Dir Hunter. All board members and alternates David Crawford present voted in favor and Dir Brian Stump and Dir Danita Swanson absent. Motion Carried.



Kankakee River Metropolitan Agency

Providing Wastewater Treatment to the Kankakee River Valley



Monthly Operations Report

October 2021

KRMA's OCTOBER HIGHLIGHTS:

The Kankakee River Metropolitan Agency made request to have discussion on the removal of the NARP requirement for KRMA. After discussion, it was determined that additional stream data support the need for a NARP. A Kick-Off meeting held by KRMA management, Executive Director and Strand and Associates regarding the future growth and projection of KRMA.

Year-end annual haul-in waste inspection completed. Sampling for the (NARP) program is completed for the year.

The month of October, the KRMA had one excursion of the Illinois Environmental Protection Agency NPDES (National Pollutant Discharge Elimination System) permits. The excursion exceeded the ammonia daily limit.

1.0 WASTEWATER TREATMENT FACILITY OPERATION

Attachment A Details the monthly operational information for the facility.

2.0 INFLUENT FLOW

Table 2.1 Summarizes total flow and average daily flow to the facility from each municipality.

Attachment B for details of daily flow rates.

Table 2.1
Plant Flows

Municipality	Plant Influent	Kankakee	Bourbonnais	Bradley	Aroma Park
Total Flow (MGD)	619.49	418.18	127.522	71.913	1.875
Daily Average Flow (MGD)	19.98	13.49	4.114	2.320	0.060

3.0 EFFLUENT QUALITY

Table 3.1 Summarizes the effluent quality data.

Table 3.1
Effluent Quality

	IEPA Limits	Effluent Average
Biochemical Oxygen Demand (BOD) – Monthly Average	20 mg/l	8 mg/l
Total Suspended Solids (TSS) - Monthly Average	25 mg/l	21 mg/l
PH	6-9 SU	7.36 SU
Chlorine Residual	0.05 mg/l	0.015 mg/l
Fecal Coliform	400/100 ml	48 ml

ODOR ISSUES:

- There were two odor complaints registered at the KRMA facility in October.
- There were no odor complaints registered at the East Gate site in October.

4.0 PERSONNEL

The Agency would like to say HAPPY BIRTHDAY to all the employees' born in October.

Employees continue to follow the COVID-19 Warning signs and Safety Tips. One of the best ways to help keep workers healthy is to stay home **except for** necessary outings, and when you do go out for the necessities, there are steps you can take to minimize the risk of spreading illness.

5.0 MAINTENANCE AND REPAIR

Number of Work Orders Closed for the Month:	1125
Hours of Scheduled Work Orders Performed:	623.81

6.0 SLUDGE HANDLING

Start Date: 10/01/2021
End Date: 10/31/2021

Gallons of sludge produced and sent to thickening:	2,472,720.00
Gallons of sludge put into storage after thickening:	960,000.00
Sludge removed from the plant for land application:	889,800.00
Sludge remaining in storage as of October 31st:	4,335,000.00

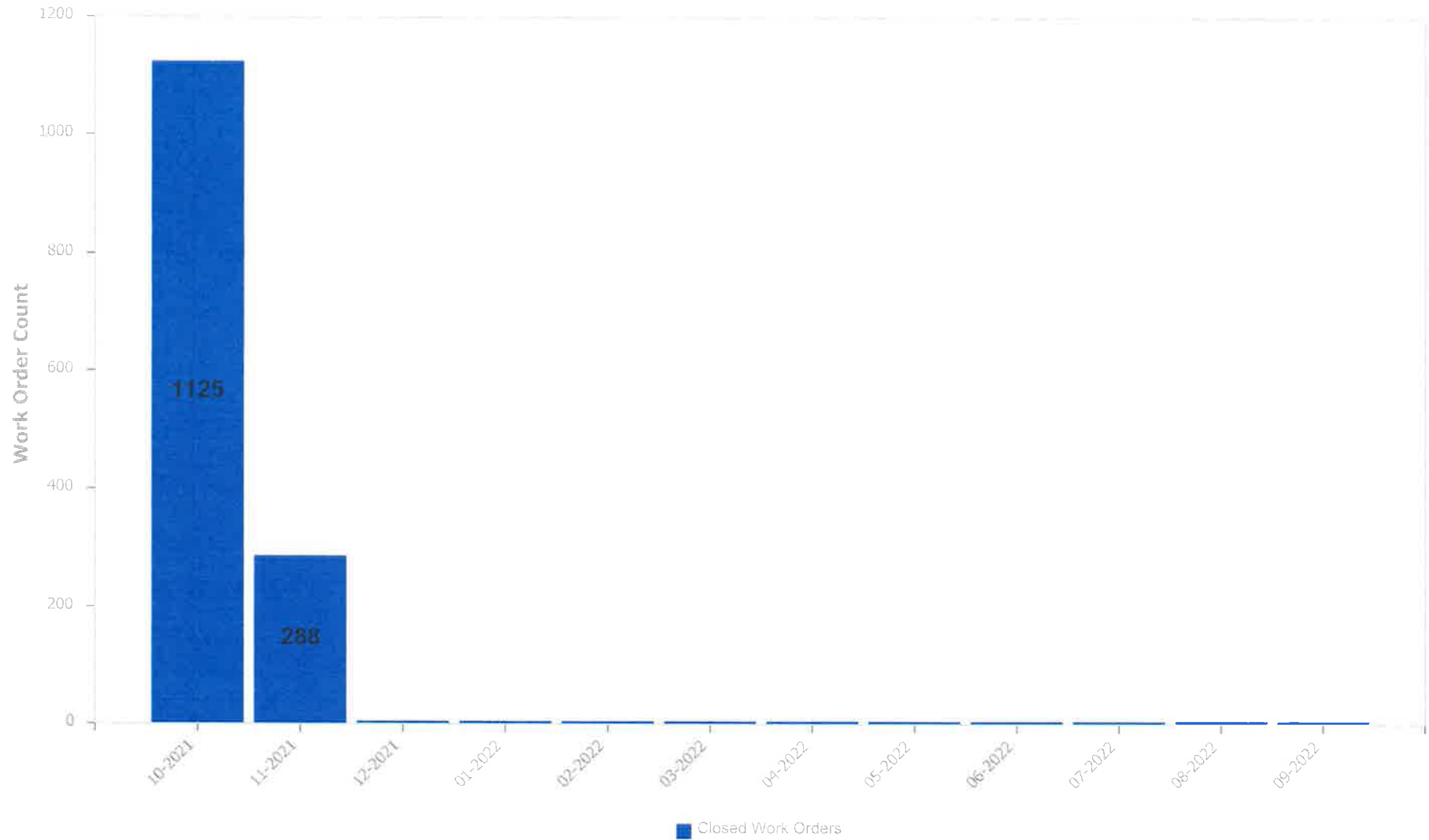
7.0 WATER USAGE

OCTOBER 2021 (265 DAYS): 342,183 CU FT= 2,559,700 GALS. = \$725.32

NUMBER OF DAYS IN THE BILLING CYCLE: 265

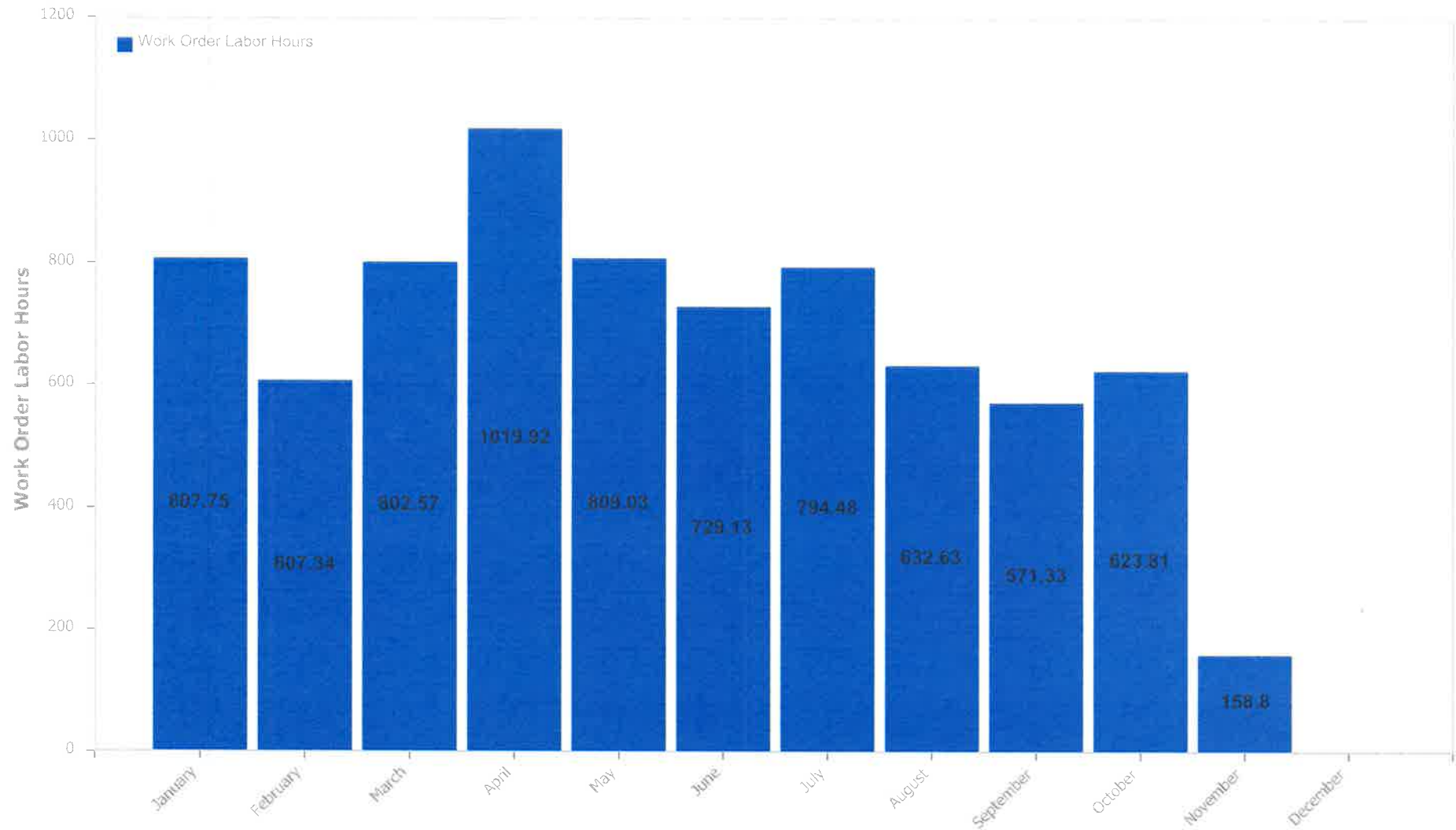
Work Orders Closed By Month

From October, 2021 to September, 2022



Work Order Labor Hours by Month

2021



ATTACHMENT

A

DMR Monthly Report

10/1/2021 to 10/31/2021

Var #	452	159	119	236	454	351	113	237	386
	EFF FLOW	001 Eff pH	FINAL EFF TSS	Weekly ave Eff TSS	EFF TSS	Weekly Ave Eff TSS	EFF-C-BOD	Weekly Ave Eff CBOD	EFF C-BOD
Date	MGD	STD UNIT	mg/L	MG/L	LBS/D	LBS/Day	mg/l	MG/L	lbs/day
10/1/2021	9.349	7.44	12		936				
10/2/2021	14.939		42	19	5,233	1,770	10	7	1,246
10/3/2021	17.653		10		1,472		3		442
10/4/2021	18.154	7.36	17		2,574		5		757
10/5/2021	15.365	7.47	21		2,691		6		769
10/6/2021	12.989	7.39	20		2,167		7		758
10/7/2021	15.145	7.36	17		2,147		8		1,010
10/8/2021	15.593	7.44	18		2,341				
10/9/2021	14.052		12	16	1,406	2,114	4	6	469
10/10/2021	12.616		16		1,683		5		526
10/11/2021	14.633	7.39	24		2,929		8		976
10/12/2021	17.134	7.39	21		3,001		8		1,143
10/13/2021	18.169	7.32	34		5,152				
10/14/2021	22.260	7.34	20		3,713		11		2,042
10/15/2021	22.392	7.50	7		1,307				
10/16/2021	18.185		5	18	758	2,649	4	7	607
10/17/2021	16.175		10		1,349		4		540
10/18/2021	14.518	7.39	15		1,816		5		605
10/19/2021	13.925	7.38	18		2,090		8		929
10/20/2021	13.076	7.41	20		2,181		7		763
10/21/2021	12.698	7.00	25		2,648		10		1,059
10/22/2021	12.676	7.62	35		3,700				
10/23/2021	12.042		15	20	1,506	2,184	7	7	703
10/24/2021	22.543		29		5,452		7		1,316
10/25/2021	43.010	7.22	44		15,783		24		8,609
10/26/2021	43.274	7.26	44		15,880		12		4,331
10/27/2021	33.372	7.29	46		12,803		10		2,783
10/28/2021	27.360	7.13	45		10,268		11		2,510
10/29/2021	32.296	7.44	7		1,885				
10/30/2021	32.527		7	32	1,899	9,139	5	12	1,356
10/31/2021	31.369		4		1,046		4		1,046

Minimum	9.349	7.00	4	16	758	1,770	3	6	442
Maximum	43.274	7.62	46	32	15,880	9,139	24	12	8,609
Average	19.984	7.36	21	21	3,865	3,571	8	8	1,492
Sum	619.489	154.54	660	105	119,818	17,857	193	38	37,297

Limit		Range 6-9	25	45	5,213	9,383	20	40	4,170
--------------	--	------------------	-----------	-----------	--------------	--------------	-----------	-----------	--------------

DMR Monthly Report

10/1/2021 to 10/31/2021

Var #	352	187	191	401	101	450	115	451	455
	WeeklyAv eEffCBOD	001 EFF CL2	FECAL COLI 001	TOTAL INF FLOW	INFLUENT BOD	INF BOD LOAD	INFLUENT TSS	INF TSS	BOD REMOVAL
Date	LBS/Day	mg/L	#/100ml	MGD	mg/L	LBS/D	mg/L	LBS/D	%
10/1/2021		0.026	61	9.35			160	12,475	
10/2/2021	593			14.94	138	17,194	156	19,436	93
10/3/2021				17.65	138	20,317	112	16,489	98
10/4/2021		0.017	11	18.15	357	54,051	200	30,281	99
10/5/2021		0.011	4	15.37	321	41,134	222	28,448	98
10/6/2021		0.021	16	12.99	323	34,990	276	29,899	98
10/7/2021		0.028	47	15.15	293	37,009	224	28,293	97
10/8/2021		0.029	0	15.59			254	33,032	
10/9/2021	701			14.05	233	27,306	132	15,470	98
10/10/2021				12.62	196	20,623	136	14,310	97
10/11/2021		0.008	14	14.63	240	29,289	140	17,085	97
10/12/2021		0.004	7	17.13	286	40,869	114	16,290	97
10/13/2021		0.026	4	18.17			86	13,032	
10/14/2021		0.020	17	22.26	162	30,075	108	20,050	93
10/15/2021		0.004	1	22.39			24	4,482	
10/16/2021	1,059			18.19	189	28,664	149	22,598	98
10/17/2021				16.18	141	19,021	90	12,141	97
10/18/2021		0.012	27	14.52	335	40,562	230	27,848	99
10/19/2021		0.009	1	13.93	334	38,789	820	95,230	98
10/20/2021		0.013	0	13.08	298	32,498	218	23,774	98
10/21/2021		0.008	7	12.70	282	29,864	252	26,687	96
10/22/2021		0.009	12	12.68			360	38,058	
10/23/2021	767			12.04	209	20,990	118	11,851	97
10/24/2021				22.54	83	15,605	74	13,913	92
10/25/2021		0.012	316	43.01	183	65,643	222	79,632	87
10/26/2021		0.004	168	43.27	152	54,858	118	42,587	92
10/27/2021		0.020	252	33.37	118	32,842	52	14,473	92
10/28/2021		0.003	14	27.36	152	34,684	104	23,731	93
10/29/2021		0.030	22	32.30			10	2,693	
10/30/2021	3,484			32.53	80	21,702	14	3,798	94
10/31/2021				31.37	50	13,081	40	10,465	92

Minimum	593	0.003	0	9.35	50	13,081	10	2,693	87
Maximum	3,484	0.030	316	43.27	357	65,643	820	95,230	99
Average	1,321	0.015	48	19.98	212	32,066	168	24,147	96
Sum	6,604	0.314	1,001	619.49	5,293	801,659	5,215	748,551	2,388

Limit	8,340	0.05	400						
--------------	--------------	-------------	------------	--	--	--	--	--	--

DMR Monthly Report

10/1/2021 to 10/31/2021

Var #	456	1040	1041	1042	1043	255	297	953	1023
	TSS REMOVAL	North Effluent DO - SCADA	South Effluent DO - SCADA	Daily Average Effluent DO	Effluent DO weekly average	FINAL EFF NH3N	Eff Nitrogen #	Eff_Total Phosphoru s- TP(TNT)	Effluent Total Nitrogen
Date	%	mg/l	mg/l	mg/l	mg/l	mg/L	#/day	mg/l	mg/l
10/1/2021	93	7.01	5.99	6.50					
10/2/2021	73	6.91	6.54	6.73	6.75				
10/3/2021	91	6.78	6.69	6.74		0.27	40.34	0.71	
10/4/2021	92	6.99	6.98	6.99		0.89	134.60	1.01	
10/5/2021	91	7.03	6.67	6.85		0.15	19.22	1.51	
10/6/2021	93	7.00	6.79	6.90		1.16	125.66	1.56	22.00
10/7/2021	92	6.76	6.29	6.53		1.54	194.52	1.48	
10/8/2021	93	6.88	6.22	6.55					
10/9/2021	91	6.71	5.92	6.32	6.69				
10/10/2021	88	6.75	6.71	6.73		0.13	14.10	0.97	
10/11/2021	83	6.52	5.43	5.98		5.63	687.08	2.02	
10/12/2021	82	6.68	6.00	6.34		1.22	174.34	0.74	
10/13/2021	60	6.74	6.03	6.39		10.20	1,545.60	1.75	22.20
10/14/2021	81	6.54	6.28	6.41		2.96	549.52	0.92	
10/15/2021	71	7.82	6.19	7.01					
10/16/2021	97	7.35	5.74	6.55	6.48				
10/17/2021	89	7.13	6.67	6.90		0.09	11.75	0.62	
10/18/2021	93	7.28	6.77	7.03		1.86	225.21	1.09	
10/19/2021	98	7.00	6.06	6.53		1.15	133.55	1.26	
10/20/2021	91	6.96	5.87	6.42		4.03	439.49	1.45	19.76
10/21/2021	90	7.06	6.22	6.64		1.73	183.21	1.73	
10/22/2021	90	7.11	7.33	7.22					
10/23/2021	87	6.78	7.29	7.04	6.82				
10/24/2021	61	6.79	7.15	6.97		0.05	9.40	1.90	
10/25/2021	80	6.83	6.75	6.79		4.25	1,524.49	5.21	
10/26/2021	63	6.54	6.26	6.40		0.89	320.48	0.86	
10/27/2021	12	6.65	6.55	6.60		2.83	787.65	2.53	11.32
10/28/2021	57	6.59	6.55	6.57		0.71	162.92	1.93	
10/29/2021	30	6.51	6.40	6.46					
10/30/2021	50	6.62	6.50	6.56	6.62				
10/31/2021	90	7.50	7.64	7.57		0.05	13.08	0.24	

Minimum	12	6.51	5.43	5.98	6.48	0.05	9.40	0.24	11.32
Maximum	98	7.82	7.64	7.57	6.82	10.20	1,545.60	5.21	22.20
Average		6.90	6.47	6.68	6.67	1.99	347.44	1.50	18.82
Sum	2,450	213.82	200.48	207.15	33.37	41.80	7,296.21	31.48	75.28

Limit				min >4.0	>4.5	7.9	1647		
				avg >6.0					

DMR Monthly Report

10/1/2021 to 10/31/2021

Var #	1044	1048	1045	102	116	1046	1047
	Fecal Coliform at EQ Basin	EQ Basin Residual Chlorine	EQ Basin pH	EQ Basin BOD	EQ Basin TSS	EQ Basin Ammonia Nitrogen	EQ Basin Total Phosphorus
Date	col/100ml	mg/l		mg/L	mg/L	mg/l	mg/l
10/1/2021							
10/2/2021							
10/3/2021							
10/4/2021							
10/5/2021							
10/6/2021							
10/7/2021							
10/8/2021							
10/9/2021							
10/10/2021							
10/11/2021							
10/12/2021							
10/13/2021							
10/14/2021							
10/15/2021							
10/16/2021							
10/17/2021							
10/18/2021							
10/19/2021							
10/20/2021							
10/21/2021							
10/22/2021							
10/23/2021							
10/24/2021							
10/25/2021							
10/26/2021							
10/27/2021							
10/28/2021							
10/29/2021							
10/30/2021							
10/31/2021							

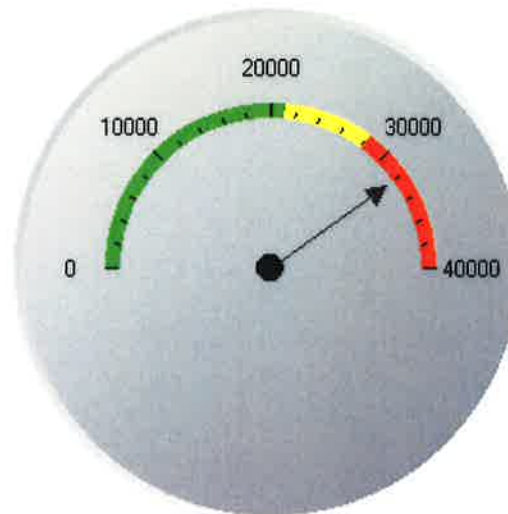
Minimum							
Maximum							
Average							
Sum							

400	0.75	Range 6-9					
-----	------	-----------	--	--	--	--	--

Influent BOD loading Lbs - Monthly AVG

32,066 Lbs./Day

10/01/2021 - 10/31/2021



0 to 21150 - Target Loading

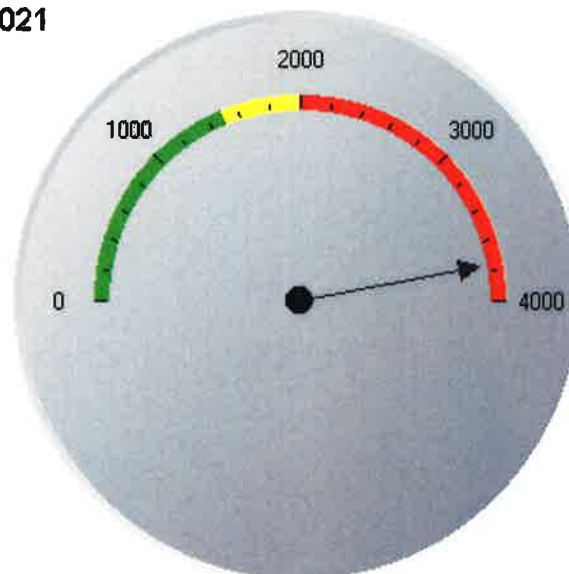
21150 to 28200 - Above 75% Threshold

Above 28200

Influent NH3 loading Lbs - Monthly AVG

3,757 Lbs./Day

10/01/2021 - 10/31/2021



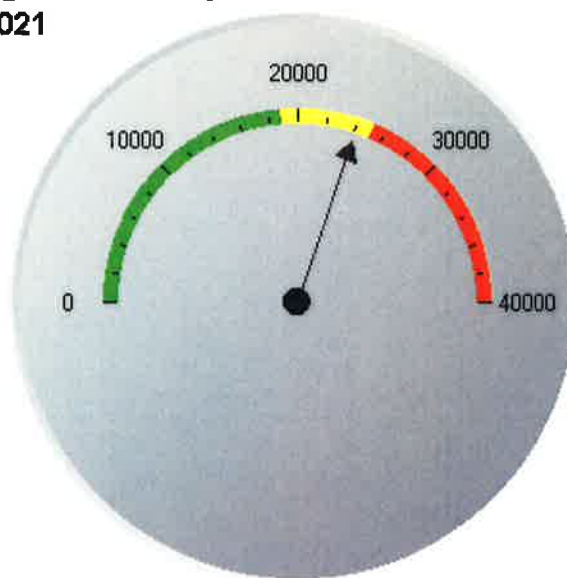
0 to 1500 - Target Loading

1500 to 2000 - Above 75% Threshold

Above 2000

Influent TSS loading Lbs - Monthly AVG
10/01/2021 - 10/31/2021

24,147 Lbs./Day



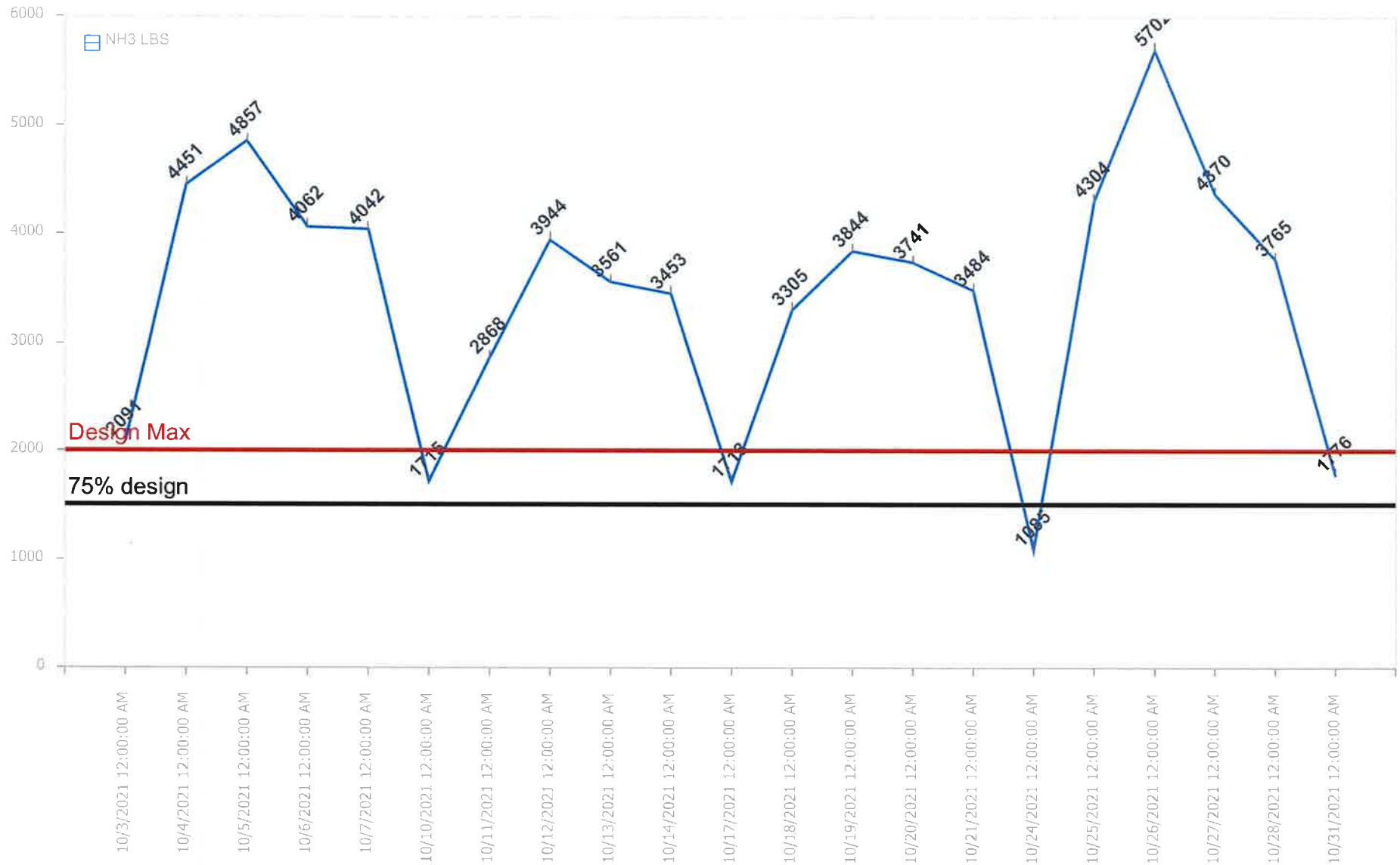
0 to 18900 - Target Loading

18900 to 25200 - Above 75% Threshold

Above 25200

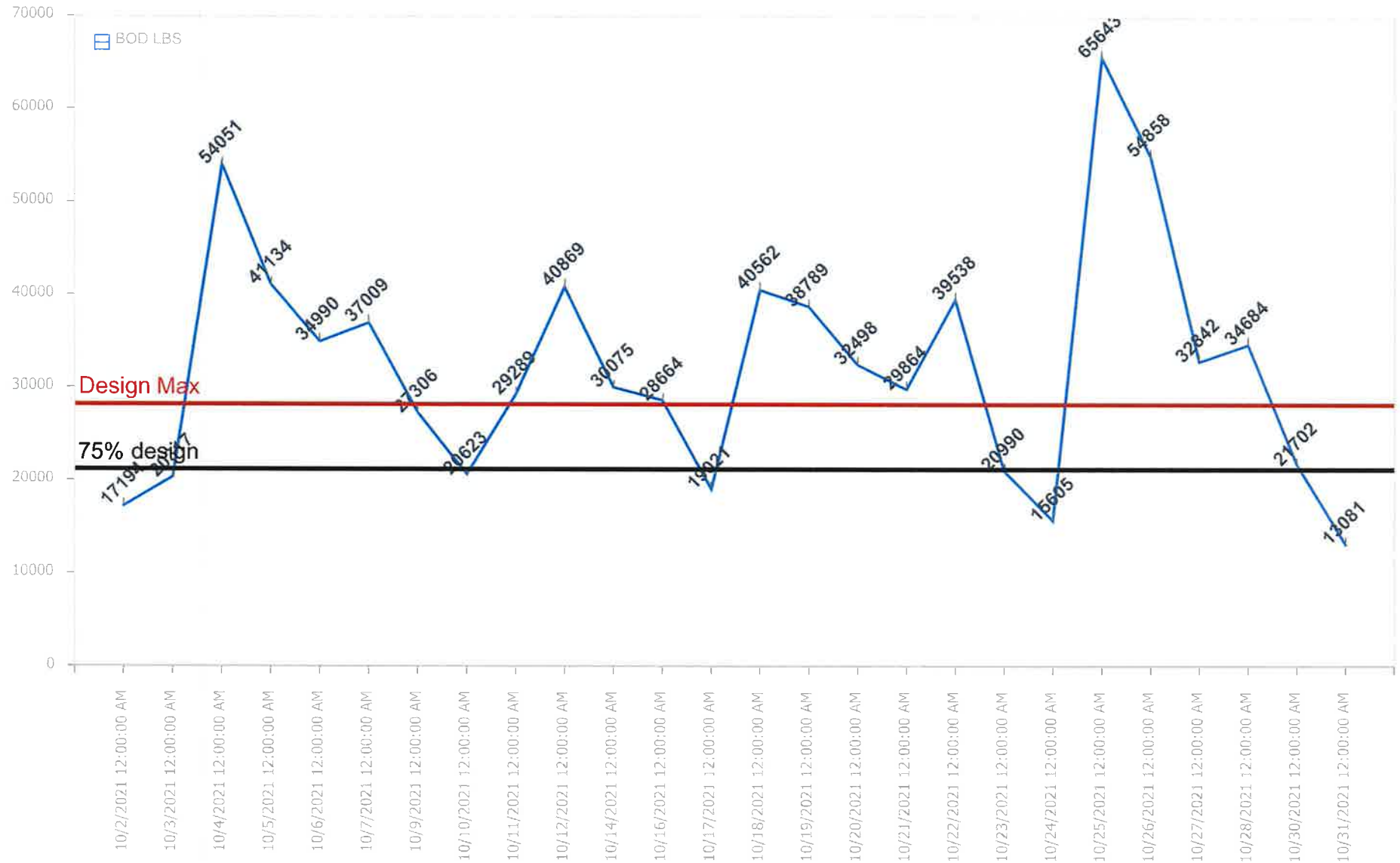
KRMA influent NH3 pounds

Average Lbs. NH3: 3,434.90



KRMA influent BOD pounds

Average Lbs. BOD: 32,353.77



ATTACHMENT

B

Flows
KRMA Treatment Facility
October, 2021

	PRECIPITA INCHES	PLANT MGD	Kankakee MGD	BOURB. MGD	BradleyFlow MGD	AromaPark MGD
Date						
10/1/2021	0.00	9.35	6.26	2.276	0.777	0.037
10/2/2021	0.00	14.94	10.37	2.700	1.834	0.037
10/3/2021	1.59	17.65	11.34	3.901	2.377	0.037
10/4/2021	0.00	18.15	13.04	3.022	2.057	0.037
10/5/2021	0.00	15.37	11.01	2.668	1.655	0.036
10/6/2021	0.42	12.99	8.82	2.620	1.521	0.028
10/7/2021	0.20	15.15	9.51	3.493	2.113	0.034
10/8/2021	0.22	15.59	10.52	3.069	1.964	0.036
10/9/2021	0.00	14.05	9.30	2.938	1.775	0.036
10/10/2021	0.00	12.62	8.10	2.840	1.643	0.036
10/11/2021	0.74	14.63	9.29	3.288	2.019	0.036
10/12/2021	0.00	17.13	10.89	3.735	2.460	0.048
10/13/2021	1.06	18.17	12.24	3.869	1.999	0.057
10/14/2021	0.08	22.26	15.11	5.040	2.034	0.073
10/15/2021	0.24	22.39	16.30	4.011	2.033	0.053
10/16/2021	0.00	18.19	12.42	3.683	2.027	0.053
10/17/2021	0.00	16.18	10.81	3.289	2.022	0.053
10/18/2021	0.00	14.52	9.37	3.080	2.024	0.039
10/19/2021	0.00	13.93	8.91	2.959	2.022	0.038
10/20/2021	0.00	13.08	8.15	2.867	2.023	0.036
10/21/2021	0.00	12.70	7.87	2.766	2.023	0.038
10/22/2021	0.00	12.68	7.98	2.620	2.020	0.060
10/23/2021	0.00	12.04	7.33	2.634	2.021	0.060
10/24/2021	3.05	22.54	13.92	6.283	2.276	0.060
10/25/2021	0.13	43.01	28.45	11.868	2.542	0.148
10/26/2021	0.00	43.27	32.73	6.221	4.212	0.113
10/27/2021	0.00	33.37	25.13	4.653	3.508	0.085
10/28/2021	0.71	27.36	19.09	4.842	3.328	0.096
10/29/2021	0.43	32.30	20.06	7.799	4.316	0.125
10/30/2021	0.00	32.53	21.29	7.108	4.005	0.125
10/31/2021	0.00	31.37	22.58	5.380	3.286	0.125
Total	8.87	619.49	418.18	127.522	71.913	1.875
Average	0.29	19.98	13.49	4.114	2.320	0.060
Minimum	0.00	9.35	6.26	2.276	0.777	0.028
Maximum	3.05	43.27	32.73	11.868	4.316	0.148
# of data	31	31	31	31	31	31

ATTACHMENT

C



SAFETY MEETING
November 9, 2021
9:30am & 1:30pm
Agenda

I. Safety Minutes

Review minutes from October 2021

II. Old Business

There were no lost time accidents for the month of October 2021

III. New Business

A. Safety Training

PPE training - *It's Your Call*

B. Safety Concerns

C. Safety Team Leader Report

D. Open Discussion

Next Meeting: Thursday, December 9, 2021 9:30am & 1:30pm



SAFETY MEETING
October 7, 2021
9:30am & 1:30pm
Minutes

In attendance:

9:30am session:

Melanie Gossett, Facilitator

Dan Combs	Shawn Malone	Nick Scheppler	Mike Gowler
John Lund	Nick Tucker	Sandy Spriggs	

1:30pm session:

Melanie Gossett, Facilitator

Jack Renchen	Jim Churney	Josh Peters	Ron Haney
Max Gossett	Mike Arseneau	Alex Bowser	Alan Toronjo
Ben Smith	Ryan McGinnis		

Absent:

Shaun Ownbey, Brian Power, Bryan Kennedy, Andy Summers

I. Safety Minutes

Reviewed minutes from September 2021 – Approved

II. Old Business

There was one lost time accident reported for the month of September 2021.

III. New Business

A. Safety Training

Liberty Fire Equipment Inc. conducted fire extinguisher training. Each participant was instructed on the types and proper uses of fire extinguishers. Everyone practiced putting out an actual fire.

B. Safety Concerns

1. Some of the walking areas covered with steel grating seem soft.

✓ All areas have been inspected and can be repaired in-house.

2. The hoist for moving barrels upstairs in Bldg. 66 has been addressed.

3. The weeds between the aeration bays make it difficult to complete W.O.s.

✓ Permission is granted to mow or weed trim the area.

C. Safety Team Report

No additional concerns mentioned.

D. Open Discussion

1. As cold weather approaches, there are concerns about the road salt area.

a. Barrels need to be moved in the barn to access the salt.

b. The loading area needs attention.

2. Can all the vehicles be filled with fuel on Fridays so they are prepared for the weekend?

✓ Previous memo indicated that this is the current procedure.

3. Operators expressed they would be open to other forms of transportation vehicles Ex: gators.

3. Will KRMA be purchasing a new fork lift?

✓ Not at this time

4. All operators were reminded of the CEU requirement to retain their license. Class 3 & 4 who obtained their license prior to July 1, 2019 will have until July 1, 2022 to obtain 15 CEUs and Class 1 & 2 will have until July 1, 2023 to obtain 30 CEUs.

Next Meeting: **Tuesday, November 9, 2021**
9:30am & 1:30pm

ATTACHMENT D

FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: KANKAKEE/RIVERLANE

FLOW METER MODEL: Isco Signature

INFLUENT November 3rd, 2021

PRIMARY DEVICE: PHARSHAL

FLOW: 0-516 GPM 0-13.20 IN

MEASURING DEVICE: ULTRASONIC

CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? No

SURFACE BUILD-UP? No

HEAD MEASURING DEVICE MOUNTED PROPERLY? Yes

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? Yes

CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT

C) LEVEL BEFORE: TARGET SET 24.125 Level 24.021"

LEVEL AFTER: 24.123"

LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: Yes

TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: Yes

CALIBRATED BY: Brian Scheppler

DATE: 11/3/2021

**BC SYSTEMS INC.
2778 N. 4000 E. ROAD
BOURBONNAIS ILLINOIS 60914
PHONE: 1-815-671-1257
FAX: 1-815-802-0219**

FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: KANKAKEE

FLOW METER MODEL: Siemens Hydro Ranger #1

Influent November 3rd, 2021

PRIMARY DEVICE: Flume

FLOW: 0-73 MGD

MEASURING DEVICE: Ultrasonic

CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? Yes

BLOCKAGE? NO

SURFACE BUILD-UP? No

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target Set 30MGD AS Found 29.94 MGD

LEVEL AFTER: 29.94 MGD

LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 11/3/2021

**BC SYSTEMS INC.
2778 N. 4000 E. ROAD
BOURBONNAIS ILLINOIS 60914
PHONE: 1-815-671-1257
FAX: 1-815-802-0219**

FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: KANKAKEE/BROOKMONT

FLOW METER MODEL: ISCO Signature

INFLUENT November 3rd 2021

PRIMARY DEVICE: PHARSHAL

FLOW: 0-516 GPM 0-13.20 IN

MEASURING DEVICE: ULTRASONIC

CHECK POINTS:

LEVEL? YES

FREE FLOWING? YES

TURBULENCE? NO

BLOCKAGE? No

SURFACE BUILD-UP? NONE

HEAD MEASURING DEVICE MOUNTED PROPERLY?

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? Yes

CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target 24.125" Level 23.293

LEVEL AFTER: 24.126"

LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: Yes

TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: Yes

CALIBRATED BY: Brian Scheppler

DATE 11/3/2021

**BC SYSTEMS INC.
2778 N. 4000 E. ROAD
BOURBONNAIS ILLINOIS 60914
PHONE: 1-815-671-1257
FAX: 1-815-802-0219**

FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: BRADLEY/ RIVER DRIVE

FLOW METER MODEL: Isco Signature

INFLUENT November 3rd, 2021

PRIMARY DEVICE: PHARSHAL

FLOW: 0-21.36

MEASURING DEVICE: ULTRASONIC

CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? Yes

BLOCKAGE? NO

SURFACE BUILD-UP? NONE

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target 10.0" Level reading 9.994"

LEVEL AFTER: 9.994"

LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 11/3/2021

BC SYSTEMS INC.
2778 N. 4000 E. ROAD
BOURBONNAIS ILLINOIS 60914
PHONE: 1-815-671-1257
FAX: 1-815-802-0219

FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: KANKAKEE

FLOW METER MODEL: Siemens Hydro Ranger #2

INFLUENT November 3rd 2021

PRIMARY DEVICE: Flume

FLOW: 0-73.425 MGD

MEASURING DEVICE: Ultrasonic

CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? NO

SURFACE BUILD-UP? No

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target Set 30.0 MGD AS Found 29.89 MGD

LEVEL AFTER: 29.89 MGD

LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 11/3/2021

BC SYSTEMS INC.
2778 N. 4000 E. ROAD
BOURBONNAIS ILLINOIS 60914
PHONE: 1-815-671-1257
FAX: 1-815-802-0219

FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: Kankakee Influent

FLOW METER MODEL: Isco Laser Flow

INFLUENT November 8th, 2021

PRIMARY DEVICE: 72" PIPE

FLOW: 0-115 MGD

MEASURING DEVICE:

CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? NO

SURFACE BUILD-UP? Foam

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target level 42.0" As found 42.9"

LEVEL AFTER: 42.00"

LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 11/8/2021

BC SYSTEMS INC.
2778 N. 4000 E. ROAD
BOURBONNAIS ILLINOIS 60914
PHONE: 1-815-671-1257
FAX: 1-815-802-0219

FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: BOURBONNAIS/New

FLOW METER MODEL: Isco Laser Flow

INFLUENT November 8th, 2021

PRIMARY DEVICE: 36" PIPE

FLOW: 0-21.36 MGD

MEASURING DEVICE:

CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? NO

SURFACE BUILD-UP? None

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target level 16.00" As found 16.043"

LEVEL AFTER: 16.043" No adjustments made due to ISCO recommendations

LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 11/8/2021

**BC SYSTEMS INC.
2778 N. 4000 E. ROAD
BOURBONNAIS ILLINOIS 60914
PHONE: 1-815-671-1257
FAX: 1-815-802-0219**

ATTACHMENT

E

Monthly Pretreatment Program Totals

October 2021

1600 West Brookmont Blvd.
Kankakee, IL 60901
Phone: 815-933-0444
Fax: 815-933-0104

October 2021 Monthly Pretreatment Sample Analysis (metals, cyanide & VOA) for the permitted industries were a total of **88 samples** and a total of **518 analyses**.

Gilster-Mary Lee Corporation	9 Samples
Kankakee Recycling & Disposal Facility	1 Sample
Laraway Recycling & Disposal Facility	7 Samples
Liberty Landfill, LLC	10 Samples
Livingston Landfill	3 Samples
Natural Gas & Pipeline Co. of America	4 Samples
Newton County Landfill	14 Samples
Peoria Packing Co.	2 Samples
Prairie View RDF	7 Samples
Tank Cleaning Solutions, LLC	30 Samples
Zutat Feed Solutions	1 Sample

Volumes Received for October 2021 for trucked-in industries.

Gilster-Mary Lee Corporation	106,000 gals	18 loads
Kankakee Recycling & Disposal Facility	14,000 gals	2 loads
Laraway Recycling & Disposal Facility	227,996 gals	37 loads
Liberty Landfill, LLC	888,745 gals	133 loads
Livingston Landfill	283,692 gals	43 loads
Natural Gas & Pipeline Co. of America	105,000 gals	21 loads
Newton County Landfill	1,495,585 gals	223 loads
Peoria Packing Co.	17,000 gals	3 loads
Prairie View RDF	405,661 gals	72 loads
Tank Cleaning Solutions, LLC	143,143 gals	30 loads
Zutat Feed Solutions	30,000 gals	5 loads
Totals:	3,716,822 gals	587 loads

The KRMA Facility received a total of **205 loads** of septage which totalled **642,600 gallons** for the month of October 2021

KRMA YEARLY UTILITY USAGE - (2021)

	KRMA ELECTRIC ENERGY USE									KRMA WATER USE				
	Total KWH	Days	Total Cost \$/month	Total Cost \$/day	Hydro KWH	Methane KWH	Mid-American KWH	KWH/HR (Avg)	\$/KWH	Gallons	Days	Total Cost \$/Billing Period	Gallons/Day	Total Cost \$/day
JANUARY	923,110	34	\$ 58,146	\$ 1,710	-	0	923,110	1,131	\$ 0.0630	620,000	66	\$ 4,071	9,394	62
FEBRUARY	805,257	28	\$ 67,560	\$ 2,413	-	-	805,257	1,198	\$ 0.0839	250,000	28	\$ 2,165	8,929	77
MARCH	800,454	28	\$ 52,739	\$ 1,884	134,889	-	665,565	1,191	\$ 0.0659	170,000	27	\$ 1,705	6,296	63
APRIL	860,768	31	\$ 56,874	\$ 1,835	51,442		809,326	1,157	\$ 0.0661	410,000	21	\$ 2,898	19,524	138
MAY	961,551	31	\$ 58,930	\$ 1,901	35,134	100,555	825,862	1,292	\$ 0.0613	480,000	37	\$ 3,621	12,973	98
JUNE	1,040,131	29	\$ 44,618	\$ 1,539	190,806	217,853	631,472	1,494	\$ 0.0429	410,000	48	\$ 3,504	8,542	73
JULY	1,089,542	31	\$ 52,882	\$ 1,706	169,140	137,088	783,314	1,464	\$ 0.0485	410,000	42	\$ 3,407	9,762	81
AUGUST	863,587	32	\$ 51,176	\$ 1,599	209,714	33,272	620,601	1,124	\$ 0.0593	410,000	30	\$ 3,116	13,667	104
SEPTEMBER	1,072,635	35	\$ 51,085	\$ 1,460	8932	231487	832,216	1,277	\$ 0.0476	410,000	32	\$ 3,120	12,813	98
OCTOBER	895,361	31	\$ 44,301	\$ 1,429	115,701	236,493	543,167	1,203	\$ 0.0495				#DIV/0!	#DIV/0!
NOVEMBER	0			#DIV/0!				#DIV/0!	#DIV/0!				#DIV/0!	#DIV/0!
DECEMBER	0			#DIV/0!				#DIV/0!	#DIV/0!				#DIV/0!	#DIV/0!
TOTAL	9,312,396	310	\$ 538,311	#DIV/0!	915,758	956,748	7,439,890	#DIV/0!	#DIV/0!			\$ 27,607	#DIV/0!	#DIV/0!
	Total KWH	Days	Total Cost \$/month	Total Cost \$/day	Hydro KWH	Methane KWH	Mid-American KWH	KWH/HR (Avg)	\$/KWH	Gallons	Days	Total Cost \$/Billing Period	Gallons/Day	Total Cost \$/day

	KRMA NATURAL GAS USE				
	Therms	Days	Total Cost \$/Billing Period	Therms/Day	Total Cost \$/day
JANUARY	44,638	31	\$ 16,871	1440	\$ 544
FEBRUARY	47,672	28	\$ 13,273	1703	\$ 474
MARCH	31,730	31	\$ 15,793	1024	\$ 509
APRIL	23,881	30	\$ 14,133	796	\$ 471
MAY	18,408	31	\$ 8,306	594	\$ 268
JUNE	9,907	30	\$ 4,824	330	\$ 161
JULY	12,278	31	\$ 6,549	396	\$ 211
AUGUST	9,298	31	\$ 5,530	300	\$ 178
SEPTEMBER	8,858	30	\$ 5,627	295	\$ 188
OCTOBER				#DIV/0!	#DIV/0!
NOVEMBER				#DIV/0!	#DIV/0!
DECEMBER				#DIV/0!	#DIV/0!
TOTAL	206,670	273	\$ 90,906	#DIV/0!	#DIV/0!
	Therms	Days	Total Cost \$/Billing Period	Therms/Day	Total Cost \$/day

Annual Load / Gallon Totals

2021

1600 West Brookmont
 Blvd.
 Kankakee, IL 60901
 Phone: 815-933-0444
 Fax: 815-933-0104

	City of Mokena Ice Packing	Gilster-Mary Lee Corporation	Hoffman Transportation, LLC	Kankakee Recycling & Disposal Facility	Lake County C&D Landfill	Larney Recycling & Disposal Facility	Liberty 3 LFGTE Plant - Wabash Valley Power Alliance	Liberty Landfill, LLC	Livingston Landfill	Natural Gas & Pipelin Co. of America	Newton County Landfill	Odyssey US LLC	Purolite Packing Co.	Prairie View RDF	Solvay USA Inc.	Tank Cleaning Solutions, LLC	Verdant Specialty Solutions US LLC	Zula Feed Solutions	Total	# Loads
January	138,200	80,000	10,000		57,287			912,664	255,040	50,000	1,331,545			95,432	72,194	180,472		23,000	3,205,834	512
February	168,000	61,000	15,000					1,387,606	166,784	30,000	913,999			25,925	42,583	200,029		18,000	3,028,926	487
March		109,000	25,000	7,000				1,046,929	202,053	115,000	1,405,353	72,338	3,500	74,567		244,479		36,000	3,341,219	548
April		87,000		7,000		5,825		951,099	162,572	35,000	1,383,535	71,113		196,500		157,934		30,000	3,087,578	503
May		67,000	10,000					692,347	157,220	60,000	1,540,176	50,123	8,600	238,613		116,493		42,000	2,982,572	482
June		87,000	5,000					870,217	311,792	75,000	1,609,740	72,321	1,000	258,802		209,940		12,000	3,512,812	570
July		95,000	20,000			30,586		864,323	200,917	75,000	1,500,204			372,450		156,039		24,000	3,338,519	545
August		59,000			19,143			669,176	259,079	30,000	1,486,841		5,000	530,097		192,352		30,000	3,480,688	564
September		83,000	10,000	7,000				825,166	240,651	40,000	1,104,197			546,887		159,953		18,000	3,034,854	491
October		106,000		14,000		227,996		688,745	283,692	105,000	1,495,585		17,000	405,661		143,143		30,000	3,716,822	587
November																				
December																				
Totals	306,200	834,000	95,000	35,000	76,430	264,407		9,308,272	2,239,800	615,000	13,771,175	265,895	35,100	2,744,934	114,777	1,760,834		263,000	32,729,824	5,289
Average	51,033	83,400	10,555	3,500	8,492	26,440		930,827	223,980	61,500	1,377,117	66,473	3,510	274,493	57,388	176,083		26,300	3,272,982	529
Treatment Costs as of 05/01/21	0.082	0.082	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.082	0.056	0	0.082	0.056	0	0.082	0.131	0.071		
Treatment Costs as of 05/01/20	0	0.071	0.049	0.049	0.049	0.049	0	0.049	0.049	0.071	0.042	0	0.071	0.049	0	0.071	0.114	0.071		



Monthly TSS/BOD Loading Report

October, 2021

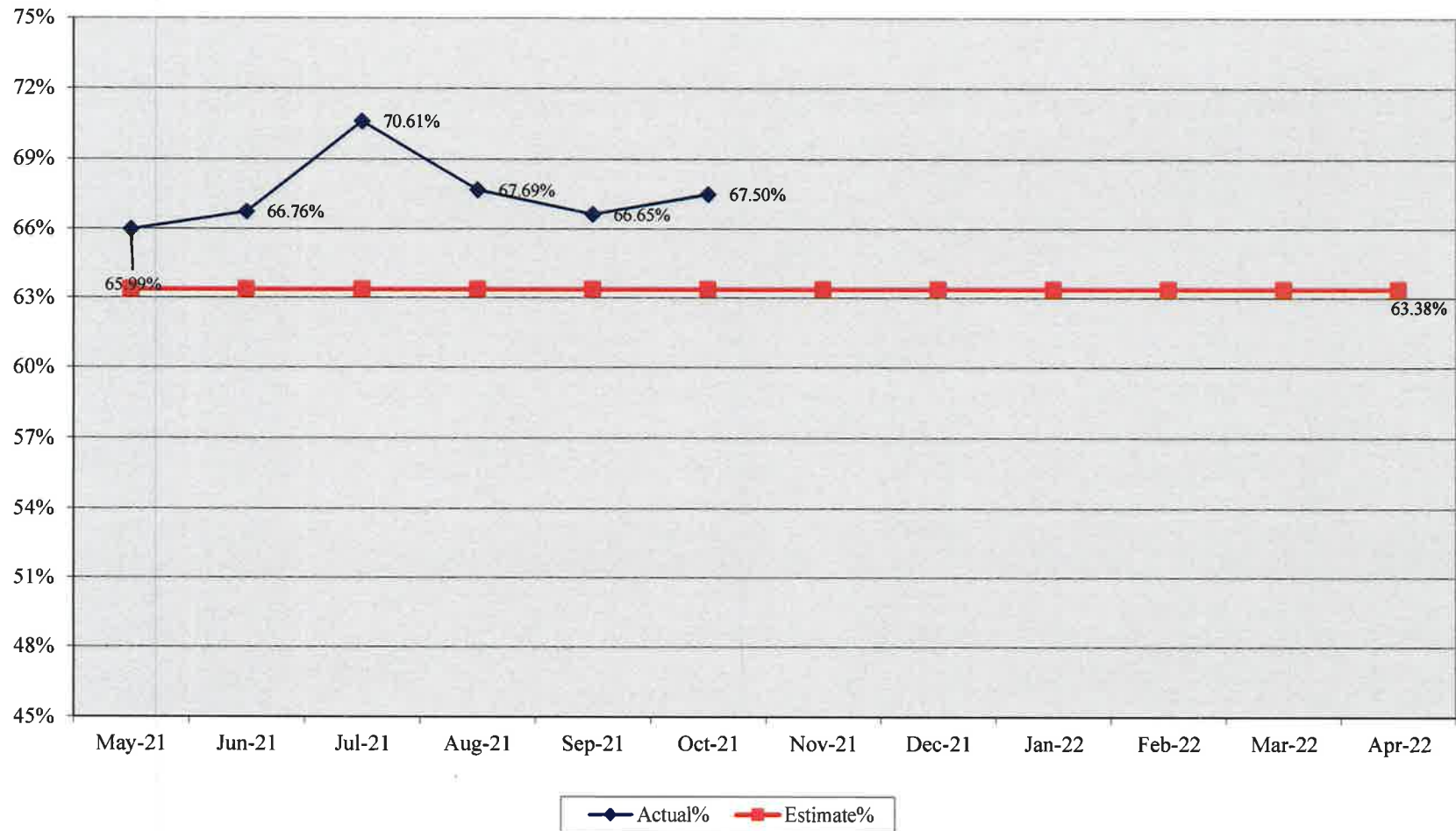
1600 West Brookmont Blvd.
Kankakee, IL 60901
Phone: 815-933-0444
Fax: 815-933-0104

Hauler	Gallons	Lbs TSS	Lbs BOD
Gilster-Mary Lee Corporation	106,000	5,959	6,355
Kankakee Recycling & Disposal Facility	14,000	26	77
Laraway Recycling & Disposal Facility	227,996	3,822	1,315
Liberty Landfill, LLC	888,745	1,843	14,843
Livingston Landfill	283,692	3,662	18,553
Natural Gas & Pipeline Co. of America	105,000	40	62
Newton County Landfill	1,495,585	17,127	232,837
Peoria Packing Co.	17,000	442	322
Prairie View RDF	405,661	3,290	43,420
Tank Cleaning Solutions, LLC	143,143	216	1,737
Zutat Feed Solutions	30,000	2,706	1,745
Totals:	3,716,822	39,133	321,266

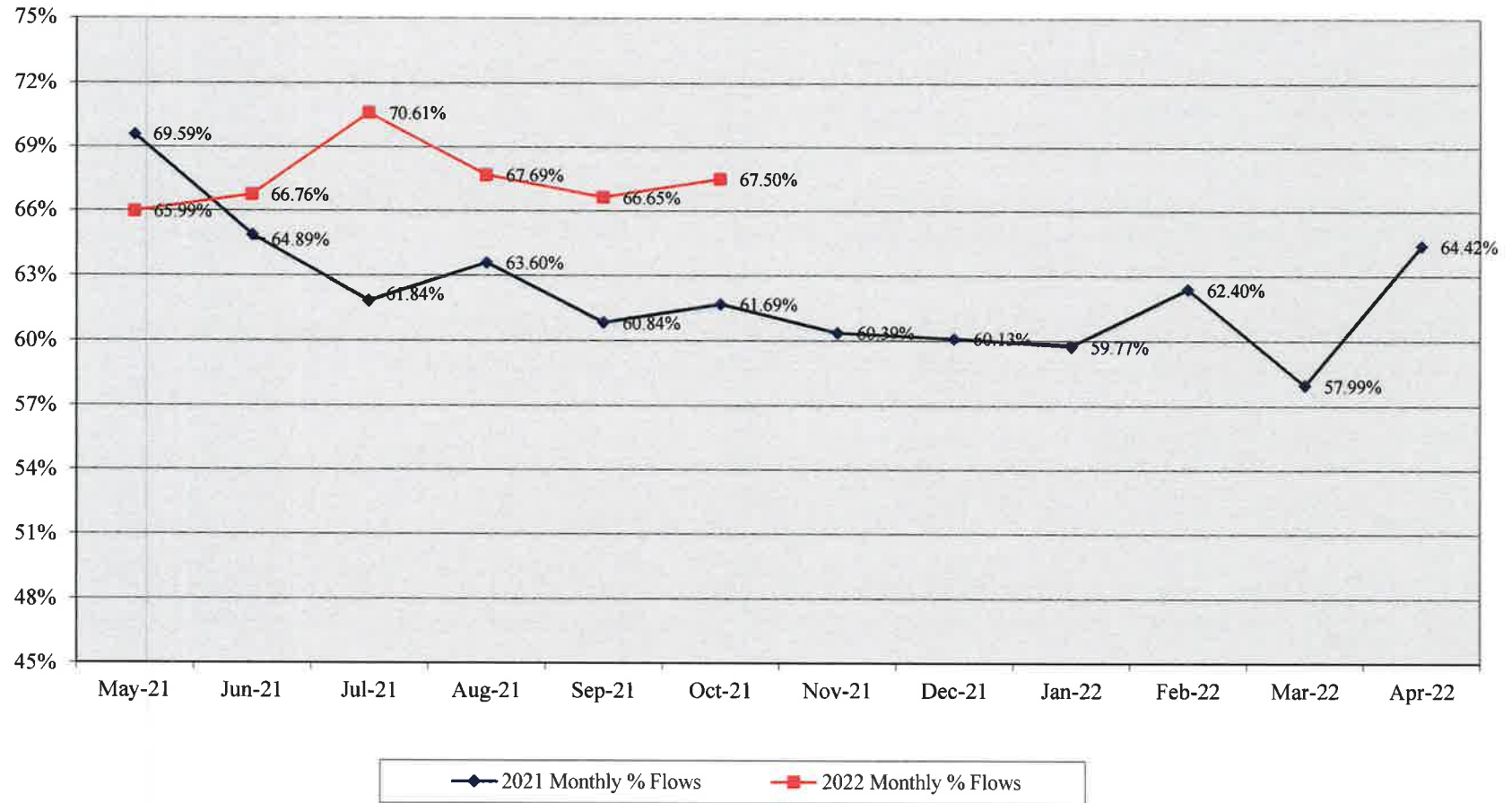
IV-C-3

Kankakee Flows				Bradley Flows				Bourbonnais Flows				Aroma Park Flows				TOTALS	TOTALS
YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	TOTALS	TOTALS
5/31/2019	667.833	66.705%	67.50%	132.185	132.185	13.27%	12.70%	193.143	193.143	19.39%	19.50%	2.933	2.933	0.29%	0.30%	996.094	1.000
6/30/2019	853.380	68.06%	67.50%	156.187	95.690	12.85%	12.70%	257.634	140.808	18.91%	19.50%	2.604	1.314	0.18%	0.30%	744.622	1.000
7/31/2019	1188.348	65.62%	67.50%	223.172	66.985	13.12%	12.70%	364.726	107.092	20.98%	19.50%	4.009	1.405	0.28%	0.30%	510.450	1.000
8/31/2019	1426.054	64.71%	67.50%	263.967	40.795	11.11%	12.70%	452.075	87.348	23.78%	19.50%	5.477	1.468	0.40%	0.30%	367.318	1.000
9/30/2019	1697.774	62.62%	67.50%	315.941	51.974	11.98%	12.70%	560.552	108.477	25.00%	19.50%	7.214	1.737	0.40%	0.30%	433.908	1.000
10/31/2019	2017.292	62.09%	67.50%	386.804	70.863	13.77%	12.70%	682.720	122.168	23.74%	19.50%	9.274	2.060	0.40%	0.30%	514.609	1.000
11/30/2019	2311.302	62.69%	67.50%	451.917	65.113	13.88%	12.70%	791.064	108.344	23.10%	19.50%	10.829	1.555	0.33%	0.30%	469.022	1.000
12/31/2019	2560.652	62.20%	67.50%	507.198	55.281	13.79%	12.70%	886.074	95.010	23.70%	19.50%	12.079	1.250	0.31%	0.30%	400.891	1.000
1/31/2020	2986.352	63.26%	67.50%	604.545	97.347	14.46%	12.70%	1033.268	147.194	21.87%	19.50%	14.824	2.745	0.41%	0.30%	672.986	1.000
2/28/2020	3293.032	60.94%	67.50%	670.115	65.570	13.03%	12.70%	1162.602	129.334	25.70%	19.50%	16.484	1.660	0.33%	0.30%	503.244	1.000
3/31/2020	3624.682	59.83%	67.50%	747.385	77.270	13.94%	12.70%	1306.102	143.500	25.89%	19.50%	18.359	1.875	0.34%	0.30%	554.295	1.000
4/30/2020	3924.342	59.85%	67.50%	820.180	72.795	14.54%	12.70%	1432.611	126.509	25.27%	19.50%	20.059	1.700	0.34%	0.30%	500.664	1.000
	4245.605	63.67%	67.50%	891.868	13.38%				1508.928	22.63%			21.702	0.33%		6668.103	12.000
Kankakee Flows				Bradley Flows				Bourbonnais Flows				Aroma Park Flows				TOTALS	TOTALS
YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	TOTALS	TOTALS
5/31/2020	789.460	69.59%	64.37%	164.256	164.256	14.48%	13.22%	177.175	177.175	15.62%	22.09%	3.597	3.597	0.32%	0.32%	1134.488	1.000
6/30/2020	1076.880	64.89%	64.37%	221.396	57.140	12.90%	13.22%	274.153	96.978	21.89%	22.09%	5.022	1.425	0.32%	0.32%	442.963	1.000
7/31/2020	1362.330	61.84%	64.37%	284.103	62.707	13.59%	13.22%	386.186	112.033	24.27%	22.09%	6.391	1.369	0.30%	0.32%	461.559	1.000
8/31/2020	1564.720	63.60%	64.37%	315.787	31.684	9.96%	13.22%	469.109	82.923	26.06%	22.09%	7.612	1.221	0.38%	0.32%	318.218	1.000
9/30/2020	1750.230	60.84%	64.37%	350.402	34.615	11.35%	13.22%	552.734	83.625	27.43%	22.09%	8.760	1.148	0.38%	0.32%	304.898	1.000
10/31/2020	1928.540	61.69%	64.37%	381.570	31.168	10.78%	13.22%	631.131	78.397	27.13%	22.09%	9.906	1.146	0.40%	0.32%	289.021	1.000
11/30/2020	2100.530	60.39%	64.37%	411.927	30.357	10.66%	13.22%	712.454	81.323	28.56%	22.09%	11.018	1.112	0.39%	0.32%	284.782	1.000
12/31/2020	2290.440	60.13%	64.37%	448.455	36.528	11.56%	13.22%	800.681	88.227	27.93%	22.09%	12.204	1.186	0.38%	0.32%	315.851	1.000
1/31/2021	2504.930	59.77%	64.37%	488.313	39.858	11.11%	13.22%	903.640	102.959	28.69%	22.09%	13.732	1.528	0.43%	0.32%	358.835	1.000
2/28/2021	2741.880	62.40%	64.37%	530.226	41.913	11.04%	13.22%	1003.243	99.603	26.23%	22.09%	14.996	1.264	0.33%	0.32%	379.730	1.000
3/31/2021	3027.860	57.99%	64.37%	597.803	67.577	13.70%	13.22%	1141.533	138.290	28.04%	22.09%	16.321	1.325	0.27%	0.32%	493.172	1.000
4/30/2021	3279.530	64.42%	64.37%	639.472	41.669	10.67%	13.22%	1237.733	96.200	24.62%	22.09%	17.450	1.129	0.29%	0.32%	390.668	1.000
	3279.530	63.383%	64.37%	639.472	12.359%				1237.733	23.921%			17.450	0.337%		5174.185	12.000
Kankakee Flows				Bradley Flows				Bourbonnais Flows				Aroma Park Flows				TOTALS	TOTALS
YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	TOTALS	TOTALS
5/31/2021	346.570	65.99%	63.38%	60.497	60.497	11.52%	12.36%	116.826	116.826	22.24%	23.92%	1.290	1.290	0.25%	0.34%	525.183	1.000
6/30/2021	634.090	66.76%	63.38%	103.540	43.043	9.99%	12.36%	215.789	98.963	22.98%	23.92%	2.480	1.170	0.27%	0.34%	430.696	1.000
7/31/2021	930.320	70.61%	63.38%	137.501	33.961	8.10%	12.36%	304.021	88.232	21.03%	23.92%	3.562	1.102	0.26%	0.34%	419.525	1.000
8/31/2021	1162.810	67.69%	63.38%	166.666	29.165	8.49%	12.36%	384.716	80.695	23.49%	23.92%	4.699	1.137	0.33%	0.34%	343.487	1.000
9/30/2021	1369.410	66.65%	63.38%	193.616	26.950	8.69%	12.36%	460.262	75.546	24.37%	23.92%	5.600	0.901	0.29%	0.34%	309.997	1.000
10/31/2021	1787.590	67.50%	63.38%	265.529	71.913	11.61%	12.36%	587.784	127.522	20.58%	23.92%	7.475	1.875	0.30%	0.34%	619.490	1.000
11/30/2021			63.38%				12.36%				23.92%				0.34%	0.000	0.000
12/31/2021			63.38%				12.36%				23.92%				0.34%	0.000	0.000
1/31/2022			63.38%				12.36%				23.92%				0.34%	0.000	0.000
2/28/2022			63.38%				12.36%				23.92%				0.34%	0.000	0.000
3/31/2022			63.38%				12.36%				23.92%				0.34%	0.000	0.000
4/30/2022			63.38%				12.36%				23.92%				0.34%	0.000	0.000
	1787.590	67.498%		265.529	10.026%				587.784	22.194%			7.475	0.282%		2648.378	6.000

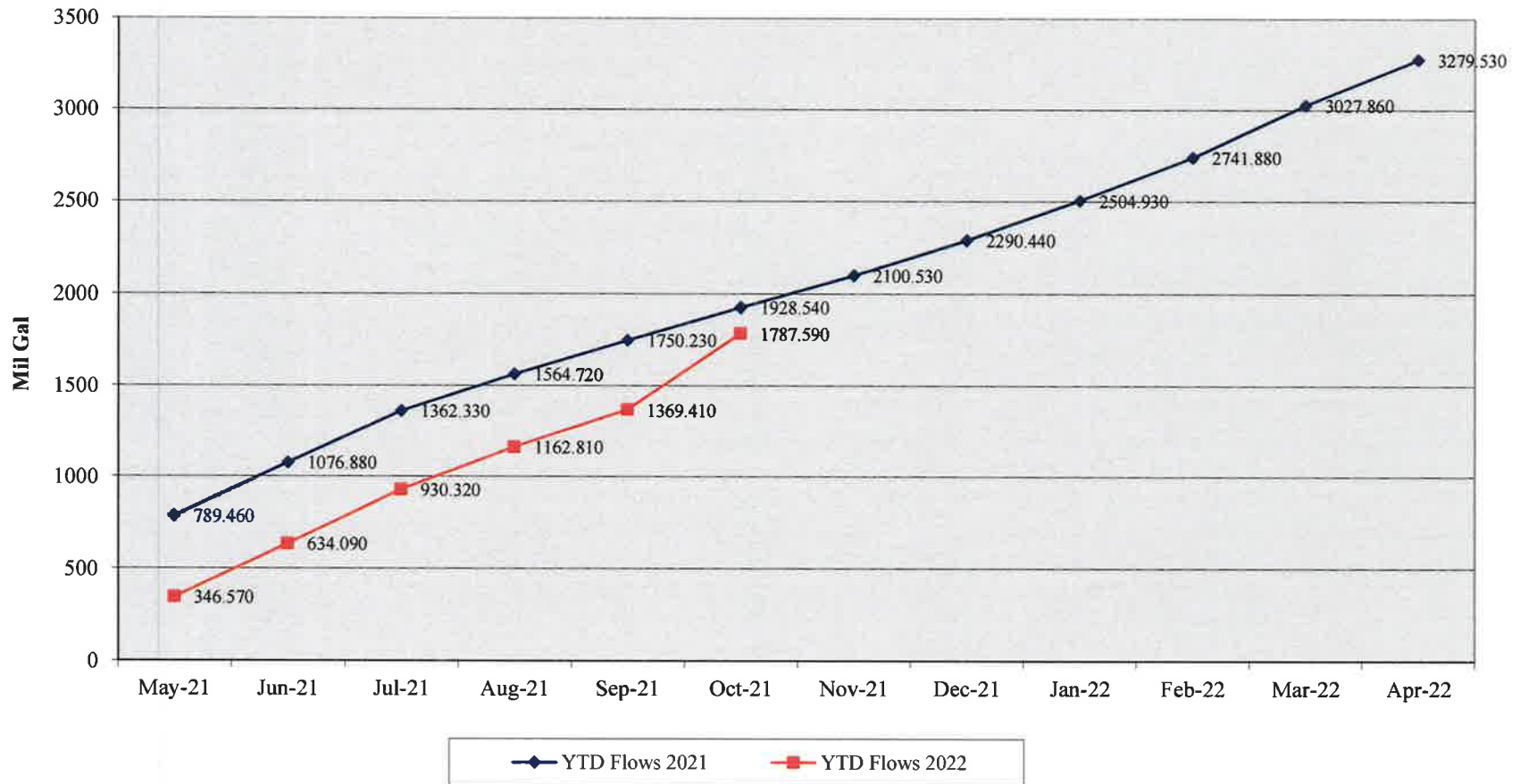
Kankakee River Metropolitan Agency
City of Kankakee
Actual % vs. Estimate FYE 4-30-22



Kankakee River Metropolitan Agency
City of Kankakee
Monthly % Flows - 2021 vs. 2022



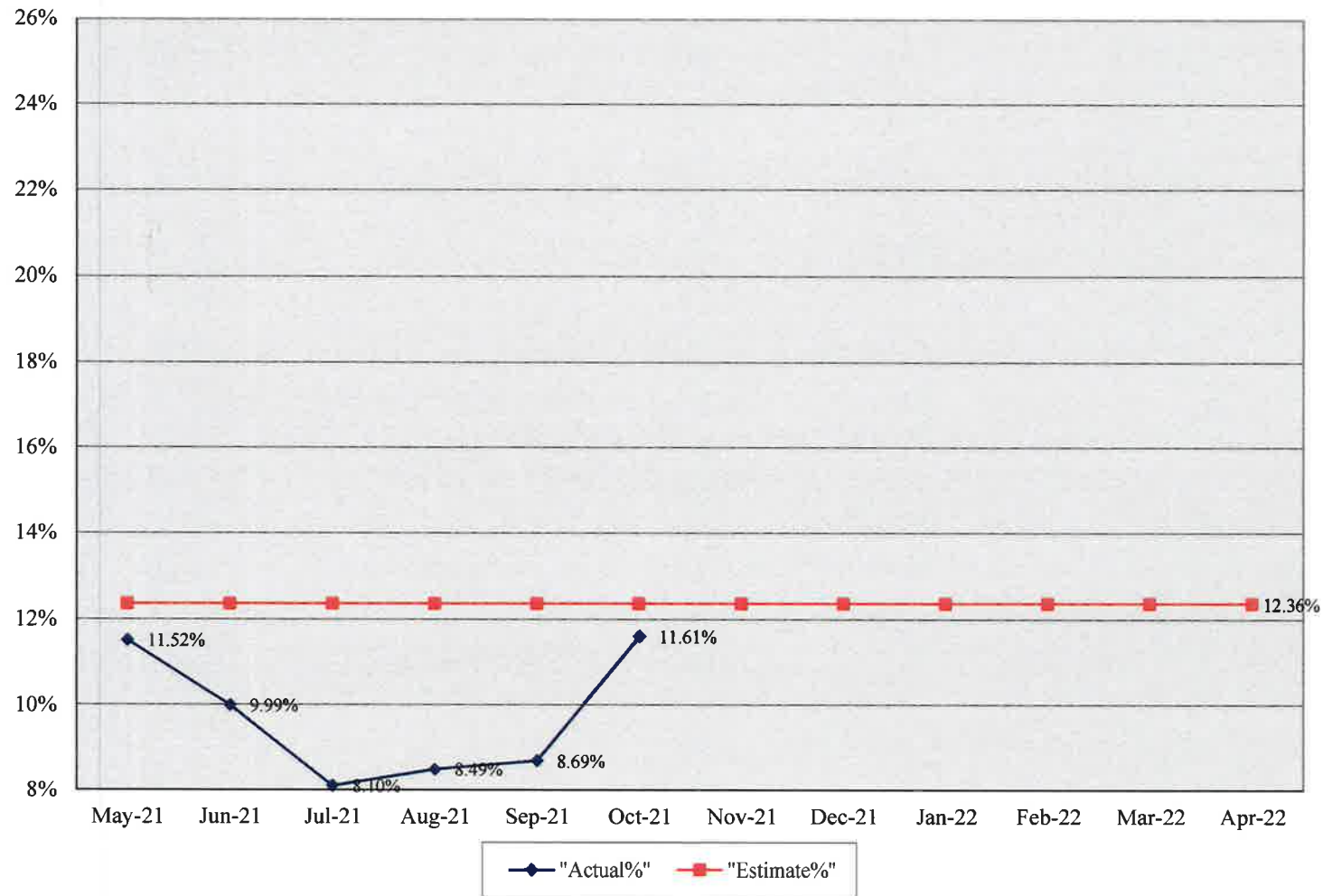
Kankakee River Metropolitan Agency
City of Kankakee
YTD Flows 2021 vs. 2022



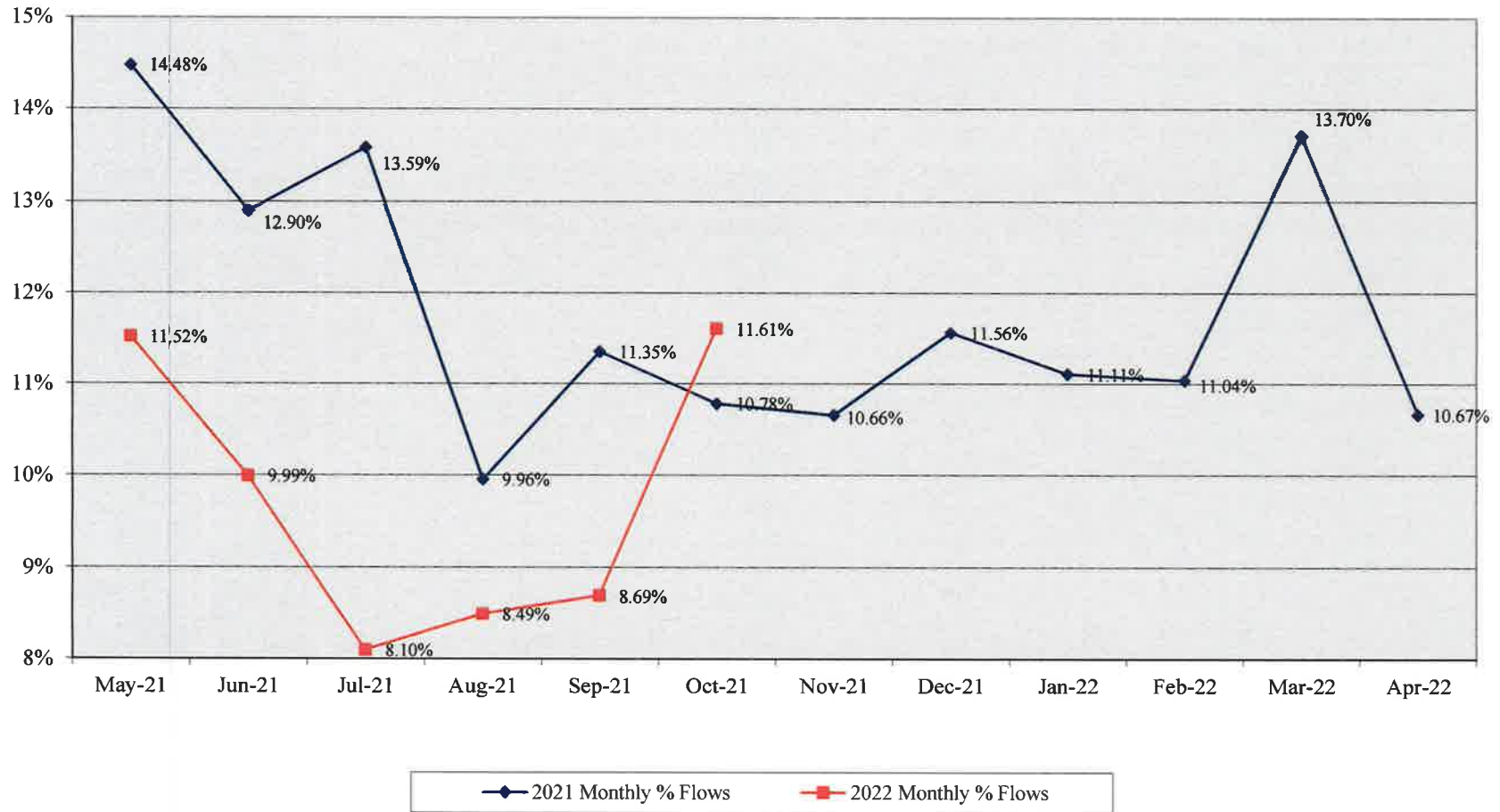
Kankakee River Metropolitan Agency

Village of Bradley

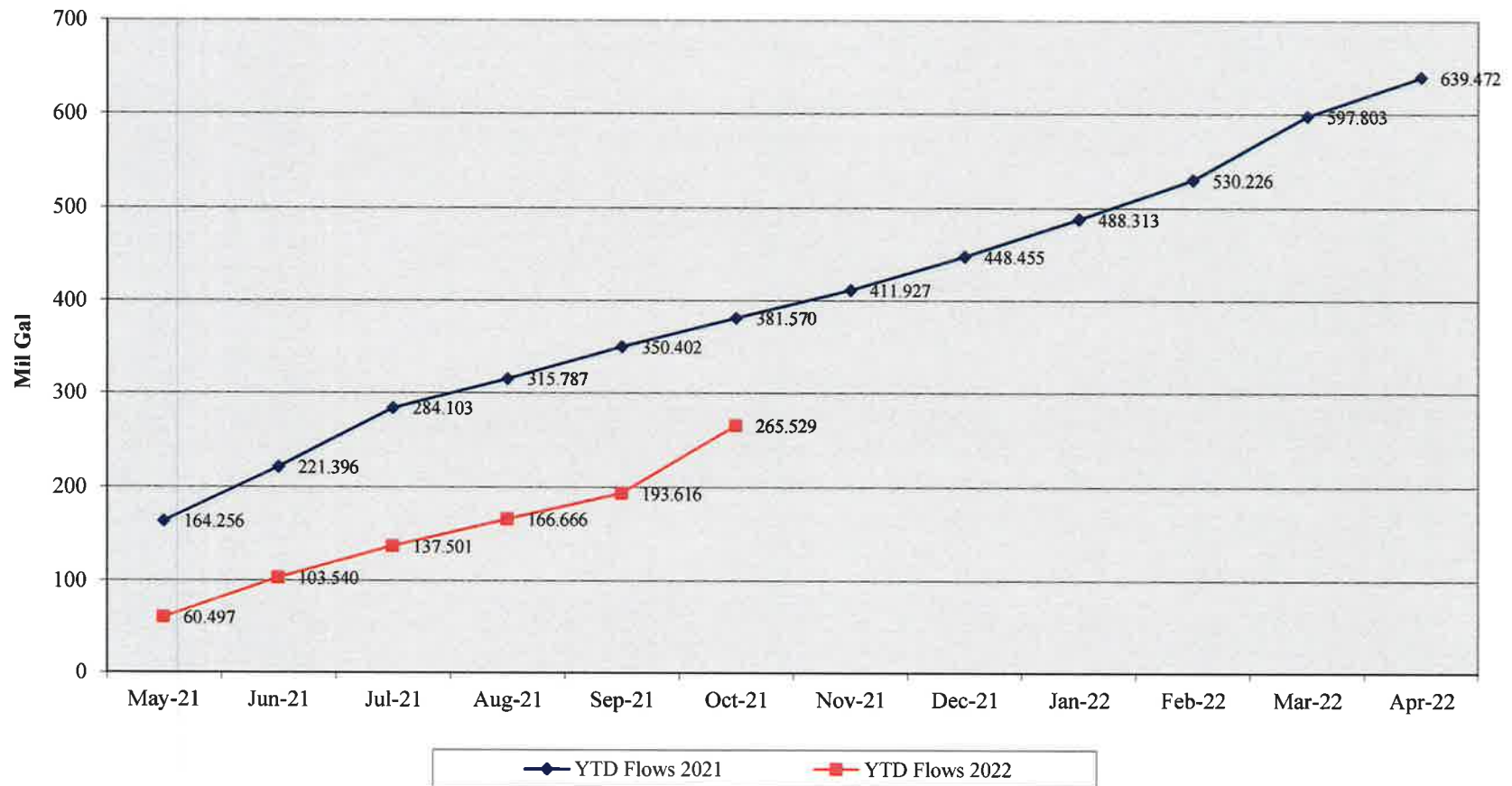
Actual % vs. Estimate FYE 4-30-22



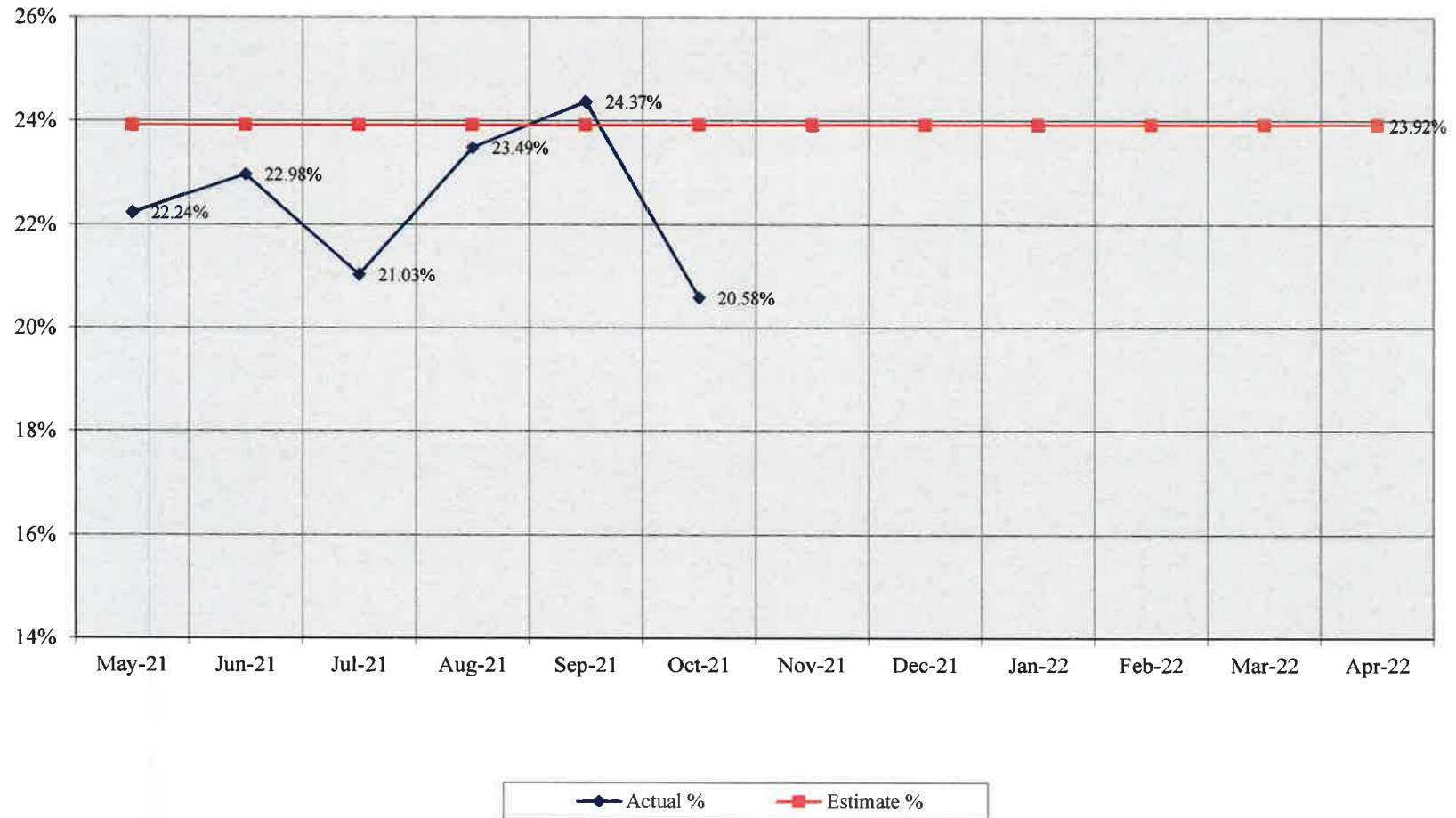
Kankakee River Metropolitan Agency
Village of Bradley
Monthly % Flows 2021 vs. 2022



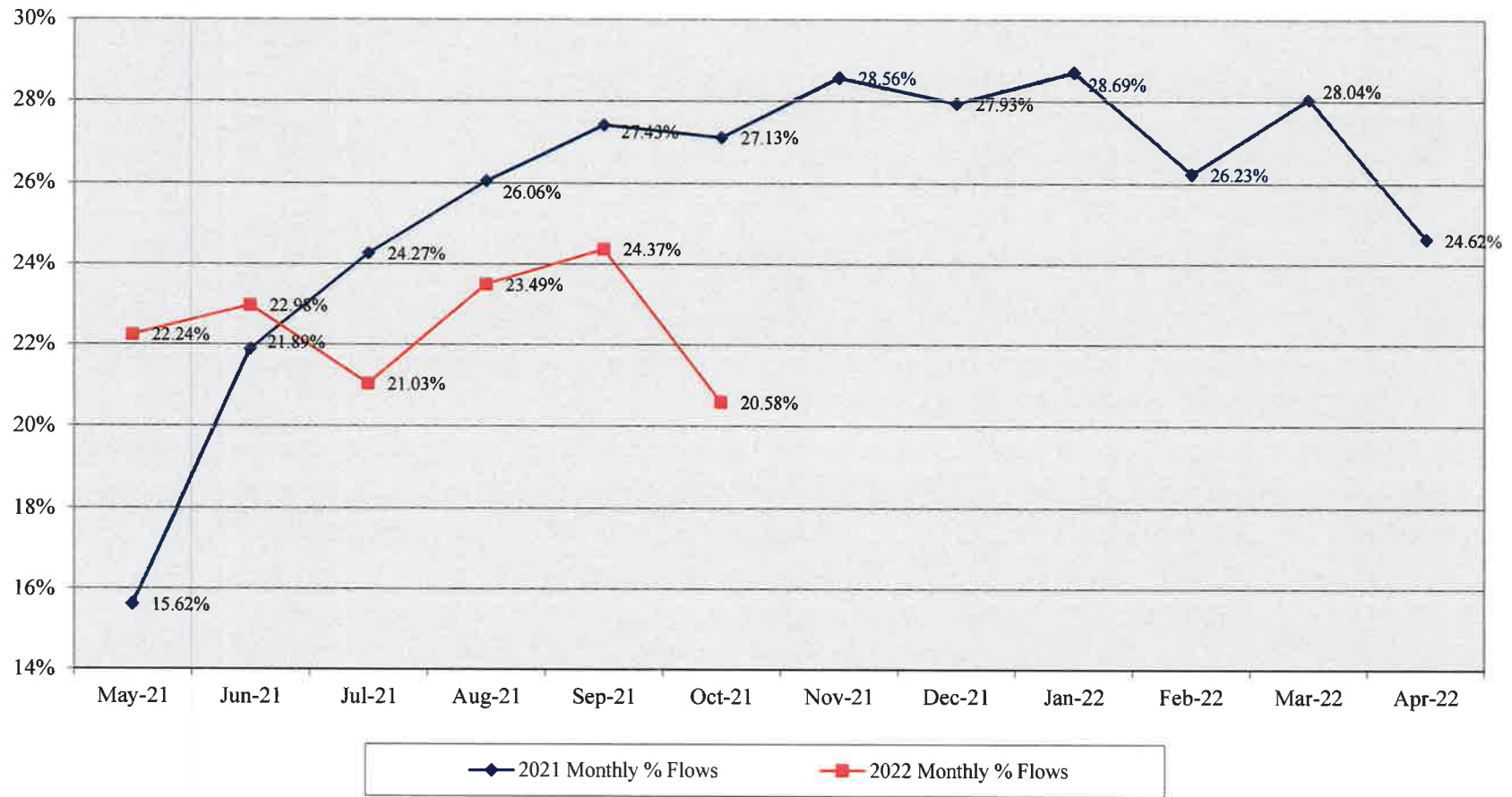
Kankakee River Metropolitan Agency
Village of Bradley
YTD Flows 2021 vs. 2022



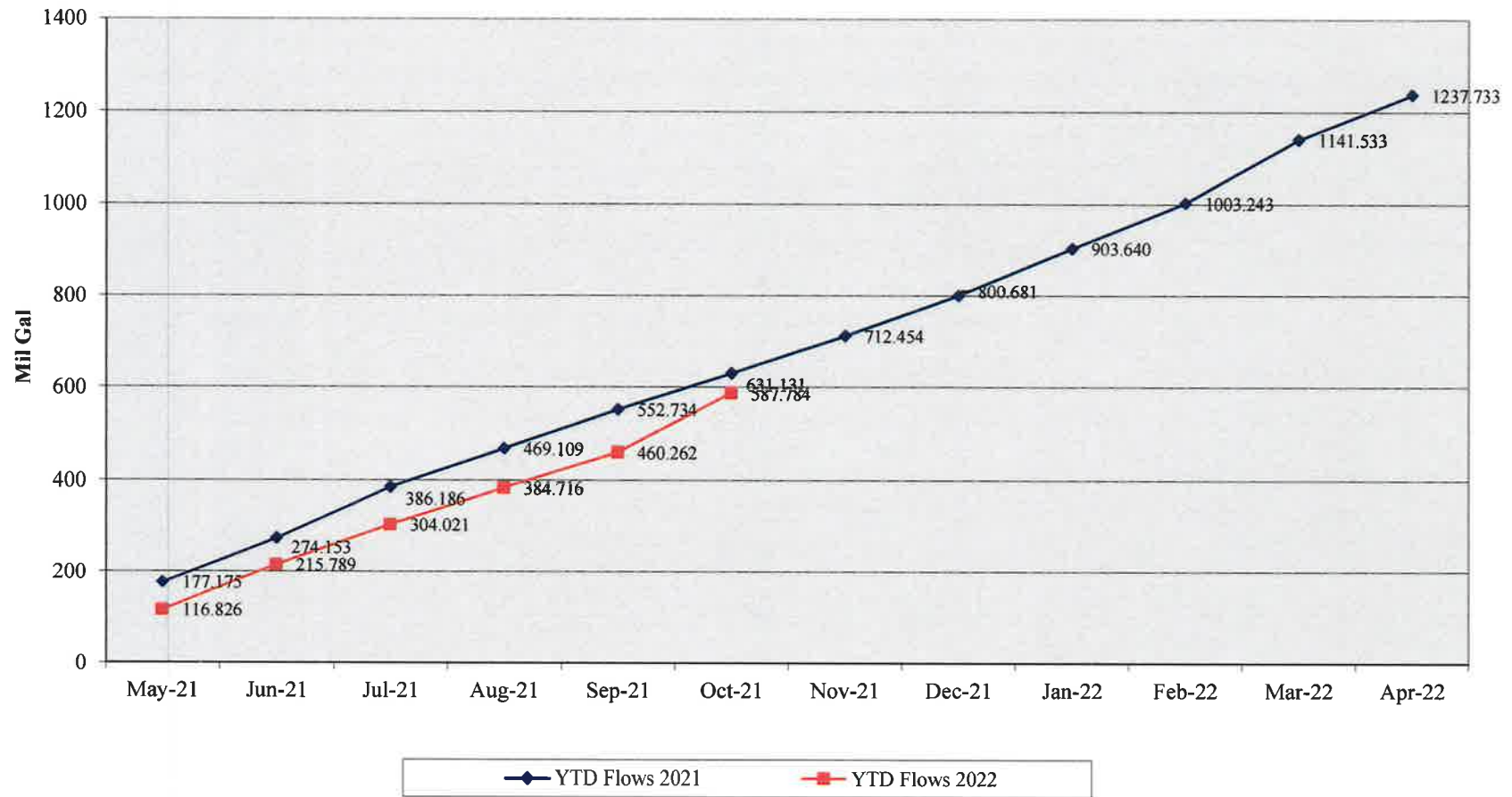
Kankakee River Metropolitan Agency
Village of Bourbonnais
Actual % vs. Estimate FYE 4-30-22



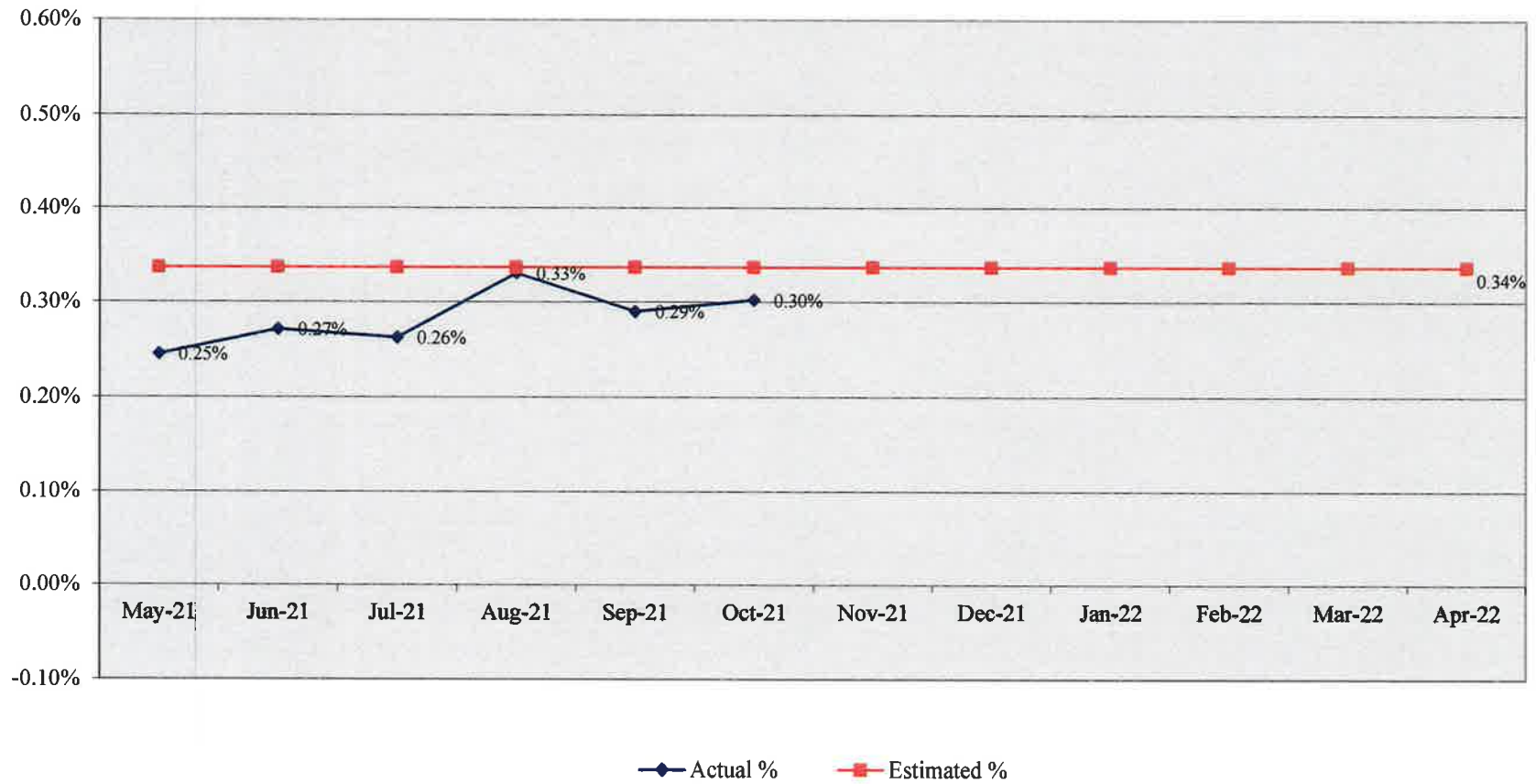
Kankakee River Metropolitan Agency
Village of Bourbonnais
Monthly % Flows - 2021 vs. 2022



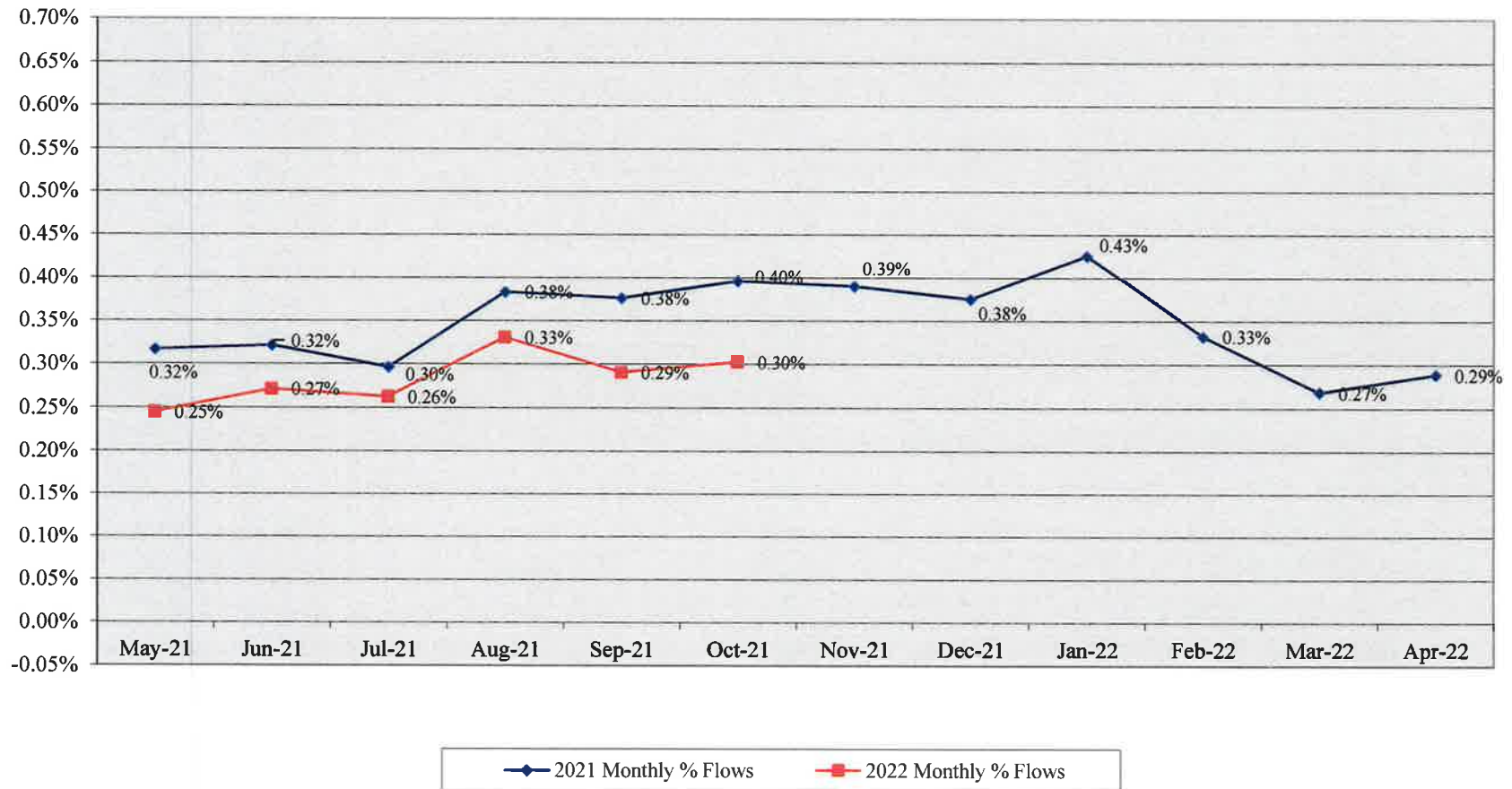
**Kankakee River Metropolitan Agency
Village of Bourbonnais
YTD Flows 2021 vs. 2022**



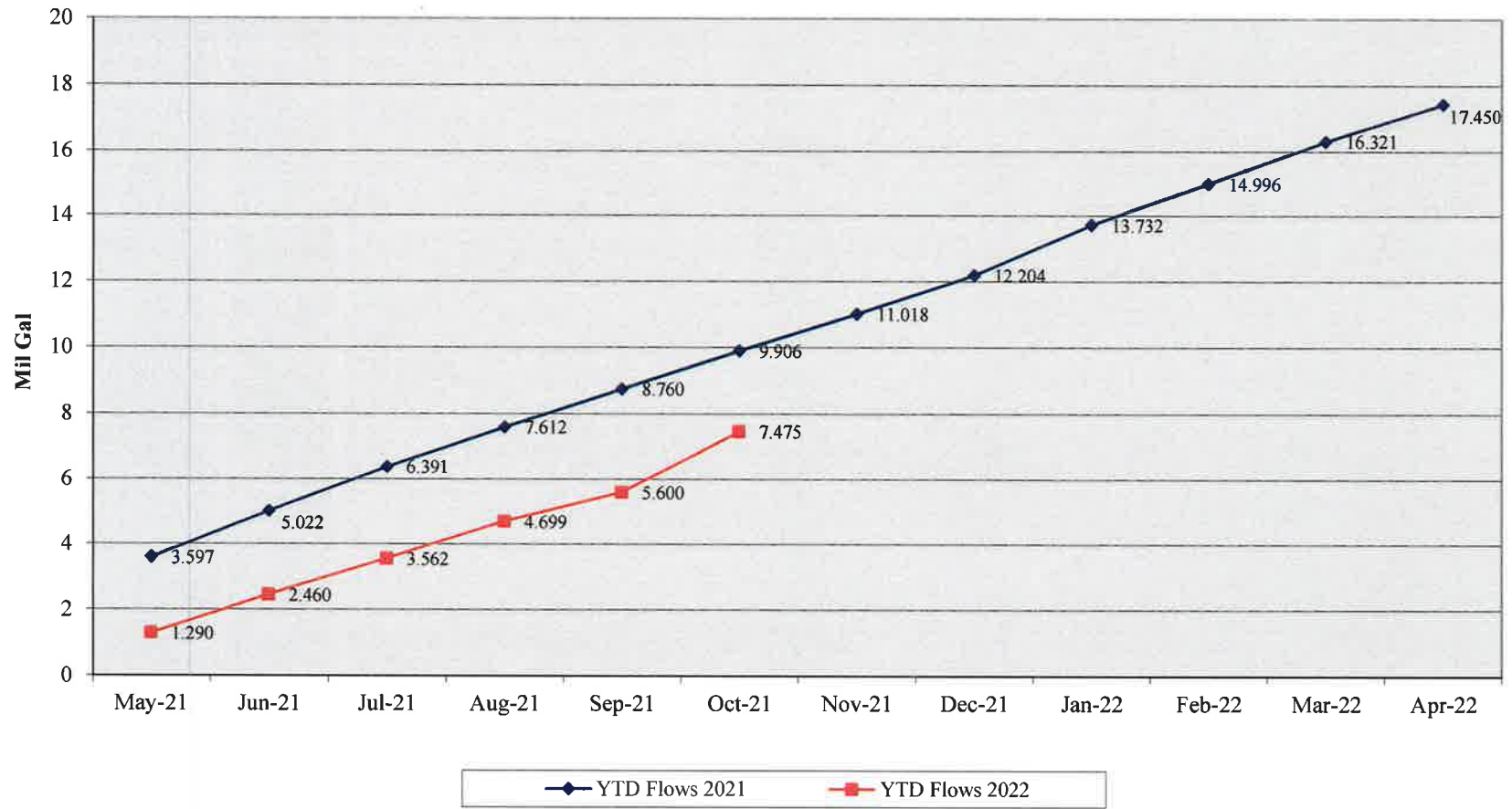
Kankakee River Metropolitan Agency
Village of Aroma Park
Actual % vs. Estimate FYE 4-30-22



Kankakee River Metropolitan Agency
Village of Aroma Park
Monthly % Flows - 2021 vs. 2022



Kankakee River Metropolitan Agency
Village of Aroma Park
YTD Flows 2021 vs. 2022



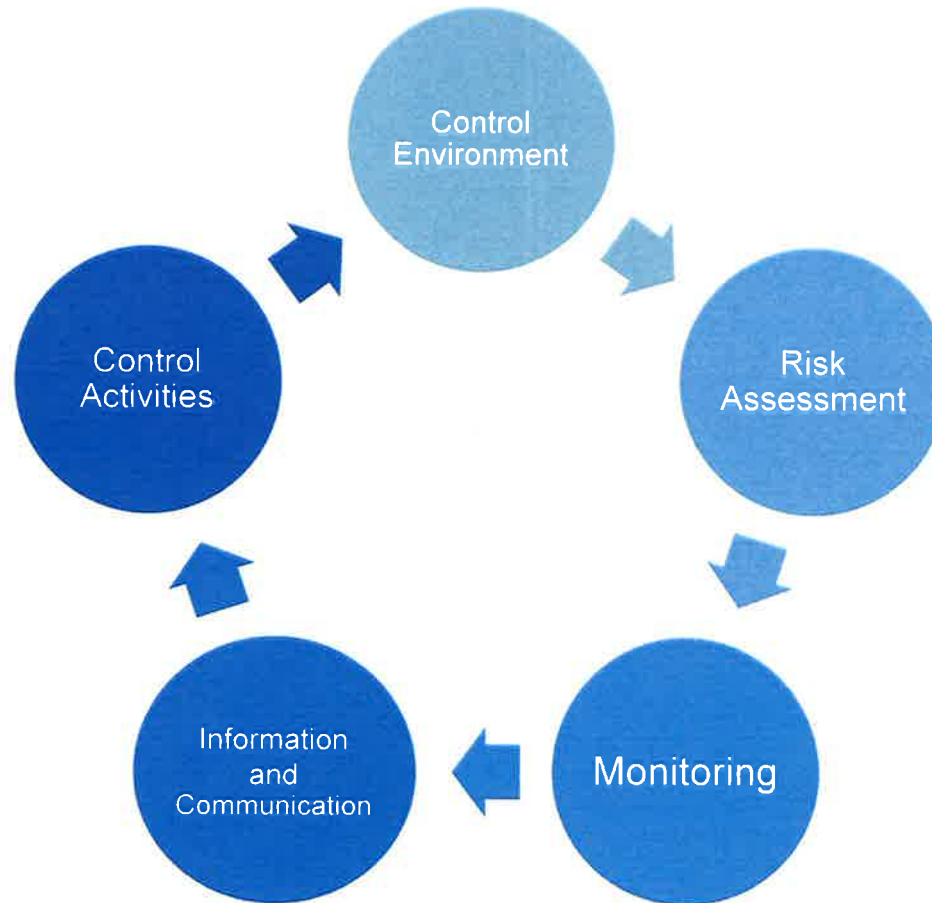
Flows
KRMA Treatment Facility
October, 2021

Date	PRECIPITA INCHES	PLANT MGD	Kankakee MGD	BOURB. MGD	BradleyFlow MGD	AromaPark MGD
10/1/2021	0.00	9.35	6.26	2.276	0.777	0.037
10/2/2021	0.00	14.94	10.37	2.700	1.834	0.037
10/3/2021	1.59	17.65	11.34	3.901	2.377	0.037
10/4/2021	0.00	18.15	13.04	3.022	2.057	0.037
10/5/2021	0.00	15.37	11.01	2.668	1.655	0.038
10/6/2021	0.42	12.99	8.82	2.620	1.521	0.028
10/7/2021	0.20	15.15	9.51	3.493	2.113	0.034
10/8/2021	0.22	15.59	10.52	3.089	1.964	0.036
10/9/2021	0.00	14.05	9.30	2.938	1.775	0.036
10/10/2021	0.00	12.62	8.10	2.840	1.643	0.036
10/11/2021	0.74	14.63	9.29	3.288	2.019	0.036
10/12/2021	0.00	17.13	10.89	3.735	2.460	0.048
10/13/2021	1.06	18.17	12.24	3.869	1.999	0.057
10/14/2021	0.08	22.26	15.11	5.040	2.034	0.073
10/15/2021	0.24	22.39	16.30	4.011	2.033	0.053
10/16/2021	0.00	18.19	12.42	3.683	2.027	0.053
10/17/2021	0.00	16.18	10.81	3.289	2.022	0.053
10/18/2021	0.00	14.52	9.37	3.080	2.024	0.039
10/19/2021	0.00	13.93	8.91	2.959	2.022	0.038
10/20/2021	0.00	13.08	8.15	2.867	2.023	0.036
10/21/2021	0.00	12.70	7.87	2.766	2.023	0.038
10/22/2021	0.00	12.68	7.98	2.620	2.020	0.060
10/23/2021	0.00	12.04	7.33	2.634	2.021	0.060
10/24/2021	3.05	22.54	13.92	6.283	2.276	0.060
10/25/2021	0.13	43.01	28.45	11.868	2.542	0.148
10/26/2021	0.00	43.27	32.73	6.221	4.212	0.113
10/27/2021	0.00	33.37	25.13	4.653	3.508	0.085
10/28/2021	0.71	27.36	19.09	4.842	3.328	0.096
10/29/2021	0.43	32.30	20.08	7.799	4.316	0.125
10/30/2021	0.00	32.53	21.29	7.108	4.005	0.125
10/31/2021	0.00	31.37	22.58	5.380	3.288	0.125
Total	8.87	619.49	418.18	127.522	71.913	1.875
Average	0.29	19.98	13.49	4.114	2.320	0.060
Minimum	0.00	9.35	6.26	2.276	0.777	0.028
Maximum	3.05	43.27	32.73	11.868	4.316	0.148
# of data	31	31	31	31	31	31

KRMA INTERNAL CONTROLS

Board Presentation - 11/18/2021

Internal Control Framework



Types of Internal Controls

- ▷ Preventive
- ▷ Detective
- ▷ Corrective

Preventive Internal Controls

- ▷ Decrease the chance of errors before they occur
- ▷ Examples
 - Separation of duties – you generally want different people to initiate/authorize transactions, input, reconcile, custody of assets
 - Controlling access (passwords, permissions)

Detective Internal Controls

- ▷ Find errors after the transaction has occurred
- ▷ Examples
 - Monthly reconciliations
 - Reviewing budget to actual

Corrective Internal Controls

- ▶ New controls to correct errors found through detective controls
- ▶ Examples
 - New policies
 - New controls

Cash Disbursement Controls

▷ Preventive

- ▷ **All invoices approved by Plant Supervisor (Plant Supervisor does not have check signing ability or payment/transfer access to bank accounts)
- ▷ Approved invoices are summarized by the KRMA Office Coordinator and sent to the SKDO Bookkeeper for accounting and check creation (SKDO does not have check signing ability or payment access to bank accounts. SKDO can only initiate a transfer between two KRMA bank accounts)
- ▷ **Checks are sent for signature. Two authorized signatures are required (authorized signers= 4 board members, one from each municipality)

▷ Detective

- ▷ SKDO prepares the monthly bank reconciliation (we have only entered the authorized transactions so if other transactions appear in bank activity we will need to follow up)
- ▷ Full list of checks paid each month and detail General Ledger activity is provided to the board on a monthly basis
- ▷ Financial statements that compare budget to actual amounts are provided to the board on a monthly basis

▷ Corrective

- ▷ Items above marked with ** have been modified or corrected to reduce risk

Other Controls

▷ Preventive

- ▷ Receipts are received by the KRMA Office Coordinator and forwarded to SKDO Bookkeeper to endorse and deposit into the KRMA bank account through remote capture (SKDO does not have any payment access to bank)
- ▷ The KRMA Office Coordinator prepares the payroll input sheet with hours submitted by the employees which is approved and signed by the Plant Supervisor
- ▷ Non-service purchases over \$20,000 are bid out
- ▷ No authorized check signer has payment or transfer access to KRMA's bank accounts
- ▷ The only transfers that are initiated by SKDO have been pre-approved and scripted by the bank to send the IEPA payments and transfers between Midland Bank accounts

▷ Detective

- ▷ SKDO prepares the monthly bank reconciliation (we have only entered the authorized transactions so if other transactions appear in bank activity we will need to follow up)
- ▷ Full list of checks written each month and detail General Ledger activity is provided to the board on a monthly basis
- ▷ Financial statements with that compare budget to actual amounts are provided to the board on a monthly basis

Internal Control Framework





Questions?

FYI - The full accounting memo of internal controls mentioned is available for your review.