



Senna Hills Municipal Utility District

14050 Summit Drive Suite 113A

Austin, Texas 78728

512-844-1041



INFRAMARK

WATER & INFRASTRUCTURE SERVICES



Senna Hills Municipal Utility District
General Managers Report for the Month of
June 2021

Board Meeting: July 30th, 2021

Reviewed By: Kristi Hester

Date: 7.25.21



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Memorandum for: Senna Hills MUD Board of Directors

From: Kristi Hester

Date: 7.30.2021

Subject: General Manager’s Executive Summary Report

Below is a summary of activities since the last board meeting:

1) Wastewater Treatment Plant

- a) 2,673,000 gallons of wastewater treated for the month of June.
- b) 89,000 gallons average daily flow for the month of June at 89% plant capacity.
- c) All facilities are in compliance for the month of June.
- d) Repaired leak on spay fields that was preventing water pressure to east side.
- e) Diffuser valve on MBR 2 not operating properly - waiting on estimate for replacement

2) Distribution System – Billing

- a) Water accountability this month 85%.
- b) Added daily purchased water chart for reference.
- c) New water schedule signs should be installed this week

3) Collection System

- a) Lemon Mint LS control panel needs to be replaced - see pictures below

4) Drainage/Ponds

- a) Pond inspection reports conducted June 2nd no major issues found.
- b) Quarterly outfall inspection completed no major issues found.

5) Other

- a) 1609 pool inspection for pre-pour passed

Current Items Requiring Board Approval:

Vendor	Amount	WO#	Budget Amount	Description



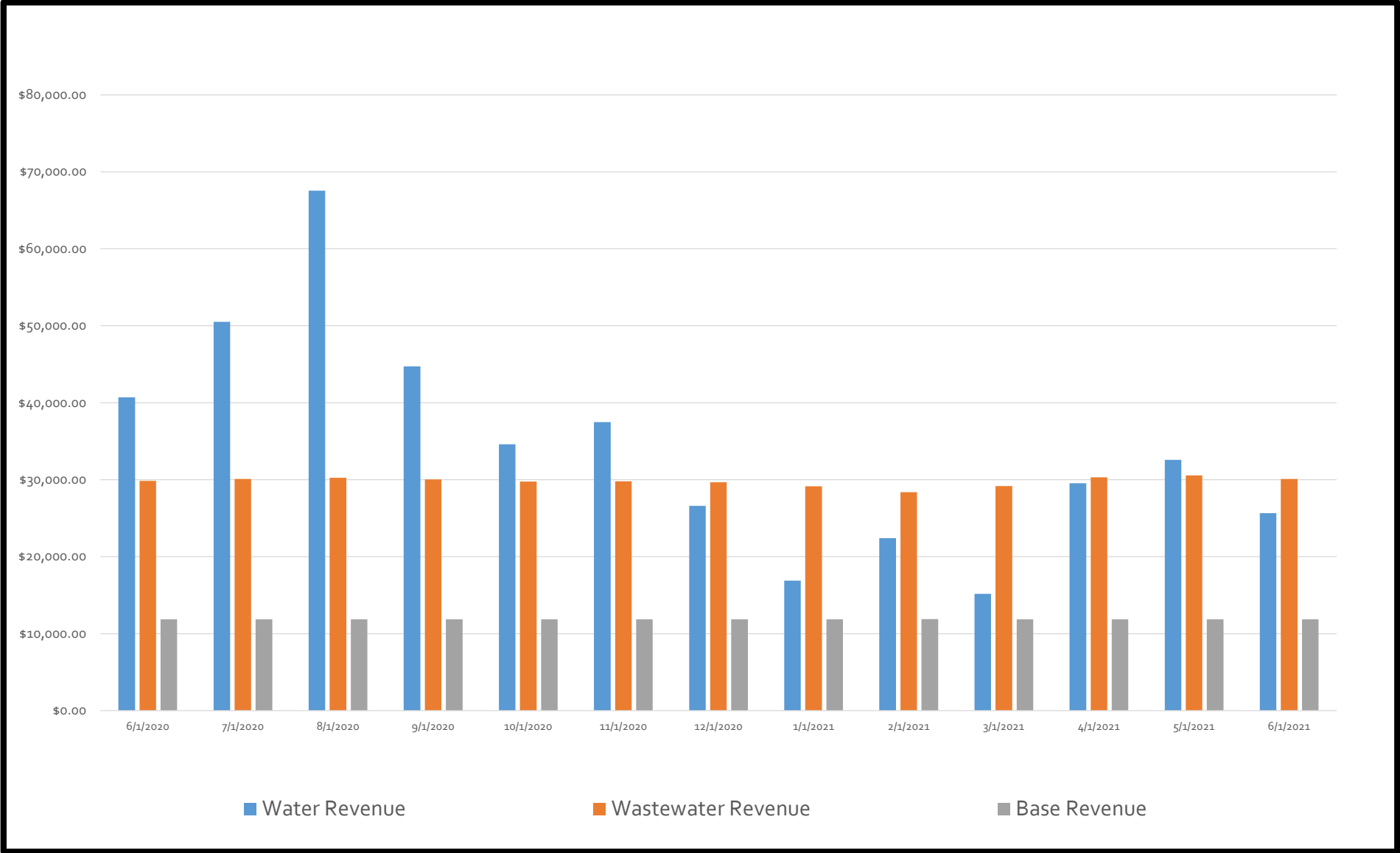


Billing Summary

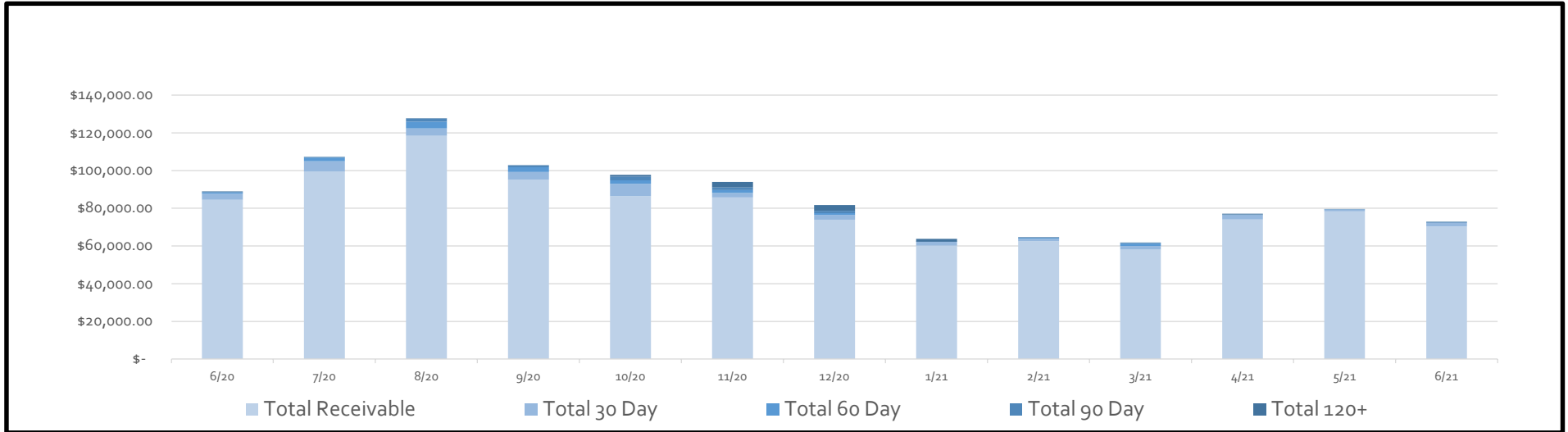


Description	Connections	
	Jun-20	Jun-21
Residential	405	405
Hydrant	-	-
Tracking	5	5
No Bill	1	1
Total Number of Accounts Billed	411	411
	Consumption	
Residential	7,014,000	6,500,000
Hydrant	-	-
Tracking Amenity Center	48,000	30,000
Total Gallons Consumed	7,062,000	6,530,000
	Average Consumption	
Residential	17,319	16,049
Hydrant	-	-
Tracking	9,600	6,000
Avg Water Use for Accounts Billed	17,182	15,888
Total Billed	\$ 85,286	\$ 70,208
Total Aged Receivables	\$ (851)	\$ 153
Total Receivables	\$ 84,435	\$ 70,361

12 Billing Month History Revenue by Category



12 Month Accounts Receivable and Collections Report



Date	Total Receivable	Total 30 Day	Total 60 Day	Total 90 Day	Total 120+
6/20	\$ 84,434.56	\$ 3,263.99	\$ 739.08	\$ 284.50	\$ 215.93
7/20	\$ 99,382.73	\$ 5,564.86	\$ 1,967.41	\$ 225.05	\$ 206.41
8/20	\$ 118,432.85	\$ 3,897.91	\$ 3,574.75	\$ 1,672.95	\$ 90.03
9/20	\$ 95,241.04	\$ 4,047.31	\$ 2,481.75	\$ 949.81	\$ 81.74
10/20	\$ 86,426.07	\$ 6,598.91	\$ 1,714.63	\$ 2,077.01	\$ 868.39
11/20	\$ 85,816.45	\$ 2,329.59	\$ 1,473.47	\$ 1,359.46	\$ 2,945.40
12/20	\$ 73,915.09	\$ 2,494.91	\$ 929.37	\$ 1,314.59	\$ 3,038.53
1/21	\$ 60,176.37	\$ 2,026.57	\$ 6.77	\$ -	\$ 1,507.36
2/21	\$ 62,583.57	\$ 1,229.60	\$ 556.79	\$ 6.77	\$ 206.41
3/21	\$ 58,092.96	\$ 1,887.29	\$ 1,234.74	\$ 458.39	\$ 213.18
4/21	\$ 74,059.15	\$ 2,191.74	\$ 173.29	\$ 217.21	\$ 431.49
5/21	\$ 78,447.01	\$ 929.74	\$ 94.93	\$ -	\$ 206.41
6/21	\$ 70,361.22	\$ 2,162.70	\$ 13.19	\$ 13.53	\$ 206.41

Board Consideration to Write Off	\$0.00
Board Consideration Collections	\$0.00
Delinquent Letter Mailed	6
Delinquent Tags Hung	2
Disconnects for Non Payment	0



Water Production and Quality

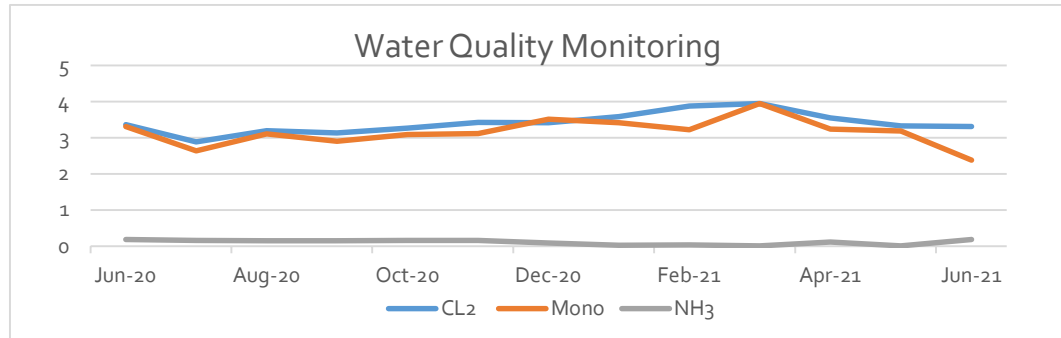

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Water Quality Monitoring

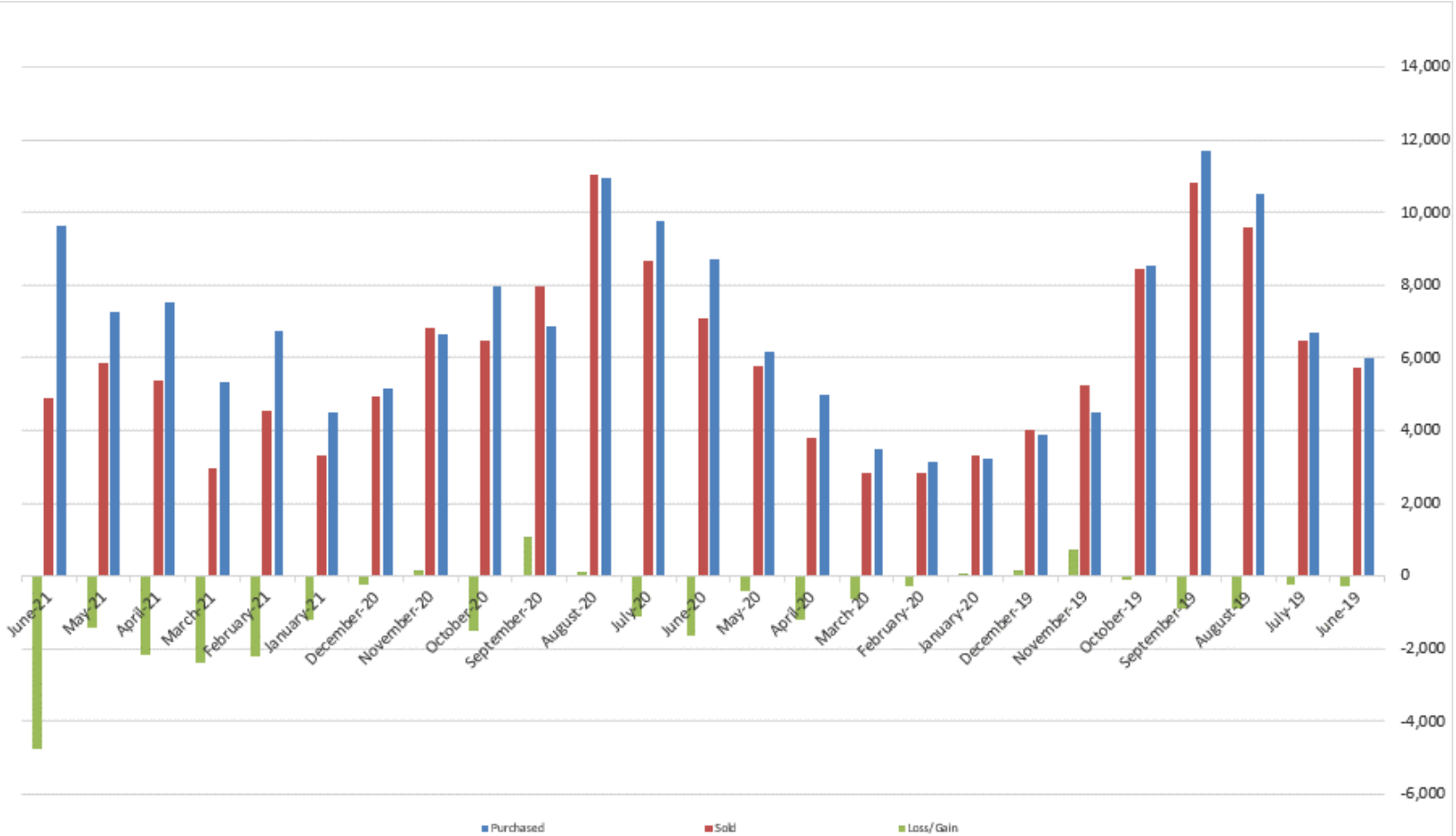
Current Annual CL2 Avg 3.41

Requirements Min .50

Date	CL2	Mono	NH3
Jun-20	3.37	3.31	0.19
Jul-20	2.89	2.64	0.16
Aug-20	3.2	3.11	0.15
Sep-20	3.14	2.91	0.15
Oct-20	3.27	3.09	0.16
Nov-20	3.43	3.12	0.16
Dec-20	3.42	3.52	0.09
Jan-21	3.59	3.42	0.03
Feb-21	3.88	3.22	0.04
Mar-21	3.95	3.95	0.01
Apr-21	3.55	3.24	0.12
May-21	3.33	3.19	0.01
Jun-21	3.31	2.38	0.19

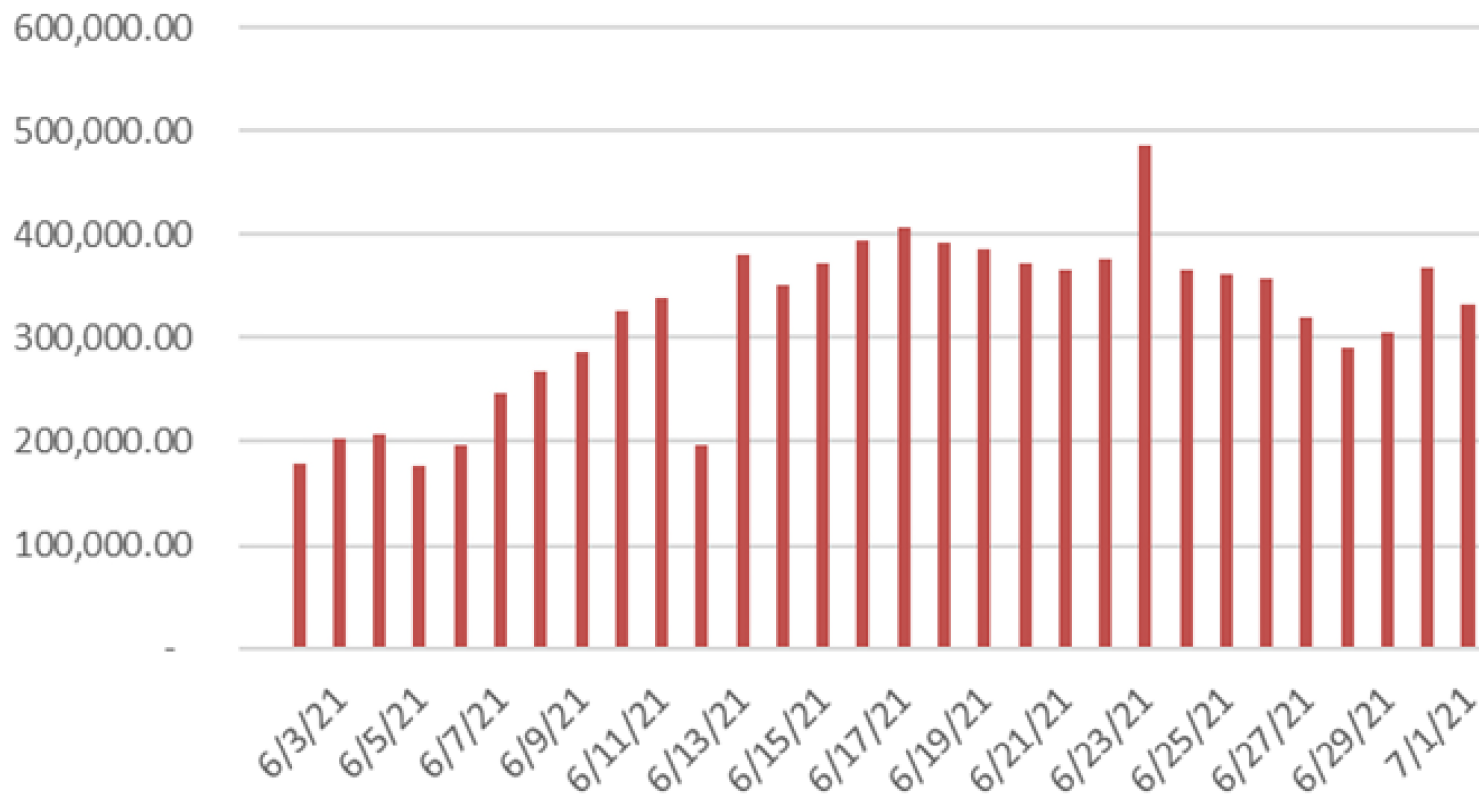


Water Accountability Report

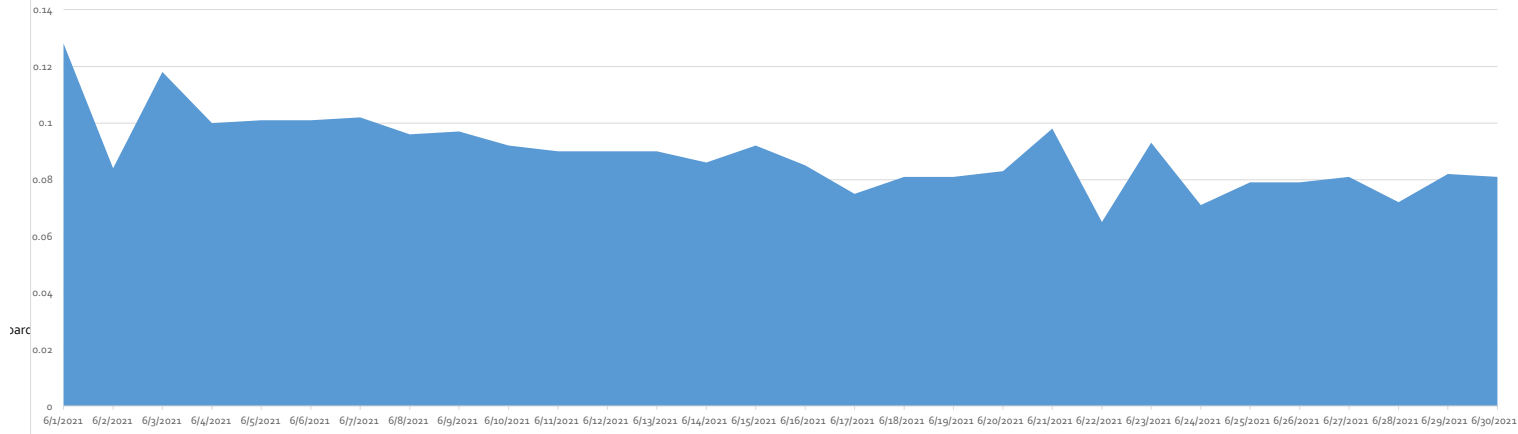


Month	Read Date	Purchased (1000)	Sold (1000)	Flushing	Gal.s Loss (-)	Accounted For %	Running	
							Loss %	Accounted For %
June 19	6/17/19	6,006	5,724	4	(278)	95.4%	-5.91%	94.09%
July 19	7/16/19	6,699	6,468	6	(225)	96.6%	-5.82%	94.18%
August 19	8/15/19	10,503	9,588	6	(909)	91.3%	-6.33%	93.67%
September 19	9/16/19	11,723	10,812	4	(907)	92.3%	-7.23%	92.77%
October 19	10/15/19	8,547	8,458	5	(84)	99.0%	-6.49%	93.51%
November 19	11/14/19	4,508	5,232	13	737	116.3%	-5.03%	94.97%
December 19	12/16/19	3,895	4,046	5	155	104.0%	-4.43%	95.57%
January 20	1/16/20	3,243	3,318	6	81	102.5%	-3.91%	96.09%
February 20	2/17/20	3,153	2,854	2	(297)	90.6%	-3.96%	96.04%
March 20	3/17/20	3,498	2,857	3	(637)	81.8%	-4.00%	96.00%
April 20	4/16/20	5,001	3,791	5	(1,206)	75.9%	-5.32%	94.68%
May 20	5/15/20	6,085	5,765	6	(411)	93.4%	-5.46%	94.54%
June 20	6/15/20	8,711	7,082	5	(1,624)	81.4%	-7.04%	92.96%
July 20	7/15/20	9,786	8,676	6	(1,103)	88.7%	-7.88%	92.12%
August 20	8/17/20	10,954	11,062	6	113	101.0%	-8.88%	93.46%
September 20	9/17/20	6,878	7,968	6	1,095	115.9%	0.38%	95.72%
October 20	10/16/20	7,997	6,491	5	(1,510)	81.2%	-1.13%	93.77%
November 20	11/16/20	6,669	6,820	4	155	102.3%	-1.13%	93.19%
December 20	12/17/20	5,175	4,931	3	(241)	95.4%	-7.96%	92.79%
January 21	1/15/21	4,460	3,316	11	(1,133)	74.6%	-7.48%	91.36%
February 21	2/21/21	6,662	4,534	4	(2,124)	68.1%	-21.71%	89.44%
March 21	3/18/21	5,315	2,955	-	(2,360)	55.6%	-34.75%	87.52%
April 21	4/16/21	7,486	5,369	5	(2,112)	71.8%	-34.25%	86.82%
May 21	5/17/21	7,171	5,862	1	(1,308)	81.8%	-29.09%	85.91%
June 21	6/17/21	7,618	6,500	-	(1,118)	85.3%	-20.81%	86.22%

Daily Water Usage



Wastewater Flows for the Month of June



Wastewater Treatment Permit Summary

For the Month of June

	PERMIT	ACTUAL	COMPLIANT?	PERCENT
AVG. PERMITTED FLOW	0.1 MGD	0.089	Yes	89%
AVG. PERMITTED BOD	5 mg/L	1	Yes	
AVG. PERMITTED TSS	5 mg/L	1	Yes	
AVG. PERMITTED AMMONIA NH ₃	2.0 mg/L	0.05	Yes	
MIN. Cl ₂ RESIDUAL POND	1.0 mg/L	3.55	Yes	
PH (Min)	6.0 Std Units	6.9	Yes	
PH (Max)	9.0 Std Units	7.4	Yes	

Senna Hills MUD Wastewater Flow Historical

TOTALS	Connections	Total Effluent Flows	Average	Avg Flow Per Connection	WWTP Capacity %	ROW Flows	Pond Flows	Total Irrigation Flows
Jun-21	411	2,673,000	89,000	217	89%	274,000	1,790,000	2,064,000
May-21	411	2,681,000	86,000	209	86%	200,700	1,892,000	2,093,100
Apr-21	411	2,403,000	80,000	195	80%	253,600	1,932,000	2,088,900
Mar-21	411	2,423,000	78,000	190	78%	496,000	2,019,000	2,515,000
Feb-21	411	2,549,000	91,000	221	91%	293,000	2,405,000	2,697,800
Jan-21	411	2,402,000	77,000	187	77%	246,800	2,280,000	2,527,000
TOTALS		15,131,000	83,500	203	84%	1,764,100	12,318,000	13,985,800
Dec-20	411	2,519,000	81,000	197	81%	272,000	2,637,100	2,365,000
Nov-20	411	2,270,000	76,000	185	76%	508,600	1,880,000	2,388,800
Oct-20	411	2,527,000	82,000	200	82%	887,400	1,733,000	2,620,500
Sep-20	411	2,483,000	83,000	202	83%	874,900	1,697,000	2,571,400
Aug-20	411	2,419,000	78,000	190	78%	748,500	1,706,000	2,454,700
Jul-20	411	2,422,000	78,000	190	78%	593,700	1,641,000	2,234,500
Jun-20	411	2,426,000	81,000	197	81%	417,500	2,420,000	2,837,300
May-20	411	2,582,000	83,000	202	83%	267,900	2,030,000	2,298,000
Apr-20	412	2,472,000	82,000	199	82%	171,400	2,141,000	2,312,100
Mar-20	412	2,636,000	85,000	206	85%	165,800	1,918,000	2,083,800
Feb-20	412	2,011,000	69,000	167	69%	73,000	1,823,000	1,895,900
Jan-20	412	2,180,000	70,000	170	70%	118,000	1,948,000	2,066,000
TOTALS		28,947,000	79,000	192	79%	5,098,700	23,574,100	28,128,000
Dec-19	412	2,138,000	69,000	167	69%	166,000	1,851,000	2,016,800
Nov-19	412	2,132,000	71,000	172	71%	518,000	1,577,000	2,095,000
Oct-19	412	2,129,000	69,000	167	69%	710,500	1,414,000	2,124,600
Sep-19	412	2,157,000	72,000	175	72%	642,000	1,650,000	2,292,000
Aug-19	412	2,207,000	71,000	172	71%	680,000	1,463,000	2,143,000
Jul-19	412	1,895,000	61,000	148	61%	594,000	1,166,000	1,760,000
Jun-19	412	1,944,000	65,000	158	65%	276,000	1,345,000	1,621,000
May-19	412	2,108,000	76,000	184	76%	33,200	2,157,000	2,190,200
Apr-19	412	2,005,000	67,000	163	67%	32,200	728,000	760,200
Mar-19	412	1,905,000	61,000	148	61%	55,000	1,846,000	1,901,000
Feb-19	412	1,791,000	64,000	155	64%	9,000	1,781,000	1,790,000
Jan-19	412	2,303,000	74,000	180	74%	76,000	2,227,000	2,303,000
TOTALS		24,714,000	68,333	166	68%	3,791,900	19,205,000	22,996,800



**STORMWATER POND INSPECTION
SAND FILTER SYSTEM**

DISTRICT: SENNA
DATE: 06/01/2021
WO#: 2561306
TECH.: TAMMY YBARRA

Pond Location	STRAWFLOWER
Pond water level	40%
Does the pond drain within 48 hours?	YES
Sediment depth in the forbay?	HAS WATER
Sediment depth in the sand filter area?	HAS WATER
Trash found at site?	NO
Is vegetation below 18" in height?	NO
Trees or brush found in basin area?	NO
Condition of the media?	HAS WATER
Condition of vegetation around the out fall pipe	GOOD
Was sediment found in the under drain piping? Remove open clean out tops and check	HAS WATER
Any damage to structural elements (pipes, concrete drainage, retaining walls, gabian walls, etc.)?	EROSION AROUND RETAINING WALLS
Discharge valve open operational	N/A
Emergency bypass valve closed and operational	N/A
Are all inlets in area clear of debris and sediment?	NO - SEDIMENT & VEGETATION

EROSION AROUND RETAINING WALLS - WO 2573166

COMMENTS **INLET NEEDS ATTENTION - WO 2299668**





STORMWATER POND INSPECTION SAND FILTER SYSTEM

DISTRICT: SENNA

DATE: 06/01/2021

WO#: 2561306

TECH.: TAMMY YBARRA

Pond Location	MILAGRO
Pond water level	40%
Does the pond drain within 48 hours?	YES
Sediment depth in the forbay?	HAS WATER
Sediment depth in the sand filter area?	HAS WATER
Trash found at site?	NO
Is vegetation below 18" in height?	NO
Trees or brush found in basin area?	NO
Condition of the media?	HAS WATER
Condition of vegetation around the out fall pipe	GOOD
Was sediment found in the under drain piping? Remove open clean out tops and check	HAS WATER
Any damage to structural elements (pipes, concrete drainage, retaining walls, gabian walls, etc.)?	NO
Discharge valve open operational	N/A
Emergency bypass valve closed and operational	N/A
Are all inlets in area clear of debris and sediment?	SMALL AMOUNT OF SEDIMENT

COMMENTS BRICKS AT ENTRANCE NEED TO BE RELAYED, BRIDGE NEEDS ATTENTION, FENCE IS DAMAGED



DP POND INSPECTION

DISTRICT: SENNA
DATE: 06/01/2021
WO: 2561306
TECH.: TAMMY YBARRA

Pond Location	SEC 2
Pond water level	WET
Does the pond drain within 48 hours?	YES
Sediment depth in the Pond basin	N/A
Trash found at site?	NO
Is vegetation below 18" in height?	YES
Trees or brush found in basin area?	NO
Condition of vegetation around the out fall pipe	NEEDS ATTENTION
Any damage to structural elements (pipes, concrete drainage, retaining walls, gabian walls, etc.)	NO
Are all inlets in area clear of debris and sediment?	YES

COMMENTS CLEAN VEGETATION IN OUTLET - **WO 2573148**



DP POND INSPECTION

DISTRICT: SENNA
DATE: 06/01/21
WO#: 2561306
TECH.: TAMMY YBARRA

Pond Location	SEC 4
Pond water level	DRY
Does the pond drain within 48 hours?	YES
Sediment depth in the Pond basin?	N/A
Trash found at site?	NO
Is vegetation below 18" in height?	YES
Trees or brush found in basin area?	YES
Condition of vegetation around the out fall pipe	GOOD
Any damage to structural elements (pipes, concrete drainage, retaining walls, gabian walls, etc.)?	EROSION ISSUE NEXT TO EMBANKMENT AT GABION - WO 2443736
Are all inlets in area clear of debris and sediment?	YES
 	EROSION ISSUE NEXT TO EMBANKMENT AT GABION - WO 2443736

COMMENTS	
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