

Amador Regional Sanitation Authority

“Servicing Amador City, Martell, & Sutter Creek”

AGENDA

SEPTEMBER 28, 2022

10:00 A.M. REGULAR Meeting

10:30 A.M. CLOSED Session

33 Church Street, Sutter Creek CA 95685

The Agenda can be found on the City of Sutter Creek’s Website: www.cityofsuttercreek.org

THIS MEETING WILL BE CONDUCTED IN-PERSON AT 33 CHURCH STREET

and available by Zoom:

Join Zoom Meeting

<https://us02web.zoom.us/j/9568520224>

or

Dial by phone:

301-715-8592

Meeting ID: 956 852 0224

Public comment will be accepted by email at info@cityofsuttercreek.org. All emails must be received prior to the start of the meeting.

- 10:00 a.m.**
- 1. REGULAR MEETING: CALL TO ORDER AND ESTABLISH A QUORUM –**
 - 2. PLEDGE OF ALLEGIANCE TO THE FLAG**
 - 3. PUBLIC FORUM**
Discussion items only, no action to be taken. Any person may address the Board at this time upon any subject within the jurisdiction of the Amador Regional Sanitation Authority; however, any matter that requires action may be referred to staff and/or Committee for a report and recommendation for possible action at a subsequent Board meeting. Please note – there is a five (5) minute limit per topic.
 - 4. INFORMATION/CORRESPONDENCE**
This section provides informational updates regarding staff activities and operations where no Board action is required.
 - A. Engineer’s Report**
For information only.
 - 5. CONSENT AGENDA**
Items listed on the consent agenda are considered routine and may be enacted in one motion. Any item may be removed for discussion at the request of the Board or the Public.
 - A. Minutes of August 31, 2022**
Recommendation: Approve Minutes of August 31, 2022

B. Minutes of September 16, 2022

Recommendation: Approve Minutes of September 16, 2022

C. Approval of Warrants

Recommendation: Approve warrants.

D. 2021-22 Budget Update

Recommendation: For information only.

E. System Status Report

Recommendation: For information only.

6. GENERAL MANAGER'S REPORT

7. BOARD MEMBER REPORTS

8. CLOSED SESSION

A. CONFERENCE WITH LEGAL COUNSEL- EXISTING LITIGATION

Pursuant to Gov. Code § 54956.9(d)(1):

Amador Regional Sanitation Authority v. City of Ione, et al.

(Case No. 22-CV-12824)

9. REPORT FROM CLOSED SESSION

ADJOURN

Amador Regional Sanitation Authority

"Servicing Amador City, Martell, & Sutter Creek"

TO: ARSA BOARD OF DIRECTORS
MEETING DATE: SEPTEMBER 28, 2022
FROM: MATT OSPITAL, PE *MSO*
SUBJECT: PROJECT STATUS UPDATE

The following is a status update of all projects WGA is currently working on:

1. **Henderson Underdrain Repair** – Revised plans and response to initial round of DSOD comments was submitted to DSOD at the end of May. I reached out to DSOD on September 15th to inquire about the current status of the second round of reviews. I was told that the District would be receiving comments within the next couple of weeks. Depending on the amount of precipitation this winter, the current plan would be to bid the project in early 2023 and commence construction late summer 2023. Stantec (design engineers) recommended the District purchase some of the long lead materials items (piping) to help with construction schedule.
2. **CIP** – Continuing cost estimates and exhibits for various capital improvement projects.
3. **Preston and Henderson Reservoir Dam Emergency Action Plans (EAPs)** – The Emergency Action Plans are being updated per the most recent state review and the EAP team has commenced with coordinating reviews with all local and state safety agencies required to be a part of the EAP process. Once coordination with the safety agencies has been completed the EAPs will undergo an additional submittal to the State for review.

Amador Regional Sanitation Authority

“Servicing Amador City, Martell, & Sutter Creek”

MINUTES SPECIAL MEETING OF THE BOARD OF DIRECTORS August 31, 2022

Present:

Robin Peters, Chairman
Richard Forster, Vice Chairman
Susan Bragstad, Board Member (zoom)
Jim Swift, Board Member
Frank Axe, Board Member

Staff Present:

Amy Gedney
Karen Darrow
Frank Splendorio
Shawn Haggerty (zoom)

1. REGULAR MEETING: CALL TO ORDER AND ESTABLISH A QUORUM

Meeting called to order by Chairman Peters at 1:00 P.M.

2. PLEDGE OF ALLEGIANCE TO THE FLAG

Chairman Peters led the Pledge of Allegiance.

3. PUBLIC FORUM

Jim Scully of Ione suggested that ARSA needs to be proactive in regards to staying out of trouble caused by the dishonesty of sister agencies Ione and CDCR. ARSA needs to protect its' ratepayers.

4. INFORMATION/CORRESPONDENCE- None.

5. CONSENT AGENDA

Items listed on the consent agenda are considered routine and may be enacted in one motion. Any item may be removed for discussion at the request of the Board or the Public.

A. Minutes of July 27, 2022

Recommendation: Approve Minutes of July 27, 2022

M/S Forster/Axe to Approve the Minutes of July 27, 2022, as amended.

AYES: Axe, Bragstad, Forster, Swift and Peters

NOES: None

ABSTAIN: None

ABSENT: None

MOTION CARRIED

B. Approval of Warrants

Recommendation: Approve warrants.

C. 2021-22 Budget Update

Recommendation: For information only.

M/S Axe/Forster to Approve Item B & C, as presented.

AYES: Axe, Bragstad, Forster, Swift and Peters

NOES: None

ABSTAIN: None

ABSENT: None

MOTION CARRIED

D. System Status Report

Recommendation: For information only.

M/S Axe/Swift to Approve Item D, as presented.

AYES: Axe, Bragstad, Forster, Swift and Peters

NOES: None

ABSTAIN: None

ABSENT: None

MOTION CARRIED

6. GENERAL MANAGER'S REPORT

General Manager Gedney noted that Hoskins is being irrigated from Henderson and that it is in good shape.

7. BOARD MEMBER REPORTS- None.

8. CLOSED SESSION

A. CONFERENCE WITH LEGAL COUNSEL—ANTICIPATED LITIGATION
Significant exposure to litigation pursuant to 54956.9(d)(2): One Case

B. CONFERENCE WITH LEGAL COUNSEL—ANTICIPATED LITIGATION
Initiation of litigation pursuant to 54956.9(d)(4): One Case

9. REPORT FROM CLOSED SESSION

No reportable action.

ADJOURN

The meeting was adjourned at 2:45 p.m.

Karen Darrow, Secretary

Robin Peters, Chairman

Date Approved:

*A*_{mador} *R*_{egional} *S*_{anitation} *A*_{uthority}

“Servicing Amador City, Martell, & Sutter Creek”

MINUTES SPECIAL MEETING OF THE BOARD OF DIRECTORS September 16, 2022

Present:

Robin Peters, Chairman

Richard Forster, Vice Chairman

Susan Bragstad, Board Member

Jim Swift, Board Member

Absent: Frank Axe, Board Member (medical)

Staff Present:

Amy Gedney

Karen Darrow

Frank Splendorio

Matt Green (via zoom)

Shawn Hagerty (via zoom)

1.	CALL TO ORDER AND ESTABLISH A QUORUM Meeting called to order by Chairman Peters at 10:33 A.M.
2.	PLEDGE OF ALLEGIANCE TO THE FLAG Chairman Peters led the Pledge of Allegiance.
3.	PUBLIC FORUM- None.
4.	CLOSED SESSION A. CONFERENCE WITH LEGAL COUNSEL—ANTICIPATED LITIGATION Significant exposure to litigation pursuant to 54956.9(d)(2): One Case B. CONFERENCE WITH LEGAL COUNSEL—ANTICIPATED LITIGATION Initiation of litigation pursuant to 54956.9(d)(4): One Case
5.	REPORT FROM CLOSED SESSION The Board met in closed session regarding initiation of litigation, and has given approval by a 4-0 vote (with Frank Axe absent), to initiate an action. The action, the defendant or defendants, and the other particulars shall, once formally commenced, be disclosed to any person upon inquiry, unless to do so would jeopardize ARSA’s ability to effectuate service of process on one or more unserved parties, or that to do so would jeopardize ARSA’s ability to conclude any settlement negotiations to its advantage.
6.	ADJOURN The meeting was adjourned at 11:34 p.m.

Karen Darrow, Secretary

Robin Peters, Chairman

Date Approved:

Amador Regional Sanitation Authority (ARSA)
Warrant list
September 2022

Date	Name/Account	Type	Num	Amount
	City of Sutter Creek	Check	1684	
09/12/2022	Contract with COSC	Bill	2022-09	20,812.75
09/12/2022	Overtime	Bill	2022-09	10,098.77
09/12/2022	Equipment O&M	Bill	2022-09	1,993.37
09/12/2022	Vehicle Repairs	Bill	2022-09	35.31
09/12/2022	Repairs & Maintenance	Bill	2022-09	164.68
TOTAL				33,104.88
	Hunt & Sons, Inc.	Check	1685	
08/31/2022	Fuel	Bill	664919	324.73
09/15/2022	Fuel	Bill	714649	348.49
TOTAL				673.22
	Ione ACE Hardware	Check	1686	
08/30/2022	Repairs & Maintenance	Bill	B166074	98.40
08/31/2022	Repairs & Maintenance	Bill	A435446	32.70
09/19/2022	Repairs & Maintenance	Bill	A438018	103.80
TOTAL				234.90

Budget vs. Actual

July through August 2022

	Budget	Jul - Aug 22	% of Budget	YE Projections
Income				
Interest Income	150.00	8.46	5.64%	150.00
Reimbursed Expenses	19,000.00	0.00	0.0%	19,000.00
Use Fee Revenue				
Amador City	18,823.00	4,705.75	25.0%	18,823.00
Amador Water Agency	95,768.00	0.00	0.0%	95,768.00
City of Sutter Creek	521,321.00	0.00	0.0%	521,321.00
Total Use Fee Revenue	635,912.00	4,705.75	0.74%	635,912.00
Total Income	655,062.00	4,714.21	0.72%	655,062.00
Expense				
Employee Services				
Contract with COSC	249,753.00	35,291.08	14.13%	249,753.00
Overtime	15,000.00	8,874.93	59.17%	15,000.00
Operations				0.00
Audit & Accounting	6,000.00	4,500.00	75.0%	6,000.00
Contingency	50,860.00	0.00	0.0%	50,860.00
Engineering				0.00
Inundation mapping	10,000.00	228.00	2.28%	10,000.00
Engineering - Other	25,000.00	1,429.90	5.72%	25,000.00
Flood Control	2,100.00	0.00	0.0%	2,100.00
Fuel	13,000.00	1,847.40	14.21%	13,000.00
General Supplies	500.00	0.00	0.0%	500.00
Legal	50,000.00	3,478.08	6.96%	50,000.00
Membership Dues	1,700.00	309.44	18.2%	1,700.00
O&M Building/Structures	1,500.00	0.00	0.0%	1,500.00
Repairs & Maintenance	20,000.00	681.09	3.41%	20,000.00
Risk Management - Liability	21,000.00	21,005.00	100.02%	21,000.00
Taxes/Fees/Licenses	68,000.00	1,402.21	2.06%	68,000.00
Tertiary Treatment Fees	95,000.00	16,992.75	17.89%	95,000.00
Vehicle Maintenance	5,000.00	0.00	0.0%	5,000.00
Weed Control	1,500.00	0.00	0.0%	1,500.00
Total Expense	635,913.00	96,039.88	15.1%	635,913.00

Amador Regional Sanitation Authority (ARSA)

09/20/22

Balance Sheet

Accrual Basis

As of August 31, 2022

	Aug 31, 22
ASSETS	
Current Assets	
Checking/Savings	
10000 · Checking - Umpqua	455,283.17
10010 · Savings - Umpqua	297,123.92
Total Checking/Savings	752,407.09
Accounts Receivable	
11000 · Accounts Receivable	631,206.25
Total Accounts Receivable	631,206.25
Total Current Assets	1,383,613.34
Fixed Assets	
101707 · Capital Replacement Fund	292,432.03
101708 · ARSA District	15,588.59
150620 · Long Term Assets Structures	1,884,800.13
150621 · Long Term Assets Structures Dep	-1,884,800.15
150630 · Long Term Assets Equipment	151.00
150631 · Long Term Assets Equipment Depr	-151.00
35000 · Investment in Capital Assets	841,648.00
Total Fixed Assets	1,149,668.60
Other Assets	
120000 · Note Receivable	450,000.00
120100 · Accrued Interest Receivable	166,430.19
Total Other Assets	616,430.19
TOTAL ASSETS	3,149,712.13
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
20000 · Accounts Payable	310.09
Total Accounts Payable	310.09
Total Current Liabilities	310.09
Total Liabilities	310.09
Equity	
30000 · Opening Balance Equity	2,956,020.55
32000 · Retained Earnings	-389,647.61
Net Income	583,029.10
Total Equity	3,149,402.04
TOTAL LIABILITIES & EQUITY	3,149,712.13

1:40 PM

09/20/22

Amador Regional Sanitation Authority (ARSA)

Reconciliation Summary

10000 - Checking - Umpqua, Period Ending 08/31/2022

	Aug 31, 22
Beginning Balance	546,613.19
Cleared Transactions	
Checks and Payments - 12 items	-66,253.49
Deposits and Credits - 1 item	4.11
Total Cleared Transactions	-66,249.38
Cleared Balance	480,363.81
Uncleared Transactions	
Checks and Payments - 6 items	-29,786.39
Deposits and Credits - 1 item	4,705.75
Total Uncleared Transactions	-25,080.64
Register Balance as of 08/31/2022	455,283.17
New Transactions	
Deposits and Credits - 2 items	154,272.25
Total New Transactions	154,272.25
Ending Balance	609,555.42

Date	Sutter Creek WWTP Flow (mg)	Sutter Creek WWTP (ac ft)	Bowers Irrigation (mg)	Bowers Volume irrigated (ac ft)	Henderson Freeboard	Volume in Henderson (af)	Henderson Outflow (mg)	Henderson outflow (ac ft)	Hoskins Irrigation (mg)	Hoskins Volume irrigated (ac ft)	Mule Creek Inflow (mg)	Mule Creek Inflow (ac ft)	Preston Freeboard	Volume in Preston (af)	Outflow to Ione (mg)	Volume sent to Ione (ac ft)	TOTAL Ac Ft of Effluent in the system	TOTAL Remaining Capacity for Winter (ac ft)	TOTAL USED FOR IRRIGATION (ac ft)
2014																		0.0	
1/31/2014	6.8	20.9	0.0	0.0	15'8"	97.4	7.1	21.8	0.0	0.0	3.4	10.4	17'1"	40.9	0.0	0.0		489.7	0.0
2/28/2014	12.3	37.7	0.0	0.0	11'5"	168.1	5.5	16.9	0.0	0.0	12.1	37.1	11'9"	90.0	0.0	0.0	258.15	369.9	0.0
3/31/2014	13.9	42.7	0.0	0.0	8"	238.5	7.3	22.4	0.0	0.0	0.0	0.0	13'2"	75.1	0.0	0.0	313.63	314.4	0.0
4/30/2014	11.0	33.8	0.0	0.0	6'2"	281.3	13.6	41.7	0.0	0.0	0.0	0.0	8'7"	128.4	5.2	16.0	409.68	218.3	16.0
5/31/2014	8.8	27.0	0.0	0.0	5'9"	291.5	12.2	37.4	0.0	0.0	0.0	0.0	12'3"	84.6	21.9	67.2	376.13	251.9	67.2
6/30/2014	8.2	25.2	8.2	25.2	7'1"	259.5	9.7	29.8	4.5	13.8	45.2	138.7	9'1"	121.9	28.4	87.2	381.35	246.7	126.1
7/31/2014	8.0	24.6	7.8	23.9	9'9"	201.0	13.0	39.9	4.7	14.4	31.4	96.4	10'3"	107.3	37.4	114.8	308.29	319.7	153.1
8/31/2014	8.4	25.8	5.8	17.8	11'6"	166.5	15.1	46.3	4.6	14.1	11.1	34.1	16'6"	45.4	38.9	119.4	211.9	146.1	151.3
9/30/2014	8.2	25.2	5.2	16.0	14'4"	117.6	16.4	50.3	4.6	14.1	10.1	31.0	19'3"	26.5	27.7	85.0	144.1	483.9	115.1
10/31/2014	8.1	24.9	3.7	11.4	17'7"	71.7	15.7	48.2	3.2	9.8	5.8	17.8	18'5"	31.7	14.1	43.3	103.34	524.7	64.4
11/30/2014	8.2	25.2	3.2	9.8	19'	55.1	16.2	49.7	0.8	2.5	0.0	0.0	13'3"	74.2	0.1	0.3	129.31	498.7	12.6
12/31/2014	16.0	49.1	0.0	0.0	13'1"	138.2	7.1	21.8	0.0	0.0	0.0	0.0	10'9"	101.4	0.0	0.0	239.55	388.5	0.0
Total Flow (mg) or Total Annual Volume Irrigated (Ac ft)	117.9	361.8	33.9	104.0			138.9	426.3	22.4	68.7	119.1	365.5			173.7	533.1		0.0	705.8
2015																		0.0	
1/31/2015	9.7	29.8	0.0	0.0	10'	195.8	4.2	12.9	0.0	0.0	0.0	0.0	10'5"	105.3	0.0	0.0		326.8	0.0
2/28/2015	13.3	40.8	0.0	0.0	7'1"	259.5	6.6	20.3	0.0	0.0	0.0	0.0	8'8"	127.3	0.0	0.0	386.76	241.2	0.0
3/31/2015	9.7	29.8	0.0	0.0	6'5"	275.3	12.3	37.7	1.7	5.2	0.1	0.3	6'8"	154.9	0.0	0.0	430.16	197.8	5.2
4/30/2015	8.5	26.1	0.0	0.0	5'9"	291.5	19.2	59.0	5.6	17.2	0.0	0.1	5'8"	169.7	8.8	27.0	461.25	166.8	44.2
5/31/2015	8.2	25.1	0.0	0.0	5'7"	295.7	12.7	38.9	7.3	22.4	0.0	0.0	9'3"	119.7	22.6	69.3	415.38	212.6	91.8
6/30/2015	7.2	21.9	5.7	17.4	8'7"	225.7	20.7	63.5	10.1	30.9	15.8	48.4	8'9"	126.2	28.3	86.8	351.83	276.2	135.2
7/31/2015	7.2	22.1	6.6	20.3	12'3"	152.8	22.7	69.7	10.0	30.7	24.8	76.1	8'1"	135.1	32.6	100.1	287.82	340.2	151.1
8/31/2015	7.5	23.0	7.5	23.0	15'9"	96.2	16.9	51.9	10.3	31.6	23.3	71.5	7'2"	147.7	32.6	99.9	243.94	384.1	154.5
9/30/2015	7.6	23.3	5.8	17.8	19'6"	49.7	14.6	44.8	6.5	19.9	15.6	47.8	8'9"	126.2	31.4	96.2	175.89	452.1	133.9
10/31/2015	7.8	23.9	4.5	13.8	24'1"	12.7	19.7	60.5	5.8	17.8	0.0	0.0	10'9"	101.4	23.0	70.6	114.09	513.9	102.2
11/30/2015	8.4	25.8	0.0	0.0	21'1"	34.5	3.9	12.1	0.0	0.0	0.0	0.0	14'6"	62.3	10.9	33.4	96.76	531.2	33.4
12/31/2015	13.4	41.1	0.0	0.0	17'2"	76.9	9.8	30.1	0.0	0.0	0.0	0.0	14'	67.0	6.6	20.2	143.89	484.1	20.2
Total Flow (mg) or Total Annual Volume Irrigated (Ac ft)	108.4	332.6	30.1	92.3			163.4	501.3	57.3	175.8	79.6	244.2			196.6	603.5		0.0	871.6

ARSA SYSTEM FLOW AND VOLUME
2014 - Present

Date	Sutter Creek WWTP Flow (mg)	Sutter Creek WWTP (ac ft)	Bowers Irrigatio n (mg)	Bowers Volume irrigated (ac ft)	Henderson Freeboard	Volume in Henderson (af)	Henderson Outflow (mg)	Henderson outflow (ac ft)	Hoskins Irrigation (mg)	Hoskins Volume irrigated (ac ft)	Mule Creek Inflow (mg)	Mule Creek Inflow (ac ft)	Preston Freeboard	Volume in Preston (af)	Outflow to Ione (mg)	Volume sent to Ione (ac ft)	TOTAL Ac Ft of Effluent in the system	TOTAL Remaining Capacity for Winter (ac ft)	TOTAL USED FOR IRRIGATION (ac ft)
2016																		0.0	
1/31/2016	19.0	58.2	0.0	0.0	12'1"	155.8	12.4	38.0	0.0	0.0	0.0	0.0	11'4"	94.7	3.9	12.1	250.47	377.5	12.1
2/29/2016	10.7	32.8	0.0	0.0	10'9"	180.9	17.8	54.6	0.0	0.0	0.0	0.0	8'7"	128.4	4.0	12.4	309.27	318.7	12.4
3/31/2016	17.7	54.2	0.0	0.0	8'7"	225.7	15.1	46.3	0.0	0.0	0.0	0.0	5'7"	171.0	3.4	10.3	396.64	231.4	10.3
4/30/2016	10.7	32.8	0.0	0.0	8'5"	229.3	13.7	42.0	0.0	0.0	0.0	0.0	5'7"	171.0	9.1	27.8	400.29	227.7	27.8
5/31/2016	9.3	28.5	0.0	0.0	9'9"	201.0	23.0	70.7	0.0	0.0	0.0	0.0	7'7"	141.9	27.3	83.8	342.85	285.2	83.8
6/30/2016	8.3	25.3	2.9	8.9	14'4"	117.6	32.2	99.0	2.2	6.6	0.0	0.0	9'8"	114.5	36.0	110.4	232.06	395.9	125.9
7/31/2016	9.0	27.6	9.0	27.6	20'1"	43.8	25.4	78.0	5.3	16.4	35.9	110.3	7'6"	143.1	40.9	125.6	186.84	441.2	169.5
8/31/2016	9.2	28.2	9.2	28.2	22'3"	24.9	8.7	26.6	3.2	9.9	32.9	101.0	8'3"	132.8	44.1	135.4	157.68	470.3	173.6
9/30/2016	8.3	25.5	6.3	19.2	25'8"	5.0	10.8	33.2	2.2	6.6	10.3	31.6	13'2"	75.1	37.5	115.1	80.06	547.9	140.9
10/31/2016	11.0	33.8	2.5	7.6	23'2"	18.4	5.9	18.2	0.0	0.0	4.0	12.3	14'4"	63.8	6.4	19.5	82.18	545.8	27.2
11/30/2016	11.2	34.5	0.0	0.0	20'8"	38.2	5.3	16.3	0	0.0	0.0	0.0	14'2"	65.4	0.0	0.0	103.6	524.4	0.0
12/31/2016	16.5	50.5	0.0	0.0	16'8"	83.5	10.4	32.0	0.0	0.0	0.0	0.0	11'6"	92.8	0.0	0.0	176.32	451.7	0.0
Total Flow (mg) or Total Annual Volume Irrigated (Ac ft)	140.8	432.0	29.8	91.5			180.8	554.9	12.9	39.6	83.2	255.2			212.6	652.5		0.0	783.5
2017																		0.0	
1/31/2017	30.9	94.8	0.0	0.0	9'3"	211.4	10.7	32.8	0.0	0.0	0.0	0.0	6'8"	154.9	0.0	0.0	366.25	261.8	0.0
2/28/2017	26.5	81.3	0.0	0.0	4'1"	334.2	10.2	31.4	0.0	0.0	0.0	0.0	4'4"	190.6	0.0	0.0	524.72	103.3	0.0
3/31/2017	15.5	47.6	0.0	0.0	1'5"	408.4	14.1	43.3	0.0	0.0	0.0	0.0	1'5"	240.4	1.5	4.7	648.74	-20.7	4.7
4/30/2017	16.1	49.5	0.0	0.0	1'6"	405.9	34.9	107.3	0.0	0.0	0.0	0.0	1'8"	235.9	5.9	18.2	641.82	-13.8	18.2
5/31/2017	9.6	29.4	0.0	0.0	3'7"	347.5	38.0	116.6	2.7	8.4	0.0	0.0	1'2"	244.9	27.4	83.9	592.42	35.6	92.4
6/30/2017	8.9	27.3	8.0	24.6	6'7"	271.3	36.0	110.5	8.8	27.0	0.0	0.0	3'2"	209.8	36.2	111.2	481.07	146.9	162.7
7/31/2017	8.6	26.4	8.7	26.7	11'	176.1	35.0	107.4	10.7	32.8	0.0	0.0	6'11"	151.3	41.8	128.3	327.34	300.7	187.8
8/31/2017	8.8	27.0	8.7	26.7	13'9"	127.0	20.6	63.1	8.6	26.4	0.0	0.0	7'6"	143.1	12.1	37.3	270.02	358.0	90.3
9/30/2017	8.7	26.7	8.7	26.7	16'2"	90.3	18.3	56.2	11.9	36.5	0.0	0.0	6'10"	152.5	0.0	0.0	242.81	385.2	63.2
10/31/2017	8.0	24.6	8.1	24.9	17'4"	74.8	13.8	42.3	9.4	28.8	0.0	0.0	9'7"	115.5	17.2	52.6	190.33	437.7	106.3
11/30/2017	11.5	35.3	0.9	2.7	14'10"	121.6	9.7	29.8	7.4	22.7	0.0	0.0	11'1"	97.5	27.2	83.5	219.1	408.9	108.9
12/31/2017	9.5	29.2	0.0	0.0	12'9"	143.9		0.0	6.3	19.3	0.0	0.0	10'6"	104.4	0.0	0.0	248.26	379.7	19.3
Total Flow (mg) or Total Annual Volume Irrigated (Ac ft)	162.6	499.0	43.1	132.2			241.3		65.8	202.0	0.0	0.0			169.3	519.6		0.0	853.9

ARSA SYSTEM FLOW AND VOLUME
2014 - Present

Date	Sutter Creek WWTP Flow (mg)	Sutter Creek WWTP (ac ft)	Bowers Irrigation (mg)	Bowers Volume irrigated (ac ft)	Henderson Freeboard	Volume in Henderson (af)	Henderson Outflow (mg)	Henderson outflow (ac ft)	Hoskins Irrigation (mg)	Hoskins Volume irrigated (ac ft)	Mule Creek Inflow (mg)	Mule Creek Inflow (ac ft)	Preston Freeboard	Volume in Preston (af)	Outflow to Ione (mg)	Volume sent to Ione (ac ft)	TOTAL Ac Ft of Effluent in the system	TOTAL Remaining Capacity for Winter (ac ft)	TOTAL USED FOR IRRIGATION (ac ft)
2018																		0.0	
1/31/2018	13.6	41.7	0	0.0	9"7"	206.1	8.4	25.8	0	0	0	0.0	8"8"	128.4	0.0	0.0	334.5	293.5	0.0
2/28/2018	8.7	26.7	0	0.0	7"10"	240.4	5.1	15.7	0	0.0	0	0.0	8"3"	133.9	0.0	0.0	374.3	253.7	0.0
3/31/2018	22.1	67.8	0	0.0	4"1"	332.9	8.00	24.6	0	0.0	0	0.0	5"11"	164.1	0.0	0.0	497	131.0	0.0
4/30/2018	14.1	43.3	0	0.0	3"9"	342.6	23.8	73.0	6.0	18.4	0	0.0	3"3"	200.9	1.2	3.5	543.5	84.5	21.9
5/31/2018	9.3	28.5	0	0.0	3"10"	340.6	16.9	51.9	9.9	30.4	0	0.0	8"2"	133.9	27.7	85.0	474.5	153.5	115.4
6/30/2018	8.4	25.8	5.3	16.3	5"8"	295.1	21.2	65.1	9.6	29.5	0	0.0	15"1"	59.6	37.7	115.8	354.7	273.3	161.5
7/31/2018	9.3	28.5	9.2	28.2	10"0"	193.7	35.4	108.6	9.5	29.2	0	0.0	22"0"	17.0	42.9	131.5	210.7	417.3	188.9
8/31/2018	9.7	29.8	9.7	29.8	11"7"	163.6	12	36.8	5.8	17.8	0	0.0	20"9"	22.0	0.0	0.0	185.6	442.4	47.6
9/30/2018	9	27.6	9	27.6	13"11"	123.9	16	49.1	10.7	32.8	0	0.0	19"3"	36.2	0.0	0.0	160.1	467.9	60.5
10/31/2018	8.9	27.3	8.9	27.3	15"2"	106.0	16.2	49.7	10.0	30.7	0	0.0	11'	45.6	0.0	0.0	151.6	476.4	58.0
11/30/2018	10.5	32.2	5.8	17.8	15"1"	107.2	14.9	45.7	5.6	17.2	0	0.0	14"10"	60.9	0.0	0.0	168.1	459.9	35.0
12/31/2018	11.7	35.9	0	0.0	13"6"	131.2	15.2	46.6	0	0.0	0	0.0	11"2"	94.9	0.0	0.0	226.1	401.9	0.0
Total Flow (mg) or Total Annual Volume Irrigated (Ac ft)	135.3	415.2	47.9	147.0	0		193.1		67.1	205.9	0	0.0	0		109.4	335.9		0.0	688.8
2019																		0.0	
1/31/2019	17.4	53.4	0	0	10"5"	185.4	36.7	112.6	0	0	0	0.0	8"3"	132.8	0	0	318.2	309.8	0.0
2/28/2019	23.3	71.5	0	0.0	6"6"	271.9	4.8	14.7	0	0.0	0	0.0	6"6"	157.3	0	0.0	429.22	198.8	0.0
3/31/2019	20.2	62.0	0	0.0	3"6"	350.4	7.6	23.3	0	0.0	0	0.0	4"8"	185.2	0	0.0	535.64	92.4	0.0
4/30/2019	11.9	36.5	0	0.0	2"9"	271.4	15.8	48.5	4.2	12.9	0	0.0	3"2"	209.8	2	6.1	481.19	146.8	19.0
5/31/2019	12.7	39.0	0	0.0	3"6"	350.4	24.0	73.7	5.8	17.8	0	0.0	4"8"	185.2	20.9	64.1	535.64	92.4	81.9
6/30/2019	10	30.7	5.2	16.0	5"10"	288.5	26.5	81.3	12.3	37.7	0	0.0	7"3"	146.6	29	89.0	435.06	192.9	142.7
7/31/2019	7.6	23.3	9.9	30.4	8"11"	217.9	22.9	70.3	13.8	42.4	0	0.0	14"7"	61.5	40.6	124.6	279.44	348.6	197.3
8/31/2019	10	30.7	10	30.7	10"7"	184.2	13.4	41.1	11.8	36.2	0	0.0	17"2"	40.3	6.2	19.0	224.52	403.5	85.9
9/30/2019	9.6	29.5	9.4	28.8	12"6"	148.3	13.7	42.0	10.4	31.9	0	0.0	17"1"	40.9	0	0.0	189.23	438.8	60.8
10/31/2019	9	27.6	9	27.6	14"3"	119.6		0.0	12.2	37.4	0	0.0	16"5"	46.0	0	0.0	165.61	462.4	65.1
11/30/2019	7.2	22.1	5.1	15.7	14"1"	121.6	9.3	28.5	5.7	17.5	0	0.0	14"11"	58.5	0	0.0	180.14	447.9	33.1
12/31/2019	12.6	38.7	0	0.0	12"3"	152.2	0	0.0	0	0.0	0	0.0	13"2"	75.1	0	0.0	227.3	400.7	0.0
Total Flow (mg) or Total Annual Volume Irrigated (Ac ft)	151.5	464.9	48.6	149.1	0		174.7		76.2	233.8	0	0.0	0		98.7	302.9		0.0	685.9

ARSA SYSTEM FLOW AND VOLUME
2014 - Present

Date	Sutter Creek WWTP Flow (mg)	Sutter Creek WWTP (ac ft)	Bowers Irrigatio n (mg)	Bowers Volume irrigated (ac ft)	Henderson Freeboard	Volume in Henderson (af)	Henderson Outflow (mg)	Henderson outflow (ac ft)	Hoskins Irrigation (mg)	Hoskins Volume irrigated (ac ft)	Mule Creek Inflow (mg)	Mule Creek Inflow (ac ft)	Preston Freeboard	Volume in Preston (af)	Outflow to Ione (mg)	Volume sent to Ione (ac ft)	TOTAL Ac Ft of Effluent in the system	TOTAL Remaining Capacity for Winter (ac ft)	TOTAL USED FOR IRRIGATION (ac ft)
2020																		0.0	
1/31/2020	10.3	31.6	0	0.0	11'2"	172.9	8.5	26.1	0	0	0	0.0	12'2"	85.5	0	0	258.4	369.6	0.0
2/29/2020.	8	24.6	0	0.0	10'7"	184.2	3.5	10.7	0	0.0	0	0.0	11'7"	91.9	0	0.0	276.08	351.9	0.0
3/31/2020	12.85	39.4	0	0.0	8'11"	214.9	7.4	22.7	0	0.0	0	0.0	10'1"	109.4	0	0.0	324.26	303.7	0.0
4/30/2020	12.61	38.7	0	0.0	7'8"	246.1	6.3	19.3	0	0.0	0	0.0	10'8"	102.4	8.84	27.1	348.5	279.5	27.1
5/31/2020	8.2	25.2	1.4	4.3	8'6"	227.5	4.2	12.9	7.5	23.0	0	0.0	13'11"	67.8	23.9	73.3	295.3	332.7	100.7
6/30/2020	8.3	25.5	8.3	25.5	11'6"	166.5	6.3	19.3	5.7	17.5	0	0.0	19'6"	25.1	28.9	88.7	191.6	436.4	131.7
7/31/2020	8.3	25.5	8.3	25.5	14'11"	108.5	19.2	58.9	3.9	12.0	0	0.0	15'10"	50.7	0	0.0	159.2	468.8	37.4
8/31/2020	8.3	25.5	8.3	25.5	17'11"	67.6	13.3	40.8	2.3	7.1	0	0.0	14'0"	67.0	0	0.0	134.56	493.4	32.5
9/30/2020	8.2	25.2	8.2	25.2	19'2"	53.3	8.4	25.8	2.3	7.1	14	43.0	13'0"	76.8	13.9	42.7	130.09	497.9	74.9
10/31/2020	8.8	27.0	8.8	27.0	21'2"	33.7	11.9	36.5	2.4	7.4	0	0.0	17'9"	36.2	23.4	71.8	69.86	558.1	106.2
11/30/2020	9.1	27.9	3.5	10.7	22'	26.8	7.62	23.4	2.3	7.1	0	0.0	18'8"	30.1	30.7	94.2	56.89	571.1	112.0
12/31/2020	9.9	30.4	0	0.0	21'0"	35.9	8.8	27.0	0	0.0	0	0.0	16'8"	44.1	0	0.0	79.97	548.0	0.0
Total Flow (mg) or Total Annual Volume Irrigated (Ac ft)	112.86	346.3	46.8	143.6	0		105.42		26.4	81.0	14	43.0	0		129.64	397.8		0.0	622.5
2021																		0.0	
1/31/2021	12.6	38.7	0	0	17'6"	72.7	3.9	12.0	0	0.0	0	0.0	15'3"	55.6	0	0	128.3	499.7	0.0
2/29/2021	10.9	33.4	0	0	16'1"	91.5	2.6	8.0	0	0.0	0	0.0	14'9"	60.0	0	0.0	151.49	476.5	0.0
3/31/2021	11.9	36.5	0	0	13'1"	138.2	3.5	10.7	0	0.0	0	0.0	14'7"	61.5	0	0.0	199.65	428.4	0.0
4/30/2021	10.2	31.3	0	0	14'7"	113.7		0.0	0	0.0	0	0.0	16'11"	42.2	20.7	63.5	155.85	472.2	63.5
5/31/2021	10.7	32.8	6.6	20.3	19'10"	46.3	27.2	83.5	0	0.0	0	0.0	21'4"	15.7	36.2	111.1	61.97	566.0	131.3
6/30/2021	10.4	31.9	7.4	22.7	21'5"	31.6	8.7	26.7	0	0.0	0	0.0	20'10"	18.0	1.9	5.8	49.6	578.4	28.5
7/31/2021	10.2	31.3	7.1	21.8	22'1"	26.2	3.9	12.0	0.2	0.5	0	0.0	21'0'	17.2	0	0.0	43.39	584.6	22.3
8/31/2021	10.1	31.0	6.9	21.2	22'6"	23.0	5.6	17.2	2	6.1	0	0.0	21'6"	15.0	0	0.0	37.96	590.0	27.3
9/30/2021	9.7	29.8	5.2	16.0	23'8"	15.2	6.9	21.2	1.7	5.2	0	0.0	21'0"	17.2	0	0.0	32.38	595.6	21.2
10/31/2021	13.8	42.3	3.6	11.0	20'5"	40.6	5	15.3	0	0.0	0	0.0	10'0"	110.4	0	0.0	150.94	477.1	11.0
11/30/2021	11.7	35.9	0	0.0	18'11"	56.0	7.9	24.2	0	0.0	0	0.0	9'10"	112.4	0	0.0	168.41	459.6	0.0
12/31/2021	21.2	65.1	0	0.0	14'2"	120.2		0.0	0	0.0	0	0.0	14'8"	60.8	0	0.0	180.98	447.0	0.0
Total Flow (mg) or Total Annual Volume Irrigated (Ac ft)	143	440	37	113			75		4	12	0	0.0	0		59	180		0.0	305.2
2022																		0.0	
1/31/2022	12.9	39.6	0	0	12'9"	142.9	6.2	19.0	0	0	0	0.0	13'9"	69.4	0	0	212.25	415.8	0.0
2/29/2022	10.6	32.5	0	0	12'0"	157.3	5.5	16.9	0	0	0	0.0	12'10"	78.5	0	0	235.79	392.2	0.0
3/31/2022	11	33.8	0	0	11'8"	163.4	2.7	8.3	0	0	0	0.0	12'1"	86.4	1.6	4.9	249.83	378.2	4.9
4/30/2022	12.7	39.0	0	0	11'3"	171.3	9.1	27.9	0	0	0	0	10'1"	109.4	0	0	280.62	347.4	0.0
5/31/2022	12.1	37.1	0	0	12'2"	154.3	11.7	35.9	0	0	0	0	9'0"	122.9	1.7	5.2	277.21	350.8	5.2
6/30/2022	11.2	34.4	10.1	31.0	14'3"	118.9	11.2	34.4	7.2	22.1	0	0	8'11"	124.0	5	15.3	242.9	385.1	68.4
7/31/2022	11.6	35.60	11.6	35.6	16'3"	89.2	9.4	28.8	8.1	24.9	0	0	9'3"	119.7	0	0	208.9	419.1	60.5
8/31/2022	9.8	30.07	9.8	30.1	18'1"	65.6	8.4	25.8	7.7	23.6	0	0	9'8"	114.5	0.5	1.5	180.1	447.9	55.2
9/30/2022																			
10/31/2022																			
11/30/2022																			
12/31/2022																			
Total Flow (mg) or Total Annual Volume Irrigated (Ac ft)	91.9	282.0	31.5	96.7					23	70.6					8.8	27.0			194.3