



# **Napa Sanitation District**

## **General Manager's Report**

### **for**

## **September, 2016**

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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:** November 16, 2016

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

**SUBJECT:** General Manager's Report for September, 2016

### **REGULATORY COMPLIANCE:**

Collection System Compliance:	0 Category 1 SSO's, 0 Category 2 SSO's and 8 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 – September 30, 2016
Percent Fiscal Year:	25.0%
Operating Expenditures to date:	33.8%
Historical Expenditures to date:	33.5%
Significant Comments:	None.

### **PERSONNEL:**

Significant events for the month of September, 2016 in the Human Resources Department:

New Hires:	None
Separations:	None
Promotions:	None
Recruitment Activities:	Recruitment for Junior/Assistant/Associate Engineer
Injuries:	None

*Summaries of Operational Highlights are on following pages.*

**COLLECTIONS:**

Significant events for the month of September 2016 in Collection System Maintenance include:

- The District had 0 Category 1 Sanitary Sewer Overflows (SSO's), 0 Category 2 SSO's and 8 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 14 cleanouts, repaired/rehabilitated 7 sewer lateral and repaired 4 cleanouts . Additionally, the service response programs crew completed 72 work orders in support of the grease and odor control program, responded to 53 customer requests for service (19 were NSD problem) and closed out 258 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 114 laterals, cleaned approximately 50,212 feet of main line and CCTV inspected approximately 6,452 feet of main line.
- Continued to assist with the District chloride study.
- Collections also filled 2 positions (Maintenance-in-training) that had left earlier in the year.

**TREATMENT PLANT:**

Significant events for the month of September 2016 in the Treatment Plant Department:

**Plant Operations**

- For September 2016, the plant's influent flow was 178.1 MG as compared to last year flow for September 2015 of 173.8 MG
- There was no flow to the Napa River for September 2016.
- The production of recycle quality occurred for 29 days during September 2016 with a total flow of 132.2 MG.
- This September power consumption purchased from PG&E was 489 MWH in comparison to September 2015 purchase of 516 MWH.
- There was 0.00" rain fall for September 2016 as compared to 0.00" rain fall for September 2015.
- Pond 4 end of the month recorded level reading was 45.69" as compared to September 2015 of 52.08". Total remaining pond capacity for September 2016 was 40.8% as compared to September 2015 remaining capacity of 38%.

Maintenance:

Significant events for the month of September, 2016:

Cogeneration Performance

- Cogeneration unit ran 716 of 720 hours for the month – 99.44% uptime, averaging 296.41 Kw

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit.
- Changed media in West Napa odor control unit
- Rebuilt Flare water drain valve
- Replaced VFD on Belt Filter Press #1 Sludge delivery pump
- Replaced air temperature sensor on Headworks Sampler
- Procured and installed LCWD Flow Tube and Transmitter
- Replaced refrigeration module and sensor on Secondary Clarifier #2 Sampler
- Re-plumbed cooling water lines on Recycle Pumps 1, 2 and 3

Projects

- Installed Limitorque actuators on AB influent flow gates
- Replaced lighting ballast in Digester complex, AB room and Solids Handling building

Standby Power

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

Influent Pumps

- Pumps are all operational

Laboratory:

Monthly Recycle Effluent (REC-001) monitoring was conducted on September 12<sup>th</sup>, 2016. Sample results received indicated constituent concentrations within the District maximum agronomic ranges, except Chloride which indicated concentrations exceeding 260 mg/L sporadically throughout the month of September. The average chloride concentration throughout the month of September was 257.9mg/L.

Monthly Influent (INF-001) monitoring was conducted on September 12<sup>th</sup>, 2016. All Influent sample results received indicated no unusual results and were within local limits, except those indicated below.

- The Influent (INF-001) sample collected on September 12<sup>th</sup> indicated an Ammonia result of 38.4 mg/L which exceeds the Napa Sanitation District Local Limit of 36.0 mg/L.
- The Influent (INF-001) sample collected on September 12<sup>th</sup> indicated a Sodium result of 110 mg/L which exceeds the Napa Sanitation District Local Limit of 90.0 mg/L.

### **RECYCLING:**

Significant events in the Recycling Department for September 2016 include:

- Recycled water delivered for the month of September 2016 (85.877 million gallons), as compared to September 2015 (58.524 million gallons) is higher due to golf course, vineyard and district demand. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff made preparations for a web portal launch (AquaHawk Alerting) which will enable LCWD recycled water customers to view their RW usage on an hourly interval. The anticipated roll out date for customers use is late October 2016. Staff will provide customers with training on how to register and navigate the portal.
- Staff continued the land application of biosolids on the Jameson Reuse Site.

### **POLLUTION PREVENTION:**

Significant events in the Pollution Prevention Department for September 2016 include:

- The Napa Safe Medication Collection Program collected 385.5 pounds of unneeded medications. The total amount of unneeded medications collected since program inception in September 2010 is 18,459 pounds.
- There were no tours of the Soscov Water Recycling Facility this month.
- The District issued 4 Toilet Rebates at \$100 each for a total of \$400.
- The District issued 0 ESME Washer Rebates.

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

Significant events occurring in the Engineering Department for September 2016 include:

- Consultant continued design of the Browns Valley Trunk Project.
- Consultant continued design of the Recycled Water Reservoir Lining Project.
- Consultant continued developing a hydraulic model for the District's recycled water distribution system.
- Consultant continued studying the feasibility of utilizing algae for beneficial use.

- Consultant continued design work for the MST Recycled Water Pipeline Expansion Project.
- Consultant continued design for the Soscol/Sousa Trunk Rehabilitation Project.
- Staff continued design of the Homewood/Westwood – I/I Reduction Project.
- Staff continued design of the 2017 Collection System Rehabilitation Project
- Notice of Award was issued for the Milliken Creek Sewer Rehabilitation Project – Phase 2.
- Staff continued investigating the collection system for sources of chloride.
- Staff issued the Notice to Proceed for the Manhole Rehabilitation – Nipak Project.
- Staff selected a consultant for engineering design services for the Headworks Equipment Rehabilitation Project.
- Staff received proposals for engineering services for the Asset Management Plan.
- Notice of Award was issued for the Stationary Gas Detectors – Phase II project.
- Staff opened proposals for the Recycled Water Valve on Kirkland Line Project.
- Staff continued design of the LED Pole/Arm Fixture Replacement project.
- The contractors continued construction of the following projects:
  - a. Basin “L” Pipeline Rehabilitation Project #5
  - b. Sarco Creek Pipeline Replacement Project
  - c. Aeration Basin Diffusers, Instrumentation and Controls Project.
  - d. Manhole Adjustment Project, Phase IV
- Staff reviewed 33 sets of development plans and deemed 11 sets of plans complete. The approved plans consisted of two recycled water laterals, one residential lateral, two tenant improvements, two residences, three main line extensions and one commercial building.

**Budget Status & Cash Summary - July 1, 2016 - September 30, 2016 (25.0% 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	\$9,382,370	\$1,841,648	\$3,109	\$1,844,757	\$7,537,613	19.7%
Services & Supplies	6,046,110	989,730	1,113,642	2,103,373	3,942,738	34.8%
Taxes	28,250	-	-	-	28,250	0.0%
Debt Service	4,773,050	3,685,914	-	3,685,914	1,087,136 (1)	77.2%
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>\$8,742,293</b>	<b>\$1,116,751</b>	<b>\$9,859,044</b>	<b>\$19,270,736 (3)</b>	<b>33.8%</b>
<b><u>Capital</u></b>						
Bldgs/Improvements & Equip	\$19,283,950	\$1,766,272	\$5,185,349	\$6,951,621	\$12,332,329 (4)	36.0%
Intrafund Transfers	5,512,000	3,173,390	-	3,173,390	2,338,610	57.6%
<b>Total Capital :</b>	<b>\$24,795,950</b>	<b>\$4,939,661</b>	<b>\$5,185,349</b>	<b>\$10,125,010</b>	<b>\$14,670,940</b>	<b>40.8%</b>
<b>Grand Total Expenditures:</b>	<b>\$53,925,730</b>	<b>\$13,681,954</b>	<b>\$6,302,100</b>	<b>\$19,984,054</b>	<b>\$33,941,676</b>	<b>37.1%</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	\$357,423		\$357,423	\$436,577	45.0%
Intergovernmental	\$0	\$0		-	0	N/A
Charges for Services	23,828,500	730,740		730,740	23,097,760	3.1%
Miscellaneous Revenues	69,000	5,617		5,617	63,383	8.1%
Donations/Contributions (Capital Labor)	-	155,166		155,166	(155,166) (5)	N/A
<b>Total Operating:</b>	<b>\$24,691,500</b>	<b>\$1,248,946</b>		<b>\$1,248,946</b>	<b>\$23,442,554</b>	<b>5.1%</b>
<b><u>Capital</u></b>						
Use of Money/Property	\$34,000	\$1,221		\$1,221	\$32,779	3.6%
Capacity Charges	5,512,000	2,732,730		2,732,730	2,779,270	49.6%
Intergovernmental	2,250,000	734,651		734,651	1,515,349	32.7%
Bond Proceeds	4,550,000	-		-	4,550,000	0.0%
Sale of Assets	-	1,196		1,196	(1,196)	N/A
Miscellaneous Revenues	-	-		-	-	N/A
Intrafund Transfers	14,412,000	5,398,390		5,398,390	9,013,610 (2)	37.5%
<b>Total Capital:</b>	<b>\$26,758,000</b>	<b>\$8,868,188</b>		<b>\$8,868,188</b>	<b>\$17,889,812</b>	<b>33.1%</b>
<b>Grand Total Revenue:</b>	<b>\$51,449,500</b>	<b>\$10,117,134</b>		<b>\$10,117,134</b>	<b>\$41,332,366</b>	<b>19.7%</b>

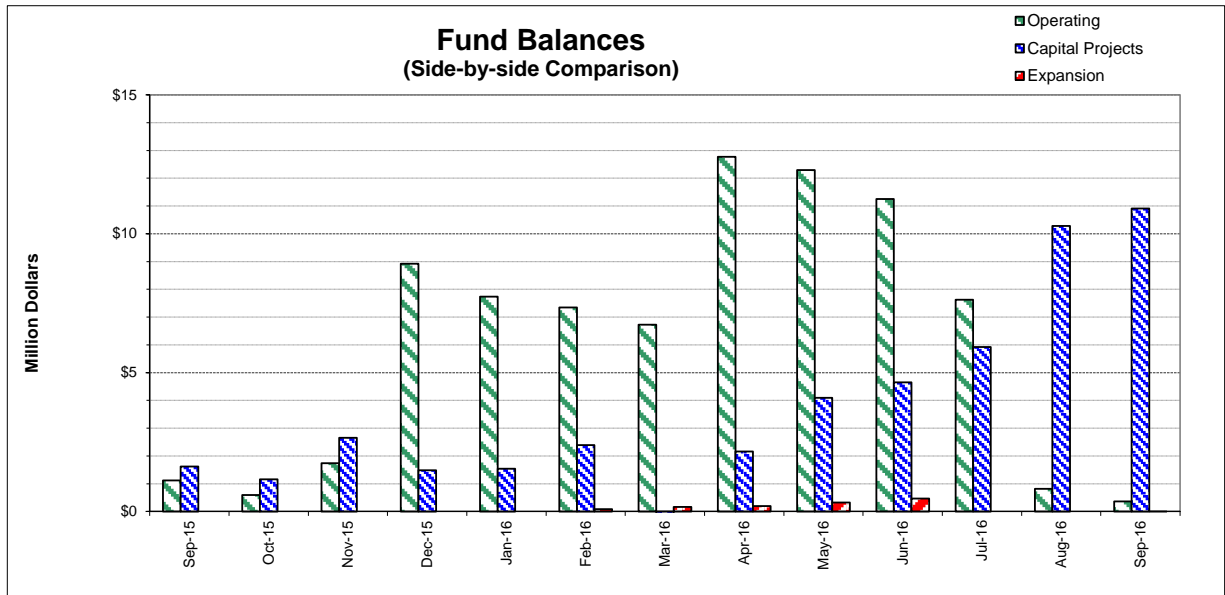
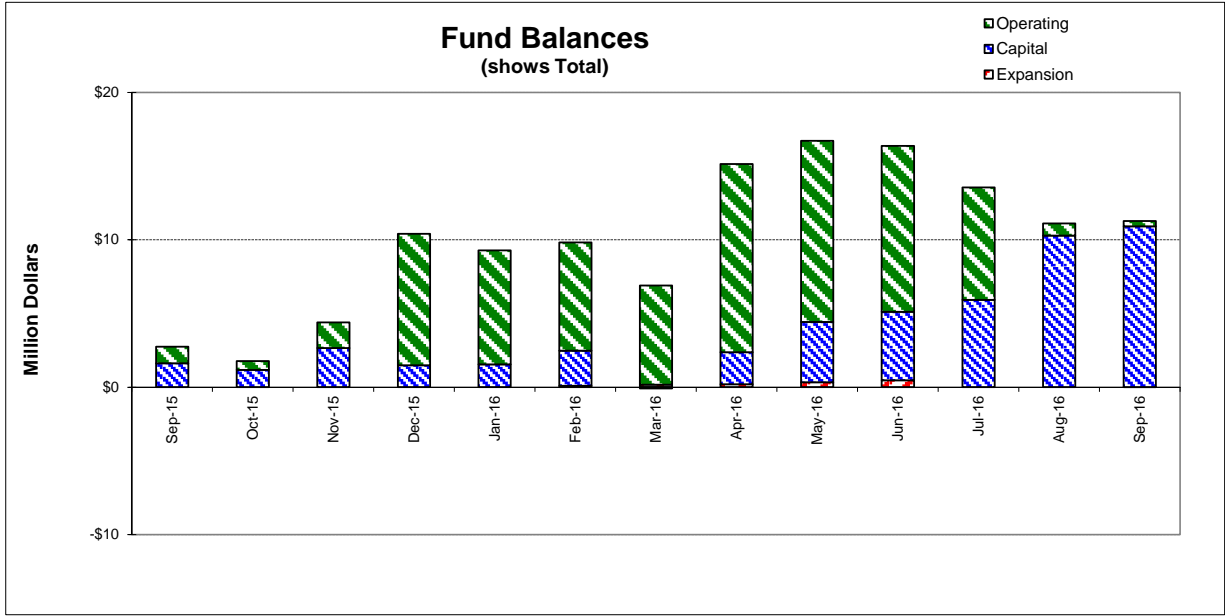
**Cash on Hand as of 9/30/16** **\$11,274,509.72**

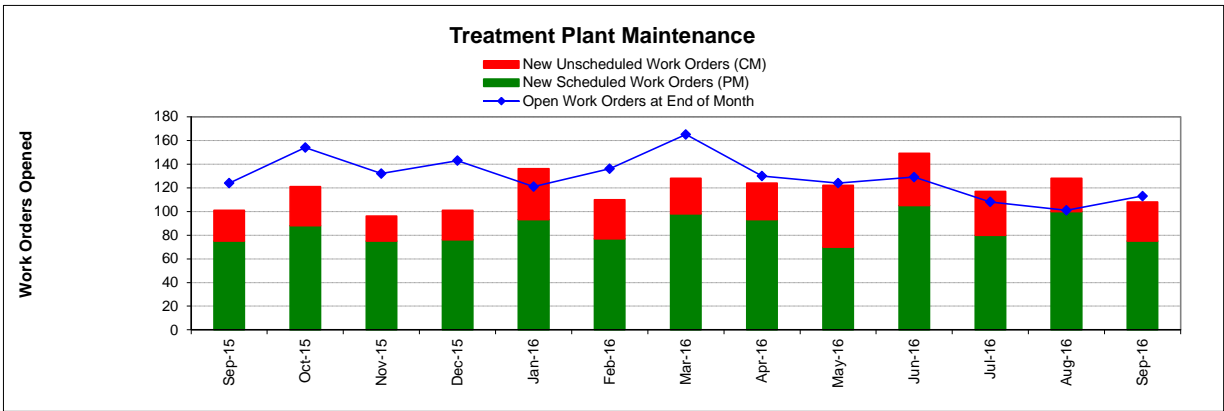
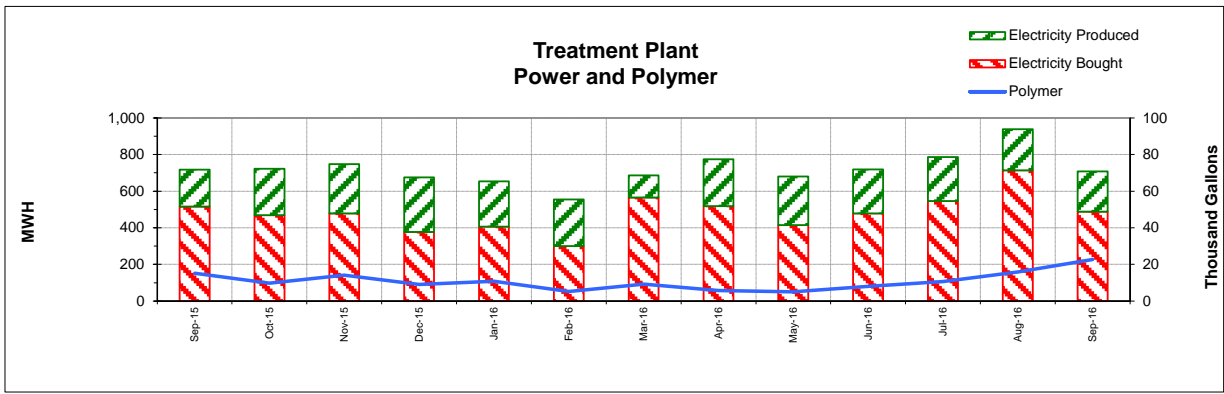
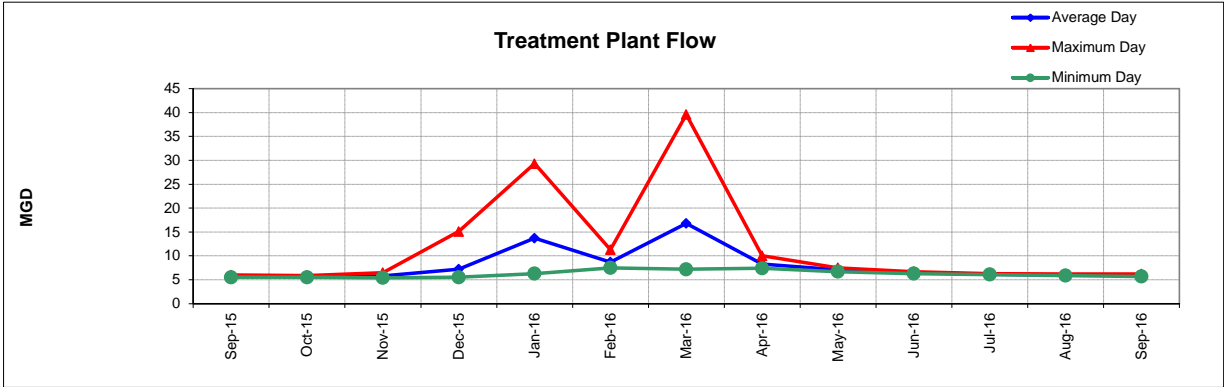
\*\*excluding Debt Service restricted funds  
9/30/16 -Effective Rate of Return = 0.82%

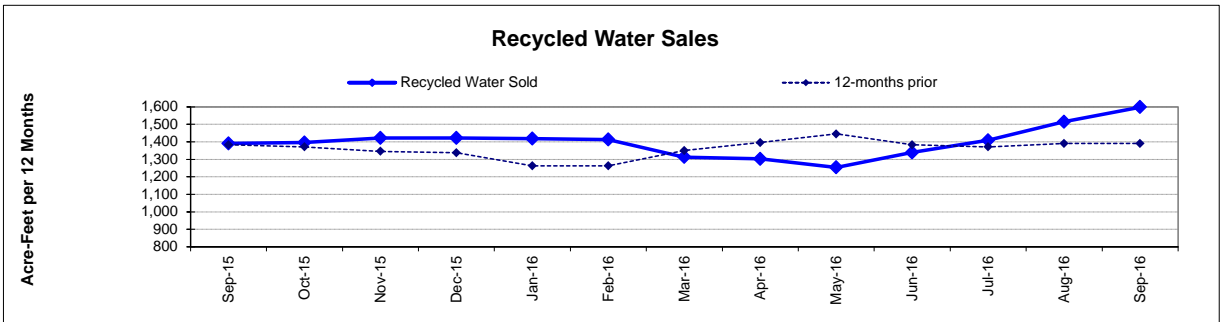
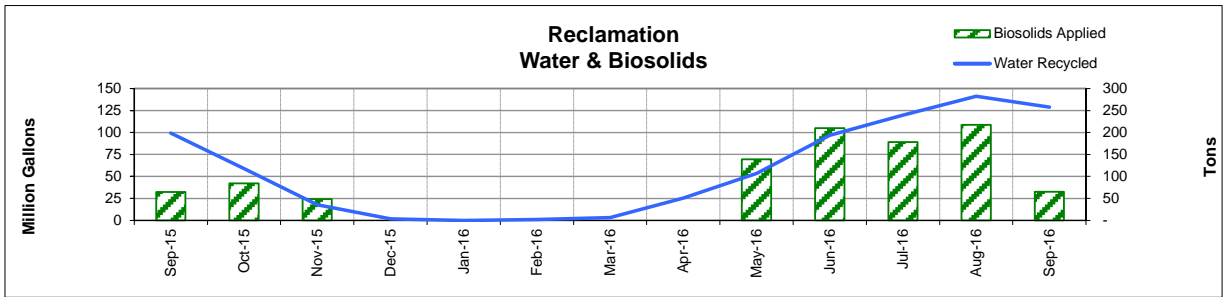
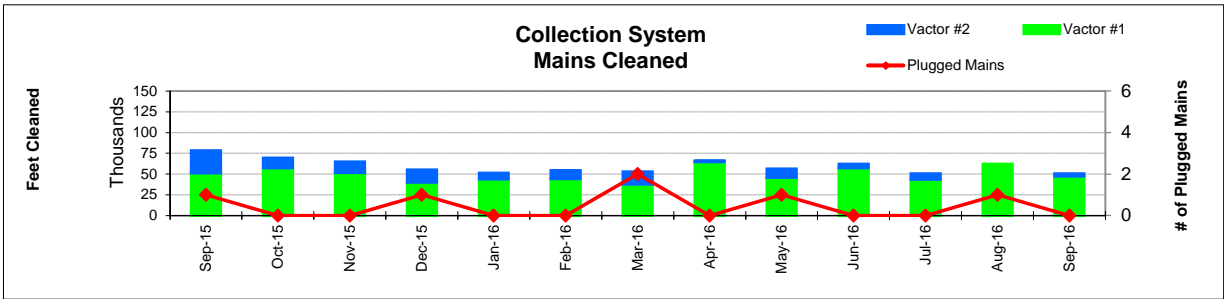
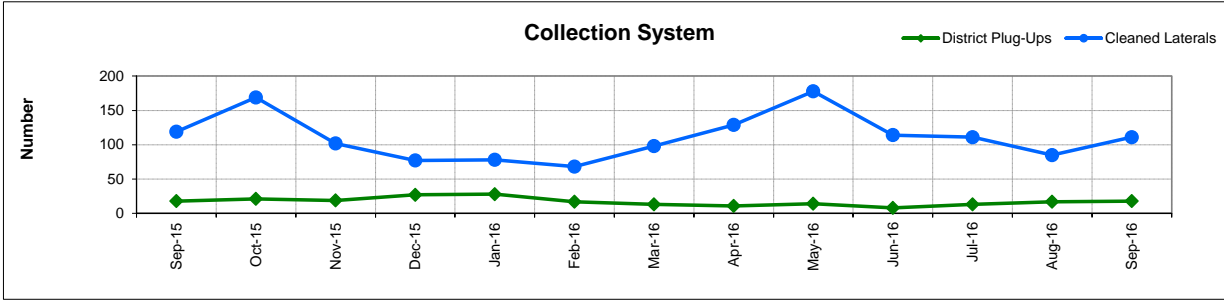
1. Series 2009B's and 2012A's principal/interest payments made in Aug & Feb
2. Processed 25% of intrafund transfer budget from Operating to Capital in July
3. Includes Debt Service and Intrafund Transfers; otherwise is 25.5%
4. See Capital Project Status report for details

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# FUND BALANCES - MONTHLY

CATEGORY	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
<i>(Thousand Dollars)</i>													
7800	1,119	598	1,739	8,920	7,737	7,347	6,726	12,775	12,297	11,251	7,626	819	362
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Operating</b>	<b>1,119</b>	<b>598</b>	<b>1,739</b>	<b>8,920</b>	<b>7,737</b>	<b>7,347</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>
Capital Improvement Projects	1,624	1,163	2,653	1,484	1,541	2,389	(96)	2,163	4,096	4,649	5,924	10,284	10,912
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal Capital</b>	<b>1,624</b>	<b>1,163</b>	<b>2,653</b>	<b>1,484</b>	<b>1,541</b>	<b>2,389</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>Total Discretionary Funds</b>	<b>2,743</b>	<b>1,761</b>	<b>4,392</b>	<b>10,404</b>	<b>9,278</b>	<b>9,736</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>
Expansion Fund (Restricted)	-	-	-	-	-	85	168	200	326	467	-	-	1
<b>Total Restricted Funds</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>85</b>	<b>168</b>	<b>200</b>	<b>326</b>	<b>467</b>	<b>-</b>	<b>-</b>	<b>1</b>
<b>TOTAL ALL FUNDS</b>	<b>2,743</b>	<b>1,761</b>	<b>4,392</b>	<b>10,404</b>	<b>9,278</b>	<b>9,821</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>

# DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
<b><u>Phone Requests</u></b>													
Maps/Drawings	10	6	14	5	9	9	9	8	9	5	5	9	5
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	7	10	4	3	8	12	9	6	9	10	7	11	7
Development Questions	59	93	65	56	89	77	66	105	58	75	99	126	56
Miscellaneous	9	6	5	6	1	6	8	7	14	14	14	15	7
<b>TOTAL</b>	<b>85</b>	<b>115</b>	<b>88</b>	<b>70</b>	<b>107</b>	<b>104</b>	<b>92</b>	<b>126</b>	<b>90</b>	<b>104</b>	<b>125</b>	<b>161</b>	<b>75</b>
<b><u>Counter Requests</u></b>													
Maps/Drawings	2	1	2	1	3	3	2	5	-	-	3	7	5
Lateral Permits	9	15	10	14	15	11	8	10	13	12	9	19	19
Policy Questions	1	-	-	2	-	-	1	2	-	2	-	2	2
Development Questions	7	11	10	9	8	17	12	23	2	10	17	30	17
Miscellaneous	-	3	-	1	1	-	-	2	-	3	5	6	4
<b>TOTAL</b>	<b>19</b>	<b>30</b>	<b>22</b>	<b>27</b>	<b>27</b>	<b>31</b>	<b>23</b>	<b>42</b>	<b>15</b>	<b>27</b>	<b>34</b>	<b>64</b>	<b>47</b>
<b><u>Initial Request (Referrals)</u></b>	<b>14</b>	<b>20</b>	<b>15</b>	<b>9</b>	<b>15</b>	<b>14</b>	<b>16</b>	<b>11</b>	<b>17</b>	<b>14</b>	<b>12</b>	<b>22</b>	<b>10</b>
<b><u>Connection Permits Issued</u></b>													
Residential Permits	7	2	2	8	5	3	4	2	6	9	-	1	1
Commercial Permits	2	4	2	3	-	1	2	1	3	2	1	1	2
Industrial Permits	-	-	-	1	-	-	-	-	-	-	-	-	-
<b>TOTAL PERMITS</b>	<b>9</b>	<b>6</b>	<b>4</b>	<b>12</b>	<b>5</b>	<b>4</b>	<b>6</b>	<b>3</b>	<b>9</b>	<b>11</b>	<b>1</b>	<b>2</b>	<b>3</b>
Residential Units	7	2	2	8	12	4	11	2	6	9	-	1	1
Commercial Units	2	4	183	3	-	1	2	1	3	2	1	1	146
<b>TOTAL UNITS</b>	<b>9</b>	<b>6</b>	<b>185</b>	<b>11</b>	<b>12</b>	<b>5</b>	<b>13</b>	<b>3</b>	<b>9</b>	<b>11</b>	<b>1</b>	<b>2</b>	<b>147</b>
<b><u>Annexations</u></b>													
Submitted	-	-	2	1	-	-	-	-	-	1	-	-	1
Acreage	-	-	1.60	0.12	-	-	-	-	-	1.50	-	-	1.10
<b><u>Plans Reviewed</u></b>													
<b><u>Subdivisions/Sites</u></b>													
First Submittal	7	4	5	1	3	4	3	8	1	5	1	8	4
Second Submittal	1	3	3	-	-	1	4	3	-	1	1	6	4
Third Submittal	2	1	2	2	1	2	1	1	1	1	3	1	7
<b><u>Building/Tenant Improvements</u></b>													
First Submittal	15	17	19	13	9	2	16	21	12	10	3	12	4
Second Submittal	11	9	4	8	8	1	7	8	7	4	6	4	9
Third Submittal	3	3	9	5	4	1	3	1	6	3	5	1	5
<b><u>Miscellaneous Plan Reviews</u></b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL PLANS REVIEWED</b>	<b>39</b>	<b>37</b>	<b>42</b>	<b>29</b>	<b>25</b>	<b>11</b>	<b>34</b>	<b>42</b>	<b>27</b>	<b>24</b>	<b>19</b>	<b>32</b>	<b>33</b>

# INSPECTION WORKLOAD - MONTHLY

CATEGORY	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
<b><u>CONSTRUCTION</u></b>													
Locating Sewers	-	-	-	-	3	-	-	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	-	1	1	2	4	6	6	8	9	7	3	9	-
Inspections - Mains	-	-	-	-	-	6	3	3	2	-	2	1	-
Inspections - Manholes	-	2	13	-	10	91	49	15	8	13	3	-	-
Inspections - Laterals	21	8	9	14	10	15	16	45	29	22	20	20	9
Inspections - Cleanouts	30	12	51	43	17	48	41	42	60	51	28	25	4
Inspections - Review Video	-	1	2	1	4	2	1	4	-	4	-	3	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	1	-	-	-	1	3	-	-	2	-	1	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>51</b>	<b>25</b>	<b>76</b>	<b>60</b>	<b>48</b>	<b>169</b>	<b>119</b>	<b>117</b>	<b>108</b>	<b>99</b>	<b>56</b>	<b>59</b>	<b>13</b>
<b><u>MISCELLANEOUS</u></b>													
Meter Readings	-	-	15	33	-	-	10	-	9	9	10	9	-
Washdown Facility Inspections	-	11	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	19	20	4	3	7	36	37	16	10	1	4	4	9
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>19</b>	<b>31</b>	<b>19</b>	<b>36</b>	<b>7</b>	<b>36</b>	<b>47</b>	<b>16</b>	<b>19</b>	<b>10</b>	<b>14</b>	<b>13</b>	<b>9</b>
<b><u>SPECIAL PROJECTS</u></b>													
	21	18	5	6	-	3	-	15	21	22	31	22	7

# POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
<b><u>Outreach Activities</u></b>													
Plant Tours Conducted		1	2	1	3	2	1	4	4	2	0	0	0
Presentations Made		0	0	0	0	1	1	5	2	0	0	1	0
<b>Total Outreach Activities</b>	-	1	2	1	3	3	2	9	6	2	-	1	-
<b><u>Inspections Conducted</u></b>													
Food Service Facilities	7	1	-	10	24	30	31	19	12	-	-	-	1
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	1	1	-	-	-	-	-
<b>Total Inspections</b>	7	1	-	10	24	30	32	20	12	-	-	-	1
<b><u>Compliance Issues</u></b>													
NOVs Issued	2	1	3	1	2	-	1	2	-	2	1	-	-
NOEs Issued	-	1	1	1	-	-	-	1	2	-	-	-	1
Non-Compliant-FOG	-	-	-	-	-	1	-	-	-	-	-	-	-
<b>Total Compliance Issues</b>	2	2	4	2	2	1	1	3	2	2	1	-	1
<b><u>Pollution Prevention</u></b>													
Clothes Washer Rebates	12	-	8	27	12	10	-	18	14	45	-	-	-
Toilet Retrofit Rebates	35	17	19	21	1	6	22	19	6	10	-	11	4
Pharmaceuticals Diverted (in lbs)	213	305	199	166	556	341	341	322	240	243	362	303	386

**RECYCLED WATER DELIVERIES - MONTHLY**

	Acres	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
<b>MONTHLY (MG)</b>														
<b>Water Sold</b>														
Golf Courses	405.0	41.120	20.985	2.744	0.795	-	0.027	0.070	13.197	37.578	57.273	62.709	63.227	49.600
Cemeteries	5.0	0.854	0.448	0.082	-	-	0.145	0.000	0.015	0.447	0.709	0.931	0.754	1.225
Parks	18.5	0.858	0.415	0.086	-	-	-	-	0.036	0.725	1.078	1.299	1.172	0.741
Schools	21.0	1.827	1.119	0.382	0.088	-	0.040	0.075	0.360	1.528	2.675	2.181	2.120	1.497
Commerical	167.6	13.091	10.945	4.335	0.609	-	0.346	2.430	6.403	11.038	17.053	15.318	17.259	15.070
Vineyards	564.0	0.441	0.396	10.205	0.045	-	0.446	0.365	5.268	2.034	13.413	15.693	21.832	17.609
Trucked Water	175.0	0.333	0.473	0.039	0.020	-	0.010	0.018	0.098	0.064	0.135	0.232	1.042	0.135
<b>Subtotal Sales</b>	<b>1,356.1</b>	<b>58.524</b>	<b>34.780</b>	<b>17.872</b>	<b>1.556</b>	<b>-</b>	<b>1.012</b>	<b>2.958</b>	<b>25.377</b>	<b>53.413</b>	<b>92.336</b>	<b>98.363</b>	<b>107.405</b>	<b>85.877</b>
<b>District Use</b>														
Jameson	330.0	16.280	14.046	-	-	-	-	0.084	-	-	1.481	5.414	12.456	20.935
Somky	213.0	24.405	10.220	-	-	-	-	-	-	-	2.950	16.037	21.318	22.108
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal District</b>	<b>593.5</b>	<b>40.685</b>	<b>24.266</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</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>TOTAL DELIVERED</b>	<b>1,949.6</b>	<b>99.209</b>	<b>59.046</b>	<b>17.872</b>	<b>1.556</b>	<b>-</b>	<b>1.012</b>	<b>3.042</b>	<b>25.377</b>	<b>53.413</b>	<b>96.766</b>	<b>119.814</b>	<b>141.178</b>	<b>128.920</b>
<b>ANNUAL (AF)</b>														
<b>Water Sold</b>														
Golf Courses	405.0	998	1,001	997	1,000	999	999	915	899	840	869	891	920	946
Cemeteries	5.0	16	15	15	15	15	15	15	13	13	13	13	13	15
Parks	18.5	16	17	17	17	17	17	17	16	16	17	17	17	17
Schools	21.0	39	40	40	40	40	40	37	35	35	37	38	38	37
Commerical	167.6	287	293	295	294	292	286	275	270	276	294	295	303	309
Vineyards	564.0	25	21	51	49	49	50	49	64	68	103	149	215	268
Trucked Water	175.0	9	9	8	7	6	6	6	6	6	5	5	8	7
<b>Subtotal Sales</b>	<b>1,356.1</b>	<b>1,391</b>	<b>1,396</b>	<b>1,423</b>	<b>1,422</b>	<b>1,419</b>	<b>1,414</b>	<b>1,313</b>	<b>1,303</b>	<b>1,254</b>	<b>1,339</b>	<b>1,409</b>	<b>1,515</b>	<b>1,599</b>
<b>District Use</b>														
Jameson	330.0	122	103	103	103	103	103	103	103	103	107	124	153	167
Somky	213.0	305	291	291	291	291	291	291	291	221	195	208	230	223
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal District</b>	<b>593.5</b>	<b>427</b>	<b>394</b>	<b>394</b>	<b>394</b>	<b>394</b>	<b>394</b>	<b>394</b>	<b>394</b>	<b>324</b>	<b>302</b>	<b>332</b>	<b>383</b>	<b>390</b>
<b>TOTAL DELIVERED</b>	<b>1,949.6</b>	<b>1,818</b>	<b>1,790</b>	<b>1,816</b>	<b>1,816</b>	<b>1,812</b>	<b>1,807</b>	<b>1,707</b>	<b>1,697</b>	<b>1,578</b>	<b>1,641</b>	<b>1,740</b>	<b>1,897</b>	<b>1,989</b>



# BIOSOLIDS HANDLING - MONTHLY

Site	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
<u>Land Applied by NSD</u>													
Somky													
Airport/Fagundes													
Jameson Canyon	64	84	49	-	-	-	-	-	139	210	178	217	65
Subtotal by NSD	64	84	49	-	-	-	-	-	139	210	178	217	65
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Land Applied</b>	<b>64</b>	<b>84</b>	<b>49</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>139</b>	<b>210</b>	<b>178</b>	<b>217</b>	<b>65</b>
<b>Off Site (Contractor)</b>													
<b>Total (tons)</b>	<b>64</b>	<b>84</b>	<b>49</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>139</b>	<b>210</b>	<b>178</b>	<b>217</b>	<b>65</b>

# COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
<b><u>Plugups</u></b>													
<b>Total Calls</b>	63	57	53	69	78	58	43	41	45	33	48	52	48
Business Hours	37	35	29	40	40	42	22	31	30	22	27	35	35
After Hours	26	22	24	29	38	16	21	10	15	11	21	17	13
District's	18	21	19	27	28	17	13	11	14	8	13	17	18
Property Owner's	45	36	34	42	50	39	30	30	31	25	35	35	30
Plugged Main Lines	1			1			2		1			1	
Run Lateral w/Eel	119	169	102	77	78	68	98	129	178	114	111	85	111
<b><u>Cleaning (feet of sewer)</u></b>													
Vactor #1	51,755	57,917	51,959	40,292	44,407	44,811	38,201	65,231	46,352	57,690	43,988	61,502	47,869
Vactor #2	26,032	11,147	12,224	14,325	6,329	9,199	14,073	325	9,687	4,002	6,288		2,184
Hydro													
Rodder						650							
<b>Total (feet)</b>	<b>77,787</b>	<b>69,064</b>	<b>64,183</b>	<b>54,617</b>	<b>50,736</b>	<b>54,660</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><u>Cleaning Days</u></b>	<b>24</b>	<b>25</b>	<b>22</b>	<b>23</b>	<b>18</b>	<b>21</b>	<b>17</b>	<b>19</b>	<b>19</b>	<b>19</b>	<b>18</b>	<b>19</b>	<b>16</b>
Vactor #1	14	19	16	18	16	13	14	18	17	17	15	19	15
Vactor #2	10	6	6	5	2	7	3	1	2	2	3		1
Hydro													
Rodder						1							
<b><u>Feet/day</u></b>	<b>3,250</b>	<b>2,750</b>	<b>2,900</b>	<b>2,350</b>	<b>2,800</b>	<b>2,600</b>	<b>3,050</b>	<b>3,450</b>	<b>2,950</b>	<b>3,250</b>	<b>2,800</b>	<b>3,250</b>	<b>3,150</b>
Vactor #1	3,700	3,050	3,250	2,250	2,800	3,450	2,750	3,600	2,750	3,400	2,950	3,250	3,200
Vactor #2	2,600	1,850	2,050	2,850	3,150	1,300	4,700	350	4,850	2,000	2,100		2,200
Hydro													
Rodder						650	222						
<b><u>Video Inspections</u></b>													
Mains (feet)	6,577	12,031	8,137	7,248	6,583	9,718	12,343	8,670	17,352	15,115	3,878	15,885	6,453
Laterals (each)	194	230	159	173	175	131	154	181	225	152	183	140	161
<b><u>Construction (each)</u></b>													
Cleanouts	10	7	10	23	22	20	13	17	7	10	7	3	16
Laterals	8		2	2	5	8		4	3	5	4		
Mains		1			1			2					
Manholes	1	1											
Other									39				
<b><u>USA Markings</u></b>													
Regular (w/in 2 days)	267	251	218	178	222	281	247	270	319	225	244	326	252
Emergency (w/in 2 hours)	13	13	8	16	21	8	13	5	-	6	14	8	10

## WASTEWATER PLANT OPERATIONS DATA - MONTHLY

[illegible]

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

<b>CATEGORY</b>	<b>Sep-15</b>	<b>Oct-15</b>	<b>Nov-15</b>	<b>Dec-15</b>	<b>Jan-16</b>	<b>Feb-16</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><u>Scheduled</u></b>													
Old	127	50	74	66	78	39	55	77	66	53	55	37	39
New	75	88	75	76	93	77	98	93	70	105	80	100	75
Completed	152	64	83	64	132	61	76	104	83	103	98	98	63
<b>New Balance</b>	<b>50</b>	<b>74</b>	<b>66</b>	<b>78</b>	<b>39</b>	<b>55</b>	<b>77</b>	<b>66</b>	<b>53</b>	<b>55</b>	<b>37</b>	<b>39</b>	<b>51</b>
<b><u>Unscheduled</u></b>													
Old	80	74	80	66	65	82	81	88	64	71	74	71	62
New	26	33	21	25	43	33	30	31	52	44	37	28	33
Completed	32	27	35	26	26	34	23	55	45	41	40	37	33
<b>New Balance</b>	<b>74</b>	<b>80</b>	<b>66</b>	<b>65</b>	<b>82</b>	<b>81</b>	<b>88</b>	<b>64</b>	<b>71</b>	<b>74</b>	<b>71</b>	<b>62</b>	<b>62</b>
<b><u>Total Work Orders</u></b>													
Old	207	124	154	132	143	121	136	165	130	124	129	108	101
New	101	121	96	101	136	110	128	124	122	149	116	128	108
Completed	193	93	118	90	158	95	99	160	128	144	138	136	96
<b>New Balance</b>	<b>124</b>	<b>154</b>	<b>132</b>	<b>143</b>	<b>121</b>	<b>136</b>	<b>165</b>	<b>130</b>	<b>124</b>	<b>129</b>	<b>108</b>	<b>101</b>	<b>113</b>
<b><u>LAB ANALYSES</u></b>													
<b><u>Sample Type</u></b>													
Regulatory	342	346	408	408	315	281	325	392	130	158	193	179	193
Process Control	843	791	1,310	1,258	1,288	1,157	1,276	1,235	778	729	744	907	739
Special Request	554	174	299	235	60	17	1	5	320	11	207	93	-
Quality Control/Assurance	5	7	302	302	372	500	306	349	209	5	32	5	5
<b>TOTAL</b>	<b>1,744</b>	<b>1,318</b>	<b>2,319</b>	<b>2,203</b>	<b>2,035</b>	<b>1,955</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>

**Summary of NSD Capital Project Status  
through 9-30-2016**

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			88,700	-	-	88,700	-
13702	Manhole Raising/Rehab	198,900			198,900	174,085	3,254	21,561	2%
13703	Lateral Replacement/Rehab	72,000			72,000	-	11,438	60,562	16%
13704	Cleanouts Installation/Rehab	87,000			87,000	-	8,870	78,130	10%
13705	I&I Reduction Program	200,000			200,000	63,395	1,544	135,061	1%
14703	Browns Valley Rd & First St	2,800,000	813,800		3,613,800	681,510	48,208	2,884,082	1%
15703	Sarco Crk PL Rplcmnt/CalTRANS	1,050,000	(34,250)		1,015,750	890,362	82,685	42,703	8%
15721	ACP CIPP Lining Project #1	-	330,000		330,000	33,176	264,261	32,563	80%
16701	Basin L - I&I Reduction #5	1,400,000	(490,400)		909,600	38,556	632,057	238,986	69%
16718	NN Siphon Vault Cover Replacement	-	5,000		5,000	-	1	4,999	0%
16723	Milliken Creek Sewer Repair	-	150,000		150,000	103,398	50	46,552	0%
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			90,000	-	50	89,950	0%
17704	Infltrtn Rehab - SSMH/PL (CI-)	400,000		(300,000)	100,000	4,400	11,225	84,375	11%
17705	Soscol Ave (8th to Oil Co Rd)	500,000			500,000	73,971	-	426,029	-
17706	Rehab - Ranch De Los Robles	400,000		(400,000)	-	-	-	-	-
17707	66-inch Trunk CCTV Inspection	150,000			150,000	-	-	150,000	-
17708	Basin G - I&I Reduction #1	1,200,000		1,180,000	2,380,000	-	-	2,380,000	-
17734	Homewood/Westwood I/I Reduction	-		200,000	200,000	-	-	200,000	-
<b><u>COLLECTION SYSTEM - EQUIPMENT</u></b>									
17709	Eel Replacment 1	5,400		100	5,500	5,454	-	46	-
17710	Vehicle 510 - Water Truck	207,900		(18,100)	189,800	186,709	-	3,091	-
<b><u>LIFT STATIONS</u></b>									
17711	West Napa PS - Rehab	1,750,000			1,750,000	-	-	1,750,000	-
<b><u>TREATMENT</u></b>									
16708	Algae to Digester with Thermal Study	-	50,450		50,450	23,743	2,712	23,995	5%
17712	Headworks/Primary - Odor Ctrl	20,000		5,000	25,000	-	-	25,000	-
<b><u>TREATMENT - EQUIPMENT</u></b>									
13741	Secondary PS Pump Rebuild (3)	37,500	7,200		44,700	4,460	-	40,240	-
13743	Risidual Analyzers (Deox) Replacements	-		20,000	20,000	-	-	20,000	-
14720	Belt Press Polymer Skid Replacement	-	55,700		55,700	-	47,643	8,057	86%
15711	Rotork Actuator Replacement	-	52,750		52,750	-	6,200	46,550	12%
15712	Rehab Pond 1 Storage Structure	25,000	5,000		30,000	-	-	30,000	-
15713	Aeration Basin Instrmntn/Ctrl	1,200,000	(126,000)	500,000	1,574,000	1,192,188	241,588	140,225	15%
16713	Buried Metallic Piping (eval/rehab)	40,000	10,000	(8,200)	41,800	-	-	41,800	-
16714	High Voltage System Repairs	-	30,000	20,000	50,000	-	-	50,000	-
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	-	-	53,600	-

**Summary of NSD Capital Project Status  
through 9-30-2016**

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	-	-	60,000	-
17715	Turbidimeters (7) Tertiary Rplcmnts	11,800		11,200	23,000	21,516	-	1,484	-
17716	FOG - Strain Press	200,000			200,000	165,078	-	34,922	-
17717	Energy Audit - Odor Control VFD	51,700			51,700	-	-	51,700	-
17718	Energy Audit - LED Pole/Arm Mounted Fixtures	78,100		50,000	128,100	-	53	128,048	0%
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	-	-	6,200	-
17722	Main - Stationary Gas Detector Replacment Ph 2	140,000		35,000	175,000	-	-	175,000	-
17723	Main - Rotork Actuator Replacment	88,700			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	9,570	1	29,129	0%
17726	Headworks Equipment Rehab/Replacment	10,000		100,000	110,000	-	-	110,000	-
17727	Roof Replacement - Digester 2nd Floor	125,000			125,000	-	-	125,000	-
17728	Roof Replacement - AB/Blower Building	40,000			40,000	-	-	40,000	-
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		63,600	-	442	63,158	1%
16716	Line Recycled Water Reservoir	1,320,000	(18,400)	(1,000,000)	301,600	82,371	42,211	177,018	14%
17730	Jameson Solids Pad Dump Bay	15,000		(15,000)	-	-	-	-	-
17731	Jameson Office Trailer Replacment	25,000			25,000	-	-	25,000	-
17732	Vehicle 710 - 8830 Tractor	200,000		(30,000)	170,000	165,932	-	4,068	-
17733	Vehicle 172 - Ford F150	28,000		5,000	33,000	30,900	-	2,100	-
<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	319,475	2,512	178,013	1%
14727	Split N/S Lines, surge protection	-	50,000		50,000	26,746	3,218	20,036	6%
15718	LCWD Recycled Water Pipeline - Construction	-	500,000		500,000	348,677	7,073	144,250	1%
16722	MST RW Pipeline Extension	1,200,000	(700)		1,199,300	326,752	9,588	862,960	1%
<b><u>OTHER</u></b>									
13729	Development Technical Support	231,800			231,800	-	55,507	176,293	24%
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>\$5,190,803</b>	<b>\$1,766,272</b>	<b>\$12,326,877</b>	<b>9%</b>