



**Napa Sanitation District**

**General Manager's Report**

**for**

**March, 2017**

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## NAPA SANITATION DISTRICT

## General Manager's Report

*Dedicated to Preserving the Napa River for Generations to Come*

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**DATE:** May 3, 2017

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

**SUBJECT:** General Manager's Report for March, 2017

### **REGULATORY COMPLIANCE:**

Collection System Compliance:	0 Category 1 SSO's, 0 Category 2 SSO's, and 3 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, 2016 – March 31, 2017
Percent Fiscal Year:	75.0%
Operating Expenditures to date:	61.0%
Historical Expenditures to date:	76.4%
Significant Comments:	Historically, the intrafund transfers from Operating to Capital were done on a quarterly basis. Last fiscal year, the transfer was done all at once, which increased the Operating Expenditures significantly. This fiscal year, only the 1 <sup>st</sup> quarter's transfer was done due to the low cashflow in the Operating fund at the beginning of the year. If the 2 <sup>nd</sup> and 3 <sup>rd</sup> quarters' transfers were done, the Operating Expenditures would have been 76.3%, closer to the Historical Expenditures to date.

### **PERSONNEL:**

Significant events for the month of March, 2017 in the Human Resources Department:

New Hires:	None
Separations:	None
Promotions:	None
Recruitment Activities:	None
Injuries:	None

*Summaries of Operational Highlights are on following pages.*

### **COLLECTIONS:**

Significant events for the month of March 2017 in Collection System Maintenance include:

- The District had 0 Category 1 Sanitary Sewer Overflows (SSO's), 0 Category 2 SSO's and 3 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 drain pipe 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 11 cleanouts, repaired/rehabilitated 3 sewer laterals and repaired 5 cleanouts. Additionally, the service response programs crew completed 44 work orders in support of the grease and odor control program, responded to 74 customer requests for service (21 were NSD problem) and closed out 257 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 214 laterals, cleaned approximately 87,419 feet of main line and CCTV inspected approximately 17,209 feet of main line and 35 laterals.

### **TREATMENT PLANT:**

Significant events for the month of March 2017 in the Treatment Plant Department:

#### **Plant Operations**

- For March 2017, the plant's influent flow was 394.1 MG as compared to last year flow for March 2016 of 520.1 MG
- Total flow to the Napa River for March 2017 was 730.8 MG as compared to March 2016 flow of 478.6 MG.
- The production of recycle quality occurred for 2 days during March 2017 with a total flow of 5.0 MG.
- This March power consumption purchased from PG&E was 749 MWH in comparison to March 2016 purchase of 545 MWH.
- There was 3.61" rain fall for March 2017 as compared to 6.00" rain fall for March 2016.
- Pond 4 end of the month recorded level reading was 45.73" as compared to March 2016 of 50.24". Total remaining pond capacity for March 2017 was 40.0% as compared to March 2016 remaining capacity of 39.7%.

#### **Maintenance:**

Significant events for the month of March, 2017:

#### **Cogeneration Performance**

- Cogeneration came back from major overhaul; Cogeneration unit ran 537 of 744 hours for the month – 72.18% uptime, averaging 226.24 Kw

#### Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit.
- Replaced damaged coupler bushing on Cogen waste oil pump
- Rebuilt step feed mixer motor for AB #4 Compartment #5
- West Napa standby generator, battery replacement
- Replaced batteries in PLC # 3, 8 and 9
- Reconfigured JHL and Recycle South flow meters
- Pulled in new conductors for Filter Cell #5 Rotork Actuators

#### Projects

- Cogeneration 500 hour break-in Service;
  - Change oil
  - Replace oil filter socks & air pre-filter
  - Bore scope cylinders
  - Adjust valves
  - Inspect main bearings
  - Tune air fuel module
- Installed vapor odor system to both Primary Clarifiers and Headworks exhaust system
- Rotork Pakscan/replaced #2 loop CPU's and upgrade firmware on FCU cards

#### Standby Power

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

#### Influent Pumps

- Pumps are all operational

#### Laboratory:

Monthly River Discharge Effluent (EFF-001) monitoring was conducted on March 7, 2017. Sample results indicated constituent concentrations were within the District NPDES Permit limits.

Monthly Influent (INF-001) monitoring was conducted on March 7, 2017. Sample results indicated no unusual results and were within local limits.

Monthly Acute Bioassay monitoring was sampled and analyzed from March 6-10, 2017. Monitoring results indicated NPDES Permit compliance with 75% survival in the effluent and 95% survival in the control.

Semiannual Biosolids (BIO-001) monitoring for Semivolatile Organics (EPA 8270C) was conducted from March 14-16, 2017 during normal operating conditions. Sample results indicated no unusual results and were within EPA 503 Table 1 & Table 3 ceiling concentration limits.

Monthly Receiving Water (RSW) monitoring was conducted on March 7. Sample results indicated no unusual results.

### **RECYCLING:**

Significant events in the Recycling Department for March 2017 include:

- Recycled water delivered for the month of March 2017 (0.794 million gallons), is lower as compared to March 2016 (3.042) million gallons) due to commercial development demand. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff hosted approximately twenty five American Canyon High School students who participated in an ongoing restoration project of Sheehy Creek at the Jameson Reuse Site along with the Napa County Resource Conservation District. These students will return for a third time in early May for their final trip to the project for 2017.
- Staff continued encapsulating biosolids on the Jameson Reuse Site due to wet weather.

### **POLLUTION PREVENTION:**

Significant events in the Pollution Prevention Department for March 2017 include:

- The District conducted 1 community presentation at Ag Day and led 11 tours of the facility for local students.
- The Napa Safe Medication Collection Program collected 71 pounds of unneeded medications. The total amount of unneeded medications collected since program inception in September 2010 is 19,807 pounds.
- The District issued 7 Toilet Rebates at \$100 each for a total of \$700.
- The District issued 0 ESME Washer Rebates.

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

Significant events occurring in the Engineering Department for March 2017 include:

- Consultant continued design of the Browns Valley Trunk Project.

- Consultant continued developing a hydraulic model for the District's recycled water distribution system.
- Staff opened public bids for the MST Recycled Water Pipeline Expansion Project.
- Staff opened public bids for the Soscol/Sousa Trunk Rehabilitation Project.
- Consultant and Staff continued work on the Asset Management Plan.
- Consultant continued design of the Recycled Water Reservoir Improvements Project.
- Staff issued Notice to Proceed to K.J. Woods Construction, Inc. for the 2017 Collection System Rehabilitation Project.
- Consultant continued preliminary design work for the Headworks Equipment Rehabilitation Project.
- Staff started design of the 2018 Collection System Rehabilitation Project.
- Staff issued notice to proceed for contractor to install materials for the LED Pole/Arm Fixture Replacement project.
- The contractors continued construction of the following projects:
  - a. Homewood/Westwood Manhole Rehabilitation Project
  - b. Aeration Basin Diffusers, Instrumentation and Controls Project
  - c. Stationary Gas Detectors – Phase II Project
- Staff reviewed 38 sets of development plans and deemed 15 sets of plans complete. The approved plans consisted of one residential lateral, four residential buildings, one public lateral, one demolition, three tenant improvements, and five recycled water laterals.

**Budget Status & Cash Summary - July 1, 2016 - March 31, 2017 (75.0% of the year)**

<i>Expenditures</i>	<b>FY 16/17 Budget</b>	<b>Expenditures to date</b>	<b>Encumbrances</b>	<b>Committed to date</b>	<b>Remaining Balance</b>	<b>Percent Committed</b>
<b><u>Operating</u></b>						
Salaries & Benefits	\$9,371,370	\$6,203,036	\$973	\$6,204,009	\$3,167,361	66.2%
Services & Supplies	6,057,110	3,759,284	794,448	4,553,732	1,503,378	75.2%
Taxes	28,250	14,115	-	14,115	14,135	50.0%
Debt Service	4,773,050	4,769,921	-	4,769,921	3,129 (1)	99.9%
Intrafund Transfers	8,900,000	2,225,000	-	2,225,000	6,675,000 (2)	25.0%
<b>Total Operating:</b>	<b>\$29,129,780</b>	<b>\$16,971,356</b>	<b>\$795,421</b>	<b>\$17,766,777</b>	<b>\$11,363,003</b>	<b>(3) 61.0%</b>
<b><u>Capital</u></b>						
Bldgs/Improvements & Equip	\$19,283,950	\$6,825,360	\$3,959,162	\$10,784,522	\$8,499,428 (4)	55.9%
Intrafund Transfers	5,512,000	3,732,176	-	3,732,176	1,779,824	67.7%
<b>Total Capital :</b>	<b>\$24,795,950</b>	<b>\$10,557,536</b>	<b>\$3,959,162</b>	<b>\$14,516,698</b>	<b>\$10,279,252</b>	<b>58.5%</b>
<b>Grand Total Expenditures:</b>	<b>\$53,925,730</b>	<b>\$27,528,892</b>	<b>\$4,754,582</b>	<b>\$32,283,475</b>	<b>\$21,642,255</b>	<b>59.9%</b>

<i>Revenues</i>	<b>FY 16/17 Budget</b>	<b>Collected to date</b>	<b>Encumbrances</b>	<b>Received to Date</b>	<b>Uncollected Revenue</b>	<b>Percent Collected</b>
<b><u>Operating</u></b>						
Use of Money/Property	\$794,000	\$589,963		\$589,963	\$204,037	74.3%
Intergovernmental	\$0	\$13,680		13,680	(13,680)	N/A
Charges for Services	23,828,500	15,264,169		15,264,169	8,564,331	64.1%
Miscellaneous Revenues	69,000	45,469		45,469	23,531	65.9%
Donations/Contributions (Capital Labor)	-	532,432		532,432	(532,432) (5)	N/A
<b>Total Operating:</b>	<b>\$24,691,500</b>	<b>\$16,445,713</b>		<b>\$16,445,713</b>	<b>\$8,245,787</b>	<b>66.6%</b>
<b><u>Capital</u></b>						
Use of Money/Property	\$34,000	\$1,327		\$1,327	\$32,673	3.9%
Capacity Charges	5,512,000	3,386,531		3,386,531	2,125,469	61.4%
Intergovernmental	2,250,000	1,897,379		1,897,379	352,621	84.3%
Bond Proceeds	4,550,000	-		-	4,550,000	0.0%
Sale of Assets	-	18,700		18,700	(18,700)	N/A
Miscellaneous Revenues	-	-		-	-	N/A
Intrafund Transfers	14,412,000	5,957,176		5,957,176	8,454,824 (2)	41.3%
<b>Total Capital:</b>	<b>\$26,758,000</b>	<b>\$11,261,113</b>		<b>\$11,261,113</b>	<b>\$15,496,887</b>	<b>42.1%</b>
<b>Grand Total Revenue:</b>	<b>\$51,449,500</b>	<b>\$27,706,826</b>		<b>\$27,706,826</b>	<b>\$23,742,674</b>	<b>53.9%</b>

**Cash on Hand as of 3/31/17**

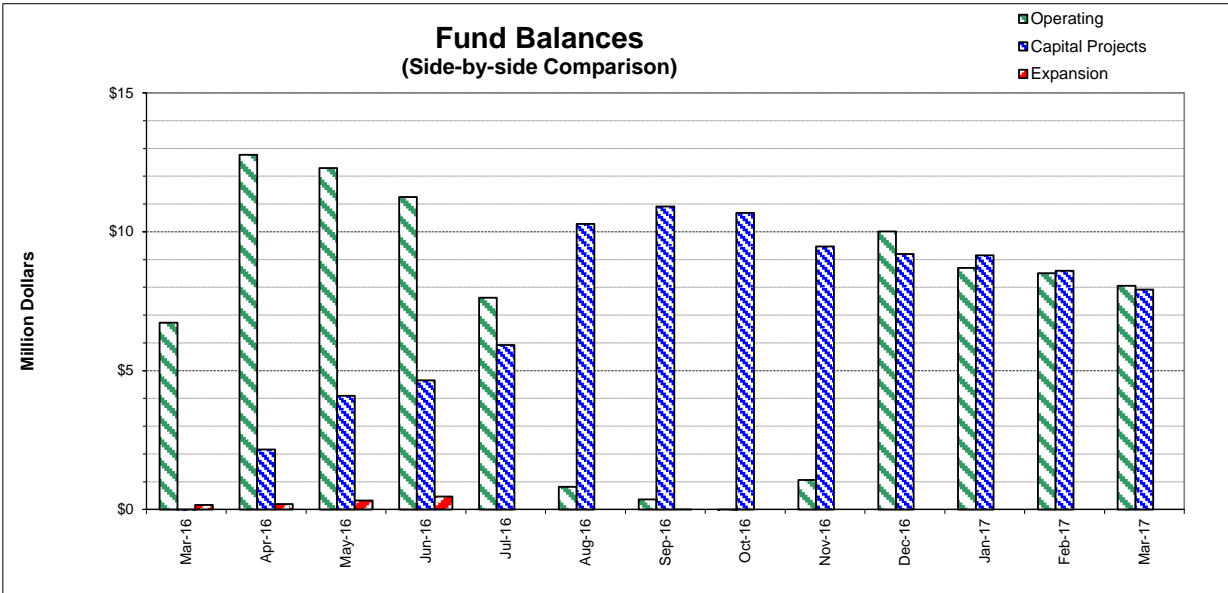
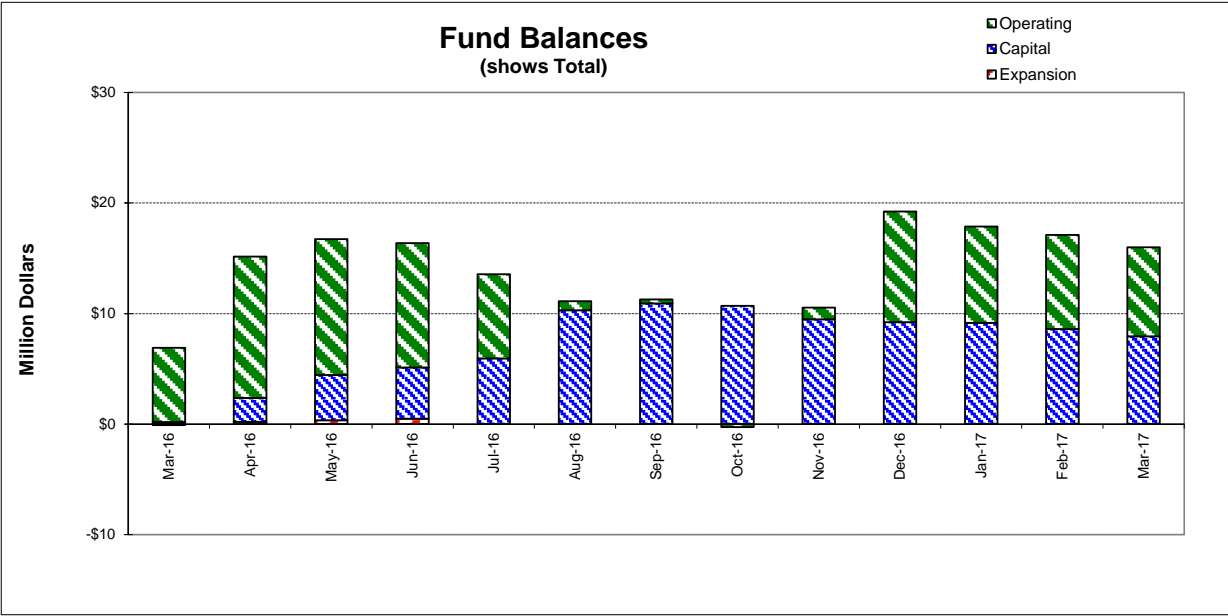
**\$15,975,676**

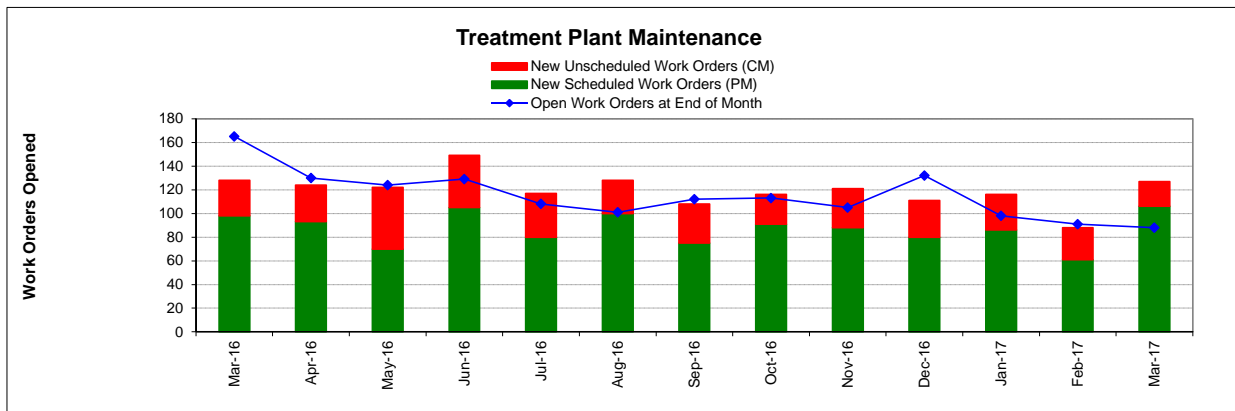
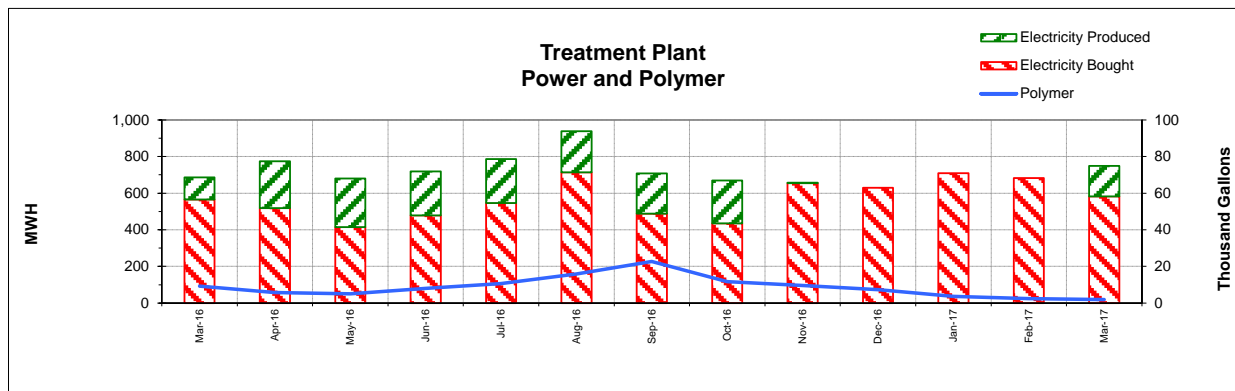
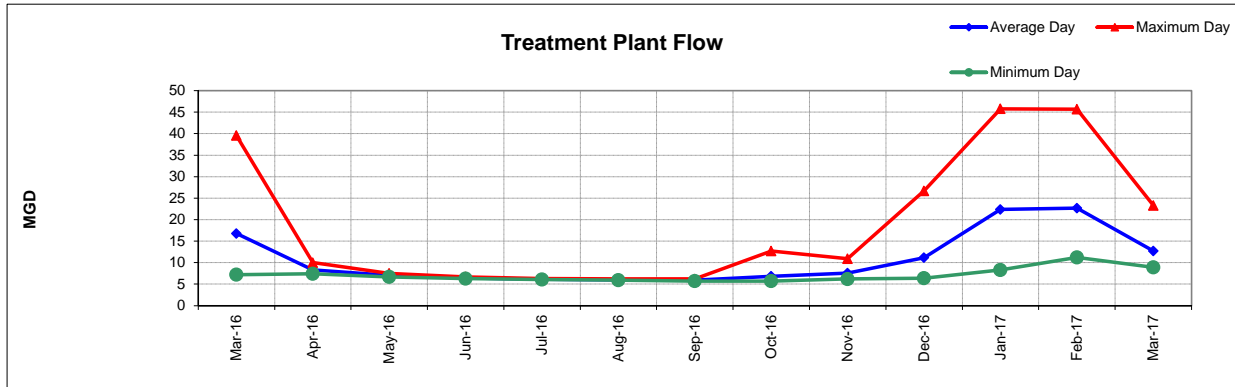
\*\*excluding Debt Service restricted funds  
03/31/17 - Effective Rate of Return = 0.86%

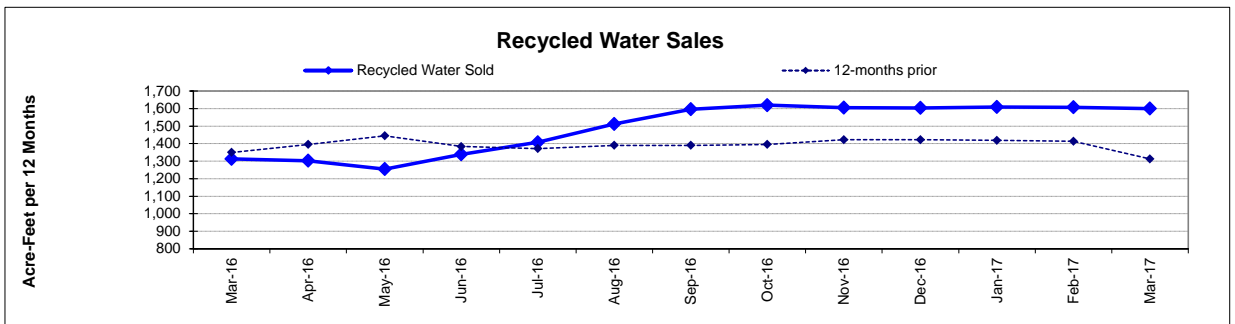
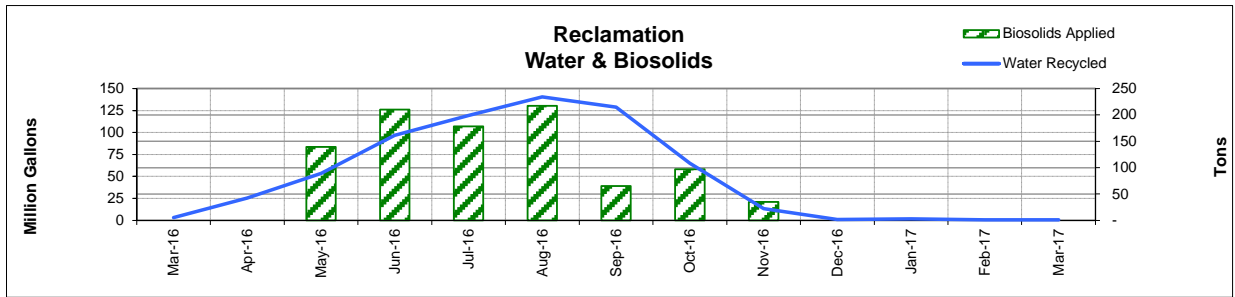
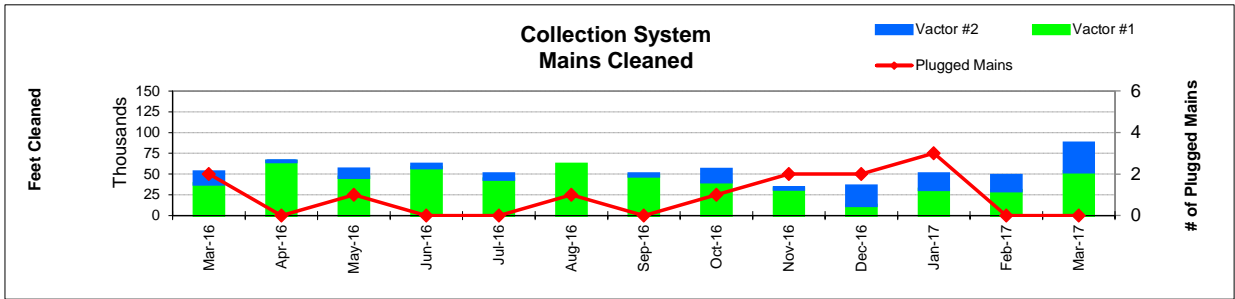
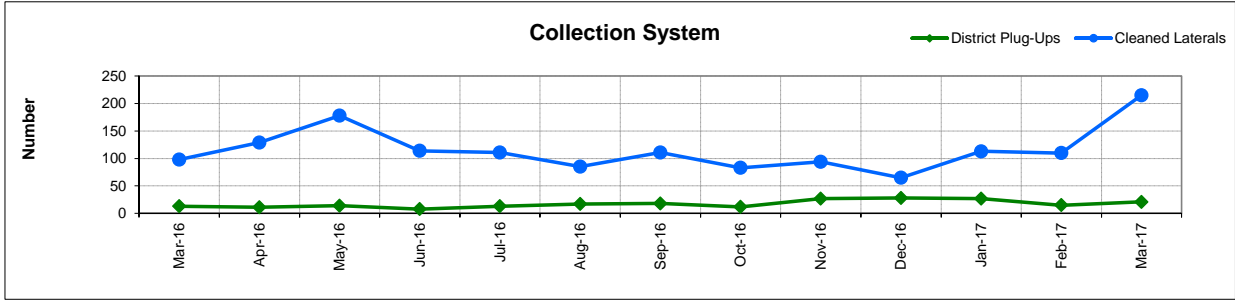
1. Series 2009B's and 2012A's principal/interest payments made in Aug & Feb
2. Processed 25% of intrafund transfer budget from Operating to Capital in July
3. Includes Debt Service and Intrafund Transfers; otherwise is 69.7%
4. See Capital Project Status report for details
5. In-house Labor for Capital Projects (Contra acct for Salaries)

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**FUND BALANCES - MONTHLY**

<b>CATEGORY</b>	<b>Mar-16</b>	<b>Apr-16</b>	<b>May-16</b>	<b>Jun-16</b>	<b>Jul-16</b>	<b>Aug-16</b>	<b>Sep-16</b>	<b>Oct-16</b>	<b>Nov-16</b>	<b>Dec-16</b>	<b>Jan-17</b>	<b>Feb-17</b>	<b>Mar-17</b>
<i>(Thousand Dollars)</i>													
7800	6,726	12,775	12,297	11,251	7,626	819	362	(293)	1,062	10,012	8,701	8,506	8,055
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Operating</b>	<b>6,726</b>	<b>12,775</b>	<b>12,297</b>	<b>11,251</b>	<b>7,626</b>	<b>819</b>	<b>362</b>	<b>(293)</b>	<b>1,062</b>	<b>10,012</b>	<b>8,701</b>	<b>8,506</b>	<b>8,055</b>
Capital Improvement Projects	(96)	2,163	4,096	4,649	5,924	10,284	10,912	10,685	9,470	9,204	9,154	8,598	7,921
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Capital</b>	<b>(96)</b>	<b>2,163</b>	<b>4,096</b>	<b>4,649</b>	<b>5,924</b>	<b>10,284</b>	<b>10,912</b>	<b>10,685</b>	<b>9,470</b>	<b>9,204</b>	<b>9,154</b>	<b>8,598</b>	<b>7,921</b>
<b>Total Discretionary Funds</b>	<b>6,630</b>	<b>14,938</b>	<b>16,393</b>	<b>15,900</b>	<b>13,550</b>	<b>11,103</b>	<b>11,274</b>	<b>10,392</b>	<b>10,532</b>	<b>19,216</b>	<b>17,855</b>	<b>17,104</b>	<b>15,976</b>
Expansion Fund (Restricted)	168	200	326	467	-	-	1	-	-	-	-	-	-
<b>Total Restricted Funds</b>	<b>168</b>	<b>200</b>	<b>326</b>	<b>467</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL ALL FUNDS</b>	<b>6,798</b>	<b>15,138</b>	<b>16,719</b>	<b>16,367</b>	<b>13,550</b>	<b>11,103</b>	<b>11,275</b>	<b>10,392</b>	<b>10,532</b>	<b>19,216</b>	<b>17,855</b>	<b>17,104</b>	<b>15,976</b>

# DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17
<b><u>Phone Requests</u></b>													
Maps/Drawings	9	8	9	5	5	9	5	8	7	4	9	7	4
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	2	2
Policy Questions	9	6	9	10	7	11	7	3	8	6	6	10	6
Development Questions	66	105	58	75	99	126	56	61	48	47	45	60	63
Miscellaneous	8	7	14	14	14	15	7	4	6	4	8	6	6
<b>TOTAL</b>	<b>92</b>	<b>126</b>	<b>90</b>	<b>104</b>	<b>125</b>	<b>161</b>	<b>75</b>	<b>76</b>	<b>69</b>	<b>61</b>	<b>68</b>	<b>85</b>	<b>81</b>
<b><u>Counter Requests</u></b>													
Maps/Drawings	2	5	-	-	3	7	5	1	-	1	2	1	-
Lateral Permits	8	10	13	12	9	19	19	13	14	7	11	5	11
Policy Questions	1	2	-	2	-	2	2	2	1	-	3	2	1
Development Questions	12	23	2	10	17	30	17	10	8	4	9	13	5
Miscellaneous	-	2	-	3	5	6	4	2	1	2	3	1	-
<b>TOTAL</b>	<b>23</b>	<b>42</b>	<b>15</b>	<b>27</b>	<b>34</b>	<b>64</b>	<b>47</b>	<b>28</b>	<b>24</b>	<b>14</b>	<b>28</b>	<b>22</b>	<b>17</b>
<b><u>Initial Request (Referrals)</u></b>	16	11	17	14	12	22	10	7	21	23	17	11	25
<b><u>Connection Permits Issued</u></b>													
Residential Permits	4	2	6	9	-	1	1	21	-	-	-	1	3
Commercial Permits	2	1	3	2	1	1	2	6	4	3	-	1	3
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL PERMITS</b>	<b>6</b>	<b>3</b>	<b>9</b>	<b>11</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>27</b>	<b>4</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>6</b>
Residential Units	11	2	6	9	-	1	1	21	-	-	-	1	3
Commercial Units	2	1	3	2	1	1	146	14	4	3	-	3	-
<b>TOTAL UNITS</b>	<b>13</b>	<b>3</b>	<b>9</b>	<b>11</b>	<b>1</b>	<b>2</b>	<b>147</b>	<b>35</b>	<b>4</b>	<b>3</b>	<b>-</b>	<b>4</b>	<b>3</b>
<b><u>Annexations</u></b>													
Submitted	-	-	-	1	-	-	1	-	1	-	-	-	-
Acreage	-	-	-	1.50	-	-	1.10	-	27.11	-	-	-	-
<b><u>Plans Reviewed</u></b>													
<b><u>Subdivisions/Sites</u></b>													
First Submittal	3	8	1	5	1	8	4	3	5	2	10	2	4
Second Submittal	4	3	-	1	1	6	4	3	-	2	2	3	7
Third Submittal	1	1	1	1	3	1	7	-	1	3	2	1	5
<b><u>Building/Tenant Improvements</u></b>													
First Submittal	16	21	12	10	3	12	4	8	5	4	10	5	7
Second Submittal	7	8	7	4	6	4	9	3	4	4	5	2	5
Third Submittal	3	1	6	3	5	1	5	3	8	6	2	1	10
<b><u>Miscellaneous Plan Reviews</u></b>	-	-	-	-	-	-	-	-	-	-	1	-	-
<b>TOTAL PLANS REVIEWED</b>	<b>34</b>	<b>42</b>	<b>27</b>	<b>24</b>	<b>19</b>	<b>32</b>	<b>33</b>	<b>20</b>	<b>23</b>	<b>21</b>	<b>32</b>	<b>14</b>	<b>38</b>

# INSPECTION WORKLOAD - MONTHLY

CATEGORY	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17
<b><u>CONSTRUCTION</u></b>													
Locating Sewers	-	-	-	-	-	-	-	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	6	8	9	7	3	9	-	5	6	5	9	6	6
Inspections - Mains	3	3	2	-	2	1	-	-	10	1	-	-	6
Inspections - Manholes	49	15	8	13	3	-	-	81	27	89	46	16	15
Inspections - Laterals	16	45	29	22	20	20	9	7	37	11	24	17	50
Inspections - Cleanouts	41	42	60	51	28	25	4	29	71	20	42	38	74
Inspections - Review Video	1	4	-	4	-	3	-	2	2	4	1	-	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	3	-	-	2	-	1	-	-	-	-	2	-	1
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>119</b>	<b>117</b>	<b>108</b>	<b>99</b>	<b>56</b>	<b>59</b>	<b>13</b>	<b>124</b>	<b>153</b>	<b>130</b>	<b>124</b>	<b>77</b>	<b>152</b>
<b><u>MISCELLANEOUS</u></b>													
Meter Readings	10	-	9	9	10	9	-	9	-	18	100	-	13
Washdown Facility Inspections	-	-	-	-	-	-	-	-	19	-	-	-	-
General Customer Assistance	37	16	10	1	4	4	9	13	-	6	11	11	10
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>47</b>	<b>16</b>	<b>19</b>	<b>10</b>	<b>14</b>	<b>13</b>	<b>9</b>	<b>22</b>	<b>19</b>	<b>24</b>	<b>111</b>	<b>11</b>	<b>23</b>
<b><u>SPECIAL PROJECTS</u></b>													
	-	15	21	22	31	22	7	9	32	2	0	6	16

# POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17
<b><u>Outreach Activities</u></b>													
Plant Tours Conducted	1	4	4	2	0	0	0	7	8	0	1	4	11
Presentations Made	1	5	2	0	0	1	0	0	3	0	1	2	1
<b>Total Outreach Activities</b>	2	9	6	2	-	1	-	7	11	-	2	6	12
<b><u>Inspections Conducted</u></b>													
Food Service Facilities	31	19	12	-	-	-	1	-	-	37	21	53	35
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	1	1	-	-	-	-	-	-	-	-	-	-	-
<b>Total Inspections</b>	32	20	12	-	-	-	1	-	-	37	21	53	35
<b><u>Compliance Issues</u></b>													
NOVs Issued	1	2	-	2	1	-	-	-	-	2	-	1	4
NOEs Issued	-	1	2	-	-	-	1	-	1	2	-	1	1
Non-Compliant-FOG	-	-	-	-	-	-	-	-	-	-	-	1	1
<b>Total Compliance Issues</b>	1	3	2	2	1	-	1	-	1	4	-	3	6
<b><u>Pollution Prevention</u></b>													
Clothes Washer Rebates	-	18	14	45	-	-	-	-	20	26	28	21	-
Toilet Retrofit Rebates	22	19	6	10	-	11	4	12	8	12	5	4	7
Pharmaceuticals Diverted (in lbs)	341	322	240	243	362	303	386	391	291	63	155	201	71

**RECYCLED WATER DELIVERIES - MONTHLY**

	<b>Acres</b>	<b>Mar-16</b>	<b>Apr-16</b>	<b>May-16</b>	<b>Jun-16</b>	<b>Jul-16</b>	<b>Aug-16</b>	<b>Sep-16</b>	<b>Oct-16</b>	<b>Nov-16</b>	<b>Dec-16</b>	<b>Jan-17</b>	<b>Feb-17</b>	<b>Mar-17</b>
<b>MONTHLY (MG)</b>														
<b><u>Water Sold</u></b>														
Golf Courses	405.0	0.070	13.197	37.578	57.273	62.709	63.227	49.600	25.538	6.308	0.002	0.245	-	0.081
Cemeteries	5.0	0.000	0.015	0.447	0.709	0.931	0.754	1.225	0.328	0.010	0.000	-	-	-
Parks	18.5	-	0.036	0.725	1.078	1.299	1.172	0.741	0.205	-	-	-	-	0.002
Schools	21.0	0.075	0.360	1.528	2.675	2.181	2.120	1.497	0.630	0.014	0.006	0.005	-	0.005
Commerical	167.6	2.430	6.404	11.038	17.061	14.878	17.259	15.070	9.563	3.457	0.490	1.191	0.404	0.501
Vineyards	564.0	0.365	5.268	2.034	13.413	15.693	21.832	17.609	6.065	3.528	0.302	0.194	0.063	0.101
Trucked Water	175.0	0.018	0.098	0.064	0.135	0.232	0.458	0.135	0.124	0.008	0.188	0.009	0.002	0.015
<b>Subtotal Sales</b>	<b>1,356.1</b>	<b>2.958</b>	<b>25.378</b>	<b>53.413</b>	<b>92.343</b>	<b>97.923</b>	<b>106.821</b>	<b>85.877</b>	<b>42.454</b>	<b>13.326</b>	<b>0.988</b>	<b>1.644</b>	<b>0.469</b>	<b>0.705</b>
<b><u>District Use</u></b>														
Jameson	330.0	0.084	-	-	1.481	5.414	12.456	20.935	12.608	-	-	0.089	-	0.087
Somky	213.0	-	-	-	2.950	16.037	21.318	22.108	10.000	0.001	-	-	-	0.002
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal District</b>	<b>593.5</b>	<b>0.084</b>	<b>-</b>	<b>-</b>	<b>4.431</b>	<b>21.451</b>	<b>33.774</b>	<b>43.043</b>	<b>22.609</b>	<b>0.001</b>	<b>-</b>	<b>0.089</b>	<b>-</b>	<b>0.089</b>
<b>TOTAL DELIVERED</b>	<b>1,949.6</b>	<b>3.042</b>	<b>25.378</b>	<b>53.413</b>	<b>96.773</b>	<b>119.374</b>	<b>140.594</b>	<b>128.920</b>	<b>65.062</b>	<b>13.327</b>	<b>0.988</b>	<b>1.733</b>	<b>0.469</b>	<b>0.794</b>
<b>ANNUAL (AF)</b>														
<b><u>Water Sold</u></b>														
Golf Courses	405.0	915	899	840	869	891	920	946	960	971	968	969	969	969
Cemeteries	5.0	15	13	13	13	13	13	15	14	14	14	14	14	14
Parks	18.5	17	16	16	17	17	17	17	16	16	16	16	16	16
Schools	21.0	37	35	35	37	38	38	37	36	34	34	34	34	34
Commerical	167.6	275	270	276	294	293	302	308	304	301	301	304	305	299
Vineyards	564.0	49	64	68	103	149	215	268	285	265	266	266	265	264
Trucked Water	175.0	6	6	6	5	5	6	5	4	4	5	5	5	5
<b>Subtotal Sales</b>	<b>1,356.1</b>	<b>1,313</b>	<b>1,303</b>	<b>1,254</b>	<b>1,339</b>	<b>1,407</b>	<b>1,512</b>	<b>1,596</b>	<b>1,619</b>	<b>1,605</b>	<b>1,603</b>	<b>1,609</b>	<b>1,607</b>	<b>1,600</b>
<b><u>District Use</u></b>														
Jameson	330.0	103	103	103	107	124	153	167	163	163	163	163	163	163
Somky	213.0	291	291	221	195	208	230	223	222	222	222	222	222	222
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal District</b>	<b>593.5</b>	<b>394</b>	<b>394</b>	<b>324</b>	<b>302</b>	<b>332</b>	<b>383</b>	<b>390</b>	<b>385</b>	<b>385</b>	<b>385</b>	<b>385</b>	<b>385</b>	<b>385</b>
<b>TOTAL DELIVERED</b>	<b>1,949.6</b>	<b>1,707</b>	<b>1,697</b>	<b>1,578</b>	<b>1,641</b>	<b>1,739</b>	<b>1,894</b>	<b>1,986</b>	<b>2,004</b>	<b>1,990</b>	<b>1,988</b>	<b>1,994</b>	<b>1,992</b>	<b>1,985</b>



# BIOSOLIDS HANDLING - MONTHLY

Site	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17
<u>Land Applied by NSD</u>													
Somky													
Airport/Fagundes													
Jameson Canyon	-	-	139	210	178	217	65	97	35	-	-	-	-
Subtotal by NSD	-	-	139	210	178	217	65	97	35	-	-	-	-
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Land Applied</b>	<b>-</b>	<b>-</b>	<b>139</b>	<b>210</b>	<b>178</b>	<b>217</b>	<b>65</b>	<b>97</b>	<b>35</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Off Site (Contractor)</b>													
<b>Total (tons)</b>	<b>-</b>	<b>-</b>	<b>139</b>	<b>210</b>	<b>178</b>	<b>217</b>	<b>65</b>	<b>97</b>	<b>35</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

# COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17
<b><u>Plugups</u></b>													
<b>Total Calls</b>	43	41	45	33	48	52	48	56	68	84	75	51	61
Business Hours	22	31	30	22	27	35	35	34	38	54	49	30	43
After Hours	21	10	15	11	21	17	13	22	30	30	26	21	18
District's	13	11	14	8	13	17	18	12	27	28	27	15	21
Property Owner's	30	30	31	25	35	35	30	44	41	56	48	36	40
Plugged Main Lines	2		1			1		1	2	2	3		
Run Lateral w/Eel	98	129	178	114	111	85	111	83	94	65	113	110	215
<b><u>Cleaning (feet of sewer)</u></b>													
Vactor #1	38,201	65,231	46,352	57,690	43,988	61,502	47,869	40,711	32,046	12,220	31,694	30,016	52,800
Vactor #2	14,073	325	9,687	4,002	6,288		2,184	14,730	1,512	23,277	18,222	18,062	34,405
Hydro													
Rodder													
<b>Total (feet)</b>	<b>52,274</b>	<b>65,556</b>	<b>56,039</b>	<b>61,692</b>	<b>50,277</b>	<b>61,502</b>	<b>50,053</b>	<b>55,442</b>	<b>33,557</b>	<b>35,497</b>	<b>49,915</b>	<b>48,077</b>	<b>87,205</b>
<b><u>Cleaning Days</u></b>													
Vactor #1	17	19	19	19	18	19	16	17	16	15	16	18	25
Vactor #2	14	18	17	17	15	19	15	13	15	7	9	11	14
Hydro	3	1	2	2	3		1	4	1	8	7	7	11
Rodder													
<b><u>Feet/day</u></b>													
Vactor #1	3,050	3,450	2,950	3,250	2,800	3,250	3,150	3,250	2,100	2,350	3,100	2,650	3,500
Vactor #2	2,750	3,600	2,750	3,400	2,950	3,250	3,200	3,150	2,150	1,750	3,500	2,750	3,750
Hydro	4,700	350	4,850	2,000	2,100		2,200	3,700	1,500	2,900	2,600	2,600	3,150
Rodder	222												
<b><u>Video Inspections</u></b>													
Mains (feet)	12,343	8,670	17,352	15,115	3,878	15,885	6,453	10,131	6,826	13,141	5,981	6,398	17,209
Laterals (each)	154	181	225	152	183	140	161	174	182	191	203	175	324
<b><u>Construction (each)</u></b>													
Cleanouts	13	17	7	10	7	3	16	8	10	6	4	10	16
Laterals		4	3	5	4			10	5		1		4
Mains		2						3					
Manholes								1					1
Other			39										
<b><u>USA Markings</u></b>													
Regular (w/in 2 days)	247	270	319	225	244	326	252	215	214	160	151	186	254
Emergency (w/in 2 hours)	13	5	-	6	14	8	10	6	4	18	7	7	13

## WASTEWATER PLANT OPERATIONS DATA - MONTHLY

[illegible]

# **WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY**

<b>CATEGORY</b>	<b>Mar-16</b>	<b>Apr-16</b>	<b>May-16</b>	<b>Jun-16</b>	<b>Jul-16</b>	<b>Aug-16</b>	<b>Sep-16</b>	<b>Oct-16</b>	<b>Nov-16</b>	<b>Dec-16</b>	<b>Jan-17</b>	<b>Feb-17</b>	<b>Mar-17</b>
<b><u>Scheduled</u></b>													
Old	55	77	66	53	55	37	39	50	57	48	75	49	43
New	98	93	70	105	80	100	75	91	88	80	86	61	106
Completed	76	104	83	103	98	98	64	84	97	53	112	67	107
<b>New Balance</b>	<b>77</b>	<b>66</b>	<b>53</b>	<b>55</b>	<b>37</b>	<b>39</b>	<b>50</b>	<b>57</b>	<b>48</b>	<b>75</b>	<b>49</b>	<b>43</b>	<b>42</b>
<b><u>Unscheduled</u></b>													
Old	81	88	64	71	74	71	62	62	56	57	57	49	48
New	30	31	52	44	37	28	33	25	33	31	30	27	21
Completed	23	55	45	41	40	37	33	31	32	31	38	28	23
<b>New Balance</b>	<b>88</b>	<b>64</b>	<b>71</b>	<b>74</b>	<b>71</b>	<b>62</b>	<b>62</b>	<b>56</b>	<b>57</b>	<b>57</b>	<b>49</b>	<b>48</b>	<b>46</b>
<b><u>Total Work Orders</u></b>													
Old	136	165	130	124	129	108	101	112	113	105	132	98	91
New	128	124	122	149	116	128	108	116	121	111	116	88	127
Completed	99	160	128	144	138	136	96	115	129	84	151	95	130
<b>New Balance</b>	<b>165</b>	<b>130</b>	<b>124</b>	<b>129</b>	<b>108</b>	<b>101</b>	<b>112</b>	<b>113</b>	<b>105</b>	<b>132</b>	<b>98</b>	<b>91</b>	<b>88</b>
<b><u>LAB ANALYSES</u></b>													
<b>Sample Type</b>													
Regulatory	325	392	130	158	193	179	193	204	168	175	192	214	210
Process Control	1,276	1,235	778	729	744	907	739	766	1,315	1,209	1,189	1,051	1,370
Special Request	1	5	320	11	207	93	-	19	39	40	3	1	1
Quality Control/Assurance	306	349	209	5	32	5	5	50	302	299	303	272	301
<b>TOTAL</b>	<b>1,908</b>	<b>1,981</b>	<b>1,437</b>	<b>903</b>	<b>1,176</b>	<b>1,184</b>	<b>937</b>	<b>1,039</b>	<b>1,824</b>	<b>1,723</b>	<b>1,687</b>	<b>1,538</b>	<b>1,882</b>

**Summary of NSD Capital Project Status  
through 03-31-17**

Proj #	Description	FY 16-17 Budget	FY 15-16 Carryovers	Adj.	Final FY 16-17 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
<b><u>COLLECTION SYSTEM</u></b>									
13701	Main Line Sewer Rehab	88,700		(60,000)	28,700	-	5,226	23,474	18%
13702	Manhole Raising/Rehab	198,900		60,000	258,900	-	236,205	22,695	91%
13703	Lateral Replacement/Rehab	72,000			72,000	-	47,492	24,508	66%
13704	Cleanouts Installation/Rehab	87,000			87,000	-	45,209	41,791	52%
13705	I&I Reduction Program	200,000			200,000	54,421	65,629	79,951	33%
14703	Browns Valley Rd & First St	2,800,000	813,800		3,613,800	444,169	353,222	2,816,408	10%
15703	Sarco Crk PL Rplcmnt/CalTRANS	1,050,000	(34,250)	98,000	1,113,750	116,052	993,650	4,048	89%
15721	ACP CIPP Lining Project #1	-	330,000		330,000	-	311,543	18,458	94%
16701	Basin L - I&I Reduction #5	1,400,000	(490,400)	(165,500)	744,100	25,359	693,820	24,921	93%
16718	NN Siphon Vault Cover Replacement	-	5,000		5,000	-	1	4,999	0%
16723	Milliken Creek Sewer Repair	-	150,000	150,000	300,000	4,880	268,955	26,165	90%
17701	ACP CIPP Lining Project #2	350,000		(350,000)	-	-	-	-	-
17702	Upper Lateral Rehab - Basin L (Pilot #2)	5,000			5,000	-	-	5,000	-
17703	Manhole Rehab - Nipak	90,000		3,000	93,000	-	87,708	5,292	94%
17704	Infltrtn Rehab - SSMH/PL (CI-)	400,000		(300,000)	100,000	-	26,071	73,929	26%
17705	Soscol Ave (8th to Oil Co Rd)	500,000			500,000	42,048	40,223	417,730	8%
17706	Rehab - Ranch De Los Robles	400,000		(400,000)	-	-	-	-	-
17707	66-inch Trunk CCTV Inspection	150,000			150,000	-	420	149,580	0%
17708	Basin G - I&I Reduction #1	1,200,000		1,180,000	2,380,000	2,000,000	37,286	342,714	2%
17734	Homewood/Westwood I/I Reduction	-		200,000	200,000	118,850	19,004	62,146	10%
<b><u>COLLECTION SYSTEM - EQUIPMENT</u></b>									
17709	Eel Replacment 1	5,400		100	5,500	-	5,454	46	99%
17710	Vehicle 510 - Water Truck	207,900		(18,100)	189,800	-	186,160	3,640	98%
<b><u>LIFT STATIONS</u></b>									
17711	West Napa PS - Rehab	1,750,000			1,750,000	-	105	1,749,895	0%
<b><u>TREATMENT</u></b>									
16708	Algae to Digester with Thermal Study	-	50,450		50,450	22,913	3,542	23,995	7%
17712	Headworks/Primary - Odor Ctrl	20,000		5,000	25,000	-	17,015	7,985	68%
<b><u>TREATMENT - EQUIPMENT</u></b>									
13741	Secondary PS Pump Rebuild (3)	37,500	7,200	7,500	52,200	-	52,081	119	100%
13743	Risidual Analyzers (Deox) Replacements	-		20,000	20,000	-	8,079	11,921	40%
14720	Belt Press Polymer Skid Replacement	-	55,700		55,700	-	47,724	7,976	86%
15711	Rotork Actuator Replacement	-	52,750	88,700	141,450	17,000	115,607	8,843	82%
15712	Rehab Pond 1 Storage Structure	25,000	5,000	(30,000)	-	-	-	-	-
15713	Aeration Basin Instrmntn/Ctrl	1,200,000	(126,000)	500,000	1,574,000	106,681	1,331,308	136,011	85%
16713	Buried Metallic Piping (eval/rehab)	40,000	10,000	(8,200)	41,800	-	-	41,800	-
16714	High Voltage System Repairs	-	30,000	50,000	80,000	11,560	4,810	63,630	6%
16715	Cogen Bottom End Overhaul	75,000	150,000		225,000	218,378	-	6,622	-
17713	Secondary PS VFD Rplcmnt (3)	53,600			53,600	-	1,835	51,765	3%

**Summary of NSD Capital Project Status  
through 03-31-17**

Proj #	Description	FY 16-17 Budget	FY 15-16 Carryovers	Adj.	Final FY 16-17 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
17714	WWTP MP - 3W Sys Imprvmnts	60,000			60,000	-	1,068	58,932	2%
17715	Turbidimeters (7) Tertiary Rplcmnts	11,800		11,200	23,000	14,041	7,575	1,384	33%
17716	FOG - Strain Press	200,000			200,000	-	167,472	32,528	84%
17717	Energy Audit - Odor Control VFD	51,700			51,700	-	9,741	41,959	19%
17718	Energy Audit - LED Pole/Arm Mounted Fixtures	78,100		50,000	128,100	-	4,514	123,586	4%
17719	Lab - Smpler 4700 - Pretreatment	7,500		(800)	6,700	-	-	6,700	-
17720	Lab - Smpler 4700 - Pretreatment	7,500			7,500	-	-	7,500	-
17721	Lab - Chlorophyll A Analyzer - Pond Water	5,400		800	6,200	-	6,105	95	98%
17722	Main - Stationary Gas Detector Replacment Ph 2	140,000		35,000	175,000	7,796	151,265	15,939	86%
17723	Main - Rotork Actuator Replacment	88,700		(88,700)	-	-	-	-	-
17724	Main - Primary Clarifier Exhaust Fan Replacment	5,000		(5,000)	-	-	-	-	-
17725	Main - Sump #3 Modification	10,000			10,000	-	-	10,000	-
<b><u>TREATMENT - STRUCTURES</u></b>									
13724	IPS Expansion	-	38,700		38,700	6,483	8,789	23,429	23%
17726	Headworks Equipment Rehab/Replacment	10,000		100,000	110,000	15,045	57,547	37,408	52%
17727	Roof Replacement - Digester 2nd Floor	125,000		(10,000)	115,000	-	110,713	4,287	96%
17728	Roof Replacement - AB/Blower Building	40,000		5,000	45,000	-	43,162	1,838	96%
17729	DAF Access Opening	20,000			20,000	-	-	20,000	-
<b><u>SCADA</u></b>									
<b><u>RECYCLING - DISTRICT</u></b>									
15717	Isolation Valve on Kirkland Line (Devlin Rd)	49,200	14,400	10,000	73,600	-	66,508	7,092	90%
16716	Line Recycled Water Reservoir	1,320,000	(18,400)	(1,000,000)	301,600	8,897	119,769	172,934	40%
17730	Jameson Solids Pad Dump Bay	15,000		(15,000)	-	-	-	-	-
17731	Jameson Office Trailer Replacment	25,000			25,000	-	19,405	5,595	78%
17732	Vehicle 710 - 8830 Tractor	200,000		(30,000)	170,000	-	165,932	4,068	98%
17733	Vehicle 172 - Ford F150	28,000		5,000	33,000	-	30,900	2,100	94%
<b><u>RECYCLING - EXPANSION</u></b>									
13727	North Bay Wate Reuse Project	845,000			845,000	-	283,881	561,119	34%
14726	MST RW Pipeline Construction	-	500,000		500,000	303,461	18,682	177,857	4%
14727	Split N/S Lines, surge protection	-	50,000		50,000	10,615	19,506	19,879	39%
15718	LCWD Recycled Water Pipeline - Construction	-	500,000	(98,000)	402,000	307,461	52,567	41,973	13%
16722	MST RW Pipeline Extension	1,200,000	(700)		1,199,300	103,052	285,734	810,514	24%
<b><u>OTHER</u></b>									
13729	Development Technical Support	231,800			231,800	-	189,142	42,658	82%
16717	Admin/Engineering Bldg - Acoustic Improvements	-	10,000		10,000	-	-	10,000	-
<b>GRAND TOTAL ALL PROJECTS</b>		<b>\$17,180,700</b>	<b>\$2,103,250</b>	<b>-</b>	<b>\$19,283,950</b>	<b>\$3,959,162</b>	<b>\$6,825,360</b>	<b>\$8,499,431</b>	<b>35%</b>