



**Napa Sanitation District**

**General Manager's Report**

**for**

**May, 2019**

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## NAPA SANITATION DISTRICT

## General Manager's Report

**DATE:** July 17, 2019

**FROM:** Timothy B. Healy, General Manager

**SUBJECT:** General Manager's Report for May 2019

### **REGULATORY COMPLIANCE:**

Collection System Compliance:	0 Category 1 SSO's, 0 Category 2 SSO's, and 1 Category 3 SSO's
NPDES Permit (WWTP) Compliance:	Full compliance with all regulations
Air Quality Compliance:	Full compliance with all regulations
Recycled Water Compliance:	Full compliance with all regulations
Biosolids Compliance:	Full compliance with all regulations
Significant Comments:	None

### **FISCAL STATUS:**

Period Covered:	July 1, 2018 – May 31, 2019
Percent Fiscal Year:	91.7%
Operating Expenditures to date:	82.3%
Historical Expenditures to date:	85.7%
Significant Comments:	None.

### **PERSONNEL:**

Significant events for the month of May 2019 in the Human Resources Department:

New Hires:	Brad Cagle and Chris Cox, Collection System Workers
Separations:	None
Promotions:	Andrew Jellison promoted to Operator II
Recruitment Activities:	Interviews for summer intern positions
Injuries:	None

*Summaries of Operational Highlights are on following pages.*

**COLLECTIONS:**

Significant events for the month of May 2019 in Collection System Maintenance include:

- The District had 0 Category 1 Sanitary Sewer Overflows (SSO's), 0 Category 2 SSO's and 1 Category 3 SSO's during the month. (A Category 1 is defined as an SSO that reached a drainage channel and/or surface water or; an SSO that reached a storm drainpipe that was not fully recovered and returned to the sanitary sewer system. A Category 2 is defined as an SSO that is equal to or greater than 1,000 gallons that did not reach a surface water. A Category 3 is defined as an SSO that is less than 1,000 gallons that did not reach a surface water. These are usually minor overflows of less than 10 gallons from cleanouts on District laterals that can be cleaned up by the crews.)
- The repair crew installed 9 cleanouts and repaired 3 cleanouts. They also repaired 2 laterals, lined 10 laterals and reconnected 1 lateral. Additionally, the service response/programs crew completed 77 work orders in support of the grease and odor control program, responded to 47 customer requests for service (10 were NSD problem) and closed out 358 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 98 laterals, cleaned approximately 67,504 feet of main line and CCTV inspected 31 laterals. In addition, the CCTV truck televised 24,715 feet of mainline.

**TREATMENT PLANT:**

Significant events for the month of May 2019 in the Treatment Plant Department:

**Plant Operations:**

- For May 2019, the plant's influent flow was 275.4 MG as compared to last year flow for May 2018 of 216.7 MG
- No river discharge occurred during May.
- There was 2.39" rainfall for May 2019 (Carneros Rainfall Center) as compared to 0.06" rainfall for May 2018.
- Pond 4 end of the month recorded level reading was 82.12". During May pond 2 and pond 3 were dewatered into pond 4 in preparation of pond water transfer structure replacement.

**Power Consumption and Production:**

- May power purchased from PG&E was 317 MWH in comparison to April 2019 purchase of 423 MWH.
- Cogeneration unit ran 740 of 744 hours for the month – 99.46% uptime, averaging 355.67 Kw, producing 263 MWH of energy.
- Solar generation in May was 178 MWH, compared to 173 MWH in April.

**Maintenance:**

Significant events for the month of May 2019:

### Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Replaced Jameson Ranch 8" Badger Flow Meter
- Installed new sight tube on Recycle Water Pump Station Hydro Tank
- DAFT exhaust fan/replaced motor bearings and belts
- Completed annual inspection and cleaning of AB's including RAS, WAS sumps
- AB #3 compartment #6/repairs Mud Valve
- Replaced E-1 Conductivity Probe
- Rotork Actuator for AB scum sump gate /replaced power supply
- Gateway Recycle Register/replaced flow meter battery

### Projects

- Completed CIP 19721/rebuild of #3 Recycle Motor and Pump
- Upgraded motor bearing cooling water lines on all Recycle Pumps
- Tested stand-by power system ground fault relay
- P4, installed poly mix pump, motor and piping

### Standby Power

- Plant generators operational testing  
Riverpark, Stonecrest, West Napa operational testing only

### Influent Pumps

- All pumps operational

### Laboratory:

Significant events for the month of May 2019:

- Effluent (EFF-001) Summary  
There was no EFF-001 discharge during the month.
- Influent (INF-001) Summary  
Monthly Influent monitoring of all parameters occurred at the required frequencies. The following were notable sampling events:  
May 8, 2019: Metals, Mercury, Cyanide, VOC, BNA

### **RECYCLING:**

Significant events in the Recycling Department for May 2019 include:

- Recycled water delivered for the month of May 2019 was (50.447 million gallons), as compared to May 2018 (86.582 million gallons) is lower from the previous year due to

wet weather experienced during the month lowering the RW demand. Delivered recycled water volume represents the sum of all use site flow meter consumption values.

- Staff approved the connection of four new recycled water customer in the MST area.

### **POLLUTION PREVENTION:**

Significant events in the Pollution Prevention and Outreach Division May 2019 include:

- There was one tour of the treatment plant given as part of the Baywork Cross Training event that occurred May 7-9 at NapaSan.
- One presentation was given in May at the Napa County Watershed Symposium put on by the Napa RCD.
- NapaSan staff planned and facilitated the Baywork training mentioned above. Fifteen participants from North Bay sanitation districts attended to learn about NapaSan's facility and processes.
- In May, 45 pounds of medication were disposed of through the takeback program at Family Drug. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 21,792.2 pounds.
- There were no ESME Washer Rebates issued this month.
- NapaSan sponsored the Napa County Science Fair, and staff helped plan and facilitate the event on Saturday, May 4.

### **ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:**

Significant events occurring in the Engineering Division for May 2019 include:

- Consultant continued work on the SCADA Master Plan.
- Contractor continued construction of the Headworks Equipment Replacement Project.
- Contractor continued construction of the Southeast Napa Sewer and Roadway Rehabilitation Project.
- Staff continued design of the 2020 Collection System Rehabilitation Project.
- Consultant began design of the 66-inch Trunk Sewer Rehabilitation Project.
- Staff began design of the 2019 Manhole Rehabilitation Project.
- Consultant continued design of the Primary Clarifier Rehabilitation Project.
- Consultant continued design of the West Napa Pump Station Project.
- Contractor continued construction of the 2018 Treatment Plant Improvement Project.
- Contractor began construction of the 2019 Treatment Plant Improvements Project.
- Contractor began construction of the Pond Transfer Structure Project.
- Consultant continued working on the Collection System Master Plan.

- Contractor began construction of the MST Truck Fill Station Project.
- Staff reviewed 38 sets of development plans and deemed 16 sets of plans complete. The approved plans consisted of 3 tenant improvements, 8 residential dwellings, 3 residential laterals, 1 residential mainline extension, and 1 recycled water lateral.

**Budget Status & Cash Summary - July 1, 2018 - May 31, 2019 (91.7% of the year)**

<i>Expenditures</i>	FY 18/19 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
<b>Operating</b>						
Salaries & Benefits	\$9,961,350	\$0	\$8,350,160	\$8,350,160	\$1,611,190	83.8%
Services & Supplies	6,149,350	347,143	4,385,561	4,732,704	1,416,645	77.0%
Taxes	40,750	-	40,691	40,691	59	99.9%
Debt Service	4,594,500	-	4,594,367	4,594,367	133 (1)	100.0%
Intrafund Transfers	8,900,000	-	6,675,000	6,675,000	2,225,000	75.0%
<b>Total Operating:</b>	<b>\$29,645,950</b>	<b>\$347,143</b>	<b>\$24,045,778</b>	<b>\$24,392,922</b>	<b>\$5,253,028 (2)</b>	<b>82.3%</b>
<b>Capital</b>						
Bldgs/Improvements & Equip	\$32,410,100	\$6,619,964	\$11,706,204	\$18,326,168	\$14,083,932 (3)	56.5%
Intrafund Transfers	7,250,000	-	4,940,275	4,940,275	2,309,725	68.1%
<b>Total Capital :</b>	<b>\$39,660,100</b>	<b>\$6,619,964</b>	<b>\$16,646,479</b>	<b>\$23,266,444</b>	<b>\$16,393,656</b>	<b>58.7%</b>
<b>Grand Total Expenditures:</b>	<b>\$69,306,050</b>	<b>\$6,967,108</b>	<b>\$40,692,258</b>	<b>\$47,659,365</b>	<b>\$21,646,684</b>	<b>68.8%</b>

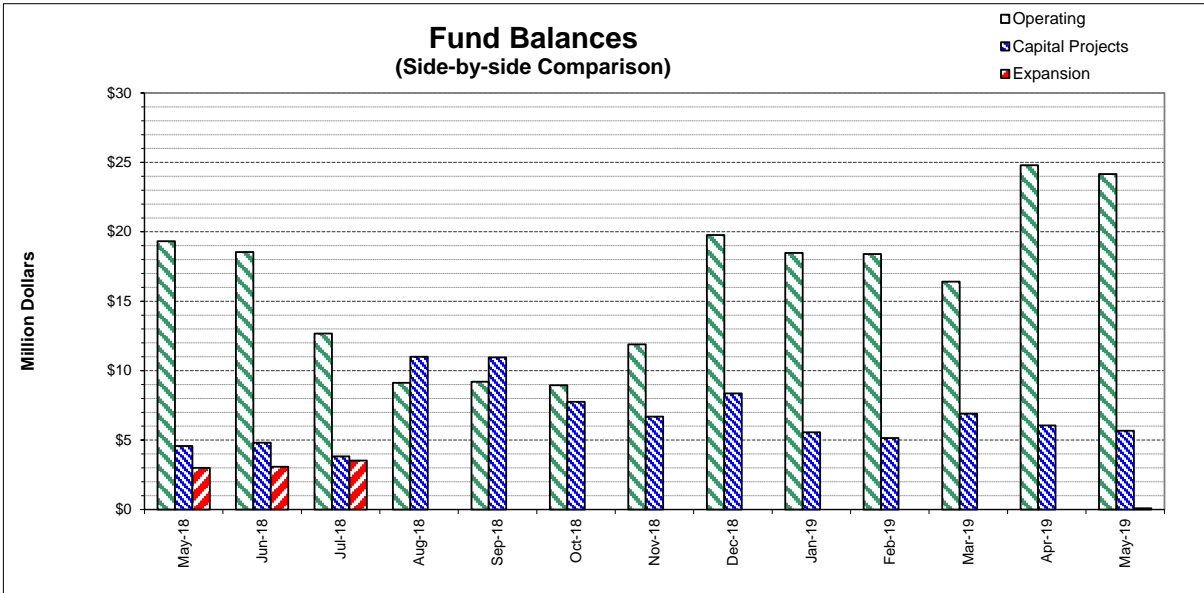
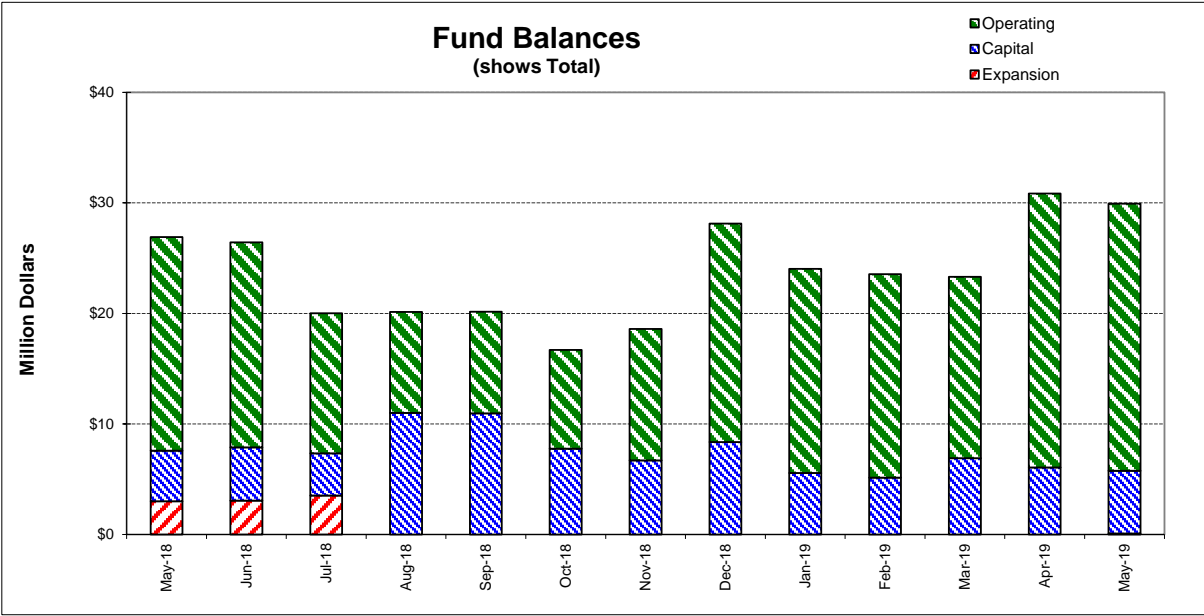
<i>Revenues</i>	FY 18/19 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
<b>Operating</b>						
Use of Money/Property	\$1,036,000		\$1,058,985	\$1,058,985	(\$22,985)	102.2%
Charges for Services	29,571,800		28,610,352	28,610,352	961,448	96.7%
Miscellaneous Revenues	63,000		63,822	63,822	(822)	101.3%
Donations/Contributions (Capital Labor)	-		785,621	785,621	(785,621) (4)	N/A
<b>Total Operating:</b>	<b>\$30,670,800</b>		<b>\$30,518,779</b>	<b>\$30,518,779</b>	<b>\$152,021</b>	<b>99.5%</b>
<b>Capital</b>						
Use of Money/Property	\$0		\$484	\$484	(\$484)	N/A
Capacity Charges	4,614,600		2,055,319	2,055,319	2,559,281	44.5%
Intergovernmental	375,000		485,108	485,108	(110,108)	129.4%
Bond/Loan Proceeds	9,075,000		-	-	9,075,000 (5)	0.0%
Sale of Assets	25,000		100,230	100,230	(75,230)	N/A
Miscellaneous Revenues	5,000		-	-	5,000	N/A
Intrafund Transfers	16,150,000		11,615,275	11,615,275	4,534,725	71.9%
<b>Total Capital:</b>	<b>\$30,244,600</b>		<b>\$14,256,417</b>	<b>\$14,256,417</b>	<b>\$15,988,183</b>	<b>47.1%</b>
<b>Grand Total Revenue:</b>	<b>\$60,915,400</b>		<b>\$44,775,196</b>	<b>\$44,775,196</b>	<b>\$16,140,204</b>	<b>73.5%</b>

**Cash on Hand as of 5/31/19**

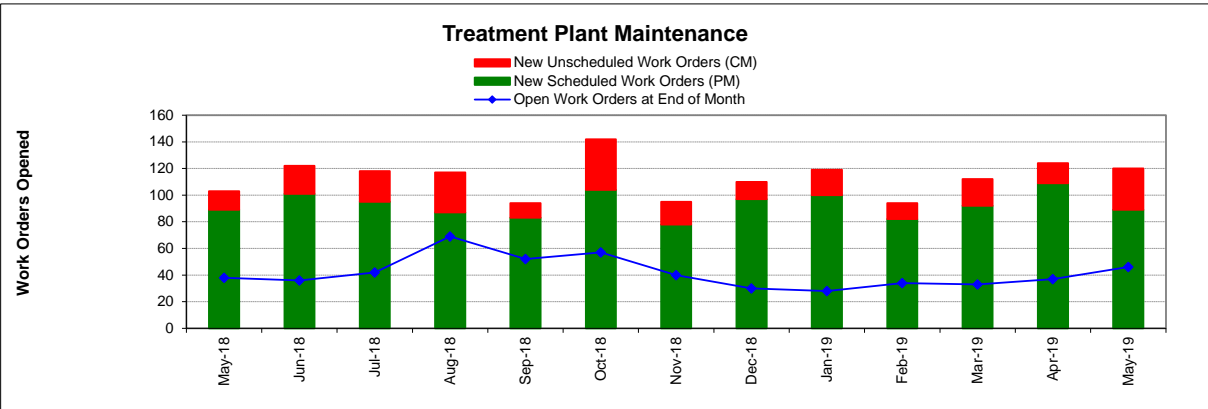
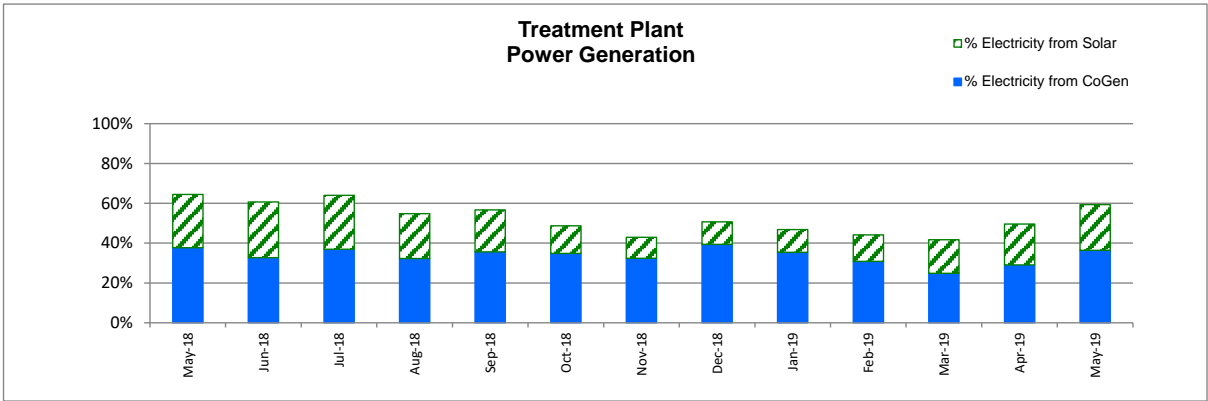
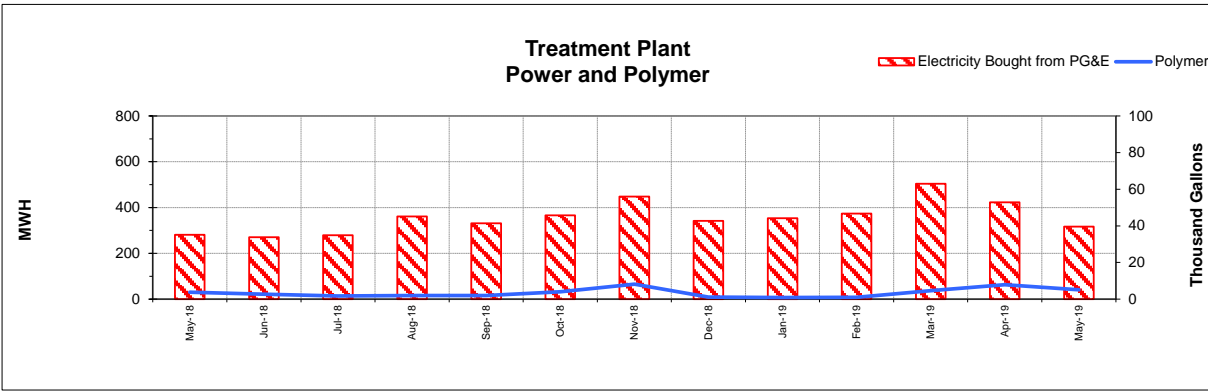
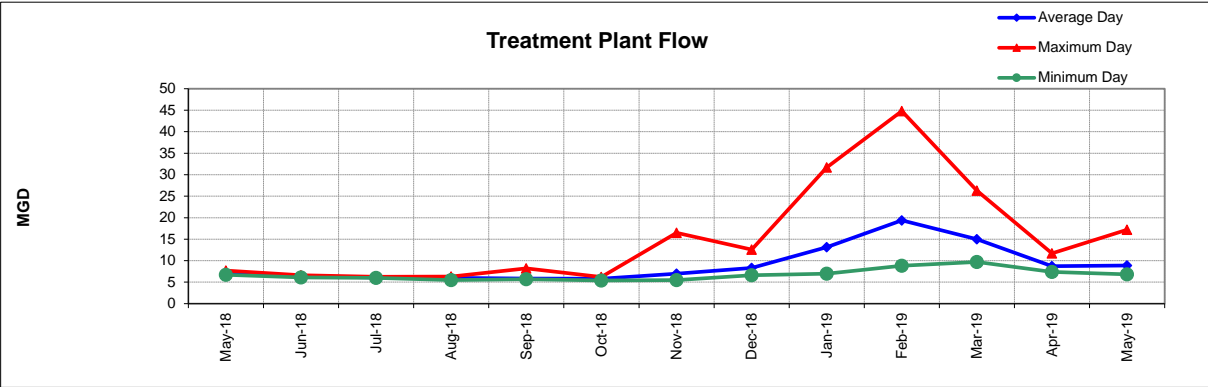
**\$29,928,226**

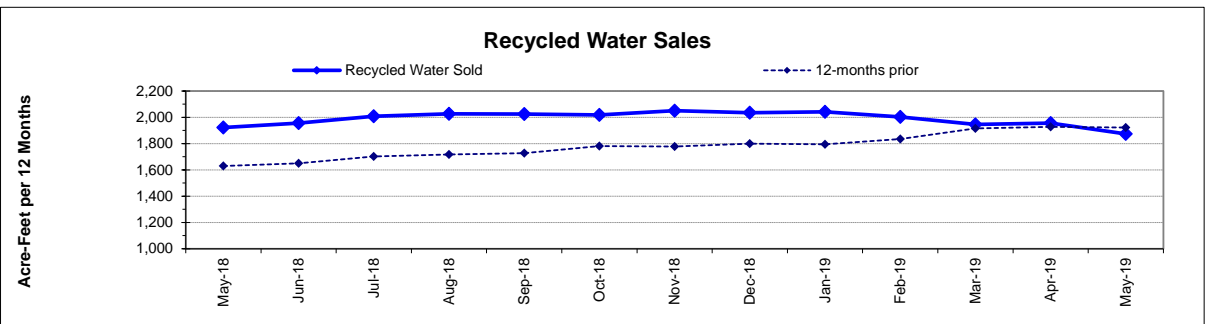
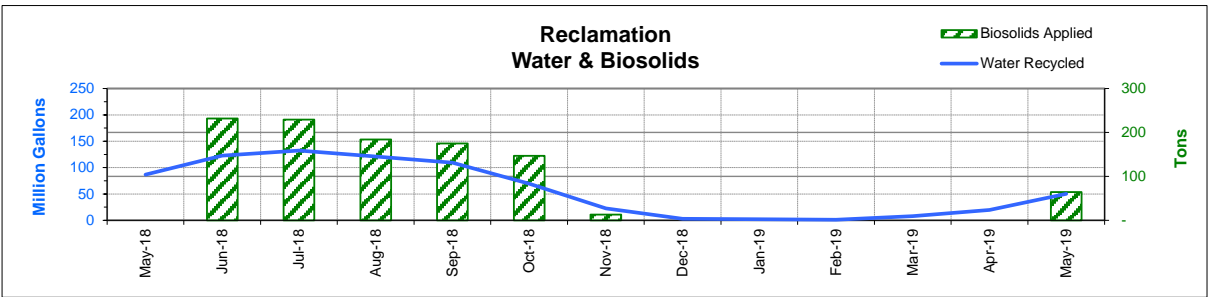
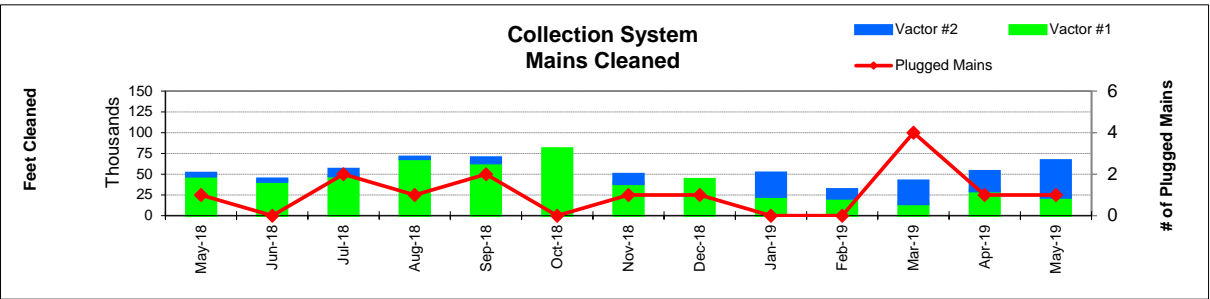
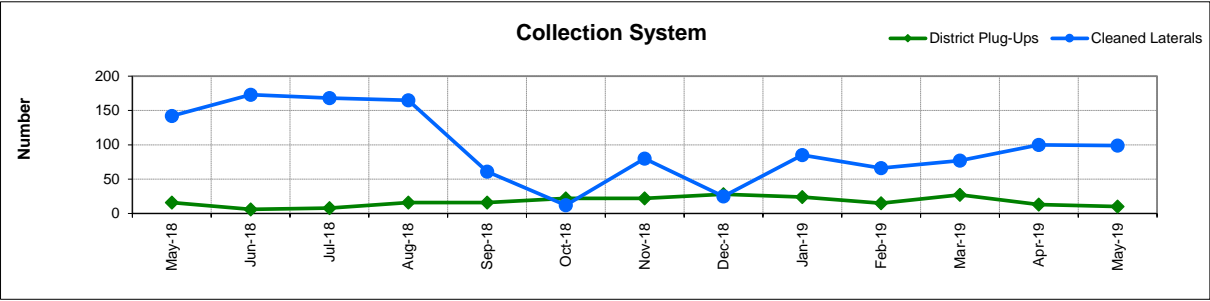
\*\*excluding Debt Service restricted funds  
5/31/19 -Effective Rate of Return = 2.27%

1. Series 2012A's and 2017's principal/interest payments are made in Aug & Feb
2. Includes Debt Service and Intrafund Transfers; otherwise is 81.3%
3. See Capital Project Status report for details
4. In-house Labor for Capital Projects (Contra acct for Salaries)
5. Waiting for approval of funds from State









**FUND BALANCES - MONTHLY**

<b>CATEGORY</b>	<b>May-18</b>	<b>Jun-18</b>	<b>Jul-18</b>	<b>Aug-18</b>	<b>Sep-18</b>	<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>Jan-19</b>	<b>Feb-19</b>	<b>Mar-19</b>	<b>Apr-19</b>	<b>May-19</b>
<i>(Thousand Dollars)</i>													
7800	19,326	18,538	12,676	9,123	9,204	8,951	11,888	19,772	18,473	18,394	16,405	24,793	24,164
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Operating</b>	<b>19,326</b>	<b>18,538</b>	<b>12,676</b>	<b>9,123</b>	<b>9,204</b>	<b>8,951</b>	<b>11,888</b>	<b>19,772</b>	<b>18,473</b>	<b>18,394</b>	<b>16,405</b>	<b>24,793</b>	<b>24,164</b>
Capital Improvement Projects	4,573	4,808	3,825	11,009	10,956	7,755	6,698	8,363	5,567	5153	6,899	6,058	5,671
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Capital</b>	<b>4,573</b>	<b>4,808</b>	<b>3,825</b>	<b>11,009</b>	<b>10,956</b>	<b>7,755</b>	<b>6,698</b>	<b>8,363</b>	<b>5,567</b>	<b>5,153</b>	<b>6,899</b>	<b>6,058</b>	<b>5,671</b>
<b>Total Discretionary Funds</b>	<b>23,899</b>	<b>23,346</b>	<b>16,501</b>	<b>20,132</b>	<b>20,160</b>	<b>16,706</b>	<b>18,586</b>	<b>28,135</b>	<b>24,040</b>	<b>23,547</b>	<b>23,304</b>	<b>30,851</b>	<b>29,835</b>
Expansion Fund (Restricted)	3,007	3,075	3,520	-	-	-	-	-	-	-	-	-	93
<b>Total Restricted Funds</b>	<b>3,007</b>	<b>3,075</b>	<b>3,520</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>93</b>
<b>TOTAL ALL FUNDS</b>	<b>26,906</b>	<b>26,421</b>	<b>20,021</b>	<b>20,132</b>	<b>20,160</b>	<b>16,706</b>	<b>18,586</b>	<b>28,135</b>	<b>24,040</b>	<b>23,547</b>	<b>23,304</b>	<b>30,851</b>	<b>29,928</b>

# DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
<b><u>Phone Requests</u></b>													
Maps/Drawings	6	8	4	2	2	3	1	2	6	2	4	0	17
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	9	8	9	10	4	6	3	6	8	7	5	5	10
Development Questions	79	80	61	63	28	70	41	44	40	35	48	53	79
Miscellaneous	17	27	37	24	26	20	18	25	27	18	25	29	29
<b>TOTAL</b>	<b>111</b>	<b>123</b>	<b>111</b>	<b>99</b>	<b>60</b>	<b>99</b>	<b>63</b>	<b>77</b>	<b>81</b>	<b>62</b>	<b>82</b>	<b>87</b>	<b>135</b>
<b><u>Counter Requests</u></b>													
Maps/Drawings	1	1	-	3	-	1	-	1	-	-	-	1	0
Lateral Permits	10	12	9	9	3	9	5	10	12	8	11	7	11
Policy Questions	1	-	2	3	-	2	-	1	-	-	3	4	0
Development Questions	13	12	12	9	5	6	6	5	10	9	13	10	7
Miscellaneous	1	1	2	2	2	0	-	1	1	-	-	0	2
<b>TOTAL</b>	<b>26</b>	<b>26</b>	<b>25</b>	<b>26</b>	<b>10</b>	<b>18</b>	<b>11</b>	<b>18</b>	<b>23</b>	<b>17</b>	<b>27</b>	<b>22</b>	<b>20</b>
<b><u>Initial Request (Referrals)</u></b>	20	13	13	17	16	21	20	15	18	14	16	24	20
<b><u>Connection Permits Issued</u></b>													
Residential Permits	3	3	5	16	9	1	1	2	-	4	5	2	6
Commercial Permits	2	3	5	5	1	-	2	-	1	-	1	2	3
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL PERMITS</b>	<b>5</b>	<b>6</b>	<b>10</b>	<b>21</b>	<b>10</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>9</b>
Residential Units	3	3	5	16	18	1	1	2	-	4	36	2	6
Commercial Units	174	3	5	8	1	-	2	-	1	-	1	2	3
<b>TOTAL UNITS</b>	<b>177</b>	<b>6</b>	<b>10</b>	<b>24</b>	<b>19</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>37</b>	<b>4</b>	<b>9</b>
<b><u>Annexations</u></b>													
Submitted	-	-	1	1	1	-	1	-	1	-	-	-	1
Acreage	-	-	0.60	11.60	5.79	-	158.20	-	4.90	-	-	-	0.50
<b><u>Plans Reviewed</u></b>													
<b><u>Subdivisions/Sites</u></b>													
First Submittal	4	10	10	18	9	10	10	9	2	5	6	5	14
Second Submittal	8	3	5	8	4	5	2	5	7	5	6	3	8
Third Submittal	2	2	3	3	4	2	1	1	1	5	3	4	10
<b><u>Building/Tenant Improvements</u></b>													
First Submittal	19	18	10	8	8	11	8	11	5	8	7	15	3
Second Submittal	7	6	8	6	1	5	6	-	4	2	5	2	3
Third Submittal	2	3	5	4	3	1	3	1	1	2	3	7	-
<b><u>Miscellaneous Plan Reviews</u></b>	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL PLANS REVIEWED</b>	<b>42</b>	<b>42</b>	<b>41</b>	<b>47</b>	<b>29</b>	<b>34</b>	<b>30</b>	<b>27</b>	<b>20</b>	<b>27</b>	<b>30</b>	<b>36</b>	<b>38</b>

# INSPECTION WORKLOAD - MONTHLY

CATEGORY	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
<b><u>CONSTRUCTION</u></b>													
Locating Sewers	-	-	-	1	-	-	1	2	4	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	7	2	3	1	3	-	1	3	-	-	3	5	7
Inspections - Mains	4	-	2	6	11	1	-	1	-	1	1	-	-
Inspections - Manholes	25	12	-	6	76	76	21	30	49	75	19	18	6
Inspections - Laterals	25	15	7	13	3	8	3	28	18	23	31	21	8
Inspections - Cleanouts	43	7	3	2	2	6	8	37	31	39	39	46	43
Inspections - Review Video	-	17	1	-	2	-	1	2	-	2	2	1	1
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	1	-	-	-	-	-	-	2	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>104</b>	<b>53</b>	<b>17</b>	<b>29</b>	<b>97</b>	<b>91</b>	<b>35</b>	<b>103</b>	<b>102</b>	<b>142</b>	<b>95</b>	<b>91</b>	<b>65</b>
<b><u>MISCELLANEOUS</u></b>													
Meter Readings	13	-	-	-	-	-	1	10	26	4	-	4	14
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	28	21	40	27	31	50	25	30	34	41	13	20	16
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>41</b>	<b>21</b>	<b>40</b>	<b>27</b>	<b>31</b>	<b>50</b>	<b>26</b>	<b>40</b>	<b>60</b>	<b>45</b>	<b>13</b>	<b>24</b>	<b>30</b>
<b><u>SPECIAL PROJECTS</u></b>													
	0	9	21	23	35	36	19	0	7	7	21	20	21

# POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
<b><u>Outreach Activities</u></b>													
Plant Tours Conducted	5	3	1	3	6	4	1	1	2	6	1	10	1
Presentations Made	5	0	1	0	2	10	0	0	1	0	2	3	1
<b>Total Outreach Activities</b>	10	3	2	3	8	14	1	1	3	6	3	13	2
<b><u>Inspections Conducted</u></b>													
Food Service Facilities	10	-	-	-	-	-	-	1	22	41	26	47	21
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	1	-	-	-	-	-	-
<b>Total Inspections</b>	10	-	-	-	-	-	1	1	22	41	26	47	21
<b><u>Compliance Issues</u></b>													
NOVs Issued	1	3	-	3	1	2	1	-	1	1	1	1	2
NOEs Issued	-	1	-	1	-	1	1	-	-	1	-	-	-
Non-Compliant-FOG	-	-	-	-	-	-	-	-	1	-	-	-	-
<b>Total Compliance Issues</b>	1	4	-	4	1	3	2	-	2	2	1	1	2
<b><u>Pollution Prevention</u></b>													
Clothes Washer Rebates	8	21	-	-	-	-	29	23	6	8	-	19	-
Toilet Retrofit Rebates	-	-	-	-	-	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	-	74	90	65	61	68	56	-	124	-	102	-	45

**RECYCLED WATER DELIVERIES - MONTHLY**

	<b>Acres</b>	<b>May-18</b>	<b>Jun-18</b>	<b>Jul-18</b>	<b>Aug-18</b>	<b>Sep-18</b>	<b>Oct-18</b>	<b>Nov-18</b>	<b>Dec-18</b>	<b>Jan-19</b>	<b>Feb-19</b>	<b>Mar-19</b>	<b>Apr-19</b>	<b>May-19</b>
<b>MONTHLY (MG)</b>														
<b><u>Water Sold</u></b>														
Golf Courses	405.0	52.726	68.294	64.047	57.269	44.197	23.612	3.322	0.008	0.002	-	0.014	9.555	25.976
Cemeteries	57.1	3.183	3.643	4.903	4.920	4.142	3.239	2.872	0.690	0.380	-	0.273	1.494	3.671
Parks	18.5	0.823	0.949	1.051	0.846	0.527	0.050	0.611	-	0.002	-	-	0.020	0.263
Schools	21.0	1.727	2.151	2.122	2.044	1.571	1.231	0.745	0.060	0.098	0.043	0.041	0.251	0.988
Commerical	167.6	9.893	12.414	15.863	19.184	16.950	19.637	7.652	1.891	1.379	0.557	0.648	4.974	10.516
Vineyards	564.0	6.377	21.260	43.468	32.727	21.248	9.649	7.015	0.239	0.380	0.513	7.149	3.250	6.107
Trucked Water	175.0	0.143	0.737	0.666	0.637	0.399	0.289	0.403	0.033	0.007	0.020	0.017	0.110	0.421
<b>Subtotal Sales</b>	<b>1,408.2</b>	<b>74.872</b>	<b>109.448</b>	<b>132.120</b>	<b>117.628</b>	<b>89.035</b>	<b>57.707</b>	<b>22.620</b>	<b>2.921</b>	<b>2.248</b>	<b>1.133</b>	<b>8.142</b>	<b>19.654</b>	<b>47.943</b>
<b><u>District Use</u></b>														
Jameson	330.0	-	-	-	0.163	4.785	-	-	-	-	-	-	-	-
Somky	213.0	11.710	13.263	0.208	3.226	15.447	12.002	0.008	-	-	-	-	-	2.504
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal District</b>	<b>593.5</b>	<b>11.710</b>	<b>13.263</b>	<b>0.208</b>	<b>3.389</b>	<b>20.232</b>	<b>12.002</b>	<b>0.008</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2.504</b>
<b>TOTAL DELIVERED</b>	<b>2,001.7</b>	<b>86.582</b>	<b>122.711</b>	<b>132.327</b>	<b>121.016</b>	<b>109.266</b>	<b>69.709</b>	<b>22.628</b>	<b>2.921</b>	<b>2.248</b>	<b>1.133</b>	<b>8.142</b>	<b>19.654</b>	<b>50.447</b>
<b>ANNUAL (AF)</b>														
<b><u>Water Sold</u></b>														
Golf Courses	405.0	1,091	1,097	1,067	1,063	1,035	1,025	1,019	1,000	1,000	981	972	991	909
Cemeteries	57.1	25	34	46	58	69	76	84	86	88	88	88	91	93
Parks	18.5	14	14	14	14	14	13	15	15	15	15	15	15	13
Schools	21.0	39	38	37	37	37	36	38	38	38	38	37	37	35
Commerical	167.6	318	303	298	303	309	327	337	338	343	339	335	341	343
Vineyards	564.0	427	460	534	540	550	529	545	545	546	531	485	470	470
Trucked Water	175.0	8	10	11	11	12	12	13	13	13	13	13	11	11
<b>Subtotal Sales</b>	<b>1,408.2</b>	<b>1,923</b>	<b>1,955</b>	<b>2,008</b>	<b>2,026</b>	<b>2,025</b>	<b>2,018</b>	<b>2,051</b>	<b>2,035</b>	<b>2,042</b>	<b>2,003</b>	<b>1,945</b>	<b>1,956</b>	<b>1,874</b>
<b><u>District Use</u></b>														
Jameson	330.0	143	143	121	64	15	15	15	15	15	15	15	15	15
Somky	213.0	240	244	210	178	166	171	171	171	171	171	171	171	143
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal District</b>	<b>593.5</b>	<b>383</b>	<b>387</b>	<b>330</b>	<b>243</b>	<b>182</b>	<b>187</b>	<b>187</b>	<b>187</b>	<b>187</b>	<b>187</b>	<b>187</b>	<b>187</b>	<b>158</b>
<b>TOTAL DELIVERED</b>	<b>2,001.7</b>	<b>2,306</b>	<b>2,343</b>	<b>2,338</b>	<b>2,269</b>	<b>2,207</b>	<b>2,205</b>	<b>2,237</b>	<b>2,222</b>	<b>2,229</b>	<b>2,189</b>	<b>2,132</b>	<b>2,143</b>	<b>2,032</b>

# BIOSOLIDS HANDLING - MONTHLY

Site	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
<u>Land Applied by NSD</u>													
Somky					175								
Airport/Fagundes													
Jameson Canyon	-	232	229	184		147	13	-	-	-	-	-	-
Subtotal by NSD	-	232	229	184	175	147	13	-	-	-	-	-	-
<u>Land Applied by Contractor</u>													
Somky													65
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	65
<b>Total Land Applied</b>	<b>-</b>	<b>232</b>	<b>229</b>	<b>184</b>	<b>175</b>	<b>147</b>	<b>13</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>65</b>
<b>Off Site (Contractor)</b>													
<b>Total (tons)</b>	<b>-</b>	<b>232</b>	<b>229</b>	<b>184</b>	<b>175</b>	<b>147</b>	<b>13</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>65</b>



# COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
<b><u>Plugups</u></b>													
<b>Total Calls</b>	44	25	37	39	53	57	64	77	70	43	46	43	46
Business Hours	32	16	24	28	32	36	34	44	47	39	21	23	28
After Hours	12	9	9	11	21	21	30	33	23	4	25	20	18
District's	16	6	8	16	16	22	22	28	24	15	27	13	10
Property Owner's	28	19	29	23	36	35	41	49	46	28	20	30	35
Plugged Main Lines	1		2	1	2	-	1	1	-	-	4	1	1
Run Lateral w/Eel	142	173	168	165	61	12	80	25	85	66	77	100	99
<b><u>Cleaning (feet of sewer)</u></b>													
Vactor #1	47,937	41,767	48,278	69,132	63,968	80,207	38,882	43,194	23,544	21,454	14,808	30,224	22,498
Vactor #2	2,708	2,065	7,290	1,072	5,367	-	10,373	-	27,335	9,420	26,687	22,691	43,466
Hydro Rodder													
<b>Total (feet)</b>	<b>50,645</b>	<b>43,832</b>	<b>55,568</b>	<b>70,204</b>	<b>69,335</b>	<b>80,207</b>	<b>49,254</b>	<b>43,194</b>	<b>50,879</b>	<b>30,875</b>	<b>41,495</b>	<b>52,916</b>	<b>65,964</b>
<b><u>Cleaning Days</u></b>													
Vactor #1	20	19	16	21	19	22	17	19	13	10	6	13	10
Vactor #2	1	1	3	1	3	-	3		7	6	15	8	19
Hydro Rodder													
<b><u>Feet/day</u></b>													
Vactor #1	2,400	2,200	3,000	3,300	3,350	3,650	2,300	2,250	1,800	2,150	2,450	2,300	2,250
Vactor #2	2,700	2,050	2,450	1,050	1,800		3,450		3,900	1,550	1,800	2,850	2,300
Hydro Rodder													
<b><u>Video Inspections</u></b>													
Mains (feet)	26,140	18,248	18,188	27,761	18,443	31,889	17,526	12,509	14,335	5,812	13,050	15,089	24,716
Laterals (each)	197	223	266	234	232	297	201	138	175	133	144	204	173
<b><u>Construction (each)</u></b>													
Cleanouts	10	8	27	25	6	5	50	1	18	3	17	15	12
Laterals	24	10	9	8	8	4	4	15	6	3	3	4	13
Mains						1		-	-		1		
Manholes	2			2	1	1		-	-		1		
Other													
<b><u>USA Markings</u></b>													
Regular (w/in 2 days)	282	277	397	296	286	378	159	159	171	224	338	327	338
Emergency (w/in 2 hours)	37	16	8	12	15	15	32	12	24	15	22	20	20

## WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
<b>FLOWES</b>		<b>31</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>28</b>	<b>31</b>	<b>30</b>	<b>31</b>
Influent	MG	216.7	191.0	189.8	186.1	176.1	180.0	208.8	257.6	407.2	542.7	465.3	261.4	275.4
Average Day	MGD	7.0	6.4	6.1	6.0	5.9	5.8	7.0	8.3	13.1	19.4	15.0	8.7	8.9
Maximum Day	Date	1-May	4-Jun	1-Jul	19-Aug	16-Sep	2-Oct	29-Nov	1-Dec	17-Jan	14-Feb	6-Mar	1-Apr	19-May
Maximum Day Flow	MG	7.7	6.6	6.3	6.3	8.2	6.2	16.5	12.6	31.7	44.8	26.3	11.7	17.2
Minimum Day	Date	31-May	27-Jun	6-Jul	22-Aug	21-Sep	31-Oct	1-Nov	13-Dec	3-Jan	1-Feb	19-Mar	30-Apr	14-May
Minimum Day Flow	MG	6.7	6.1	6.0	5.5	5.7	5.4	5.5	6.6	7.0	8.8	9.7	7.4	6.8
Effluent	MG	95.8	134.0	133.0	124.4	104.7	68.1	289.9	384.2	497.1	507.1	618.1	455.7	55.5
River Discharge	MG	-	-	-	-	-	-	263.8	378.9	491.6	507.1	618.1	424.4	-
Recycled Flow	MG	95.8	134.0	133.0	124.4	104.7	68.1	26.1	5.2	5.5	-	8.5	25.4	55.5
<b>BIOSOLIDS</b>	<b>Tons</b>	<b>719</b>	<b>760</b>	<b>798</b>	<b>775</b>	<b>943</b>	<b>745</b>	<b>572</b>	<b>767</b>	<b>700</b>	<b>451</b>	<b>413</b>	<b>575</b>	<b>493</b>
Wet Tons Generated from Pond	Tons													
Wet Tons Generated from Plant	Tons	719	760	798	775	943	745	572	767	700	451	413	575	493
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
<b>POLYMER USE</b>	<b>Gallons</b>	<b>3,816</b>	<b>2,636</b>	<b>1,732</b>	<b>1,936</b>	<b>1,915</b>	<b>4,044</b>	<b>8,169</b>	<b>1,155</b>	<b>868</b>	<b>1,046</b>	<b>4,557</b>	<b>7,851</b>	<b>5,053</b>
Pond Pre-Floculators	Gallons	-	-	-	-	-	59	2,293	-	-	-	2,668	4,704	288
Flocculator Polymer 1	Gallons						-	-	-	-	-	-	-	-
Flocculator Polymer 2	Gallons	-	-	-	-	-	34	784	294	-	-	974	755	79
Filter Polymer 1	Gallons	2,850	1,677	824	1,361	1,259	2,944	4,503		178	404	460	1,584	4,100
Filter Polymer 2	Gallons	-	-	-	-	-	-	-		-	-	-	-	-
Belt Presses	Gallons	966	959	908	575	656	1,007	589	788	690	642	455	808	586
<b>ENERGY</b>														
Total Electricity Used	MWH	748	813	775	798	765	714	785	684	663	670	864	840	779
Purchased from PGE	MWH	281	270	279	361	331	366	448	342	353	374	504	423	317
Produced from Co-Gen	MWH	282	266	286	258	272	249	254	265	235	207	215	244	284
Percent Produced	%	38%	33%	37%	32%	36%	35%	32%	39%	35%	31%	25%	29%	36%
Purchased from Solar	MWH	200	227	210	179	162	99	83	77	75	89	145	173	178
Percent Produced		27%	28%	27%	22%	21%	14%	11%	11%	11%	13%	17%	21%	23%
Purchased Natural Gas	Therms	22	63	116	68	34	532	516	341	158	407	404	227	140
Methane Flared Off	KSCF	110	308	344	259	391	507	192	266	34	7	14	130	164
<b>Stand By Calls</b>	<b>#</b>	<b>135</b>	<b>52</b>	<b>57</b>	<b>71</b>	<b>40</b>	<b>75</b>	<b>133</b>	<b>55</b>	<b>71</b>	<b>75</b>	<b>52</b>	<b>26</b>	<b>80</b>
Violations	#	-	-	-	-	-	-	-	-	-	-	-	-	-

# WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19
<b><u>Scheduled</u></b>													
Old	6	8	9	13	31	20	21	10	6	5	11	10	15
New	89	101	95	87	83	104	78	97	100	82	92	109	89
Completed	87	100	91	69	94	103	89	101	101	76	93	104	79
<b>New Balance</b>	<b>8</b>	<b>9</b>	<b>13</b>	<b>31</b>	<b>20</b>	<b>21</b>	<b>10</b>	<b>6</b>	<b>5</b>	<b>11</b>	<b>10</b>	<b>15</b>	<b>25</b>
<b><u>Unscheduled</u></b>													
Old	36	30	27	29	38	32	36	30	24	23	23	23	22
New	14	21	23	30	11	38	17	13	19	12	20	15	31
Completed	20	24	21	21	17	34	23	19	20	12	20	16	32
<b>New Balance</b>	<b>30</b>	<b>27</b>	<b>29</b>	<b>38</b>	<b>32</b>	<b>36</b>	<b>30</b>	<b>24</b>	<b>23</b>	<b>23</b>	<b>23</b>	<b>22</b>	<b>21</b>
<b><u>Total Work Orders</u></b>													
Old	42	38	36	42	69	52	57	40	30	28	34	33	120
New	103	122	118	117	94	142	95	110	119	94	112	124	11
Completed	107	125	112	90	111	137	112	120	120	88	112	120	46
<b>New Balance</b>	<b>38</b>	<b>36</b>	<b>42</b>	<b>69</b>	<b>52</b>	<b>57</b>	<b>40</b>	<b>30</b>	<b>28</b>	<b>34</b>	<b>33</b>	<b>37</b>	<b>46</b>
<b><u>LAB ANALYSES</u></b>													
<b><u>Sample Type</u></b>													
Regulatory	188	146	139	182	132	129	195	175	169	117	164	155	190
Process Control	796	871	917	890	926	486	1,154	1,087	1,155	1,111	1,199	1,195	760
Special Request	6	34	2	-	-	13	-	2	-	8	2	-	1
Quality Control/Assurance	489	500	483	622	401	328	1,128	705	776	639	754	1,447	812
<b>TOTAL</b>	<b>1,479</b>	<b>1,551</b>	<b>1,541</b>	<b>1,694</b>	<b>1,459</b>	<b>956</b>	<b>2,477</b>	<b>1,969</b>	<b>2,100</b>	<b>1,875</b>	<b>2,119</b>	<b>2,797</b>	<b>1,763</b>

**Summary of NSD Capital Project Status  
through 05-31-19**

Proj #	Description	FY 18/19 Budget	FY 17/18 Carryovers	Adj.	Final FY 18/19 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<b><u>COLLECTION SYSTEM</u></b>								
13701	Main Line Sewer Rehabilitation	95,000			95,000	6,750	30,631	57,619	32%
13702	Manhole Raising/Rehabilitation	428,500		(50,000)	378,500	-	294,002	84,498	78%
13703	Lateral Replacement/Rehabilitation	77,100		50,000	127,100	-	79,557	47,543	63%
13704	Cleanouts Installation/Rehabilitation	93,200			93,200	-	70,504	22,696	76%
13705	Inflow & Infiltration (I&I) Reduction Program	214,200			214,200	100,850	30,893	82,457	14%
14703	Browns Valley Rd & First St	5,075,000			5,075,000	1,374	244,122	4,829,505	5%
17704	Infltrtn Rehab - SSMH/PL (CI-)	-	73,900	(40,000)	33,900	-	8,400	25,500	25%
17708	Basin G - I&I Reduction #1	-	200,000		200,000	-	153,759	46,241	77%
18701	I&I Smoke Testing	-	99,750		99,750	6,629	64,912	28,210	65%
18702	Collection System Asset Management Software	275,000	349,550		624,550	348,947	152,433	123,170	24%
18703	Upper Lateral Rehab - Basin L (Pilot) #3	-	5,000		5,000	-	414	4,586	8%
18705	Sewer System Inflow/Infiltration 2018	2,600,000	2,298,750	(20,000)	4,878,750	7,633	4,307,996	563,121	88%
18706	Sewer System Inflow/Infiltration 2019	2,321,100	13,900	335,850	2,670,850	1,678,428	416,120	576,302	16%
19701	66-inch Trunk Rehabilitation (Kaiser to IPS)	1,400,000			1,400,000	510,940	178,816	710,244	13%
19702	72-inch Trunk Construction (Kaiser to IPS)	1,000,000		(1,000,000)	-	-	-	-	-
19703	2020 Collection System Rehabilitation	20,000			20,000	-	5,767	14,233	29%
19727	Collection System Master Plan	-		1,000,000	1,000,000	367,798	253,583	378,618	25%
	<b><u>COLLECTION SYSTEM - EQUIPMENT</u></b>								
18708	Manhole - Smart Covers (4)	-	15,000		15,000	-	14,978	22	100%
18738	Combination Truck Veh #529B	-	3,600		3,600	-	3,600	-	100%
19704	Vehicle 180 - Ford F150 - USA Truck	35,400			35,400	-	35,400	-	100%
19729	Replace Coll Veh #166	-		40,000	40,000	-	37,335	2,665	93%
19730	CCTV Camera Transporter	-		20,000	20,000	-	19,637	363	98%
	<b><u>LIFT STATIONS</u></b>								
17711	West Napa PS - Rehab	5,200,000			5,200,000	280,231	599,125	4,320,645	12%
19705	Stonecrest PS Pump Rebuild	45,000			45,000	-	4,894	40,106	11%
	<b><u>TREATMENT</u></b>								
13745	Pond 1 Dredge	600,000		(350,000)	250,000	14,680	11,673	223,647	5%
	<b><u>TREATMENT - EQUIPMENT</u></b>								
13735	Dual Fuel Boiler Burner	-	155,300		155,300	32,908	-	122,393	-
15711	Rotork Actuator Replacement	-	7,600		7,600	-	-	7,600	-

**Summary of NSD Capital Project Status  
through 05-31-19**

<b>Proj #</b>	<b>Description</b>	<b>FY 18/19 Budget</b>	<b>FY 17/18 Carryovers</b>	<b>Adj.</b>	<b>Final FY 18/19 Budget</b>	<b>Encumbrance</b>	<b>Costs Paid to Date</b>	<b>Budget Remaining</b>	<b>% Budget Expended</b>
15713	Aeration Basin Instrmntn/Ctrl	-	6,750		6,750	-	-	6,750	-
16712	Main - Primary Clarifier Mech/Struct Rehabilitation	150,000		90,000	240,000	63,699	75,210	101,091	31%
17713	Secondary PS VFD Rplcmnt (3)	57,400		(57,400)	-	-	-	-	-
17715	Turbidimeters (7) Tertiary Rplcmnts	-	16,000		16,000	-	-	16,000	-
18711	3W Strainer	-	52,750		52,750	-	28,374	24,376	54%
18715	Muffle Furnace - Replacement	-	5,000		5,000	-	-	5,000	-
18716	Rotork Actuator Replacement	-	67,200	18,600	85,800	-	79,396	6,404	93%
18719	Filter Flow Control - Rotork Valves	-	46,600		46,600	-	36,668	9,932	79%
18720	Neuros Blowers Rebuild	64,300			64,300	-	-	64,300	-
18722	FOG Station Water Heater	-	5,000		5,000	-	-	5,000	-
18725	Belt Press Hydraulic Actuator Replace	-	20,000		20,000	-	18,764	1,236	94%
18740	Main - Chemical Storage Building Piping Repair	250,000	25,000	1,000,000	1,275,000	838,238	244,715	192,047	19%
19706	WWTP MP - 3W System Improvements Phase 2	300,000			300,000	-	4,060	295,940	1%
19707	Portable Pumps 10-inch (2)	172,100		42,400	214,500	-	214,379	121	100%
19708	Main - Rotork Actuator Replacement	95,000			95,000	-	-	95,000	-
19709	Main - Polymer Tank (3) Replacement	10,000			10,000	-	-	10,000	-
19710	Main - 12kV Redundant Line	120,000			120,000	-	854	119,146	1%
19711	Main - CCB Coating - E&W Channels	50,000		(50,000)	-	-	-	-	-
19712	Main - Utility Generator Power Transition	75,000		(40,000)	35,000	-	-	35,000	-
19713	Main - Cogen Hot Water to FOG Pad	50,000			50,000	-	-	50,000	-
19714	Main - Ventilation System Expansion Boots	50,000			50,000	-	28,740	21,260	57%
19715	Main - ARV Replacement	30,000			30,000	-	29,299	701	98%
19716	Main - P4PS Pump #3 Rebuild	40,000			40,000	-	35,523	4,477	89%
19728	Lab Sampler	-		8,000	8,000	-	7,298	702	91%
	<b>TREATMENT - STRUCTURES</b>								
17726	Headworks Equipment Rehab/Replacment	1,900,000	9,250		1,909,250	1,538,029	275,537	95,684	14%
18736	Treatment Plant Project 2018	2,100,000	854,000		2,954,000	60,243	2,760,868	132,888	93%
19717	WWTP MP - Pond Transfer Structures 2 to 3	5,000		350,000	355,000	262,013	70,126	22,861	20%
	<b>SCADA</b>								
18729	SCADA MP Project #1 - Network Monitoring	-	48,700		48,700	-	2,501	46,199	5%
19718	SCADA MP Phase 5 Security Study	250,000			250,000	65,701	131,892	52,407	53%
	<b>RECYCLING - DISTRICT</b>								
16716	Line Recycled Water Reservoir	-	100,000		100,000	2,125	82,966	14,909	83%

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<b>Proj #</b>	<b>Description</b>	<b>FY 18/19 Budget</b>	<b>FY 17/18 Carryovers</b>	<b>Adj.</b>	<b>Final FY 18/19 Budget</b>	<b>Encumbrance</b>	<b>Costs Paid to Date</b>	<b>Budget Remaining</b>	<b>% Budget Expended</b>
18730	Jameson 24" Flow Meter Rehab	-	6,200		6,200	-	-	6,200	-
18731	Coombsville Truck Fill Station	375,000	65,050		440,050	322,938	108,559	8,553	25%
19719	24-inch Valve Replacement - Kirkland Line	5,000			5,000	-	-	5,000	-
19720	Jameson PS VFD	68,900			68,900	-	-	68,900	-
19721	Soscol RW Pump Replacement/Rehab	150,000			150,000	91,651	-	58,349	-
19722	Vehicle 723/720 - Attachments/Implements	28,700			28,700	-	25,783	2,917	90%
	<b><u>RECYCLING - EXPANSION</u></b>								
13727	North Bay Wate Reuse Project	150,000			150,000	-	97,014	52,986	65%
	<b><u>OTHER</u></b>								
13729	Development Technical Support	248,300		120,100	368,400	-	277,173	91,227	75%
19723	AV System Replacement - Conference Rooms	20,000			20,000	-	-	20,000	-
19724	Fence Repair - District Wide	25,000		7,000	32,000	18,162	12,540	1,298	39%
19725	Vehicle 011 - CSET Trailer	23,700			23,700	-	373	23,327	2%
19726	Vehicle 607 - Electrical Hybrid Vehicle	42,800			42,800	-	39,038	3,762	91%
<b>GRAND TOTAL ALL PROJECTS</b>		<b>\$26,385,700</b>	<b>\$4,549,850</b>	<b>\$1,474,550</b>	<b>\$32,410,100</b>	<b>\$6,619,964</b>	<b>\$11,706,204</b>	<b>\$14,083,934</b>	<b>36%</b>