



**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  
May 2021  
**Board Meeting: June 25th, 2021**

Reviewed By: Kristi Hester

Date: 6.21.21



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**Memorandum for: Senna Hills MUD Board of Directors**

**From: Kristi Hester**

**Date: 6.21.2021**

**Subject: General Manager's Executive Summary Report**

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

**1) Wastewater Treatment Plant**

- a) 2,681,000 gallons of wastewater treated for the month of May.
- b) 86,000 gallons average daily flow for the month of May at 86% plant capacity.
- c) All facilities are in compliance for the month of May.
- d) Preventive maintenance completed on generators.
- e) Annual mechanical preventive maintenance completed.
- f) Installed new motors on both drum screens.
- g) Diffuser valve on MBR 2 not operating properly - waiting on estimate for replacement.

**2) Distribution System – Billing**

- a) Water accountability this month 82%.
- b) Replaced seat gasket to repair Fire Hydrant leak.
- c) Repaired service line leak at 10501 and 10309 Indigo Broom.
- d) Repaired several leaks in meter boxes and angle stops.
- e) 1705 Spiderling had to remove and replace section of sidewalk to make repairs to meter.

**3) Collection System**

- a) Repair to exhaust fan at LS on Strawflower.

**6) Drainage/Ponds**

- a) Pond inspection reports conducted May 3rd, reports are enclosed.
- b) Section 2 pond cleared inlet.

**6) Other**

- a) Resident request from resident at 10563 Indigo Broom for tree trimming sent to Developer.

**Current Items Requiring Board Approval:**

Vendor	Amount	WO#	Budget Amount	Description



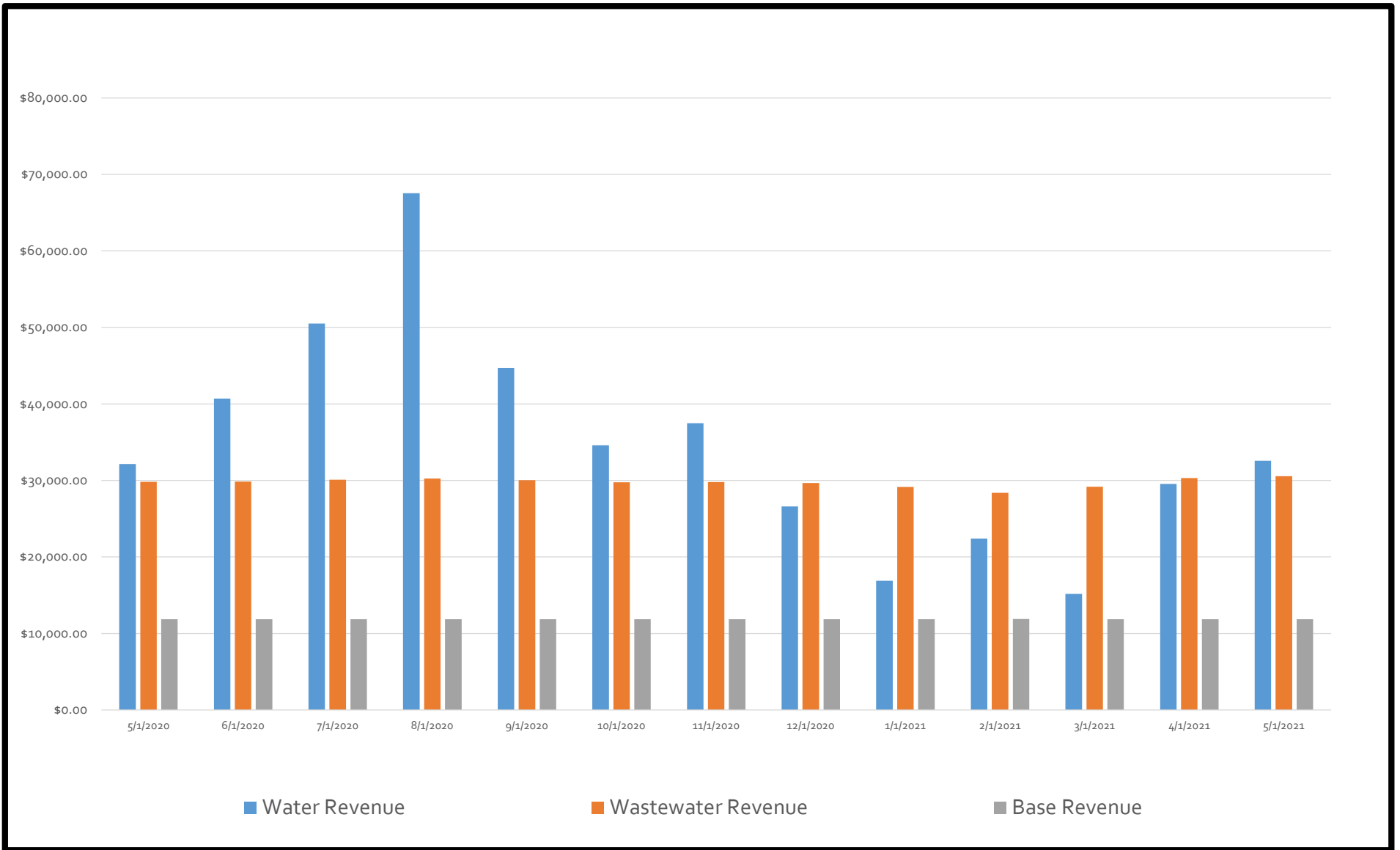


## Billing Summary

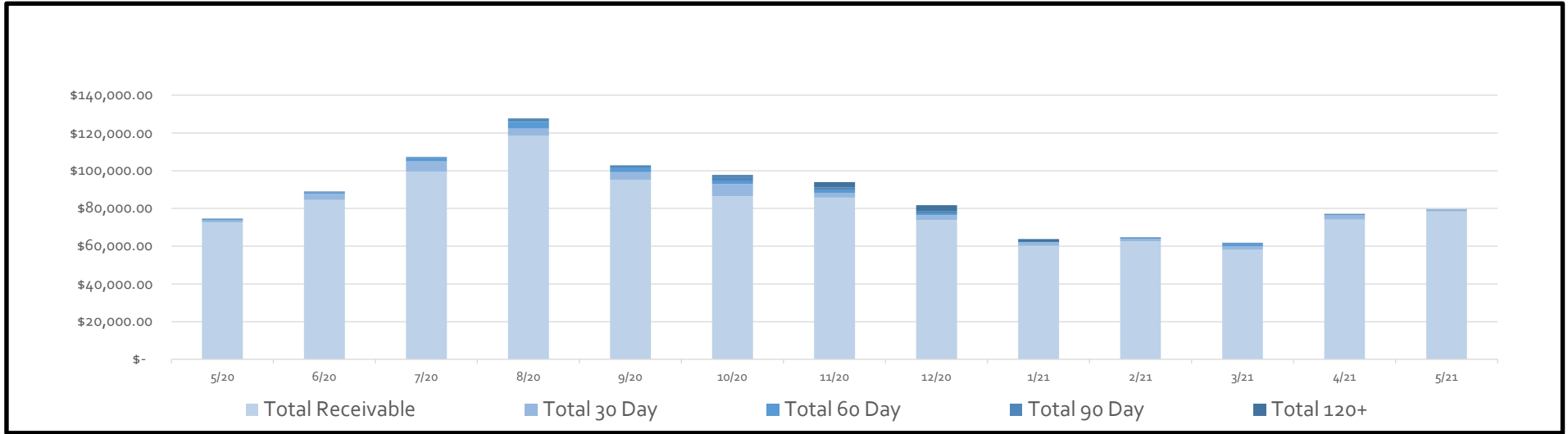


Description	Connections	
	May-20	May-21
Residential	405	405
Hydrant	-	-
Tracking	5	5
No Bill	1	1
<b>Total Number of Accounts Billed</b>	<b>411</b>	<b>411</b>
	Consumption	
Residential	5,730,000	5,821,000
Hydrant	-	-
Tracking Amenity Center	23,000	27,000
<b>Total Gallons Consumed</b>	<b>5,753,000</b>	<b>5,848,000</b>
	Average Consumption	
Residential	14,148	14,373
Hydrant	-	-
Tracking	4,600	5,400
<b>Avg Water Use for Accounts Billed</b>	<b>13,998</b>	<b>14,229</b>
Total Billed	\$ 76,049	\$ 79,485
Total Aged Receivables	\$ (3,435)	\$ (1,038)
Total Receivables	\$ 72,614	\$ 78,447

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+
5/20	\$ 72,614.06	\$ 1,022.58	\$ 666.13	\$ 149.52	\$ 66.41
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

Board Consideration to Write Off	\$0.00
Board Consideration Collections	\$0.00
Delinquent Letter Mailed	11
Delinquent Tags Hung	3
Disconnects for Non Payment	N/A



## Water Production and Quality

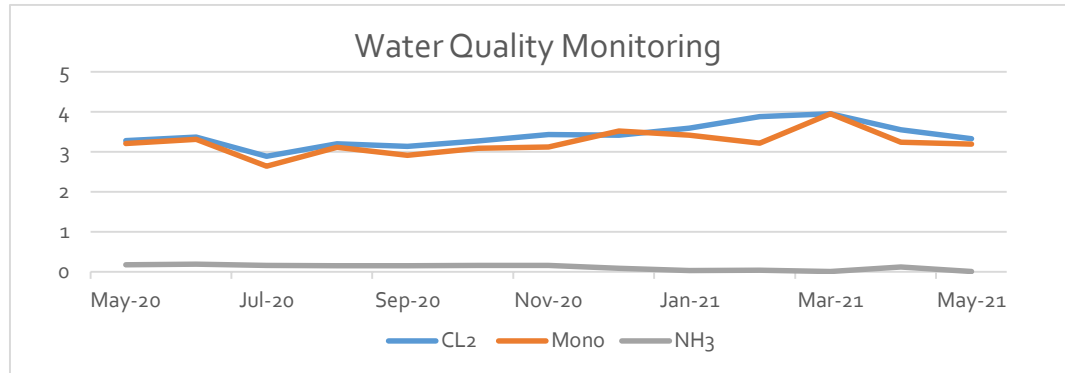


## Water Quality Monitoring

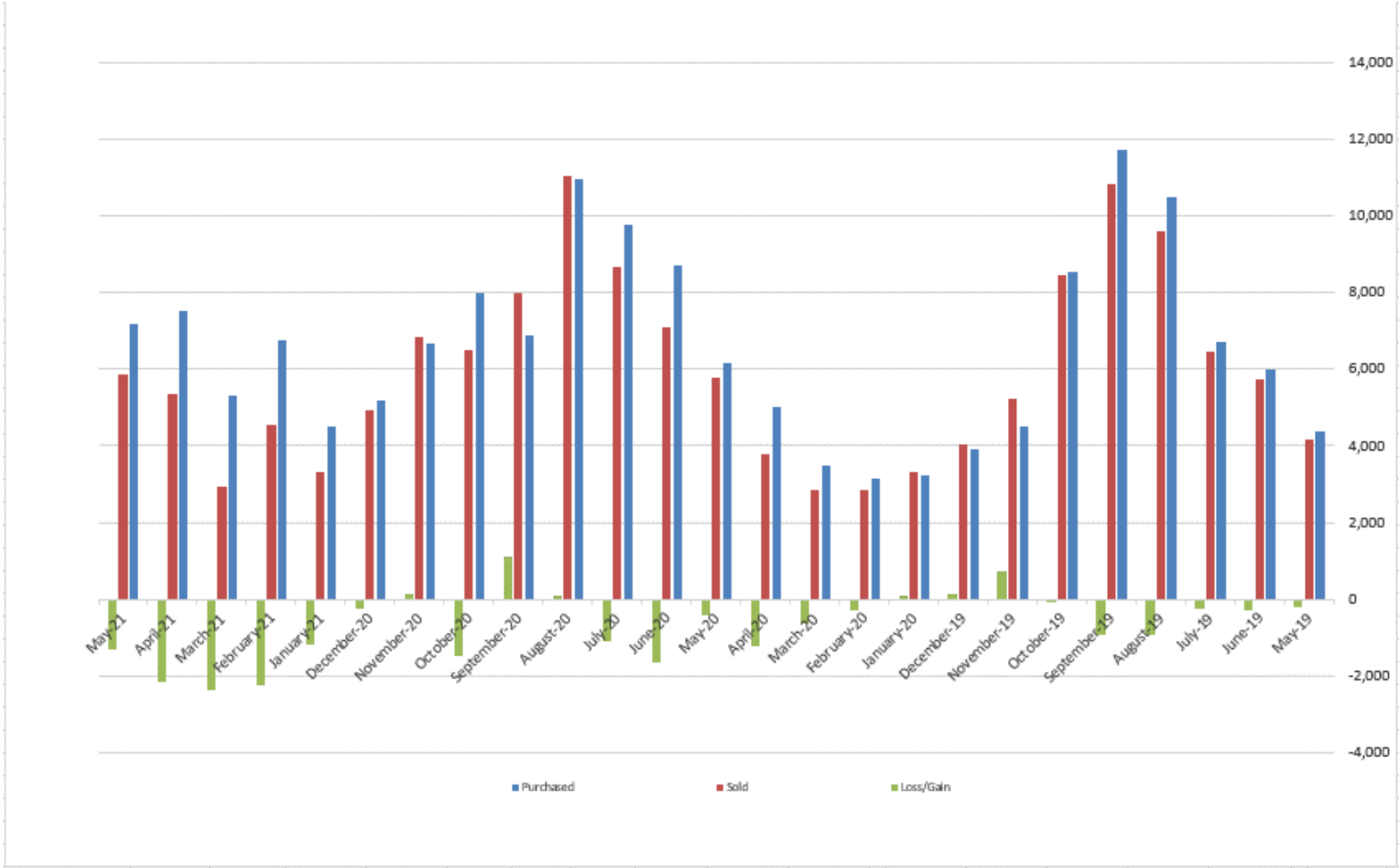
Current Annual CL2 Avg 3.40

Requirements Min .50

Date	CL2	Mono	NH3
May-20	3.28	3.21	0.18
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



# Water Accountability Report





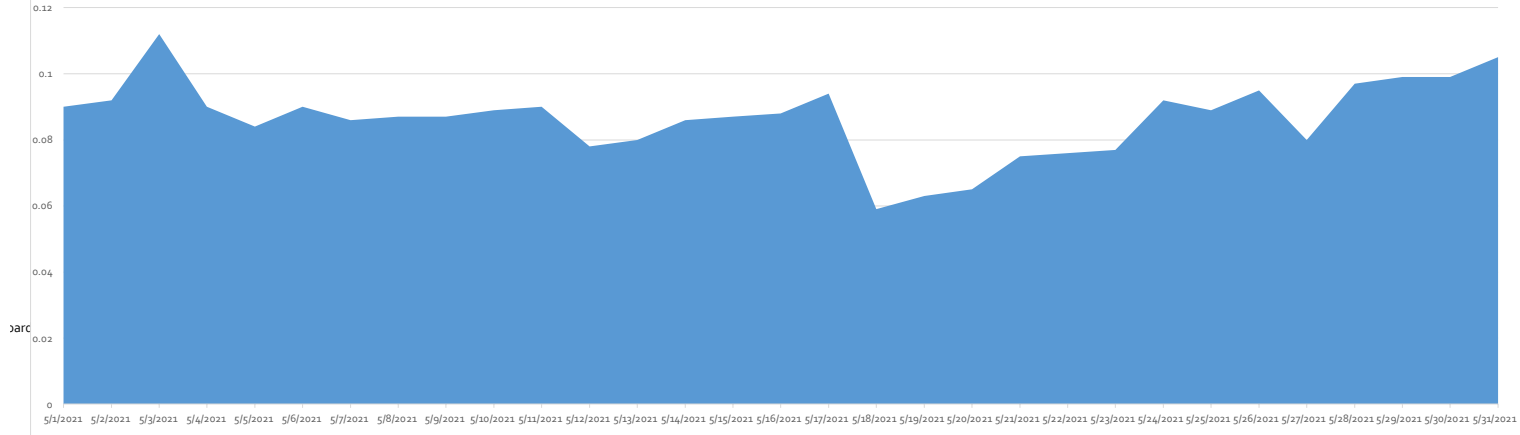
Month	Read Date	Purchased (1000)	Sold (1000)	Flushing	Gal.s Loss (-)	Accounted For %	Running	
							Loss %	Accounted For %
May 19	5/16/19	4,367	4,148	4	(215)	95.1%	-5.37%	94.63%
June 19	6/17/19	6,006	5,724	4	(278)	95.4%	-5.91%	94.09%
July 19	7/16/19	6,699	6,468	6	(225)	96.6%	-5.82%	94.18%
August 19	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%



## Wastewater Production and Quality



### Wastewater Flows for the Month of May



**Wastewater Treatment Permit Summary**

**For the Month of May**

	PERMIT	ACTUAL	COMPLIANT?		PERCENT
AVG. PERMITTED FLOW	0.1 MGD	0.086	Yes	MGD	86%
AVG. PERMITTED BOD	5 mg/L	1	Yes	mg/L	
AVG. PERMITTED TSS	5 mg/L	1	Yes	mg/L	
AVG. PERMITTED AMMONIA NH <sub>3</sub>	2.0 mg/L	0.05	Yes	mg/L	
MIN. Cl <sub>2</sub> RESIDUAL POND	1.0 mg/L	4.02	Yes	mg/L	
PH (Min)	6.0 Std Units	6.7	Yes	Std Units	
PH (Max)	9.0 Std Units	7.3	Yes	Std Units	

**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
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
<b>TOTALS</b>		<b>12,458,000</b>	<b>82,400</b>	<b>200</b>	<b>82%</b>	<b>1,490,100</b>	<b>10,528,000</b>	<b>11,921,800</b>
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
<b>TOTALS</b>		<b>28,947,000</b>	<b>79,000</b>	<b>192</b>	<b>79%</b>	<b>5,098,700</b>	<b>23,574,100</b>	<b>28,128,000</b>
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
<b>TOTALS</b>		<b>24,714,000</b>	<b>68,333</b>	<b>166</b>	<b>68%</b>	<b>3,791,900</b>	<b>19,205,000</b>	<b>22,996,800</b>



**STORMWATER POND INSPECTION  
SAND FILTER SYSTEM**

DISTRICT: SENNA
DATE: 05.03.2021
WO#: 2532958
TECH.: TAMMY YBARRA

Pond Location	STRAWFLOWER
Pond water level	WET
Does the pond drain within 48 hours?	YES
Sediment depth in the forbay?	HAS DEEP SPOTS AT FORBAY
Sediment depth in the sand filter area?	WET
Trash found at site?	NO
Is vegetation below 18" in height?	YES
Trees or brush found in basin area?	NO
Condition of the media?	GOOD
Condition of vegetation around the out fall pipe	GOOD
Was sediment found in the under drain piping? Remove open clean out tops and check	NO
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?	NO - SEDIMENT & VEGETATION

**FALL TREE LEANING INTO SAND BAY(OBTAIN QUOTE) - WO 2491778**

**COMMENTS** INLET NEEDS ATTENTION - WO 2299668





## STORMWATER POND INSPECTION SAND FILTER SYSTEM

**DISTRICT:** SENNA

**DATE:** 05.03.2021

**WO#:** 2532958

**TECH.:** TAMMY YBARRA

<b>Pond Location</b>	MILAGRO
<b>Pond water level</b>	DRY
<b>Does the pond drain within 48 hours?</b>	YES
<b>Sediment depth in the forbay?</b>	2" - 3"
<b>Sediment depth in the sand filter area?</b>	2" - 3"
<b>Trash found at site?</b>	NO
<b>Is vegetation below 18" in height?</b>	NO
<b>Trees or brush found in basin area?</b>	NO
<b>Condition of the media?</b>	LOTS OF DRY LEAVES
<b>Condition of vegetation around the out fall pipe</b>	GOOD
<b>Was sediment found in the under drain piping? Remove open clean out tops and check</b>	NO
<b>Any damage to structural elements (pipes, concrete drainage, retaining walls, gabian walls, etc.)?</b>	NO
<b>Discharge valve open operational</b>	N/A
<b>Emergency bypass valve closed and operational</b>	N/A
<b>Are all inlets in area clear of debris and sediment?</b>	YES

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





**STORMWATER POND INSPECTION  
FILTER SYSTEM**

DISTRICT: SENNA

DATE: 05/03/2021

WO#: 2532958

TECH.: TAMMY YBARRA

Pond Location	SEC 2
Pond water level	WET
Does the pond drain within 48 hours?	YES
Sediment depth in the forbay?	N/A
Sediment depth in the sand filter area?	N/A
Trash found at site?	NO
Is vegetation below 18" in height?	YES
Trees or brush found in basin area?	NO
Condition of the media?	GOOD
Condition of vegetation around the out fall pipe	NEEDS ATTENTION
Was sediment found in the under drain piping? Remove open clean out tops and check	N/A
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?	YES

**COMMENTS** CLEAN VEGETATION AROUND DOUT FALL PIPE - **WO 2491804**





## STORMWATER POND INSPECTION SAND FILTER SYSTEM

DISTRICT: SENNA
DATE: 05.03.2021
WO#: 2532958
TECH.: TAMMY YBARRA

Pond Location	SEC 4
Pond water level	DRY
Does the pond drain within 48 hours?	YES
Sediment depth in the forbay?	N/A
Sediment depth in the sand filter area?	N/A
Trash found at site?	NO
Is vegetation below 18" in height?	NO
Trees or brush found in basin area?	NO
Condition of the media?	GOOD
Condition of vegetation around the out fall pipe	GOOD
Was sediment found in the under drain piping? Remove open clean out tops and check	NO
Any damage to structural elements (pipes, concrete drainage, retaining walls, gabion walls, etc.)?	EROSION ISSUE NEXT TO EMBANKMENT AT GABION - <b>WO 2443736</b>
Discharge valve open operational	N/A
Emergency bypass valve closed and operational	N/A
Are all inlets in area clear of debris and sediment?	YES
	EROSION ISSUE NEXT TO EMBANKMENT AT GABION - <b>WO 2443736</b>
COMMENTS	

