



Napa Sanitation District

General Manager's Report

for

June, 2018

Contents:

- a. Transmittal Memo
- b. Budget Status and Cash Summary
- c. Key Information Graphs – Fund Balances, Treatment Plant and Collection
- d. Fund Balances
- e. Development Processing
- f. Construction Inspection
- g. Pollution Prevention
- h. Recycled Water Deliveries
- i. Biosolids Handling
- j. Collection System Maintenance
- k. Treatment Plant Operations
- l. Treatment Plant Maintenance & Laboratory
- m. Capital Project Expenditure Summary



NAPA SANITATION DISTRICT

General Manager's Report

DATE: August 1, 2018

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for June 2018

REGULATORY COMPLIANCE:

Collection System Compliance:	0 Category 1 SSO's, 0 Category 2 SSO's, and 0 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, 2017 – June 30, 2018
Percent Fiscal Year:	100.0%
Operating Expenditures to date:	79.0%
Historical Expenditures to date:	93.3%
Significant Comments:	Only 50% of the intrafund transfer from the Operating to Capital Fund was done due to sufficient cash flow during the year. If the entire transfer was done, the "Operating Expenditures to date" would have been 94.1%. Also, the "Operating Expenditures to date" does not include all expenses for supplies and services that were incurred on or before June 30 th . There are some invoices for FY 2017/18 that need to be accrued and adjusting entries posted for the year-end process for FY 2017/18. An amended Budget Status report for June will be provided after the completion of the annual audit scheduled for the middle of September 2018.

PERSONNEL:

Significant events for the month of June 2018 in the Human Resources Department:

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

Summaries of Operational Highlights are as follows:

COLLECTIONS:

Significant events for the month of June 2018 in Collection System Maintenance include:

- For the first time in over 7 years we were able to file a No Spill declaration with CWIQS.
- The District had 0 Category 1 Sanitary Sewer Overflows (SSO's), 0 Category 2 SSO's and 0 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, repaired 1 cleanout performed two main line repairs and raised 1 manhole. They also repaired 2 laterals, installed 21 lateral liners and relocated 1 lateral. Additionally, the service response/programs crew completed 135 work orders in support of the grease and odor control program, responded to 26 customer requests for service (6 were NSD problems) and closed out 293 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 173 laterals, cleaned approximately 43,831 feet of main line and CCTV inspected 22 laterals. In addition, the CCTV truck televised 18,248 feet of mainline.

TREATMENT PLANT:

Significant events for the month of June 2018 in the Treatment Plant Department:

Plant Operations:

- For June 2018, the plant's influent flow was 191.0 MG as compared to last year flow for June 2017 of 206.4 MG
- There was no Flow to the Napa River for June 2018.
- The production of recycle quality occurred for 30 days during June 2018 with a total distributed flow of 134.04 MG.
- There was 0.04" rainfall for June 2018 as compared to 0.29" rainfall for June 2017.
- Pond 4 end of the month recorded level reading was 30.55" as compared to June 2017 of 19.27". Total remaining pond capacity for June 2018 was 59.8% as compared to June 2017 remaining capacity of 67.3%.

Power Consumption and Production:

- This June power consumption purchased from PG&E was 270 MWH in comparison to June 2017 purchase of 338 MWH
- Cogeneration unit ran 716 of 720 hours for the month – 99.44% uptime, averaging 355.53 Kw, producing 266 MWH of energy.
- Solar generation in June was 227 MWH, compared to 200 MWH in May.

Maintenance:

Significant events for the month of June 2018:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Cogen service:
 - Changed oil and filters
 - Replaced pre-air filter and main air filter
- Change Siloxane Filters Media
- Replaced moisture sensor in recycle bladder tank
- Replaced motor and coupling on filter stage drives #2&3
- Installed new FOG transfer pump
- Seal replacement in FOG mix pump #1
- Replaced CCB 2 drain valve
- Jockey Pump Recycle/replaced over pressure switch
- Filtering of diesel fuel storage units

Projects

- Installed stop gate/P-4 pump station, dewater, remove debris and screens
- Removed and replaced recycle motor #2
- Completed CIP 18717/Septage HMI up-grade
- New HMI installed at FOG receiving station

Standby Power

- Plant generators ran for 1hr/40min due to utility over voltage fault
- Riverpark, Stonecrest, West Napa operational testing only

Influent Pumps

- All pumps operational

Laboratory:

Monthly **Influent** monitoring of all parameters occurred at the required frequencies. The following were notable sampling events:

- June 5, 2018: Metals, Cyanide, Mercury

RECYCLING:

Significant events in the Recycling Department for June 2018 include:

- Recycled water delivered for the month of June 2018 (122.711 million gallons), as compared to June 2017 (110.628 million gallons) is higher due to vineyard, cemetery and trucked demand. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff approved two connections in the MST and three connections in the LCWD recycled water use areas.
- Staff initiated land application activities of biosolids on the Jameson Reuse Site for the reporting period.

POLLUTION PREVENTION:

Significant events in the Pollution Prevention and Outreach Division June 2018 include:

- There were 3 tours of the treatment plant given in June.
- In June, 74 pounds of medication was collected at Family Drug. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 21,181.2 pounds.
- There were 21 ESME Washer Rebates issued this month for a total of \$262.50.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

Significant events occurring in the Engineering Division for June 2018 include:

- Consultant completed design of the Headworks Equipment Replacement Project. Staff issued Notice Inviting Bids for the Project.
- Staff continued installing floating covers for the Recycled Water Reservoir Improvements Project.
- Contractor continued construction of the 2018 Collection System Rehabilitation Project.
- Staff continued design of the 2019 Collection System Rehabilitation Project.
- Consultant began performing inspection services the 66-inch Trunk Sewer Rehabilitation Project.
- Staff rejected all bids for the 2018 Manhole Adjustment Project Phase VII and issued Notice Inviting Bids for the 2018 Manhole Adjustment Project Phase VIII.
- Consultant continued design of the Browns Valley Trunk Project.
- Consultant continued design of the West Napa Pump Station Project.
- Consultant continued the alternatives analysis for the Pond 1 Dredge Project.

- Contractor began construction of the 2018 Treatment Plant Improvement Project.
- Consultant and Staff continued work on Phase 1A of the Asset Management Program.
- Staff reviewed 42 sets of development plans and deemed 21 sets of plans complete. The approved plans consisted of eight residential dwellings and thirteen tenant improvements.

Budget Status & Cash Summary - July 1, 2017 - June 30, 2018 as of 7/24/18 (100.0% of the year)

<i>Expenditures</i>	FY 17-18 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
Operating						
Salaries & Benefits	\$9,581,300	\$0	\$9,086,383	\$9,086,383	\$494,917	94.8%
Services & Supplies	6,053,950	76,447	4,753,313	4,829,760	1,224,190	79.8%
Taxes	29,000	-	28,710	28,710	290	99.0%
Debt Service	4,777,450	-	4,775,374	4,775,374	2,076	100.0%
Intrafund Transfers	8,900,000	-	4,450,000	4,450,000	4,450,000	50.0%
Total Operating:	\$29,341,700	\$76,447	\$23,093,781	\$23,170,227	\$6,171,473	79.0%
Capital						
Bldgs/Improvements & Equip	\$33,785,500	\$3,676,327	\$13,855,791	\$17,532,119	\$16,253,381 ^①	51.9%
Intrafund Transfers	3,630,000	-	3,630,000	3,630,000	-	100.0%
Total Capital :	\$37,415,500	\$3,676,327	\$17,485,791	\$21,162,119	\$16,253,381	56.6%
Grand Total Expenditures:	\$66,757,200	\$3,752,774	\$40,579,572	\$44,332,346	\$22,424,854	66.4%

<i>Revenues</i>	FY 17-18 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
Operating						
Use of Money/Property	\$896,000		\$936,758	\$936,758	(\$40,758) ^②	104.5%
Intergovernmental	\$15,000		\$0	-	15,000	N/A
Charges for Services	27,429,100		26,586,784	26,586,784	842,316	96.9%
Miscellaneous Revenues	61,000		438,266	438,266	(377,266) ^③	718.5%
Donations/Contributions (Capital Labor)	-		831,117	831,117	(831,117) ^④	N/A
Total Operating:	\$28,401,100		\$28,792,926	\$28,792,926	(\$391,826)	101.4%
Capital						
Use of Money/Property	\$0		\$10,796	\$10,796	(\$10,796)	N/A
Capacity Charges	3,630,000		6,554,889	6,554,889	(2,924,889) ^⑤	180.6%
Intergovernmental	4,076,000		2,149,988	2,149,988	1,926,012	52.7%
Bond/Loan Proceeds	10,137,000		876,045	876,045	9,260,955	8.6%
Sale of Assets	25,000		8,372	8,372	16,628	N/A
Miscellaneous Revenues	-		6,870	6,870	(6,870)	N/A
Intrafund Transfers	12,530,000		8,080,000	8,080,000	4,450,000	64.5%
Total Capital:	\$30,398,000		\$17,686,961	\$17,686,961	\$12,711,039	58.2%
Grand Total Revenue:	\$58,799,100		\$46,479,887	\$46,479,887	\$12,319,213	79.0%

Cash on Hand as of 5/31/18

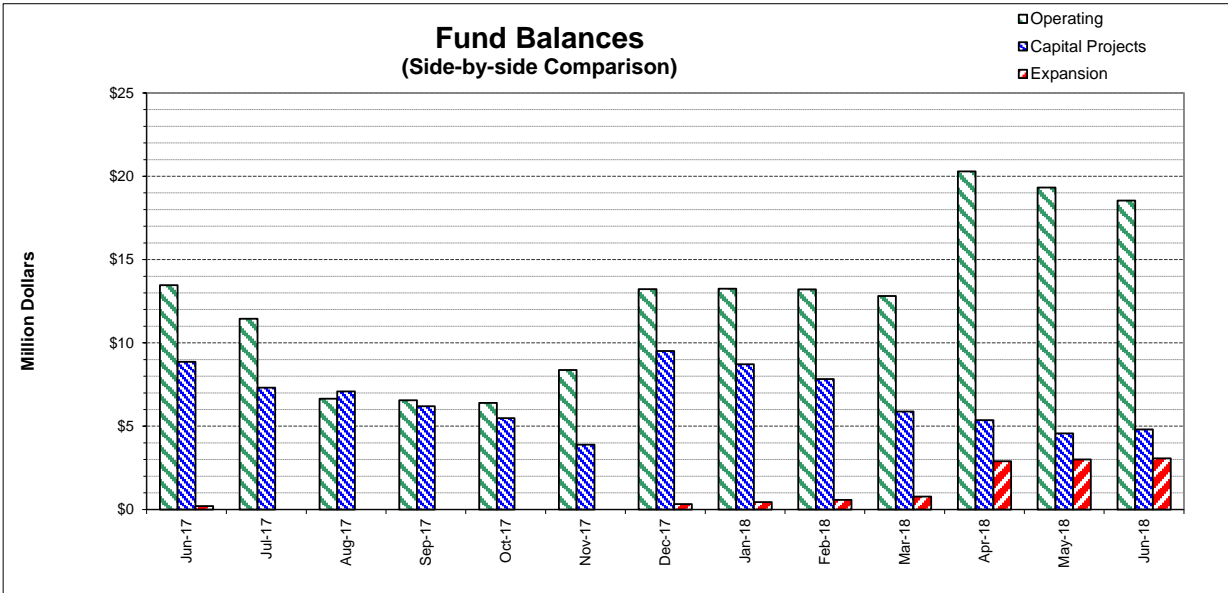
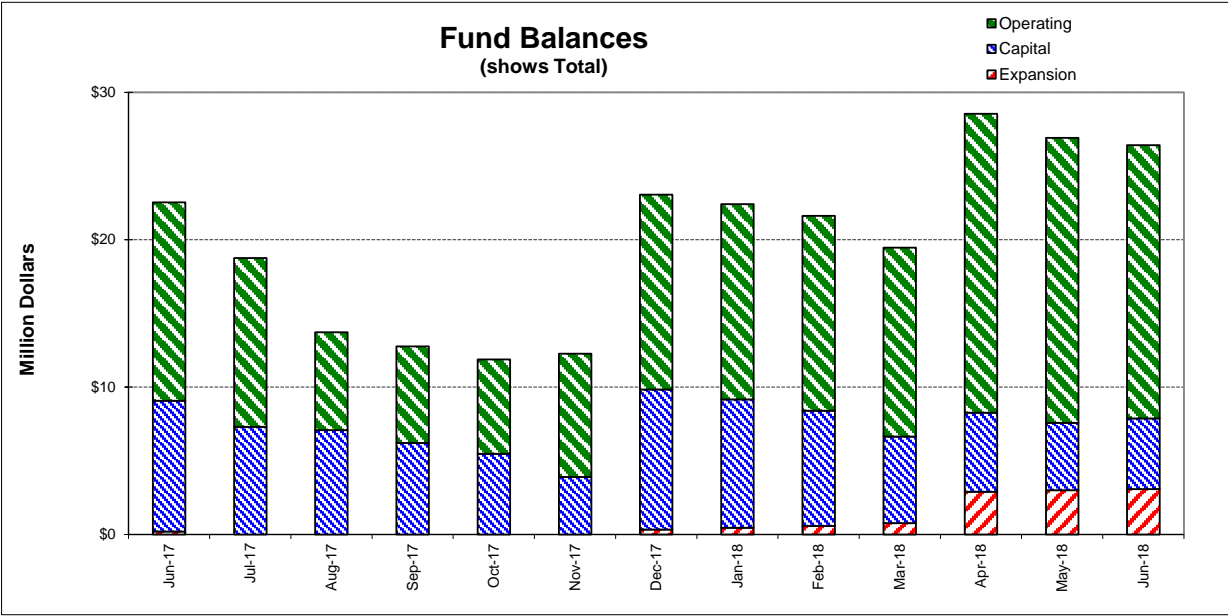
\$26,420,941

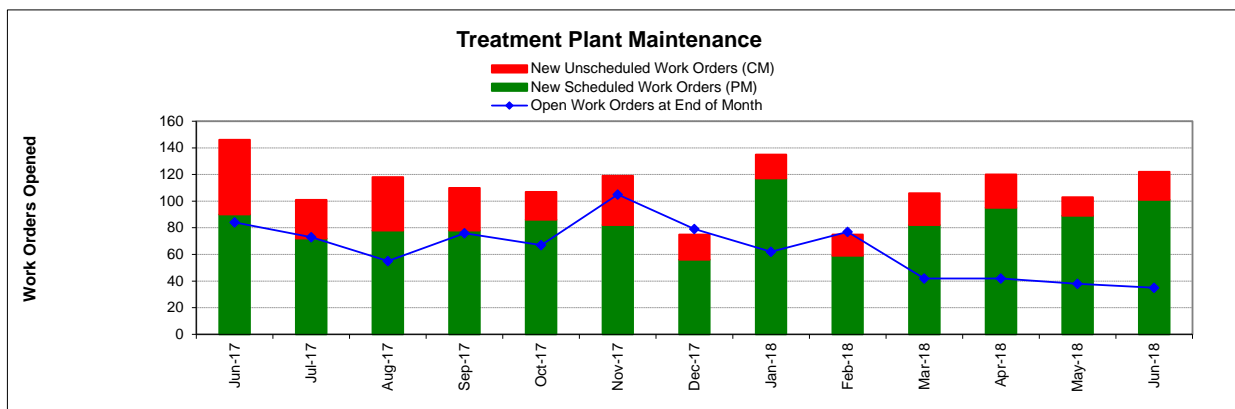
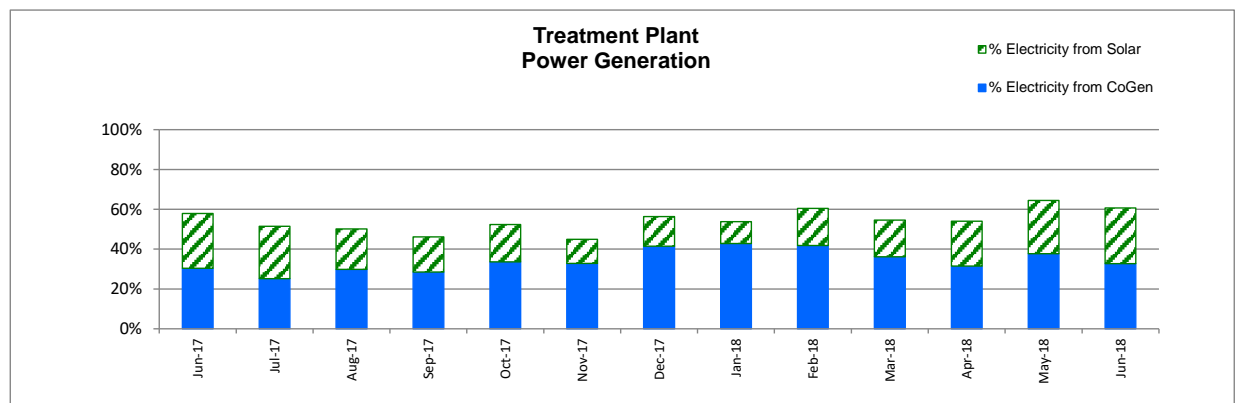
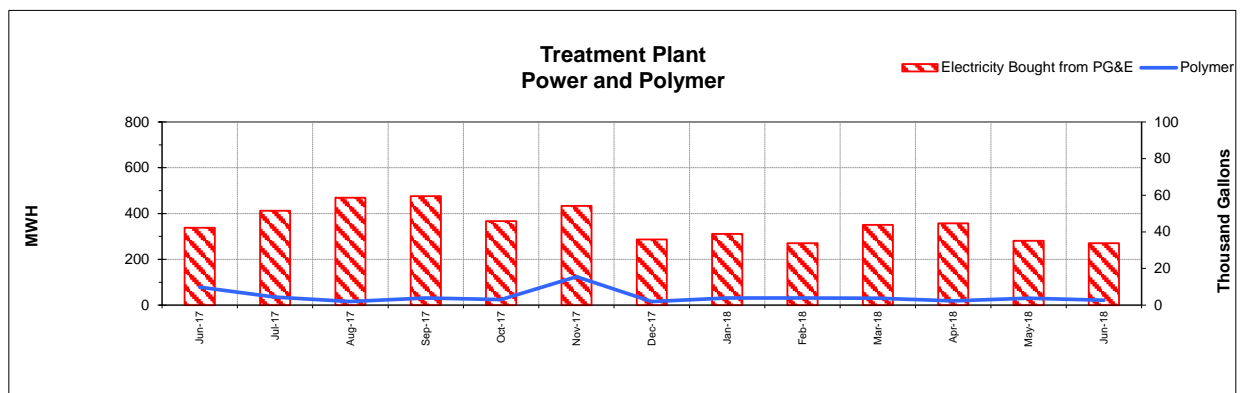
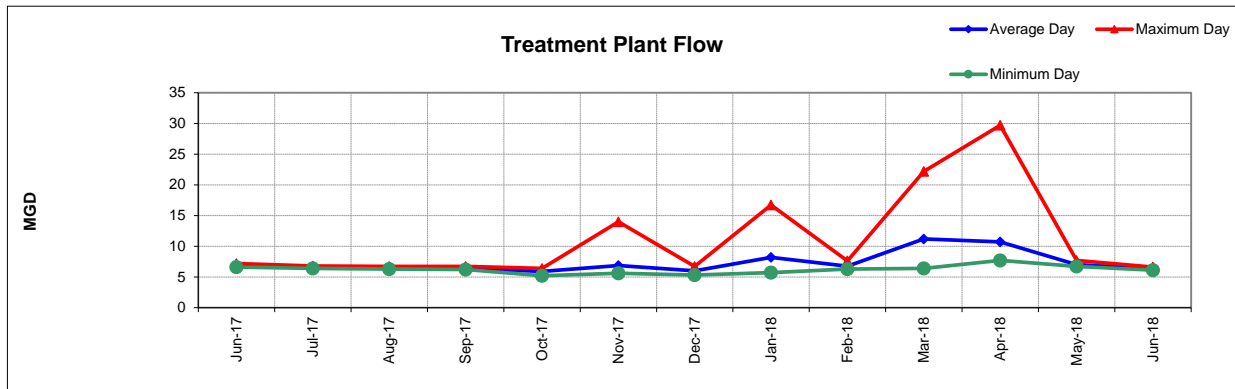
**excluding Debt Service restricted funds

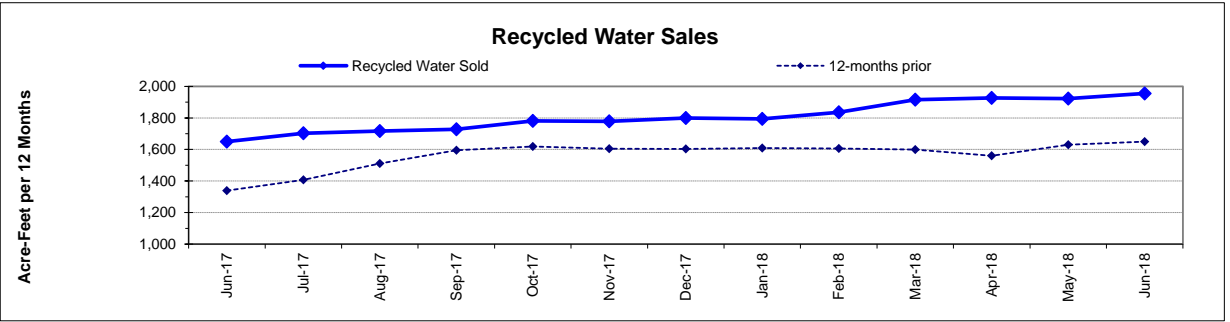
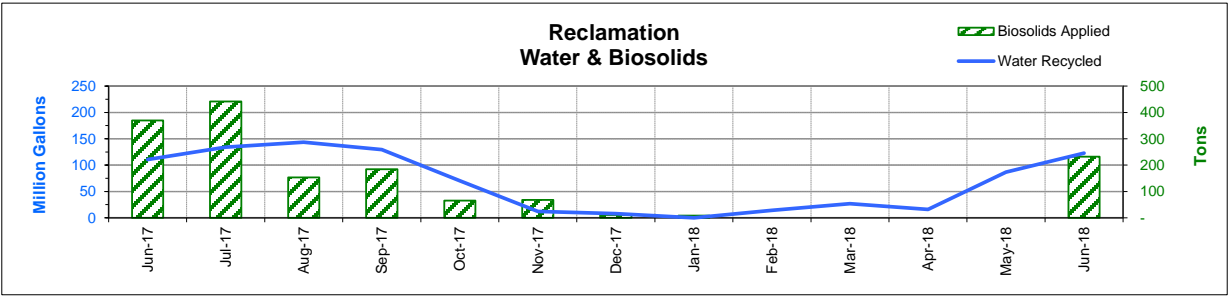
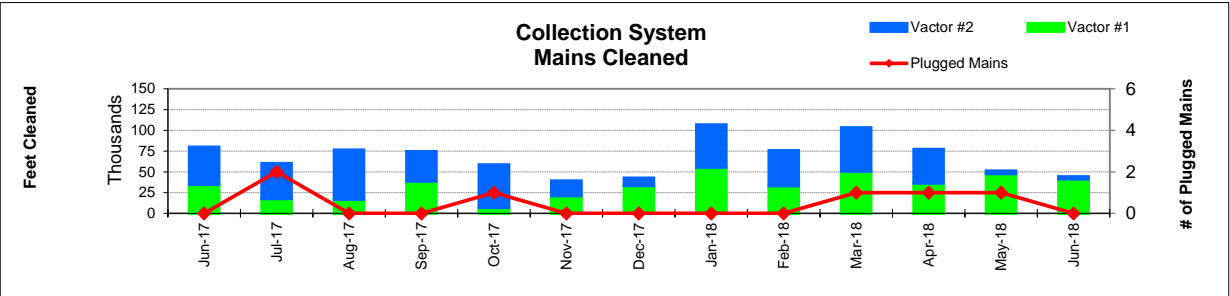
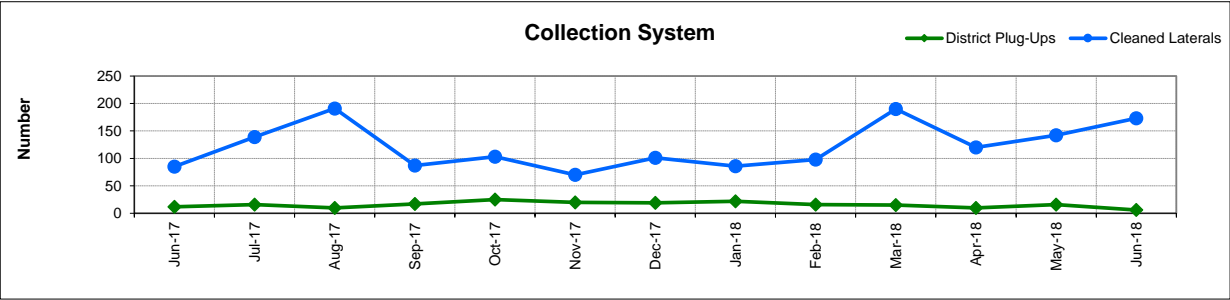
5/31/18 -Effective Rate of Return = 1.58%

Note: June rate unavailable for this report.

1. See Capital Project Status report for details
2. Somky Lease revenue has been recorded but has not been collected as of 6/30/18. (\$450K is past due.)
3. Includes reimbursement from NBWRA from FY 16-17
4. In-house Labor for Capital Projects (Contra acct for Salaries)
5. Vista Tulocay Apts and WaterMark Senior Housing added to system







FUND BALANCES - MONTHLY

CATEGORY	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
<i>(Thousand Dollars)</i>													
7800	13,463	11,450	6,645	6,560	6,395	8,372	13,220	13,251	13,210	12,818	20,290	19,326	18,538
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	13,463	11,450	6,645	6,560	6,395	8,372	13,220	13,251	13,210	12,818	20,290	19,326	18,538
Capital Improvement Projects	8,867	7,312	7,083	6,205	5,480	3,897	9,514	8,720	7,830	5,877	5,365	4,573	4,808
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	8,867	7,312	7,083	6,205	5,480	3,897	9,514	8,720	7,830	5,877	5,365	4,573	4,808
Total Discretionary Funds	22,330	18,762	13,728	12,765	11,875	12,269	22,734	21,971	21,040	18,695	25,655	23,899	23,346
Expansion Fund (Restricted)	202	-	-	-	-	-	332	449	577	775	2,898	3,007	3,075
Total Restricted Funds	202	-	-	-	-	-	332	449	577	775	2,898	3,007	3,075
TOTAL ALL FUNDS	22,532	18,762	13,728	12,765	11,875	12,269	23,066	22,420	21,617	19,470	28,553	26,906	26,421

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
<u>Phone Requests</u>													
Maps/Drawings	5	3	4	5	6	3	3	6	6	6	3	6	8
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	19	11	6	4	7	8	6	4	12	17	5	9	8
Development Questions	95	51	71	28	39	40	23	55	63	39	44	79	80
Miscellaneous	10	11	3	3	2	3	10	8	7	15	11	17	27
TOTAL	129	76	84	40	54	54	42	73	88	77	63	111	123
<u>Counter Requests</u>													
Maps/Drawings	6	2	-	1	-	-	-	1	-	-	-	1	1
Lateral Permits	18	15	6	16	4	5	7	11	9	17	12	10	12
Policy Questions	2	5	2	2	2	1	2	-	2	2	-	1	-
Development Questions	21	8	14	8	7	9	9	7	9	15	11	13	12
Miscellaneous	6	2	2	2	3	-	1	1	1	3	-	1	1
TOTAL	53	32	24	29	16	15	19	20	21	37	23	26	26
<u>Initial Request (Referrals)</u>	20	10	11	14	11	17	5	7	13	20	15	20	13
<u>Connection Permits Issued</u>													
Residential Permits	12	1	4	2	1	1	5	3	12	19	16	3	1
Commercial Permits	2	2	5	4	2	2	3	5	3	1	3	2	3
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	14	3	9	6	3	3	8	8	15	20	19	5	4
Residential Units	35	1	4	2	1	1	5	3	12	336	16	3	3
Commercial Units	7	2	6	4	2	2	3	5	3	1	102	174	
TOTAL UNITS	42	3	10	6	3	3	8	8	15	337	118	177	3
<u>Annexations</u>													
Submitted	-	-	-	-	-	-	-	-	-	-	-	-	-
Acreage	-	-	-	-	-	-	-	-	-	-	-	-	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	8	10	5	10	6	2	3	9	19	18	14	4	10
Second Submittal	4	5	7	1	1	1	4	2	5	9	6	8	3
Third Submittal	8	4	2	1	7	2	3	5	4	6	2	2	2
<u>Building/Tenant Improvements</u>													
First Submittal	17	8	19	15	9	5	10	5	16	14	7	19	18
Second Submittal	5	9	6	5	9	10	3	1	2	9	1	7	6
Third Submittal	8	6	7	3	2	7	5	2	3	3	4	2	3
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	50	42	46	35	34	27	28	24	49	59	34	42	42

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
<u>CONSTRUCTION</u>													
Locating Sewers	-	-	-	-	1	-	-	-	-	-	-	-	-
Permit Processing	1	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	2	3	2	-	-	1	1	7	7	5	5	7	2
Inspections - Mains	4	-	-	2	-	-	5	-	20	6	2	4	-
Inspections - Manholes	9	3	3	40	72	45	62	41	38	13	16	25	12
Inspections - Laterals	8	11	8	6	2	7	15	23	26	23	17	25	15
Inspections - Cleanouts	2	4	3	4	4	11	10	31	36	24	26	43	7
Inspections - Review Video	-	3	-	-	-	-	-	-	-	1	2	-	17
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	-	-	-	-	-	-	-	-	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	26	24	16	52	79	64	93	102	127	72	68	104	53
<u>MISCELLANEOUS</u>													
Meter Readings	-	-	-	-	-	-	-	11	24	-	1	13	-
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	12	-	-
General Customer Assistance	30	34	28	30	31	30	25	26	18	38	11	28	21
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	30	34	28	30	31	30	25	37	42	38	24	41	21
<u>SPECIAL PROJECTS</u>													
	22	21	23	36	24	6	1	7	0	5	6	0	9

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
<u>Outreach Activities</u>													
Plant Tours Conducted	1	2	1	9	1	2	0	3	0	1	5	5	3
Presentations Made	1	0	0	3	0	0	0	0	0	2	1	5	0
Total Outreach Activities	2	2	1	12	1	2	-	3	-	3	6	10	3
<u>Inspections Conducted</u>													
Food Service Facilities	-	-	-	-	-	-	-	6	22	64	51	10	-
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	1	-	-	-	-	-	-	-
Total Inspections	-	-	-	-	-	1	-	6	22	64	51	10	-
<u>Compliance Issues</u>													
NOVs Issued	1	-	-	1	2	-	1	-	3	2	2	1	3
NOEs Issued	-	-	1	1	1	-	1	1	3	-	1	-	1
Non-Compliant-FOG	-	-	-	-	-	-	1	-	-	-	-	-	-
Total Compliance Issues	1	-	1	2	3	-	3	1	6	2	3	1	4
<u>Pollution Prevention</u>													
Clothes Washer Rebates	21	1	1	19	-	-	-	25	14	21	-	8	21
Toilet Retrofit Rebates	7	16	6	3	-	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	368	-	-	-	59	63	-	35	-	82	66	-	74

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
MONTHLY (MG)														
Water Sold														
Golf Courses	405.0	66.261	73.994	58.595	53.035	26.903	5.504	6.253	-	6.152	2.748	3.320	52.726	68.294
Cemeteries	57.1	0.754	0.834	1.116	0.634	0.833	0.193	0.003	-	0.005	0.154	0.385	3.183	3.643
Parks	18.5	1.020	0.902	0.866	0.650	0.333	0.020	-	-	-	-	-	0.823	0.949
Schools	21.0	2.604	2.250	2.178	1.613	1.485	0.195	0.019	-	0.255	0.198	0.242	1.727	2.151
Commerical	167.6	17.491	17.468	17.399	15.227	13.665	4.387	1.402	-	1.835	1.765	3.169	9.893	12.414
Vineyards	564.0	10.709	19.143	30.814	18.019	16.506	1.766	0.225	-	5.695	21.988	8.001	6.377	21.260
Trucked Water	175.0	0.051	0.474	0.602	0.274	0.197	0.030	0.014	-	0.017	0.029	0.880	0.143	0.737
Subtotal Sales	1,408.2	98.891	115.065	111.571	89.451	59.922	12.095	7.916	-	13.960	26.881	15.996	74.872	109.448
District Use														
Jameson	330.0	-	7.298	18.483	20.751	-	-	-	-	0.077	-	-	-	-
Somky	213.0	11.738	11.488	13.426	19.372	10.364	-	-	-	-	-	-	11.710	13.263
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	11.738	18.786	31.910	40.122	10.364	-	-	-	0.077	-	-	11.710	13.263
TOTAL DELIVERED	2,001.7	110.628	133.851	143.481	129.574	70.286	12.095	7.916	-	14.037	26.881	15.996	86.582	122.711
ANNUAL (AF)														
Water Sold														
Golf Courses	405.0	1,013	1,047	1,033	1,044	1,048	1,045	1,064		1,083	1,091	1,093	1,091	1,097
Cemeteries	57.1	14	14	15	13	15	16	16		16	16	17	25	34
Parks	18.5	16	14	13	13	13	14	14		14	14	14	14	14
Schools	21.0	32	32	33	33	36	36	36		37	37	38	39	38
Commerical	167.6	301	309	309	310	322	325	328		329	333	335	318	303
Vineyards	564.0	270	281	308	310	342	336	336		353	420	423	427	460
Trucked Water	175.0	4	5	5	5	6	6	5		5	5	8	8	10
Subtotal Sales	1,408.2	1,650	1,702	1,717	1,728	1,782	1,778	1,799	-	1,835	1,916	1,928	1,923	1,955
District Use														
Jameson	330.0	158	164	183	182	143	143	143		143	143	143	143	143
Somky	213.0	268	254	230	222	223	223	223		223	223	223	240	244
Fagundes/Airport	50.5	-	-	-	-	-	-	-		-	-	-	-	-
Subtotal District	593.5	427	419	413	404	366	366	366	-	366	366	366	383	387
TOTAL DELIVERED	2,001.7	2,077	2,121	2,130	2,132	2,148	2,144	2,165	-	2,202	2,282	2,294	2,306	2,343

BIOSOLIDS HANDLING - MONTHLY

Site	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
<u>Land Applied by NSD</u>													
Somky													
Airport/Fagundes													
Jameson Canyon	370	442	153	184	65	68	11	8	-	-	-	-	232
Subtotal by NSD	370	442	153	184	65	68	11	8	-	-	-	-	232
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	370	442	153	184	65	68	11	8	-	-	-	-	232
Off Site (Contractor)													
Total (tons)	370	442	153	184	65	68	11	8	-	-	-	-	232

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
<u>Plugups</u>													
Total Calls	44	43	36	42	54	63	48	62	49	67	40	44	25
Business Hours	25	25	27	26	33	38	27	40	35	53	23	32	16
After Hours	19	18	9	16	21	25	21	22	14	16	17	12	9
District's	12	16	10	17	25	20	19	22	16	15	10	16	6
Property Owner's	32	27	26	25	29	43	29	40	33	40	30	28	19
Plugged Main Lines										1	1	1	
Run Lateral w/Eel	85	139	191	87	103	70	101	86	98	190	120	142	173
<u>Cleaning (feet of sewer)</u>													
Vactor #1	35,077	18,053	17,179	38,849	7,417	21,500	33,612	55,782	33,391	51,027	36,507	47,937	41,767
Vactor #2	44,357	41,749	58,712	35,140	50,621	17,254	8,642	50,441	41,842	51,666	40,119	2,708	2,065
Hydro							1,251						
Rodder								765					
Total (feet)	79,433	59,802	75,891	73,989	58,038	38,754	43,505	106,988	75,233	102,693	76,625	50,645	43,832
<u>Cleaning Days</u>													
Vactor #1	12	8	8	14	3	10	14	18	11	15	14	20	19
Vactor #2	16	13	23	11	18	10	5	14	13	18	13	1	1
Hydro													
Rodder								1					
Feet/day	2,850	2,850	2,450	2,950	2,750	1,950	2,300	3,250	3,150	3,100	2,850	2,400	2,200
Vactor #1	2,900	2,250	2,150	2,750	2,450	2,150	2,400	3,100	3,050	3,400	2,600	2,400	2,200
Vactor #2	2,750	3,200	2,550	3,200	2,800	1,750	1,750	3,600	3,200	2,850	3,100	2,700	2,050
Hydro													
Rodder								750					
<u>Video Inspections</u>													
Mains (feet)	24,881	15,731	15,789			10,767	6,320	17,644	12,878	21,714	2,021	26,140	18,248
Laterals (each)	205	265	246	170	184	172	186	114	122	211	179	197	223
<u>Construction (each)</u>													
Cleanouts	7	31	17	7	4	6	11	15	16	8	6	10	8
Laterals	15		9	1	1	1	1	1	4	1	10	24	10
Mains							1		1				
Manholes											1	2	
Other			2		57	79					3		
<u>USA Markings</u>													
Regular (w/in 2 days)	258	215	264	233	252	363	210	281	277	266	280	282	277
Emergency (w/in 2 hours)	6	5	3	7	33	9	13	15	3	18	31	37	16

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
FLOWES		30	31	31	30	31	30	31	31	28	31	30	31	30
Influent	MG	206.4	201.5	199.7	191.6	183.0	205.5	186.3	254.0	189.3	347.0	321.5	216.7	191.0
Average Day	MGD	6.9	6.5	6.4	6.4	5.9	6.9	6.0	8.2	6.8	11.2	10.7	7.0	6.4
Maximum Day	Date	11-Jun	4-Jul	21-Aug	18-Sep	11-Oct	17-Nov	1-Dec	10-Jan	1-Feb	23-Mar	8-Apr	1-May	4-Jun
Maximum Day Flow	MG	7.2	6.8	6.7	6.7	6.4	14.0	6.7	16.7	7.6	22.2	29.7	7.7	6.6
Minimum Day	Date	30-Jun	31-Jul	30-Aug	4-Sep	1-Oct	1-Nov	26-Dec	2-Jan	24-Feb	1-Mar	30-Apr	31-May	27-Jun
Minimum Day Flow	MG	6.6	6.4	6.3	6.2	5.2	5.6	5.3	5.7	6.3	6.4	7.7	6.7	6.1
Effluent	MG	117.1	146.3	158.0	142.9	80.0	314.7	169.1	302.3	176.2	415.7	342.1	95.8	134.0
River Discharge	MG	-	-	-	-	-	305.8	163.8	302.0	164.6	398.9	319.8	-	-
Recycled Flow	MG	123.3	134.0	158.0	142.9	73.0	8.9	5.3	0.3	14.4	23.0	20.2	95.8	134.0
BIOSOLIDS	Tons	639	521	952	703	612	731	617	713	770	836	605	719	760
Wet Tons Generated from Pond	Tons													
Wet Tons Generated from Plant	Tons	639	521	952	703	612	731	617	713	770	836	605	719	760
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
POLYMER USE	Gallons	9,760	4,352	1,987	3,927	3,051	15,506	1,939	3,839	3,931	3,764	2,365	3,816	2,636
Pond Pre-Flocculators	Gallons	-	-	-	-	-	11,711		2,460	-	-	282	-	-
Flocculator Polymer 1	Gallons													
Flocculator Polymer 2	Gallons	-	-	-	115	-	-	250	589	253	1,033	452	-	-
Filter Polymer 1	Gallons	8,984	3,739	914	3,077	2,358	830	728		3,019	1,963	1,015	2,850	1,677
Filter Polymer 2	Gallons							151	790			-	-	-
Belt Presses	Gallons	776	613	1,073	735	693	784	810	13	659	769	617	966	959
ENERGY														
Total Electricity Used	MWH	739	807	849	870	747	719	658	673	684	759	777	748	813
Purchased from PGE	MWH	338	412	469	476	367	433	287	311	270	350	357	281	270
Produced from Co-Gen	MWH	225	203	253	248	251	236	273	288	286	269	245	282	266
Percent Produced	%	30%	25%	30%	29%	34%	33%	41%	43%	42%	36%	32%	38%	33%
Purchased from Solar	MWH	203	213	172	153	140	87	98	74	128	140	175	200	227
Percent Produced		27%	26%	20%	18%	19%	12%	15%	11%	19%	18%	22%	27%	28%
Purchased Natural Gas	Therms	51	858	56	60	19	99	91	2,404	1,214	166	24	22	63
Methane Flared Off	KSCF	225	127	156	164	5	82	192	523	733	79	43	110	308
Stand By Calls	#	86	48	44	78	36	47	66	23	43	40	36	135	52
Violations	#	-	-	-	-	-	-	-	-	-	-	-	-	-

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
<u>Scheduled</u>													
Old	41	37	28	17	33	33	61	39	27	39	12	6	8
New	90	72	78	78	86	82	56	117	59	82	95	89	101
Completed	94	81	89	62	86	54	78	129	41	109	101	87	100
New Balance	37	28	17	33	33	61	39	27	39	12	6	8	9
<u>Unscheduled</u>													
Old	46	47	45	38	43	34	44	40	35	38	30	36	30
New	56	29	40	32	21	37	19	18	16	24	25	14	21
Completed	55	31	47	27	30	27	23	23	13	32	19	20	25
New Balance	47	45	38	43	34	44	40	35	38	30	36	30	26
<u>Total Work Orders</u>													
Old	87	84	73	55	76	66	105	79	62	77	42	42	38
New	146	101	118	110	107	119	75	135	75	106	120	103	122
Completed	149	112	132	89	117	81	101	152	60	141	121	107	125
New Balance	84	73	55	76	67	105	79	62	77	42	42	38	35
<u>LAB ANALYSES</u>													
<u>Sample Type</u>													
Regulatory	230	173	193	194	156	178	163	123	190	208	200	188	146
Process Control	1,107	1,024	1,104	1,091	1,137	1,220	1,139	1,071	1,080	1,103	1,103	796	871
Special Request	200	-	-	7	8	4	6	4	2	4	1	6	34
Quality Control/Assurance	574	464	549	428	420	1,110	874	692	794	741	936	489	500
TOTAL	2,111	1,661	1,846	1,720	1,721	2,512	2,182	1,890	2,066	2,056	2,240	1,479	1,551

**Summary of NSD Capital Project Status
through 06-30-18 as of 7/24/18**

Proj #	Description	FY 17-18 Budget	FY 16-17 Carryovers	Adj.	Final FY 17-18 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<u>COLLECTION SYSTEM</u>								
13701	Main Line Sewer Rehab	91,800		(40,000)	51,800	-	45,480	6,320	88%
13702	Manhole Raising/Rehab	206,000			206,000	-	170,456	35,544	83%
13703	Lateral Replacement/Rehab	74,500		40,000	114,500	-	114,160	340	100%
13704	Cleanouts Installation/Rehab	90,000			90,000	-	77,590	12,410	86%
13705	I&I Reduction Program	207,000	29,000		236,000	-	46,546	189,454	20%
14703	Browns Valley Rd & First St	9,237,000	3,004,750	(1,000,000)	11,241,750	-	238,987	11,002,763	2%
17702	Upper Lateral Rehab - Basin L (Pilot #2)	155,300		(110,000)	45,300	-	23,687	21,613	52%
17704	Infltrtn Rehab - SSMH/PL (CI-)	-	73,900		73,900	-	-	73,900	-
17705	Soscol Ave (8th to Oil Co Rd)	950,000	415,450		1,365,450	-	1,320,850	44,600	97%
17707	66-inch Trunk CCTV Inspection	-	149,350	120,000	269,350	-	236,238	33,112	88%
17708	Basin G - I&I Reduction #1	2,942,000	1,504,100		4,446,100	-	3,736,827	709,273	84%
17734	Homewood/Westwood I/I Reduction	-	60,300		60,300	-	17,537	42,763	29%
18701	I&I Smoke Testing	100,000			100,000	-	263	99,737	0%
18702	Collection System Asset Management Software	350,000			350,000	-	466	349,534	0%
18703	Upper Lateral Rehab - Pilot #4	5,000			5,000	-	33	4,968	1%
18704	Manhole Rehab - Nipak - Basin H	284,600		(75,000)	209,600	-	182,831	26,769	87%
18705	Sewer System Inflow/Infiltration 2018	1,650,000		834,000	2,484,000	1,940,000	175,572	368,428	7%
18706	Sewer System Inflow/Infiltration 2019	20,000			20,000	-	6,108	13,892	31%
	<u>COLLECTION SYSTEM - EQUIPMENT</u>								
18707	Locatable Mini-Camera #2 Replacement	11,100			11,100	-	8,836	2,265	80%
18708	Manhole - Smart Covers (4)	25,000			25,000	-	2,398	22,602	10%
18709	Vehicle 504 - TV Truck	270,000		(80,000)	190,000	-	187,154	2,846	99%
18735	Permaliner Picote	-		20,000	20,000	-	15,476	4,524	77%
18738	Combination Truck Veh #529B	-		575,000	575,000	-	559,639	15,361	97%
	<u>LIFT STATIONS</u>								
17711	West Napa PS - Rehab	-	1,746,365		1,746,365	783,281	180,357	782,726	10%
	<u>TREATMENT</u>								
13745	Pond 1 Dredge	400,000			400,000	-	13,959	386,041	3%
16708	Algae to Digester/Thermal Stdy	-	46,800		46,800	-	698	46,102	1%
	<u>TREATMENT - EQUIPMENT</u>								

**Summary of NSD Capital Project Status
through 06-30-18 as of 7/24/18**

Proj #	Description	FY 17-18 Budget	FY 16-17 Carryovers	Adj.	Final FY 17-18 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
13735	Dual Fuel Boiler Burner	155,300			155,300	-	-	155,300	-
13741	Secondary PS Pump Rebuild (3)	38,800			38,800	-	31,797	7,003	82%
13743	Risidual Analyzers (Deox) Replacements	5,000	3,500	40,000	48,500	-	43,925	4,575	91%
15711	Rotork Actuator Replacement	-	7,600		7,600	-	-	7,600	-
15713	Aeration Basin Instrmntn/Ctrl	-	10,000		10,000	-	3,280	6,720	33%
16714	High Voltage System Repairs	-	66,500	(66,500)	-	-	-	-	-
17713	Secondary PS VFD Rplcmnt (3)	55,400	51,150	(106,550)	-	-	-	-	-
17714	WWTP MP - 3W Sys Imprvmnts	440,000	36,100	(476,100)	-	-	-	-	-
17715	Turbidimeters (7) Tertiary Rplcmnts	20,000	15,400		35,400	-	19,405	15,995	55%
17718	Energy Audit - LED Pole/Arm Mounted Fixtures	-	44,750	(40,000)	4,750	4,297	267	186	6%
17725	Main - Sump #3 Modification	-	10,000		10,000	-	4,164	5,836	42%
18710	3W Pipeline - Soscol PS to Plant - Rehab	33,300			33,300	-	-	33,300	-
18711	3W Strainer	83,200			83,200	-	30,479	52,721	37%
18712	3W VFD	62,100		(62,100)	-	-	-	-	-
18713	Primary Influent Pipe - East Gallery	250,000		(250,000)	-	-	-	-	-
18714	Distillation System	6,000			6,000	-	-	6,000	-
18715	Muffle Furnace - Replacement	15,000		(10,000)	5,000	-	-	5,000	-
18716	Rotork Actuator Replacement	91,800			91,800	-	24,616	67,184	27%
18717	Septage Card Reader Replacement	21,400			21,400	-	7,565	13,835	35%
18718	Secondary Clarifier Mech/Struct Rehabilitation	50,000			50,000	-	50,000	-	100%
18719	Filter Flow Control - Rotork Valves	46,600			46,600	-	-	46,600	-
18720	Neuros Blowers Rebuild	62,100			62,100	-	-	62,100	-
18721	CCB #3 Effluent Gate	5,000		(5,000)	-	-	-	-	-
18722	FOG Station Water Heater	5,000			5,000	-	-	5,000	-
18723	Pond 4 PS - Repair Leak	24,000		(24,000)	-	-	-	-	-
18724	Filter 1-4 Air Valve	10,000		(10,000)	-	-	-	-	-
18725	Belt Press Hydraulic Actuator Replace	20,000			20,000	-	-	20,000	-
18734	Boat Motor Vehicle 302	-		10,000	10,000	-	7,407	2,593	74%
18739	Pond 1 Transformer Repair	-		25,000	25,000	-	16,463	8,537	66%
18740	Chemical Storage Building Piping Replacement	-		25,000	25,000	-	-	25,000	-
	TREATMENT - STRUCTURES								
17726	Headworks Equipment Rehab/Replacment	250,000	42,100		292,100	-	282,848	9,252	97%
18726	Building HVAC and Lab Ventilation	500,000		(500,000)	-	-	-	-	-
18727	Earthquake - Structural Repair	300,000		350,000	650,000	-	580,603	69,397	89%

**Summary of NSD Capital Project Status
through 06-30-18 as of 7/24/18**

Proj #	Description	FY 17-18 Budget	FY 16-17 Carryovers	Adj.	Final FY 17-18 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
18728	Roof Rplcmnt - Solids Handling/Digester Tower	232,900		(65,000)	167,900	-	166,935	965	99%
18736	Treatment Plant Project 2018	-		1,500,250	1,500,250	948,749	397,860	153,642	27%
18737	Flash Mixer Replacement	-		45,000	45,000	-	36,478	8,522	81%
	SCADA								
18729	SCADA MP Project #1 - Network Monitoring	50,000			50,000	-	1,333	48,668	3%
	RECYCLING - DISTRICT								
16716	Line Recycled Water Reservoir	1,800,000	169,550	650,000	2,619,550	-	2,204,485	415,065	84%
18730	Jameson 24" Flow Meter Rehab	6,200			6,200	-	-	6,200	-
18731	Coombsville Truck Fill Station	100,000			100,000	-	34,952	65,048	35%
	RECYCLING - EXPANSION								
13727	North Bay Wate Reuse Project	150,000			150,000	-	80,485	69,515	54%
14726	MST RW Pipeline Construction	-	5,000		5,000	-	2,573	2,427	51%
16722	MST RW Pipeline Extension	2,800,000	(158,465)		2,641,535	-	2,111,621	529,914	80%
	OTHER								
13729	Development Technical Support	239,900		120,000	359,900	-	341,426	18,474	95%
18732	Box Culvert - Fugundes Emergency Access	5,000			5,000	-	4,718	282	94%
18733	GPS Handheld	15,000			15,000	-	7,958	7,042	53%
GRAND TOTAL ALL PROJECTS		\$25,018,300	\$7,333,200	\$1,434,000	\$33,785,500	\$3,676,327	\$13,855,791	\$16,253,385	41%