



Napa Sanitation District

General Manager's Report

for

June 2020

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 5, 2020

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for June 2020

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, 2019 – June 30, 2020
Percent Fiscal Year:	100.0%
Operating Expenditures to date:	65.7%
Historical Expenditures to date:	92.2%
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 2019/20 that will need to be accrued. Adjusting entries will also be posted for the year-end process for FY 2019/20. An amended Budget Status report for June will be provided after the completion of the annual audit scheduled for the middle of September 2020.

In prior years, typically an intrafund transfer from Operating to Capital is done for cash flow purposes. As a result of some yearend accounting adjustments last fiscal year, the Capital Fund has had sufficient funds for this fiscal year, and a intrafund transfer had not been needed. This causes a lower than average Operating Expenditures to date in comparison to the Historical Expenditures to date.

PERSONNEL:

Significant events for the month of June 2020 in the Human Resources Department:

New Hires:	None
Separations:	None
Promotions:	Jon Brandow promoted to Collection System Worker III
Recruitment Activities:	None
Injuries:	None

COLLECTIONS:

Significant events for the month of June 2020 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 10 cleanouts and repaired 1. They also repaired 2 laterals and lined 17 laterals. Additionally, the service response/programs crew completed 147 work orders in support of the grease and odor control program, responded to 34 customer requests for service (8 were NSD problem) and closed out 297 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 194 laterals, cleaned approximately 89,966.6 feet of main line and CCTV inspected 11 laterals. In addition, the CCTV truck televised 16,016 feet of mainline.

TREATMENT PLANT:

Significant events for the month of June 2020 in the Treatment Plant Department:

Plant Operations:

- For June 2020, the plant's influent flow was 182.5 MG as compared to last year flow for June 2019 of 213.6 MG
- There was 0.00" rainfall for June 2020 (Carneros Rainfall Center) as compared to 0.00" rainfall for June 2019.
- Pond 4 end of the month recorded level reading was 76.22".

Power Consumption and Production:

- June power purchased from PG&E was 355 MWH in comparison to June 2019 purchase of 346 MWH.
- Cogeneration unit ran 709 of 720 hours for the month – 98.47% uptime, averaging 322.77 Kw, producing 243 MWH of energy.
- Solar generation in June was 213 MWH, compared to 194 MWH in May and 211 MWH in June 2019.

Maintenance:

Significant events for the month of June 2020:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Serviced Cogeneration Stepper Motors
- Gas Compressor cooling water/serviced thermostatic valves
- Replaced IPS downstream transducer in west channel
- Installed new shaft seals in Boiler Recirculation Pump
- Installed Flow meter Transmitter on West H-Pad
- Installed condenser fan motor and defrost control board in digester HVAC
- Annual Boiler Service/ inspect, clean and tune
- Installed new split HVAC system at Jameson Ranch breakroom

Projects

- Up-graded lighting in Chemical Feed and Filter Support buildings

Standby Power

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

Influent Pumps

- All pumps operational

Laboratory:

Effluent (EFF-001) Summary

There was no Effluent (EFF-001) discharge during the reporting period.

Influent (INF-001) Summary

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

- June 2, 2020: Metals, Mercury, Cyanide

RECYCLING:

Significant events in the Recycling Department for June 2020 include:

- Recycled water delivered for the month of June 2020 was (140.249 million gallons), as compared to June 2019 (99.920 million gallons) is higher from the previous year due to vineyard irrigation, golf course, commercial and truck hauling. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff approved the connection of one recycled water use site in the MST area.
- Staff continued with the land application of biosolids at the Jameson Reuse site.

POLLUTION PREVENTION:

Significant events in the Pollution Prevention and Outreach Division for June 2020 include:

- There were no presentations or tours given in the month of June due to the COVID-19 pandemic.
- No medication was collected in June. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 22,118.2 pounds. Staff continues to work to find a new home for the drug takeback bin that was located at Family Drug.
- Outreach was conducted to residents in the Pear Tree Lane area, Jefferson Street area, and Browns Valley Road area regarding the Summer 2020 Collection System Rehabilitation Project. Letters were sent notifying residents of upcoming sewer rehabilitation work and email/text notifications were sent to all residents on the project mailing list.
- Staff also conducted outreach regarding the Browns Valley Trunk Sewer Project. Letters were sent to residents and businesses in advance of water line work being conducted on South Coombs Street. Weekly project updates are posted on the NapaSan website and have been shared via email and text to those on our project mailing list.
- Staff participated in a compilation video being put together by CASA. Lab, collections and operations staff were involved in filming some videos clips as part of a larger video CASA is producing to showcase how wastewater treatment plants "Meet the Moment" in times of disaster.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

Significant events occurring in the Engineering Division for June 2020 include:

- Consultants and staff continued work on the CMMS implementation.
- Contractor began working on the Pond Biosolids Removal and Reuse Project.
- Contractor continued construction of the Browns Valley Trunk Project.
- Contractor continued construction of the West Napa Pump Station Project.
- Contractor continued construction of the 2020 Collection System Rehabilitation Project.
- Staff continued design of the 2021 Collection System Rehabilitation Project.
- Consultant continued design of the 66-inch Trunk Sewer Rehabilitation Project.
- Consultant continued design of the Pond Levee Maintenance Project
- Contractor continued construction of the Primary Clarifier and DAF Clarifier Rehabilitation Project.
- Consultant continued work on the SWRF Buried Metallic Piping Condition Assessment Project.
- Consultant continued work on the SWRF 12kV Condition Assessment Project.
- Consultant continued working on the Collection System Master Plan.
- Consultant continued working on the Kirkland Recycled Water Pipeline Condition Assessment Project.
- Staff selected a consultant for the Wastewater Treatment Plant Master Plan.
- Staff reviewed 57 sets of development plans and deemed 26 sets of plans complete. The approved plans consisted of 9 residential dwellings, 2 residential laterals, 6 tenant improvements, 4 recycled water laterals, 1 residential mainline extension, and 4 commercial buildings.

Budget Status & Cash Summary - July 1, 2019 - June 30, 2020 (100.0% of the year) as of 7/29/2020

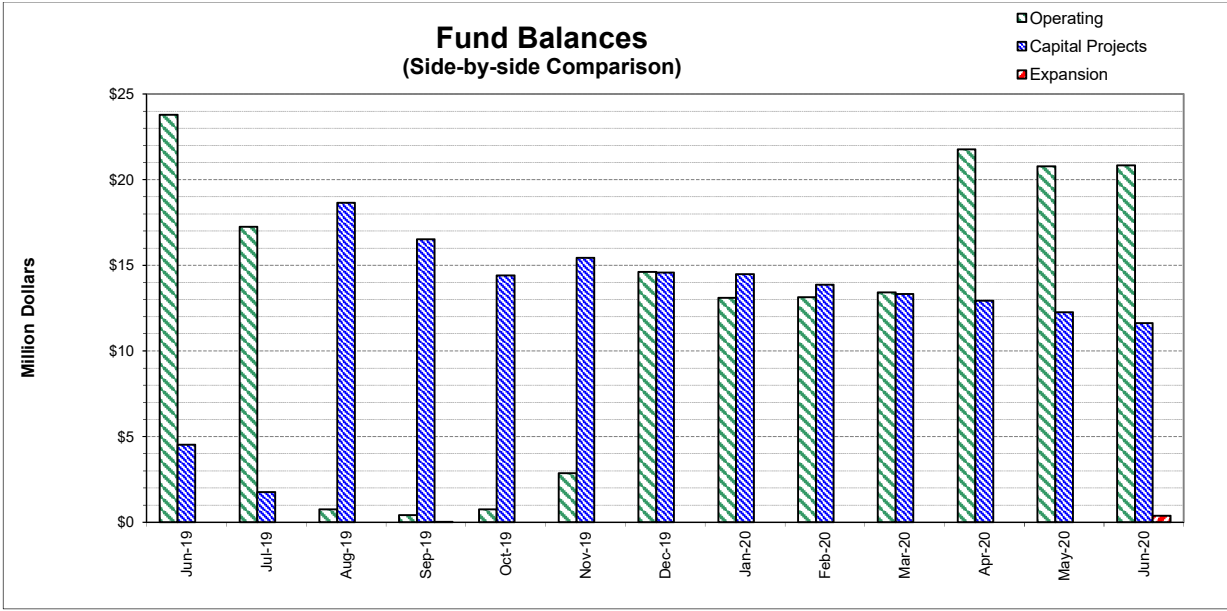
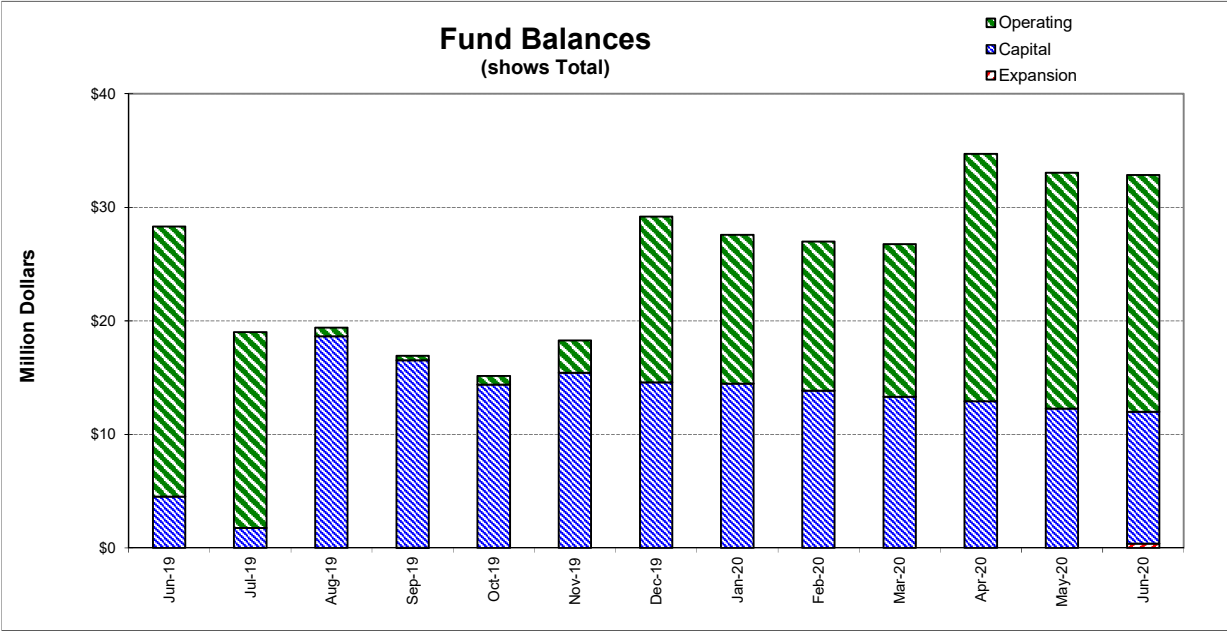
<i>Expenditures</i>	FY 19/20 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
Operating						
Salaries & Benefits	\$10,258,600	\$0	\$9,779,780	\$9,779,780	\$478,820	95.3%
Services & Supplies	6,281,200	171,212	5,197,732	5,368,945	912,255	85.5%
Taxes	41,800	-	30,541	30,541	11,259	73.1%
Debt Service	4,594,350	-	4,594,202	4,594,202	148 (1)	100.0%
Intrafund Transfers	8,900,000	-	-	-	8,900,000	0.0%
Total Operating:	\$30,075,950	\$171,212	\$19,602,256	\$19,773,468	\$10,302,482 (2)	65.7%
Capital						
Bldgs/Improvements & Equip	\$39,047,000	\$9,775,375	\$13,329,773	\$23,105,147	\$15,941,853 (3)	59.2%
Intrafund Transfers	5,178,000	-	4,266,561	4,266,561	911,439	82.4%
Total Capital :	\$44,225,000	\$9,775,375	\$17,596,334	\$27,371,708	\$16,853,292	61.9%
Grand Total Expenditures:	\$74,300,950	\$9,946,587	\$37,198,589	\$47,145,176	\$27,155,774	63.5%

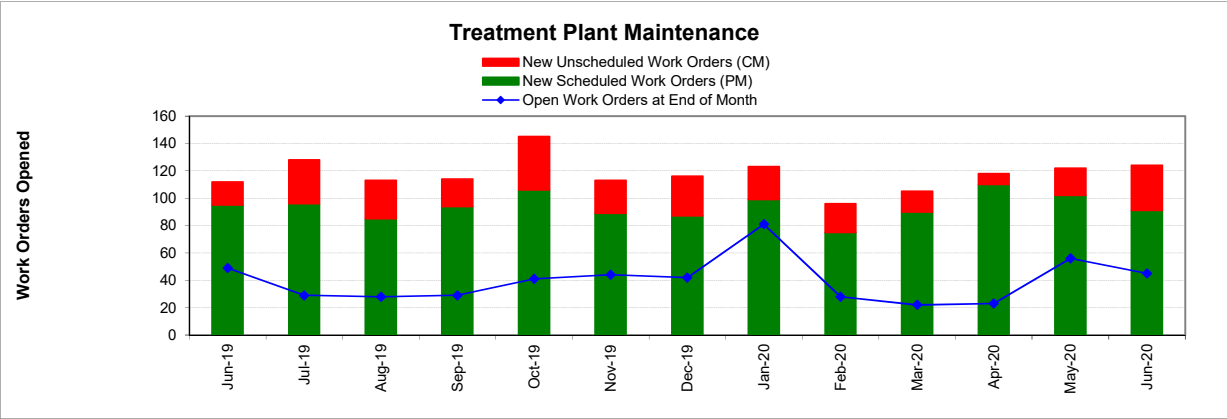
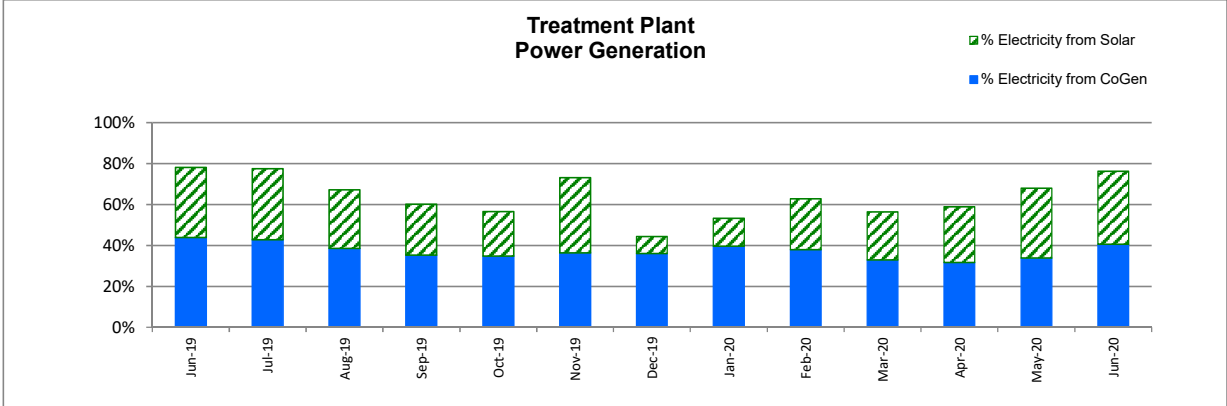
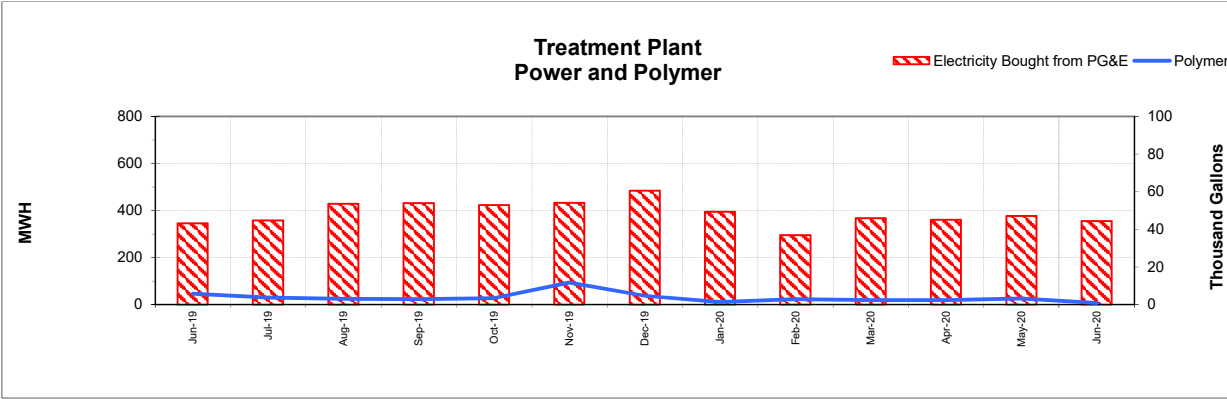
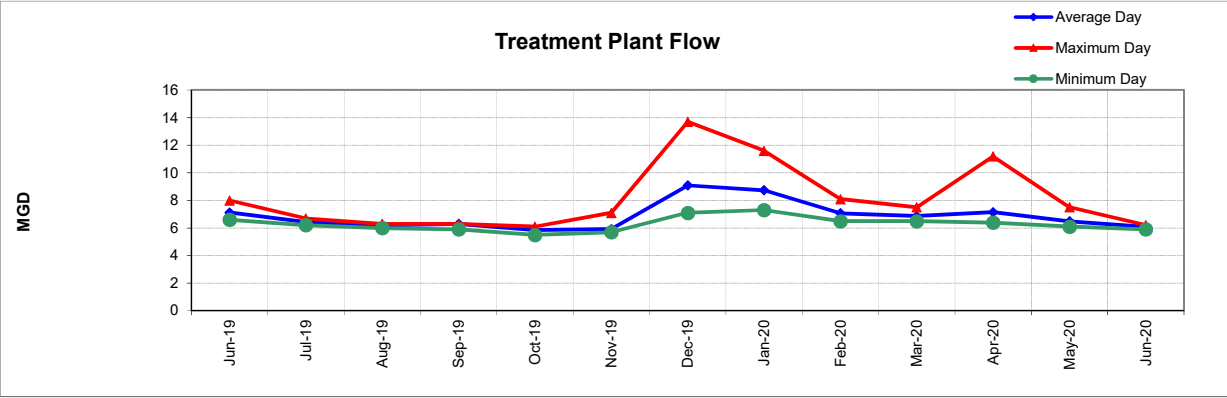
<i>Revenues</i>	FY 19/20 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
Operating						
Use of Money/Property	\$578,000		\$1,295,267	\$1,295,267	(\$717,267) (4)	224.1%
Charges for Services	31,213,500		31,197,932	31,197,932	15,568	100.0%
Miscellaneous Revenues	60,000		61,652	61,652	(1,652)	102.8%
Donations/Contributions (Capital Labor)	-		800,239	800,239	(800,239) (5)	N/A
Total Operating:	\$31,851,500		\$33,355,091	\$33,355,091	(\$1,503,591)	104.7%
Capital						
Use of Money/Property	\$0		\$3,961	\$3,961	(\$3,961)	N/A
Capacity Charges	5,178,000		4,408,239	4,408,239	769,761	85.1%
Bond/Loan Proceeds	15,416,600		-	-	15,416,600 (6)	0.0%
Sale of Assets	25,000		8,736	8,736	16,264	34.9%
Miscellaneous Revenues	5,000		-	-	5,000	0.0%
Intrafund Transfers	14,078,000		4,266,561	4,266,561	9,811,439	30.3%
Total Capital:	\$34,702,600		\$9,028,274	\$9,028,274	\$25,674,326	26.0%
Grand Total Revenue:	\$66,554,100		\$42,383,365	\$42,383,365	\$24,170,735	63.7%

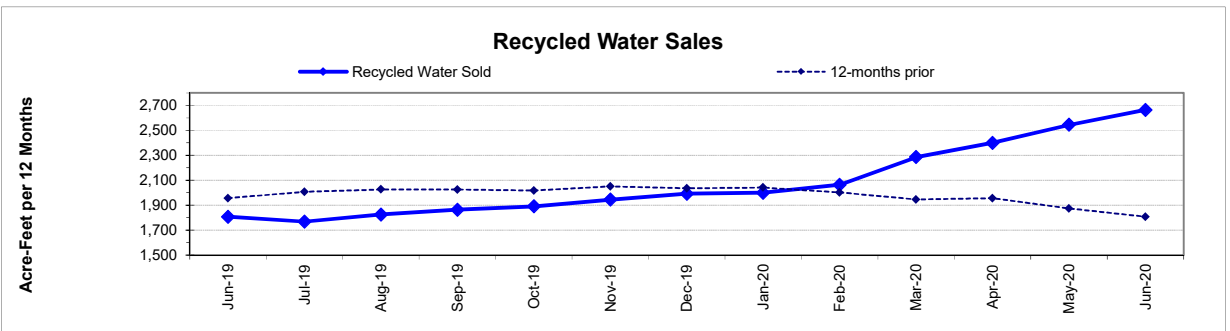
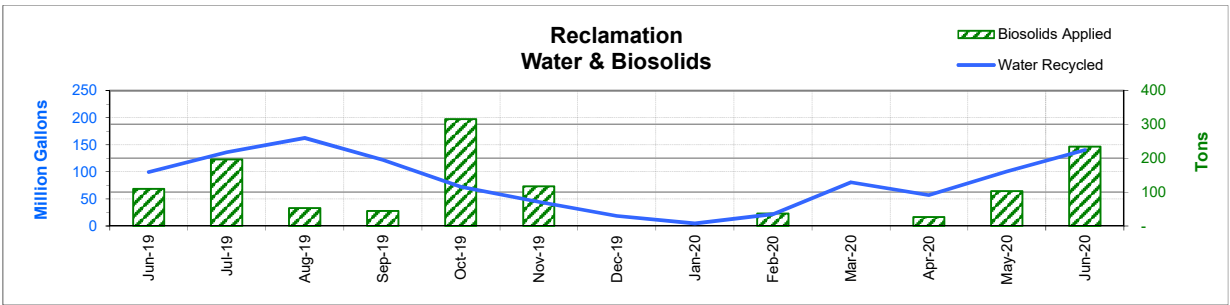
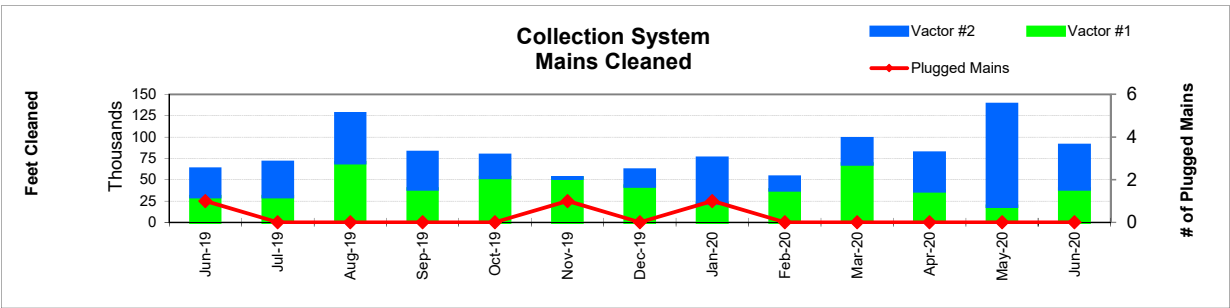
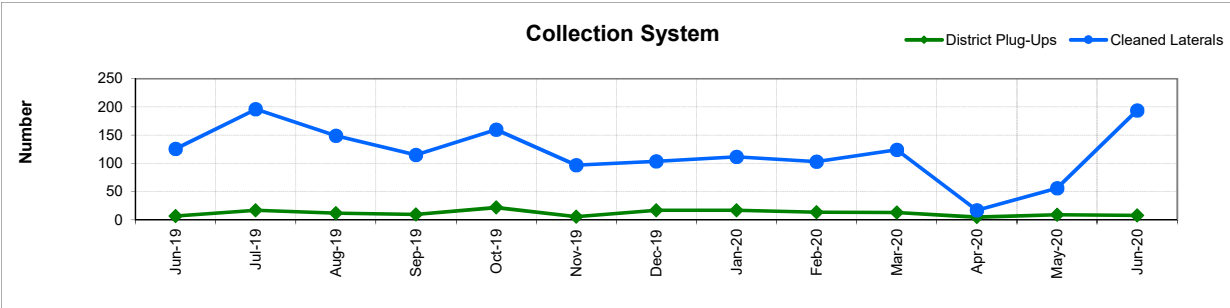
Cash on Hand as of 6/30/20 **\$32,844,635**

**excluding Debt Service restricted funds
6/30/20 -Effective Rate of Return = 1.56%

1. Series 2012A's and 2017's principal/interest payments are made in Jul & Jan
2. Includes Debt Service and Intrafund Transfers; otherwise is 91.5%
3. See Capital Project Status report for details
4. Somky Lease was invoiced and recorded as revenue but will be removed as uncollectible
5. In-house Labor for Capital Projects (Contra acct for Salaries)
6. Expect to receive some proceeds of SRF Loan for BVT and WNPS Projects at the end of FY.







FUND BALANCES - MONTHLY

CATEGORY	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
<i>(Thousand Dollars)</i>													
7800	23,784	17,246	748	415	753	2,858	14,616	13,107	13,136	13,427	21,767	20,787	20,841
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	23,784	17,246	748	415	753	2,858	14,616	13,107	13,136	13,427	21,767	20,787	20,841
Capital Improvement Projects	4,525	1,764	18,655	16,516	14,400	15,430	14,579	14,477	13,860	13,326	12,924	12,268	11,626
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	4,525	1,764	18,655	16,516	14,400	15,430	14,579	14,477	13,860	13,326	12,924	12,268	11,626
Total Discretionary Funds	28,309	19,010	19,403	16,931	15,153	18,288	29,195	27,584	26,996	26,753	34,691	33,055	32,467
Expansion Fund (Restricted)	-	-	-	2	-	-	-	-	-	-	-	-	378
Total Restricted Funds	-	-	-	2	-	-	-	-	-	-	-	-	378
TOTAL ALL FUNDS	28,309	19,010	19,403	16,933	15,153	18,288	29,195	27,584	26,996	26,753	34,691	33,055	32,845

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
<u>Phone Requests</u>													
Maps/Drawings	8	1	-	4	-	11	4	6	5	2	3	1	7
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	6	8	1	4	2	2	-	2	5	5	-	-	3
Development Questions	64	43	29	38	32	40	29	32	38	29	24	36	45
Miscellaneous	18	25	16	18	29	13	24	10	12	8	5	6	7
TOTAL	96	77	46	64	63	66	57	50	60	44	32	43	62
<u>Counter Requests</u>													
Maps/Drawings	-	1	-	-	1	-	-	-	-	-	-	-	-
Lateral Permits	7	8	12	13	7	7	8	5	19	20	7	10	10
Policy Questions	-	-	-	-	-	1	-	-	-	1	-	-	-
Development Questions	10	3	4	13	4	7	7	4	2	2	-	-	-
Miscellaneous	0	0	1	0	-	-	-	1	1	1	-	-	-
TOTAL	17	12	17	26	12	15	15	10	22	24	7	10	10
<u>Initial Request (Referrals)</u>	9	14	16	13	13	11	9	9	13	8	7	4	
<u>Connection Permits Issued</u>													
Residential Permits	3	2	14	2	5	3	0	9	22	6	6	14	10
Commercial Permits	1	6	1	2	1	3	1	1	-	2	1	-	1
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	4	8	15	4	6	6	1	10	22	8	7	14	11
Residential Units	3	6	14	2	22	5	0	11	13	6	56	20	16
Commercial Units	1	2	1	2	1	133	1	1	-	2	1	-	20
TOTAL UNITS	4	8	15	4	23	138	1	12	13	8	57	20	36
<u>Annexations</u>													
Submitted	-	1	-	-	1	-	-	-	-	-	1	-	-
Acreage	-	16.04	-	-	44.84	-	-	-	-	-	0.50	-	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	8	7	8	8	5	8	24	12	5	12	7	13	12
Second Submittal	6	5	5	2	2	6	6	12	7	4	8	9	10
Third Submittal	5	5	1	3	7	3	6	4	5	3	2	4	8
<u>Building/Tenant Improvements</u>													
First Submittal	9	12	6	6	13	4	3	12	9	9	5	4	9
Second Submittal	4	4	1	4	5	1	4	3	2	6	4	2	10
Third Submittal	7	6	4	3	7	5	3	1	2	5	3	7	8
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	39	39	25	26	39	27	46	44	30	39	29	39	57

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
<u>CONSTRUCTION</u>													
Locating Sewers	-	-	-	-	-	-	-	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	2	5	11	4	6	1	2	4	4	3	3	-	-
Inspections - Mains	1	5	1	11	-	1	-	-	-	-	-	6	5
Inspections - Manholes	7	13	12	77	1	6	3	9	16	37	-	6	-
Inspections - Laterals	27	40	15	5	12	22	10	15	8	13	48	32	9
Inspections - Cleanouts	24	59	43	7	54	33	44	26	32	35	90	4	2
Inspections - Review Video	1	-	-	2	-	1	-	1	2	4	2	-	2
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	-	-	-	-	-	-	-	-	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	62	122	82	106	73	64	59	55	62	92	143	48	18
<u>MISCELLANEOUS</u>													
Meter Readings	-	-	-	-	-	-	-	59	1	-	4	-	-
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	-	-	32	31	12	12	-	6	9	15	14	24	30
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	32	31	12	12	-	65	10	15	18	24	30
<u>SPECIAL PROJECTS</u>													
	40	25	22	35	23	19	30	10	0	11	26	23	22

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
<u>Outreach Activities</u>													
Plant Tours Conducted	6	1	0	0	2	5	0	3	2	0	0	0	0
Presentations Made	2	0	0	0	5	7	0	1	0	1	0	0	0
Total Outreach Activities	8	1	-	-	7	12	-	4	2	1	-	-	-
<u>Inspections Conducted</u>													
Food Service Facilities	-	-	1	-	-	-	1	1	62	21	-	-	-
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Inspections	-	-	1	-	-	-	1	1	62	21	-	-	-
<u>Compliance Issues</u>													
NOVs Issued	1	-	1	1	1	3	-	2	-	-	-	-	-
NOEs Issued	-	-	-	-	-	1	-	2	1	1	1	1	1
Non-Compliant-FOG	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Compliance Issues	1	-	1	1	1	4	-	4	1	1	1	1	1
<u>Pollution Prevention</u>													
Clothes Washer Rebates	2	-	-	-	-	-	-	-	-	-	-	-	-
Toilet Retrofit Rebates	-	-	-	-	-	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	73	132	-	-	77	-	44	-	-	-	-	-	-

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
MONTHLY (MG)														
<u>Water Sold</u>														
Golf Courses	638.0	58.629	69.590	65.339	49.784	31.724	16.340	0.007	0.001	12.483	20.366	24.765	52.367	75.187
Cemeteries	57.1	3.658	5.515	5.659	4.822	4.061	3.028	0.250	0.222	0.514	3.078	3.422	3.965	4.958
Parks	18.5	0.843	0.939	1.219	1.111	0.615	0.028	-	-	-	0.001	-	0.271	1.188
Schools	12.6	1.655	2.196	1.712	1.635	1.312	0.792	0.085	0.044	0.157	0.685	0.716	2.146	2.341
Commerical	166.5	12.142	18.578	17.787	15.775	13.443	11.762	2.254	0.986	3.194	9.822	9.213	13.672	15.852
Vineyards	3,442.0	10.475	20.951	42.981	27.367	13.852	7.027	15.494	3.170	5.250	46.305	17.728	19.191	24.276
Trucked Water	175.0	0.533	1.293	1.374	1.425	1.401	1.097	0.476	0.227	0.134	0.415	1.147	3.612	3.079
Subtotal Sales	4,509.6	87.935	119.063	136.071	101.920	66.409	40.073	18.567	4.650	21.732	80.671	56.990	95.224	126.881
<u>District Use</u>														
Jameson	330.0	-	-	0.470	-	-	-	-	0.024	-	-	-	-	-
Somky	213.0	11.985	17.012	25.944	20.394	6.391	4.513	-	0.006	0.050	0.026	0.080	5.408	13.369
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	11.985	17.012	26.413	20.394	6.391	4.513	-	0.030	0.050	0.026	0.080	5.408	13.369
TOTAL DELIVERED	5,103.1	99.920	136.074	162.484	122.314	72.800	44.586	18.567	4.681	21.783	80.697	57.070	100.633	140.249
ANNUAL (AF)														
<u>Water Sold</u>														
Golf Courses	638.0	880	897	921	939	963	1,003	1,003	1,003	1,042	1,104	1,151	1,232	1,283
Cemeteries	57.1	93	95	97	99	102	102	101	100	102	110	116	117	121
Parks	18.5	13	13	14	16	17	15	15	15	15	15	15	15	16
Schools	12.6	33	34	33	33	33	33	33	33	33	35	37	40	42
Commerical	166.5	342	350	346	342	323	336	337	336	344	372	385	395	406
Vineyards	3,442.0	436	367	399	418	431	431	477	486	500	621	665	705	748
Trucked Water	175.0	11	13	15	18	22	24	25	26	26	27	31	40	48
Subtotal Sales	4,509.6	1,808	1,768	1,824	1,864	1,891	1,944	1,992	2,000	2,063	2,285	2,400	2,545	2,665
<u>District Use</u>														
Jameson	330.0	15	15	16	1	1	1	1	2	2	2	2	2	2
Somky	213.0	139	191	261	276	259	272	272	272	273	273	273	282	286
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	154	206	277	277	260	274	274	274	274	274	274	283	288
TOTAL DELIVERED	5,103.1	1,962	1,974	2,101	2,141	2,151	2,218	2,266	2,273	2,337	2,559	2,674	2,828	2,952

BIOSOLIDS HANDLING - MONTHLY

Site	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
<u>Land Applied by NSD</u>													
Somky	109												
Fagundes				44									
Jameson Canyon	-	197	52		316	117	-	-	37	-	26	103	234
Subtotal by NSD	109	197	52	44	316	117	-	-	37	-	26	103	234
<u>Land Applied by Contractor</u>													
Somky													
Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	109	197	52	44	316	117	-	-	37	-	26	103	234
Off Site (Contractor)													
Total (tons)	109	197	52	44	316	117	-	-	37	-	26	103	234

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
<u>Plugups</u>													
Total Calls	40	45	46	45	68	38	60	68	39	35	31	37	34
Business Hours	31	33	30	36	51	28	37	42	25	22	23	25	25
After Hours	9	12	16	9	17	10	23	22	14	13	8	12	9
District's	7	17	12	10	22	6	17	17	14	13	5	9	8
Property Owner's	32	26	34	32	43	32	42	46	24	22	26	28	26
Plugged Main Lines	1	-	-	-	-	1	-	1	-	-	-	-	-
Run Lateral w/Eel	126	196	149	115	160	97	104	112	103	124	17	56	194
<u>Cleaning (feet of sewer)</u>													
Vactor #1	30,232	30,283	69,780	38,969	52,711	51,764	42,519	22,372	37,916	68,243	36,849	18,947	39,019
Vactor #2	32,180	39,800	57,405	43,059	25,762	610	18,811	52,620	15,049	29,691	44,336	119,112	50,948
Hydro												42,241	-
Rodder							558	-	-		2,915	-	-
Total (feet)	62,412	70,083	127,185	82,028	78,473	52,374	61,888	74,993	52,965	97,933	84,100	180,301	89,967
<u>Cleaning Days</u>													
Vactor #1	12	12	18	18	20	18	17	10	15	16	10	9	17
Vactor #2	15	16	21	15	8	1	10	16	5	8	11	17	16
Hydro												4	-
Rodder							2				2		-
<u>Feet/day</u>													
Vactor #1	2,500	2,500	3,900	2,150	2,650	2,900	2,500	2,250	2,550	4,250	3,700	2,100	2,300
Vactor #2	2,150	2,500	2,750	2,850	3,200	600	1,900	3,300	3,000	3,700	4,050	7,000	3,200
Hydro												10,550	
Rodder							300			-	1,450		
<u>Video Inspections</u>													
Mains (feet)	23,914	32,551	40,819	22,837	17,404	10,825	-	13,832	30,961	26,158	6,798	27,649	16,016
Laterals (each)	177	254	214	190	247	165	182	188	180	206	75	109	239
<u>Construction (each)</u>													
Cleanouts	24	15	17	15	20	10	4	8	15	15	1	3	12
Laterals	12	14	16	16	10	9	10	10	8	4	-	4	19
Mains		-	-		-		-	1	-	-	-	-	-
Manholes		-	2		2		-		-	5	-	-	-
Other										-	-	-	-
<u>USA Markings</u>													
Regular (w/in 2 days)	292	378	363	331	332	224	290	271	423	232	258	260	284
Emergency (w/in 2 hours)	24	21	28	23	21	7	21	22	9	11	36	14	13

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
FLOWES		30	31	31	30	31	30	31	31	29	31	30	31	30
Influent	MG	213.6	199.3	192.5	182.1	181.6	177.6	281.6	271.0	204.9	212.9	214.3	201.2	182.5
Average Day	MGD	7.1	6.4	6.2	6.3	5.9	5.9	9.1	8.7	7.1	6.9	7.1	6.5	6.1
Maximum Day	Date	1-Jun	2-Jul	29-Aug	2-Sep	29-Oct	27-Nov	7-Dec	16-Jan	1-Feb	19-Mar	5-Apr	18-May	6-Jun
Maximum Day Flow	MG	8.0	6.7	6.3	6.3	6.1	7.1	13.7	11.6	8.1	7.5	11.2	7.5	6.2
Minimum Day	Date	27-Jun	24-Jul	6-Jan	24-Sep	10-Oct	1-Nov	17-Dec	7-Jan	25-Feb	12-Mar	30-Apr	10-May	30-Jun
Minimum Day Flow	MG	6.6	6.2	6.0	5.9	5.5	5.7	7.1	7.3	6.5	6.5	6.4	6.1	5.9
Effluent	MG	108.7	128.8	167.8	123.5	78.4	309.7	344.4	286.6	204.0	133.7	236.6	110.0	159.3
River Discharge	MG	-	-	-	-	-	265.0	323.2	271.3	177.3	77.9	174.6	-	-
Recycled Flow	MG	108.7	128.8	167.8	123.5	78.4	44.6	21.2	15.3	26.7	55.7	58.6	98.3	159.3
BIOSOLIDS	Tons	506	624	830	714	750	762	769	643	523	685	638	473	738
Wet Tons Generated from Pond	Tons												-	
Wet Tons Generated from Plant	Tons	506	624	830	714	750	762	769	643	523	685	638	473	738
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
POLYMER USE	Gallons	5,921	3,745	3,153	3,038	3,499	11,780	4,681	1,363	3,036	2,498	2,490	3,271	861
Pond Pre-Flocculators	Gallons	224	494	326	257	540	6,311	2,114	-	217	-	-	-	-
Flocculator Polymer 1	Gallons	-	-	-	-	-	-	-	-	-	-	-	-	-
Flocculator Polymer 2	Gallons	-	119	61	86	203	427	382	206	37	146	301	-	-
Filter Polymer 1	Gallons	5,102	2,499	1,963	1,832	1,841	4,401	1,378	354	2,128	1,608	1,463	2,874	342
Filter Polymer 2	Gallons						-	-	-	-	120	179	-	-
Belt Presses	Gallons	595	633	803	863	915	641	807	803	654	624	547	397	519
ENERGY														
Total Electricity Used	MWH	616	625	698	688	648	680	759	654	547	607	594	570	598
Purchased from PGE	MWH	346	358	429	431	423	433	485	395	295	368	361	377	355
Produced from Co-Gen	MWH	270	267	269	257	225	247	274	259	252	239	233	193	243
Percent Produced	%	44%	43%	39%	35%	35%	36%	36%	40%	38%	33%	32%	34%	41%
Purchased from Solar	MWH	211	217	200	171	141	98	62	89	136	142	162	194	213
Percent Produced		34%	35%	29%	25%	22%	37%	8%	14%	25%	23%	27%	34%	36%
Purchased Natural Gas	Therms	1,727	2,028	1,180	1,222	1,633	1,800	2,220	1,807	1,595	2,132	1,920	1,253	1,346
Methane Flared Off	MCF	324	282	251	126	220	214	593	88	190	731	137	18	77
Stand By Calls	#	67	64	50	50	59	88	66	65	47	51	39	72	47
Violations	#	-	-	-	-	-	-	-	-	-	-	-	-	-

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
<u>Scheduled</u>													
Old	25	31	7	7	8	17	24	23	49	5	6	9	39
New	95	96	85	94	106	89	87	99	75	90	110	102	91
Completed	89	120	85	93	97	82	88	73	119	89	107	72	105
New Balance	31	7	7	8	17	24	23	49	5	6	9	39	25
<u>Unscheduled</u>													
Old	21	18	22	21	21	24	20	19	32	23	16	14	17
New	17	32	28	20	39	24	29	24	21	15	8	20	33
Completed	20	28	29	20	36	28	30	11	30	22	10	17	30
New Balance	18	22	21	21	24	20	19	32	23	16	14	17	20
<u>Total Work Orders</u>													
Old	46	49	29	28	29	41	44	42	81	28	22	23	56
New	112	128	113	114	145	113	116	123	96	105	118	122	124
Completed	109	150	113	113	133	110	116	84	149	112	118	90	135
New Balance	49	29	28	29	41	44	42	81	28	22	23	56	45
<u>LAB ANALYSES</u>													
Sample Type													
Regulatory	138	129	149	142	147	240	176	157	192	213	237	140	172
Process Control	770	869	838	818	893	1,010	1,072	1,208	1,039	1,058	1,015	708	815
Special Request	15	1	22	26	46	38	16	-	32	16	12	20	140
Quality Control/Assurance	539	632	600	607	774	957	839	923	1,324	1,043	1,058	595	622
TOTAL	1,462	1,631	1,609	1,593	1,860	2,245	2,103	2,288	2,587	2,330	2,322	1,463	1,749

**Summary of NSD Capital Project Status
through 06-30-20 as of 7/29/2020**

Proj #	Description	FY 19/20 Budget	FY 18/19 Carry Forwards	Adj.	Final FY 19/20 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<u>COLLECTION SYSTEM - PROJECTS</u>								
13701	Main Line Sewer Rehabilitation	60,000		(6,000)	54,000	-	18,182	35,818	34%
13702	Manhole Raising/Rehabilitation	332,600			332,600	-	161,658	170,942	49%
13703	Lateral Replacement/Rehabilitation	110,000		40,000	150,000	-	125,087	24,913	83%
13704	Cleanouts Installation/Rehabilitation	107,000		(40,000)	67,000	-	50,583	16,417	75%
13705	Inflow & Infiltration (I&I) Reduction Program	221,700			221,700	167,477	11,230	42,993	5%
14703	Browns Valley Rd & First St	7,000,000			7,000,000	1,455,620	1,266,087	4,278,293	18%
17704	Infltrtn Rehab - SSMH/PL (CI-)	-	25,500		25,500	-	-	25,500	-
18701	I&I Smoke Testing	150,000			150,000	14,071	28,680	107,249	19%
18702	Collection System Asset Management Software	-	443,550		443,550	211,700	226,981	4,869	51%
18703	Upper Lateral Rehab - Basin L (Pilot) #3	166,300	3,200		169,500	-	63,402	106,098	37%
18706	Sewer System Inflow/Infiltration 2019	3,538,100	313,850		3,851,950	-	3,577,130	274,820	93%
19701	66-inch Trunk Rehabilitation (Kaiser to IPS)	4,000,000	450,000		4,450,000	228,396	363,457	3,858,147	8%
19703	2020 Collection System Rehabilitation	3,169,600	9,800		3,179,400	2,259,949	838,041	81,410	26%
19727	Collection System Master Plan	1,071,200	632,350	(5,000)	1,698,550	61	536,860	1,161,629	32%
20701	Upper Lateral Rehab - Pilot #5	5,000			5,000	-	50	4,950	1%
20702	Manhole Rehabilitation	250,000			250,000	39,230	153,777	56,993	62%
20703	2021 Collection System Rehabilitation	20,000			20,000	-	3,457	16,543	17%
	<u>COLLECTION SYSTEM - EQUIPMENT</u>								
20704	Locatable Mini-Camera #3 Replacement	11,900		(200)	11,700	-	9,382	2,318	80%
20705	Eel Replacement #2	5,900		200	6,100	-	5,688	412	93%
20725	Venturi Jetter Nozzle	-		6,000	6,000	-	5,970	30	100%
	<u>COLLECTION SYSTEM - LIFT STATIONS</u>								
17711	West Napa PS - Rehab	5,500,000			5,500,000	2,704,646	953,574	1,841,780	17%
19705	Stonecrest PS Pump Rebuild	-	40,100		40,100	-	15,266	24,834	38%
	<u>TREATMENT - PROJECTS</u>								
13745	Pond 1 Dredge	2,100,000	237,150		2,337,150	1,871,312	393,424	72,414	17%
18736	Treatment Plant Project 2018	-	15,000		15,000	10,901	139	3,961	1%
18740	Treatment Plant Project 2019	600,000	672,700		1,272,700	63,148	1,207,890	1,662	95%
19717	WWTP MP - Pond Transfer Structures 2 to 3	-	259,700		259,700	-	12,800	246,900	5%
20706	WWTP Master Plan	5,000		5,000	10,000	-	9,057	943	91%
20707	Pond Levee Repair	100,000			100,000	2,015	90,851	7,134	91%
20708	2020 Treatment Plant Improvements Project	1,500,000			1,500,000	61,761	92,401	1,345,838	6%

**Summary of NSD Capital Project Status
through 06-30-20 as of 7/29/2020**

Proj #	Description	FY 19/20 Budget	FY 18/19 Carry Forwards	Adj.	Final FY 19/20 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
20724	River Park PS FM Replacement			100,000	100,000	-	71,123	28,877	71%
	<u>TREATMENT - EQUIPMENT</u>								
13735	Dual Fuel Boiler Burner	-	121,550		121,550	32,908	65,815	22,828	54%
15707	Main - DAFT Overflow Pumps (2) Cornell	11,900			11,900	-	-	11,900	-
15711	Rotork Actuator Replacement	-	7,600		7,600	-	-	7,600	-
16712	Main - Primary Clarifier Mech/Struct Rehabilitation	814,000	152,300		966,300	363,502	576,116	26,681	60%
17715	Turbidimeters (7) Tertiary Rplcmnts	-	16,000		16,000	-	-	16,000	-
17726	Headworks Equipment Rehab/Replacment	1,000,000	667,600		1,667,600	139,622	1,426,899	101,079	86%
18711	3W Strainer	-	24,350		24,350	-	-	24,350	-
18715	Muffle Furnace - Replacement	-	5,000		5,000	-	4,321	679	86%
18716	Rotork Actuator Replacement	-	6,400		6,400	-	-	6,400	-
18719	Filter Flow Control - Rotork Valves	-	9,900		9,900	-	-	9,900	-
18720	Neuros Blowers Rebuild	-	64,300		64,300	-	-	64,300	-
18722	FOG Station Water Heater	20,000	5,000		25,000	-	-	25,000	-
19706	WWTP MP - 3W System Improvements Phase 2	-	295,600	(41,100)	254,500	-	110	254,390	0%
19708	Main - Rotork Actuator Replacement	-	95,000		95,000	24,760	19,115	51,125	20%
19709	Main - Polymer Tank (3) Replacement	-	10,000		10,000	-	-	10,000	-
19710	Main - 12kV Redundant Line	-	119,150		119,150	40,149	35,515	43,486	30%
19712	Main - Utility Generator Power Transition	-	35,000		35,000	-	-	35,000	-
19713	Main - Cogen Hot Water to FOG Pad	-	50,000		50,000	-	-	50,000	-
19715	Main - ARV Replacement	31,100			31,100	-	26,375	4,725	85%
20709	Main - AB Caustic Pumps & Enclosure	85,700			85,700	13,071	17,131	55,498	20%
20710	Main - Septage Pump & Motor Replacement	28,700		2,000	30,700	4,693	25,770	236	84%
20711	Main - Marsh-to-Pond Pump Station Upgrade	88,700			88,700	-	1,176	87,524	1%
20712	Main - Grit Pump Rebuild	60,000		(2,000)	58,000	4,693	25,757	27,550	44%
20713	Main - Elevator Control Update	400,000			400,000	-	-	400,000	-
20714	Main - Flare Rebuild	50,000			50,000	-	-	50,000	-
20715	Main - Concrete Pipe Chase Covers	80,000			80,000	-	-	80,000	-
20716	Plant Door Replacement - Phase 1	22,200			22,200	-	-	22,200	-
20717	Vehicle 163 - Ford Ranger (Replace w/ F-150)	33,300			33,300	-	32,768	532	98%
20718	Vehicle 162 - Ford F-250 Diesel	43,600		1,100	44,700	-	44,655	45	100%
20719	Vehicle 206 - Forklift TH103 (Telehandler)	103,100			103,100	-	-	103,100	-
	<u>LAB - EQUIPMENT</u>								
20720	Lab - Sampler 4700 Replacement (2)	20,000			20,000	-	14,596	5,404	73%

**Summary of NSD Capital Project Status
through 06-30-20 as of 7/29/2020**

Proj #	Description	FY 19/20 Budget	FY 18/19 Carry Forwards	Adj.	Final FY 19/20 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
						-			
	<u>SCADA</u>					-			
18729	SCADA MP Project #1 - Network Monitoring	-	46,200		46,200	-	-	46,200	-
19718	SCADA MP Phase 5 Security Study	-	88,250		88,250	6,712	36,420	45,118	41%
	<u>RECYCLING - PROJECTS</u>								
13727	North Bay Wate Reuse Project	150,000			150,000	-	13,433	136,567	9%
18730	Jameson 24" Flow Meter Rehab	-	6,200		6,200	-	-	6,200	-
18731	Coombsville Truck Fill Station	300,000	144,400		444,400	48,263	332,320	63,817	75%
19719	24-inch Valve Replacement - Kirkland Line	-	5,000		5,000	-	-	5,000	-
19720	Jameson PS VFD	-	68,900	(68,900)	-	-	-	-	-
20721	Kirkland Recycled Water Pipeline Rehabilitaton	60,000		10,000	70,000	6,713	57,140	6,147	82%
	<u>RECYCLING - EQUIPMENT</u>								
19722	Vehicle 723/720 - Attachments/Implements	29,700		(29,700)	-	-	-	-	-
20722	Badger Meter Replacement	80,000			80,000	-	-	80,000	-
20723	CT-5 Composter (Ag-Bag)	-	-	29,700	29,700	-	-	29,700	-
								-	
	<u>OTHER</u>							-	-
13729	Development Technical Support	337,000			337,000	-	278,313	58,687	83%
19723	AV System Replacement - Conference Rooms	-	20,000		20,000	-	-	20,000	-
19725	Vehicle 011 - CSET Trailer	-	7,100	(1,100)	6,000	-	3,800	2,200	63%
		\$33,873,300	\$5,173,700	-	\$39,047,000	\$9,775,375	\$13,329,773	\$15,941,855	34%