



Napa Sanitation District

General Manager's Report

for

June, 2019

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NAPA SANITATION DISTRICT

General Manager's Report

DATE: August 7, 2019

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for June 2019

REGULATORY COMPLIANCE:

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

FISCAL STATUS:

Period Covered:	July 1, 2018 – June 30, 2019
Percent Fiscal Year:	100.0%
Operating Expenditures to date:	87.2%
Historical Expenditures to date:	92.5%
Significant Comments:	The "Operating Expenditures to date" does not include all expenses for supplies and services that were incurred on or before June 30 th . There may be some invoices for FY 2018/19 that will need to be accrued. Adjusting entries will also be posted for the year-end process for FY 2018/19. An amended Budget Status report for June will be provided after the completion of the annual audit scheduled for the middle of September 2019.

PERSONNEL:

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

New Hires:	None
Separations:	None
Promotions:	None
Recruitment Activities:	Offer letter to Operator candidate
Injuries:	None

Summaries of Operational Highlights are on following pages.

COLLECTIONS:

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

- The District had 0 Category 1 Sanitary Sewer Overflows (SSO's), 0 Category 2 SSO's and 2 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 8 cleanouts and repaired 2 cleanouts. They also repaired 6 laterals, lined 11 laterals and replaced 1 lateral. Additionally, the service response/programs crew completed 72 work orders in support of the grease and odor control program, responded to 44 customer requests for service (7 were NSD problem) and closed out 316 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 94 laterals, cleaned approximately 65,725 feet of main line and CCTV inspected 43 laterals. In addition, the CCTV truck televised 23,913 feet of mainline.

TREATMENT PLANT:

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

Plant Operations:

- For June 2019, the plant's influent flow was 213.6 MG as compared to last year flow for June 2018 of 191.0 MG
- No river discharge occurred during June.
- There was 0.0" rainfall for June 2019 (Carneros Rainfall Center) as compared to 0.04" rainfall for June 2018.
- Pond 4 end of the month recorded level reading was 64.06". During June Pond 2 to Pond 3 transfer structures were under construction.

Power Consumption and Production:

- June power purchased from PG&E was 346 MWH in comparison to May 2019 purchase of 317 MWH.
- Cogeneration unit ran 710 of 720 hours for the month – 98.61% uptime, averaging 356.88 Kw, producing 253 MWH of energy.
- Solar generation in June was 211 MWH, compared to 178 MWH in May.

Maintenance:

Significant events for the month of June 2019:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Annual Source test of Cogeneration unit by BAAQMD/in compliance
- Cogen Service:
- Changed oil & sock filters
- Replaced pre-air filter and main air filter
- Replaced Flare Blower Motor
- Boiler main loop over pressure valve rebuilt
- Replaced Load-out Station meter #1 discharge pipe
- Lab dishwasher/replaced Steam Condenser solenoid valve
- Recycle Pumps/replaced pressure gauges
- Replaced 3 water piping to AB #4 sprayer system
- Elevator's Annual Certification/State of California

Projects

- West Napa Pump Station/rebuild wet end of pump #2
- Replaced 8 Air Release Valves/MST Booster Pump Station
- Install temporary chemical delivery system/integrate into

Standby Power

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

Influent Pumps

- All pumps operational

Laboratory:

Significant events for the month of June 2019:

- Effluent (EFF-001) Summary
There was no EFF-001 discharge during the month.
- Influent (INF-001) Summary
Monthly Influent monitoring of all parameters occurred at the required frequencies. The following were notable sampling events:
June 5, 2019: Metals, Mercury, Cyanide

RECYCLING:

Significant events in the Recycling Department for June 2019 include:

- Recycled water delivered for the month of June 2019 was (99.920 million gallons), as compared to June 2018 (122.711 million gallons) is lower from the previous year due to

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

- Staff continued land application of bio solids on the Somky Ranch.

POLLUTION PREVENTION:

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

- There were 6 tours of the treatment plant given in June. One tour was given as part of the Baywork Teacher Externship Program that was held June 17th to the 21st at NapaSan and the City of Napa's Jamieson Water Plant. Three tours were given to students in Napa County Office of Education's COOL Schools Program. NapaSan staff also conducted two tours for members of Napa Valley CanDo.
- One presentation was given in June at Silverado Middle School for students who were going to visit the plant later that week for a tour. Multiple days of presentations were given by each NapaSan department during the Baywork Teacher Externship event.
- NapaSan staff planned and facilitated the Baywork Teacher Externship Program mentioned above. The event was held in partnership with Baywork and the City of Napa Water Division. Eight Napa County middle and high school teachers attended the week-long event to learn about careers in the water and wastewater industries for their students. The teachers were also guided through curriculum building sessions and created lesson plans that were presented to staff at the end of the externship.
- In June 73 pounds of medication were disposed of through the takeback program at Family Drug. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 21,865.2 pounds.
- There were 2 ESME Washer Rebates issued this month for a total of \$100.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

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

- Consultant continued work on the SCADA Master Plan.
- Contractor continued construction of the Headworks Equipment Replacement Project.
- Contractor continued construction of the Southeast Napa Sewer and Roadway Rehabilitation Project.
- Staff continued design of the 2020 Collection System Rehabilitation Project.
- Consultant continued design of the 66-inch Trunk Sewer Rehabilitation Project.
- Staff continued design of the 2019 Manhole Rehabilitation Project.
- Staff began design of the Upper Lateral Pilot Project #4.
- Staff began design of the 2019 Sanitary Sewer Manhole Adjustment Project.

- Consultant continued design of the Primary Clarifier Rehabilitation Project.
- Consultant continued design of the West Napa Pump Station Project.
- Contractor completed construction of the 2018 Treatment Plant Improvement Project.
- Contractor continued construction of the 2019 Treatment Plant Improvements Project.
- Contractor continued construction of the Pond Transfer Structure Project.
- Consultant continued working on the Collection System Master Plan.
- Contractor continued construction of the MST Truck Fill Station Project.
- Staff reviewed 39 sets of development plans and deemed 13 sets of plans complete. The approved plans consisted of 1 commercial building, 3 tenant improvements, 5 residential dwellings, 1 commercial lateral, 2 residential laterals, and 1 recycled water lateral.

Budget Status & Cash Summary - July 1, 2018 - June 30, 2019 (100.0% of the year) as of July 30, 2019

<i>Expenditures</i>	FY 18/19 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
Operating						
Salaries & Benefits	\$9,961,350	\$0	\$9,545,987	\$9,545,987	\$415,363	95.8%
Services & Supplies	6,148,650	-	5,006,539	5,006,539	1,142,110	81.4%
Taxes	40,750	-	40,691	40,691	59	99.9%
Debt Service	4,594,500	-	4,594,367	4,594,367	133 (1)	100.0%
Intrafund Transfers	8,900,000	-	6,675,000	6,675,000	2,225,000	75.0%
Total Operating:	\$29,645,250	\$0	\$25,862,584	\$25,862,584	\$3,782,666 (2)	87.2%
Capital						
Bldgs/Improvements & Equip	\$32,410,100	\$0	\$15,763,095	\$15,763,095	\$16,647,005 (3)	48.6%
Intrafund Transfers	7,250,000	-	5,160,143	5,160,143	2,089,857	71.2%
Total Capital :	\$39,660,100	\$0	\$20,923,238	\$20,923,238	\$18,736,862	52.8%
Grand Total Expenditures:	\$69,305,350	\$0	\$46,785,821	\$46,785,821	\$22,519,528	67.5%

<i>Revenues</i>	FY 18/19 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
Operating						
Use of Money/Property	\$1,036,000		\$1,214,325	\$1,214,325	(\$178,325)	117.2%
Charges for Services	29,571,800		28,934,515	28,934,515	637,285	97.8%
Miscellaneous Revenues	63,000		74,475	74,475	(11,475)	118.2%
Donations/Contributions (Capital Labor)	-		853,009	853,009	(853,009) (4)	N/A
Total Operating:	\$30,670,800		\$31,076,324	\$31,076,324	(\$405,524)	101.3%
Capital						
Use of Money/Property	\$0		\$900	\$900	(\$900)	N/A
Capacity Charges	4,614,600		2,098,830	2,098,830	2,515,770 (5)	45.5%
Intergovernmental	375,000		485,108	485,108	(110,108)	129.4%
Bond/Loan Proceeds	9,075,000		-	-	9,075,000 (6)	0.0%
Sale of Assets	25,000		108,878	108,878	(83,878)	N/A
Miscellaneous Revenues	5,000		-	-	5,000	N/A
Intrafund Transfers	16,150,000		11,835,558	11,835,558	4,314,442	73.3%
Total Capital:	\$30,244,600		\$14,529,274	\$14,529,274	\$15,715,326	48.0%
Grand Total Revenue:	\$60,915,400		\$45,605,598	\$45,605,598	\$15,309,802	74.9%

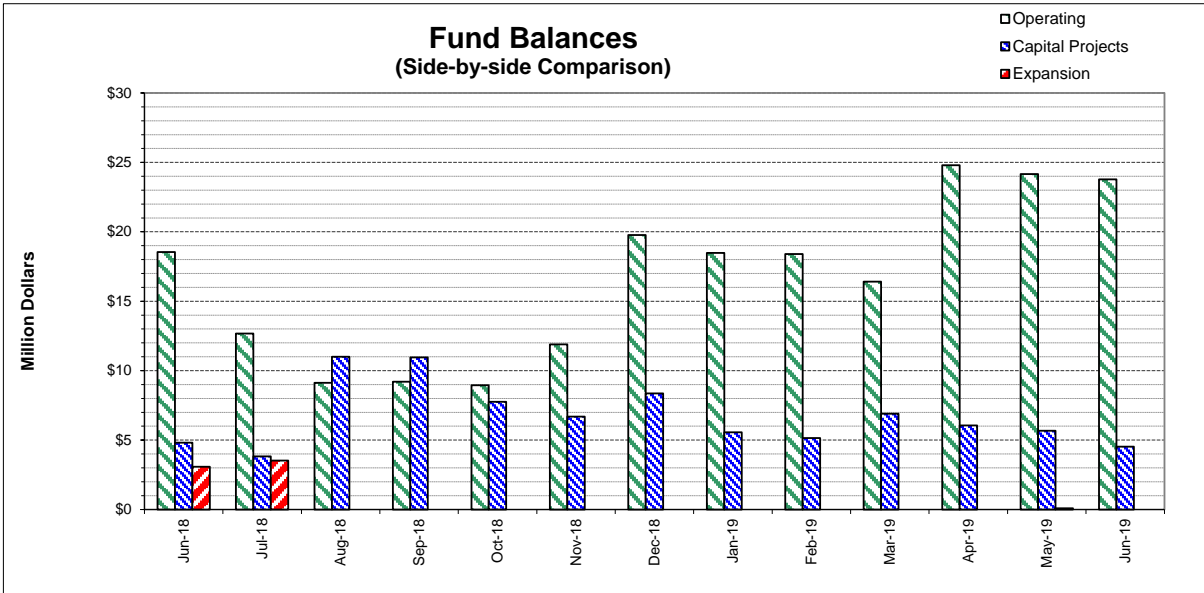
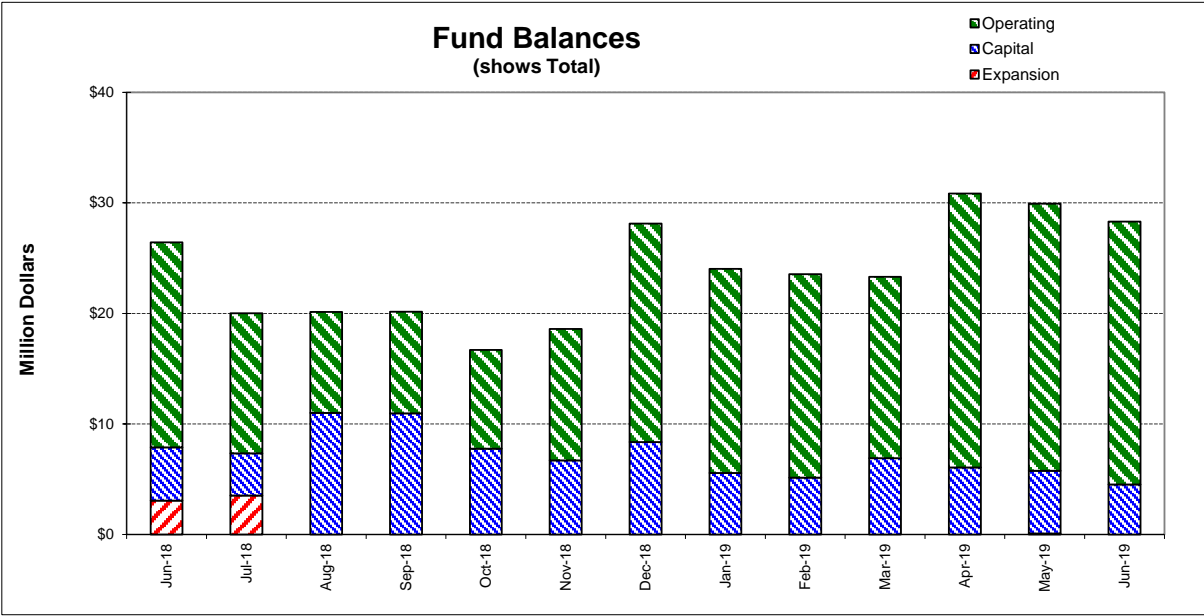
Cash on Hand as of 6/30/19

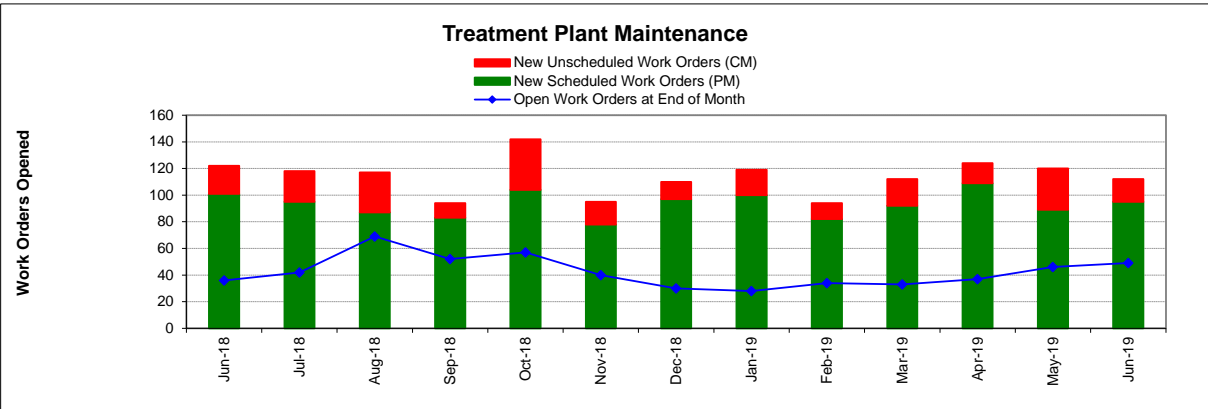
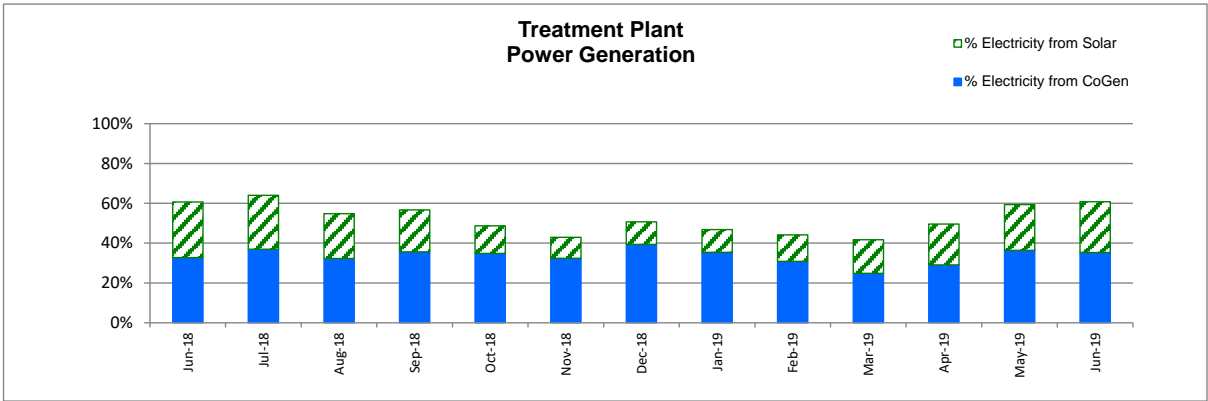
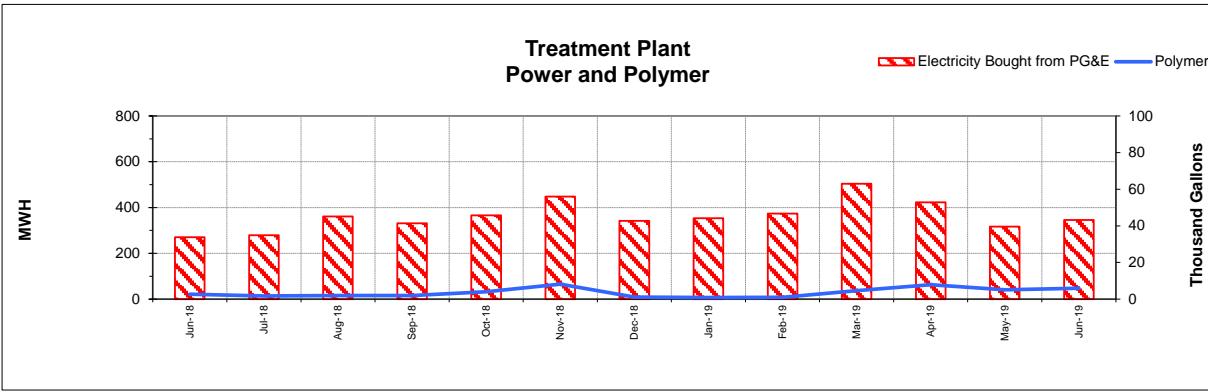
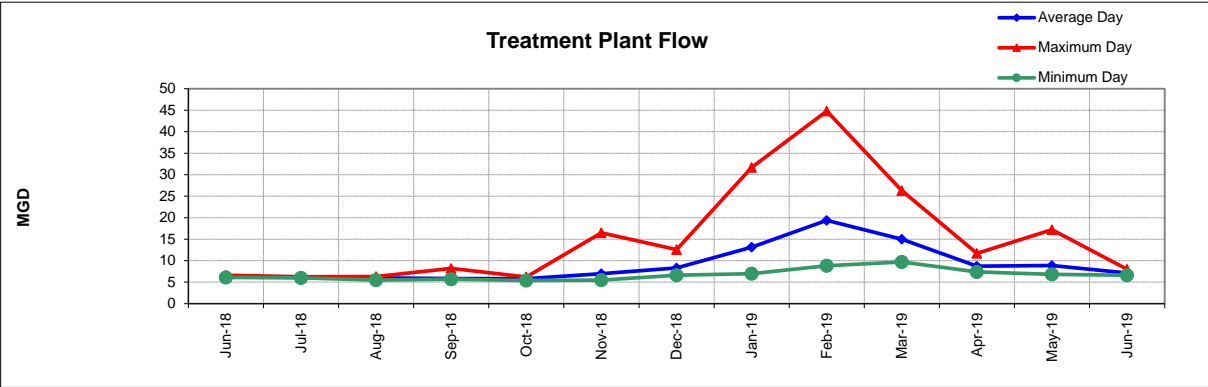
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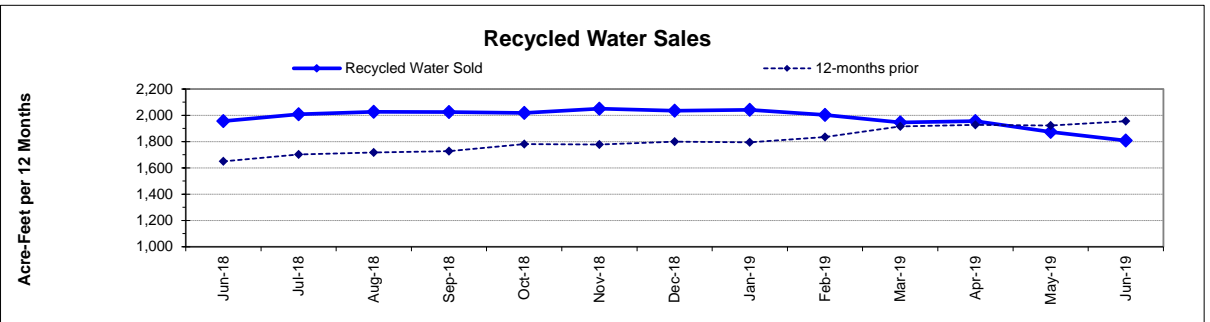
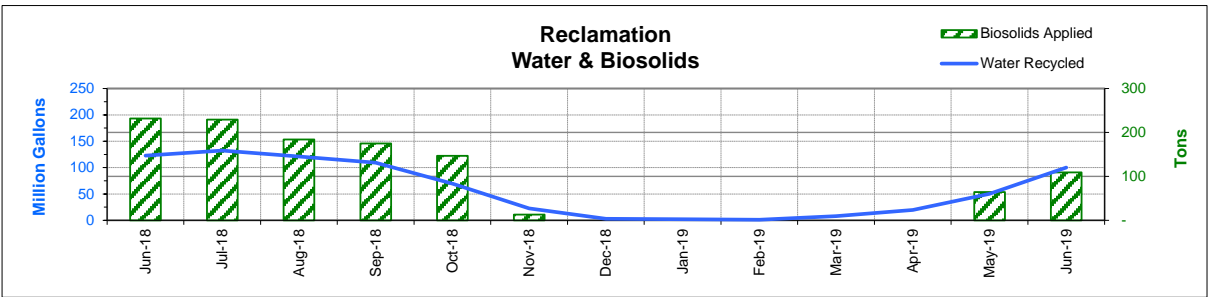
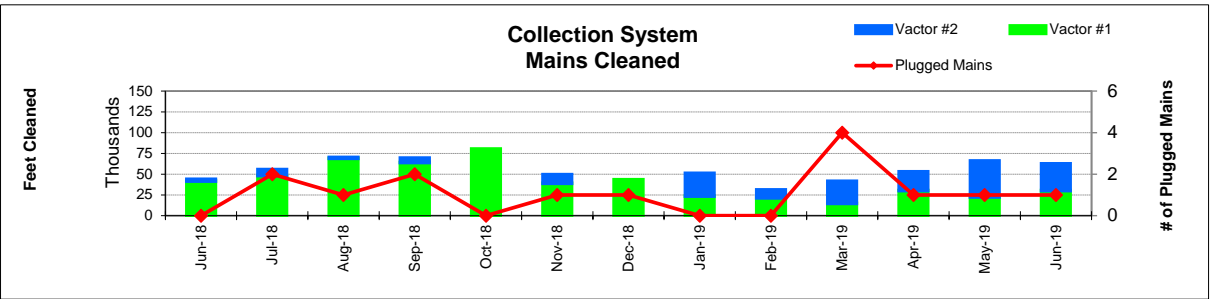
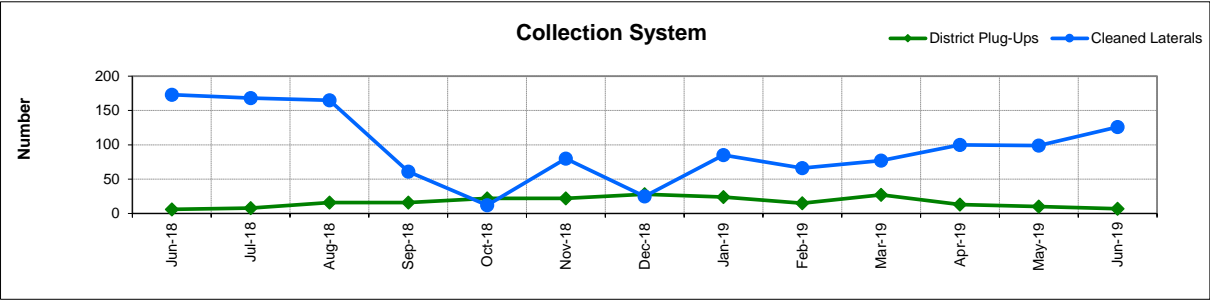
**excluding Debt Service restricted funds

6/30/19 -Effective Rate of Return = 2.14%

1. Series 2012A's and 2017's principal/interest payments are made in Aug & Feb
2. Includes Debt Service and Intrafund Transfers; otherwise is 90.4%
3. See Capital Project Status report for details
4. In-house Labor for Capital Projects (Contra acct for Salaries)
5. Anticipated new developments were delayed
6. Waiting for approval of funds from State







FUND BALANCES - MONTHLY

CATEGORY	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
<i>(Thousand Dollars)</i>													
7800	18,538	12,676	9,123	9,204	8,951	11,888	19,772	18,473	18,394	16,405	24,793	24,164	23,784
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	18,538	12,676	9,123	9,204	8,951	11,888	19,772	18,473	18,394	16,405	24,793	24,164	23,784
Capital Improvement Projects	4,808	3,825	11,009	10,956	7,755	6,698	8,363	5,567	5153	6,899	6,058	5,671	4,525
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	4,808	3,825	11,009	10,956	7,755	6,698	8,363	5,567	5,153	6,899	6,058	5,671	4,525
Total Discretionary Funds	23,346	16,501	20,132	20,160	16,706	18,586	28,135	24,040	23,547	23,304	30,851	29,835	28,309
Expansion Fund (Restricted)	3,075	3,520	-	-	-	-	-	-	-	-	-	93	-
Total Restricted Funds	3,075	3,520	-	-	-	-	-	-	-	-	-	93	-
TOTAL ALL FUNDS	26,421	20,021	20,132	20,160	16,706	18,586	28,135	24,040	23,547	23,304	30,851	29,928	28,309

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
<u>Phone Requests</u>													
Maps/Drawings	8	4	2	2	3	1	2	6	2	4	0	17	8
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	8	9	10	4	6	3	6	8	7	5	5	10	6
Development Questions	80	61	63	28	70	41	44	40	35	48	53	79	64
Miscellaneous	27	37	24	26	20	18	25	27	18	25	29	29	18
TOTAL	123	111	99	60	99	63	77	81	62	82	87	135	96
<u>Counter Requests</u>													
Maps/Drawings	1	-	3	-	1	-	1	-	-	-	1	0	0
Lateral Permits	12	9	9	3	9	5	10	12	8	11	7	11	7
Policy Questions	-	2	3	-	2	-	1	-	-	3	4	0	0
Development Questions	12	12	9	5	6	6	5	10	9	13	10	7	10
Miscellaneous	1	2	2	2	0	-	1	1	-	-	0	2	0
TOTAL	26	25	26	10	18	11	18	23	17	27	22	20	17
<u>Initial Request (Referrals)</u>	13	13	17	16	21	20	15	18	14	16	24	20	9
<u>Connection Permits Issued</u>													
Residential Permits	3	5	16	9	1	1	2	-	4	5	2	6	3
Commercial Permits	3	5	5	1	-	2	-	1	-	1	2	3	1
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	6	10	21	10	1	3	2	1	4	6	4	9	4
Residential Units	3	5	16	18	1	1	2	-	4	36	2	6	3
Commercial Units	3	5	8	1	-	2	-	1	-	1	2	3	1
TOTAL UNITS	6	10	24	19	1	3	2	1	4	37	4	9	4
<u>Annexations</u>													
Submitted	-	1	1	1	-	1	-	1	-	-	-	1	-
Acreage	-	0.60	11.60	5.79	-	158.20	-	4.90	-	-	-	0.50	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	10	10	18	9	10	10	9	2	5	6	5	14	8
Second Submittal	3	5	8	4	5	2	5	7	5	6	3	8	6
Third Submittal	2	3	3	4	2	1	1	1	5	3	4	10	5
<u>Building/Tenant Improvements</u>													
First Submittal	18	10	8	8	11	8	11	5	8	7	15	3	9
Second Submittal	6	8	6	1	5	6	-	4	2	5	2	3	4
Third Submittal	3	5	4	3	1	3	1	1	2	3	7	-	7
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	42	41	47	29	34	30	27	20	27	30	36	38	39

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
<u>CONSTRUCTION</u>													
Locating Sewers	-	-	1	-	-	1	2	4	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	2	3	1	3	-	1	3	-	-	3	5	7	2
Inspections - Mains	-	2	6	11	1	-	1	-	1	1	-	-	1
Inspections - Manholes	12	-	6	76	76	21	30	49	75	19	18	6	7
Inspections - Laterals	15	7	13	3	8	3	28	18	23	31	21	8	27
Inspections - Cleanouts	7	3	2	2	6	8	37	31	39	39	46	43	24
Inspections - Review Video	17	1	-	2	-	1	2	-	2	2	1	1	1
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	1	-	-	-	-	-	-	2	-	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	53	17	29	97	91	35	103	102	142	95	91	65	62
<u>MISCELLANEOUS</u>													
Meter Readings	-	-	-	-	-	1	10	26	4	-	4	14	-
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	21	40	27	31	50	25	30	34	41	13	20	16	-
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	21	40	27	31	50	26	40	60	45	13	24	30	-
<u>SPECIAL PROJECTS</u>													
	9	21	23	35	36	19	0	7	7	21	20	21	40

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
<u>Outreach Activities</u>													
Plant Tours Conducted	3	1	3	6	4	1	1	2	6	1	10	1	6
Presentations Made	0	1	0	2	10	0	0	1	0	2	3	1	2
Total Outreach Activities	3	2	3	8	14	1	1	3	6	3	13	2	8
<u>Inspections Conducted</u>													
Food Service Facilities	-	-	-	-	-	-	1	22	41	26	47	21	-
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	1	-	-	-	-	-	-	-
Total Inspections	-	-	-	-	-	1	1	22	41	26	47	21	-
<u>Compliance Issues</u>													
NOVs Issued	3	-	3	1	2	1	-	1	1	1	1	2	1
NOEs Issued	1	-	1	-	1	1	-	-	1	-	-	-	-
Non-Compliant-FOG	-	-	-	-	-	-	-	1	-	-	-	-	-
Total Compliance Issues	4	-	4	1	3	2	-	2	2	1	1	2	1
<u>Pollution Prevention</u>													
Clothes Washer Rebates	21	-	-	-	-	29	23	6	8	-	19	-	2
Toilet Retrofit Rebates	-	-	-	-	-	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	74	90	65	61	68	56	-	124	-	102	-	45	73

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
MONTHLY (MG)														
Water Sold														
Golf Courses	405.0	68.294	64.047	57.269	44.197	23.612	3.322	0.008	0.002	-	0.014	9.555	25.976	58.629
Cemeteries	57.1	3.643	4.903	4.920	4.142	3.239	2.872	0.690	0.380	-	0.273	1.494	3.671	3.658
Parks	18.5	0.949	1.051	0.846	0.527	0.050	0.611	-	0.002	-	-	0.020	0.263	0.843
Schools	21.0	2.151	2.122	2.044	1.571	1.231	0.745	0.060	0.098	0.043	0.041	0.251	0.988	1.655
Commerical	167.6	12.414	15.863	19.184	16.950	19.637	7.652	1.891	1.379	0.557	0.648	4.974	10.516	12.142
Vineyards	564.0	21.260	43.468	32.727	21.248	9.649	7.015	0.239	0.380	0.513	7.149	3.250	6.107	10.475
Trucked Water	175.0	0.737	0.666	0.637	0.399	0.289	0.403	0.033	0.007	0.020	0.017	0.110	0.421	0.533
Subtotal Sales	1,408.2	109.448	132.120	117.628	89.035	57.707	22.620	2.921	2.248	1.133	8.142	19.654	47.943	87.935
District Use														
Jameson	330.0	-	-	0.163	4.785	-	-	-	-	-	-	-	-	-
Somky	213.0	13.263	0.208	3.226	15.447	12.002	0.008	-	-	-	-	-	2.504	11.985
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	13.263	0.208	3.389	20.232	12.002	0.008	-	-	-	-	-	2.504	11.985
TOTAL DELIVERED	2,001.7	122.711	132.327	121.016	109.266	69.709	22.628	2.921	2.248	1.133	8.142	19.654	50.447	99.920
ANNUAL (AF)														
Water Sold														
Golf Courses	405.0	1,097	1,067	1,063	1,035	1,025	1,019	1,000	1,000	981	972	991	909	880
Cemeteries	57.1	34	46	58	69	76	84	86	88	88	88	91	93	93
Parks	18.5	14	14	14	14	13	15	15	15	15	15	15	13	13
Schools	21.0	38	37	37	37	36	38	38	38	38	37	37	35	33
Commerical	167.6	303	298	303	309	327	337	338	343	339	335	341	343	342
Vineyards	564.0	460	534	540	550	529	545	545	546	531	485	470	470	436
Trucked Water	175.0	10	11	11	12	12	13	13	13	13	13	11	11	11
Subtotal Sales	1,408.2	1,955	2,008	2,026	2,025	2,018	2,051	2,035	2,042	2,003	1,945	1,956	1,874	1,808
District Use														
Jameson	330.0	143	121	64	15	15	15	15	15	15	15	15	15	15
Somky	213.0	244	210	178	166	171	171	171	171	171	171	171	143	139
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	387	330	243	182	187	187	187	187	187	187	187	158	154
TOTAL DELIVERED	2,001.7	2,343	2,338	2,269	2,207	2,205	2,237	2,222	2,229	2,189	2,132	2,143	2,032	1,962

BIOSOLIDS HANDLING - MONTHLY

Site	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
<u>Land Applied by NSD</u>													
Somky				175									
Airport/Fagundes													
Jameson Canyon	232	229	184		147	13	-	-	-	-	-	-	-
Subtotal by NSD	232	229	184	175	147	13	-	-	-	-	-	-	-
<u>Land Applied by Contractor</u>													
Somky												65	109
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	65	109
Total Land Applied	232	229	184	175	147	13	-	-	-	-	-	65	109
Off Site (Contractor)													
Total (tons)	232	229	184	175	147	13	-	-	-	-	-	65	109

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
<u>Plugups</u>													
Total Calls	25	37	39	53	57	64	77	70	43	46	43	46	40
Business Hours	16	24	28	32	36	34	44	47	39	21	23	28	31
After Hours	9	9	11	21	21	30	33	23	4	25	20	18	9
District's	6	8	16	16	22	22	28	24	15	27	13	10	7
Property Owner's	19	29	23	36	35	41	49	46	28	20	30	35	32
Plugged Main Lines		2	1	2	-	1	1	-	-	4	1	1	1
Run Lateral w/Eel	173	168	165	61	12	80	25	85	66	77	100	99	126
<u>Cleaning (feet of sewer)</u>													
Vactor #1	41,767	48,278	69,132	63,968	80,207	38,882	43,194	23,544	21,454	14,808	30,224	22,498	30,232
Vactor #2	2,065	7,290	1,072	5,367	-	10,373	-	27,335	9,420	26,687	22,691	43,466	32,180
Hydro													
Rodder													
Total (feet)	43,832	55,568	70,204	69,335	80,207	49,254	43,194	50,879	30,875	41,495	52,916	65,964	62,412
Cleaning Days	20	19	22	22	22	20	19	20	16	21	21	29	27
Vactor #1	19	16	21	19	22	17	19	13	10	6	13	10	12
Vactor #2	1	3	1	3	-	3		7	6	15	8	19	15
Hydro													
Rodder													
Feet/day	2,200	2,900	3,200	3,150	3,650	2,450	2,250	2,550	1,950	2,000	2,500	2,250	2,300
Vactor #1	2,200	3,000	3,300	3,350	3,650	2,300	2,250	1,800	2,150	2,450	2,300	2,250	2,500
Vactor #2	2,050	2,450	1,050	1,800		3,450		3,900	1,550	1,800	2,850	2,300	2,150
Hydro													
Rodder													
<u>Video Inspections</u>													
Mains (feet)	18,248	18,188	27,761	18,443	31,889	17,526	12,509	14,335	5,812	13,050	15,089	24,716	23,914
Laterals (each)	223	266	234	232	297	201	138	175	133	144	204	173	177
<u>Construction (each)</u>													
Cleanouts	8	27	25	6	5	50	1	18	3	17	15	12	24
Laterals	10	9	8	8	4	4	15	6	3	3	4	13	12
Mains					1		-	-		1			
Manholes			2	1	1		-	-		1			
Other													
<u>USA Markings</u>													
Regular (w/in 2 days)	277	397	296	286	378	159	159	171	224	338	327	338	292
Emergency (w/in 2 hours)	16	8	12	15	15	32	12	24	15	22	20	20	24

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
FLOWES		30	31	31	30	31	30	31	31	28	31	30	31	30
Influent	MG	191.0	189.8	186.1	176.1	180.0	208.8	257.6	407.2	542.7	465.3	261.4	275.4	213.6
Average Day	MGD	6.4	6.1	6.0	5.9	5.8	7.0	8.3	13.1	19.4	15.0	8.7	8.9	7.1
Maximum Day	Date	4-Jun	1-Jul	19-Aug	16-Sep	2-Oct	29-Nov	1-Dec	17-Jan	14-Feb	6-Mar	1-Apr	19-May	1-Jun
Maximum Day Flow	MG	6.6	6.3	6.3	8.2	6.2	16.5	12.6	31.7	44.8	26.3	11.7	17.2	8.0
Minimum Day	Date	27-Jun	6-Jul	22-Aug	21-Sep	31-Oct	1-Nov	13-Dec	3-Jan	1-Feb	19-Mar	30-Apr	14-May	27-Jun
Minimum Day Flow	MG	6.1	6.0	5.5	5.7	5.4	5.5	6.6	7.0	8.8	9.7	7.4	6.8	6.6
Effluent	MG	134.0	133.0	124.4	104.7	68.1	289.9	384.2	497.1	507.1	618.1	455.7	55.5	108.7
River Discharge	MG	-	-	-	-	-	263.8	378.9	491.6	507.1	618.1	424.4	-	-
Recycled Flow	MG	134.0	133.0	124.4	104.7	68.1	26.1	5.2	5.5	-	8.5	25.4	55.5	108.7
BIOSOLIDS	Tons	760	798	775	943	745	572	767	700	451	413	575	493	506
Wet Tons Generated from Pond	Tons													
Wet Tons Generated from Plant	Tons	760	798	775	943	745	572	767	700	451	413	575	493	506
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
POLYMER USE	Gallons	2,636	1,732	1,936	1,915	4,044	8,169	1,155	868	1,046	4,557	7,851	5,053	5,921
Pond Pre-Flocculators	Gallons	-	-	-	-	59	2,293	-	-	-	2,668	4,704	288	224
Flocculator Polymer 1	Gallons	-	-	-	-	-	-	-	-	-	-	-	-	-
Flocculator Polymer 2	Gallons	-	-	-	-	34	784	294	-	-	974	755	79	-
Filter Polymer 1	Gallons	1,677	824	1,361	1,259	2,944	4,503		178	404	460	1,584	4,100	5,102
Filter Polymer 2	Gallons	-	-	-	-	-	-		-	-	-	-	-	-
Belt Presses	Gallons	959	908	575	656	1,007	589	788	690	642	455	808	586	595
ENERGY														
Total Electricity Used	MWH	813	775	798	765	714	785	684	663	670	864	840	779	827
Purchased from PGE	MWH	270	279	361	331	366	448	342	353	374	504	423	317	346
Produced from Co-Gen	MWH	266	286	258	272	249	254	265	235	207	215	244	284	270
Percent Produced	%	33%	37%	32%	36%	35%	32%	39%	35%	31%	25%	29%	36%	35%
Purchased from Solar	MWH	227	210	179	162	99	83	77	75	89	145	173	178	211
Percent Produced		28%	27%	22%	21%	14%	11%	11%	11%	13%	17%	21%	23%	25%
Purchased Natural Gas	Therms	63	116	68	34	532	516	341	158	407	404	227	140	481

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
<u>Scheduled</u>													
Old	8	9	13	31	20	21	10	6	5	11	10	15	25
New	101	95	87	83	104	78	97	100	82	92	109	89	95
Completed	100	91	69	94	103	89	101	101	76	93	104	79	89
New Balance	9	13	31	20	21	10	6	5	11	10	15	25	31
<u>Unscheduled</u>													
Old	30	27	29	38	32	36	30	24	23	23	23	22	21
New	21	23	30	11	38	17	13	19	12	20	15	31	17
Completed	24	21	21	17	34	23	19	20	12	20	16	32	20
New Balance	27	29	38	32	36	30	24	23	23	23	22	21	18
<u>Total Work Orders</u>													
Old	38	36	42	69	52	57	40	30	28	34	33	120	46
New	122	118	117	94	142	95	110	119	94	112	124	11	112
Completed	125	112	90	111	137	112	120	120	88	112	120	46	109
New Balance	36	42	69	52	57	40	30	28	34	33	37	46	49
<u>LAB ANALYSES</u>													
<u>Sample Type</u>													
Regulatory	146	139	182	132	129	195	175	169	117	164	155	190	138
Process Control	871	917	890	926	486	1,154	1,087	1,155	1,111	1,199	1,195	760	770
Special Request	34	2	-	-	13	-	2	-	8	2	-	1	15
Quality Control/Assurance	500	483	622	401	328	1,128	705	776	639	754	1,447	812	539
TOTAL	1,551	1,541	1,694	1,459	956	2,477	1,969	2,100	1,875	2,119	2,797	1,763	1,462

**Summary of NSD Capital Project Status
through 06-30-19**

Proj #	Description	FY 18/19 Budget	FY 17/18 Carryovers	Adj.	Final FY 18/19 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<u>COLLECTION SYSTEM</u>								
13701	Main Line Sewer Rehabilitation	95,000			95,000	-	33,142	61,858	35%
13702	Manhole Raising/Rehabilitation	428,500		(50,000)	378,500	-	294,203	84,297	78%
13703	Lateral Replacement/Rehabilitation	77,100		50,000	127,100	-	100,561	26,539	79%
13704	Cleanouts Installation/Rehabilitation	93,200			93,200	-	82,829	10,371	89%
13705	Inflow & Infiltration (I&I) Reduction Program	214,200			214,200	-	68,767	145,433	32%
14703	Browns Valley Rd & First St	5,075,000			5,075,000	-	280,081	4,794,919	6%
17704	Infltrtn Rehab - SSMH/PL (CI-)	-	73,900	(40,000)	33,900	-	8,400	25,500	25%
17708	Basin G - I&I Reduction #1	-	200,000		200,000	-	153,759	46,241	77%
18701	I&I Smoke Testing	-	99,750		99,750	-	64,912	34,838	65%
18702	Collection System Asset Management Software	275,000	349,550		624,550	-	180,983	443,567	29%
18703	Upper Lateral Rehab - Basin L (Pilot) #3	-	5,000		5,000	-	1,756	3,244	35%
18705	Sewer System Inflow/Infiltration 2018	2,600,000	2,298,750	(20,000)	4,878,750	-	4,308,380	570,370	88%
18706	Sewer System Inflow/Infiltration 2019	2,321,100	13,900	335,850	2,670,850	-	1,997,584	673,266	75%
19701	66-inch Trunk Rehabilitation (Kaiser to IPS)	1,400,000			1,400,000	-	215,856	1,184,144	15%
19702	72-inch Trunk Construction (Kaiser to IPS)	1,000,000		(1,000,000)	-	-	-	-	-
19703	2020 Collection System Rehabilitation	20,000			20,000	-	10,153	9,847	51%
19727	Collection System Master Plan	-		1,000,000	1,000,000	-	367,649	632,351	37%
	<u>COLLECTION SYSTEM - EQUIPMENT</u>								
18708	Manhole - Smart Covers (4)	-	15,000		15,000	-	14,978	22	100%
18738	Combination Truck Veh #529B	-	3,600		3,600	-	3,600	-	100%
19704	Vehicle 180 - Ford F150 - USA Truck	35,400			35,400	-	35,400	-	100%
19729	Replace Coll Veh #166	-		40,000	40,000	-	37,335	2,665	93%
19730	CCTV Camera Transporter	-		20,000	20,000	-	19,637	363	98%
	<u>LIFT STATIONS</u>								
17711	West Napa PS - Rehab	5,200,000			5,200,000	-	720,804	4,479,196	14%
19705	Stonecrest PS Pump Rebuild	45,000			45,000	-	4,894	40,106	11%
	<u>TREATMENT</u>								
13745	Pond 1 Dredge	600,000		(350,000)	250,000	-	12,846	237,154	5%
	<u>TREATMENT - EQUIPMENT</u>								
13735	Dual Fuel Boiler Burner	-	155,300		155,300	-	33,744	121,557	22%
15711	Rotork Actuator Replacement	-	7,600		7,600	-	-	7,600	-

**Summary of NSD Capital Project Status
through 06-30-19**

Proj #	Description	FY 18/19 Budget	FY 17/18 Carryovers	Adj.	Final FY 18/19 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
15713	Aeration Basin Instrmntn/Ctrl	-	6,750		6,750	-	-	6,750	-
16712	Main - Primary Clarifier Mech/Struct Rehabilitation	150,000		90,000	240,000	-	91,459	148,541	38%
17713	Secondary PS VFD Rplcmnt (3)	57,400		(57,400)	-	-	-	-	-
17715	Turbidimeters (7) Tertiary Rplcmnts	-	16,000		16,000	-	-	16,000	-
18711	3W Strainer	-	52,750		52,750	-	28,374	24,376	54%
18715	Muffle Furnace - Replacement	-	5,000		5,000	-	-	5,000	-
18716	Rotork Actuator Replacement	-	67,200	18,600	85,800	-	79,396	6,404	93%
18719	Filter Flow Control - Rotork Valves	-	46,600		46,600	-	36,668	9,932	79%
18720	Neuros Blowers Rebuild	64,300			64,300	-	-	64,300	-
18722	FOG Station Water Heater	-	5,000		5,000	-	-	5,000	-
18725	Belt Press Hydraulic Actuator Replace	-	20,000		20,000	-	18,764	1,236	94%
18740	Main - Chemical Storage Building Piping Repair	250,000	25,000	1,000,000	1,275,000	-	602,292	672,708	47%
19706	WWTP MP - 3W System Improvements Phase 2	300,000			300,000	-	4,394	295,606	1%
19707	Portable Pumps 10-inch (2)	172,100		42,400	214,500	-	214,379	121	100%
19708	Main - Rotork Actuator Replacement	95,000			95,000	-	-	95,000	-
19709	Main - Polymer Tank (3) Replacement	10,000			10,000	-	-	10,000	-
19710	Main - 12kV Redundant Line	120,000			120,000	-	854	119,146	1%
19711	Main - CCB Coating - E&W Channels	50,000		(50,000)	-	-	-	-	-
19712	Main - Utility Generator Power Transition	75,000		(40,000)	35,000	-	-	35,000	-
19713	Main - Cogen Hot Water to FOG Pad	50,000			50,000	-	-	50,000	-
19714	Main - Ventilation System Expansion Boots	50,000			50,000	-	28,740	21,260	57%
19715	Main - ARV Replacement	30,000			30,000	-	29,299	701	98%
19716	Main - P4PS Pump #3 Rebuild	40,000			40,000	-	35,523	4,477	89%
19728	Lab Sampler	-		8,000	8,000	-	7,298	702	91%
	TREATMENT - STRUCTURES								
17726	Headworks Equipment Rehab/Replacment	1,900,000	9,250		1,909,250	-	1,268,307	640,943	66%
18736	Treatment Plant Project 2018	2,100,000	854,000		2,954,000	-	2,777,282	176,718	94%
19717	WWTP MP - Pond Transfer Structures 2 to 3	5,000		350,000	355,000	-	346,838	8,162	98%
	SCADA								
18729	SCADA MP Project #1 - Network Monitoring	-	48,700		48,700	-	2,501	46,199	5%
19718	SCADA MP Phase 5 Security Study	250,000			250,000	-	161,756	88,244	65%
	RECYCLING - DISTRICT								
16716	Line Recycled Water Reservoir	-	100,000		100,000	-	82,966	17,034	83%

**Summary of NSD Capital Project Status
through 06-30-19**

Proj #	Description	FY 18/19 Budget	FY 17/18 Carryovers	Adj.	Final FY 18/19 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
18730	Jameson 24" Flow Meter Rehab	-	6,200		6,200	-	-	6,200	-
18731	Coombsville Truck Fill Station	375,000	65,050		440,050	-	298,384	141,666	68%
19719	24-inch Valve Replacement - Kirkland Line	5,000			5,000	-	-	5,000	-
19720	Jameson PS VFD	68,900			68,900	-	-	68,900	-
19721	Soscol RW Pump Replacement/Rehab	150,000			150,000	-	91,651	58,349	61%
19722	Vehicle 723/720 - Attachments/Implements	28,700			28,700	-	25,783	2,917	90%
	<u>RECYCLING - EXPANSION</u>								
13727	North Bay Wate Reuse Project	150,000			150,000	-	101,599	48,401	68%
	<u>OTHER</u>								
13729	Development Technical Support	248,300		120,100	368,400	-	294,909	73,491	80%
19723	AV System Replacement - Conference Rooms	20,000			20,000	-	-	20,000	-
19724	Fence Repair - District Wide	25,000		7,000	32,000	-	24,716	7,284	77%
19725	Vehicle 011 - CSET Trailer	23,700			23,700	-	17,669	6,031	75%
19726	Vehicle 607 - Electrical Hybrid Vehicle	42,800			42,800	-	39,038	3,762	91%
GRAND TOTAL ALL PROJECTS		\$26,385,700	\$4,549,850	\$1,474,550	\$32,410,100	-	\$15,763,095	\$16,647,009	49%