



Napa Sanitation District

General Manager's Report

for

May 2020

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NAPA SANITATION DISTRICT

General Manager's Report

DATE: July 15, 2020

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for May 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 – May 31, 2020
Percent Fiscal Year:	91.73%
Operating Expenditures to date:	61.6%
Historical Expenditures to date:	85.0%
Significant Comments:	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 May 2020 in the Human Resources Department:

New Hires:	None
Separations:	None
Promotions:	Brad Cagle promoted to Collection System Worker I
Recruitment Activities:	None
Injuries:	None

COLLECTIONS:

Significant events for the month of May 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 2 cleanouts and repaired 1. They also lined 4 laterals. Additionally, the service response/programs crew completed 84 work orders in support of the grease and odor control program, responded to 37 customer requests for service (9 were NSD problem) and closed out 274 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 56 laterals, cleaned approximately 180,300.5 feet of main line and CCTV inspected 16 laterals. In addition, the CCTV truck televised 27,648.8 feet of mainline.

TREATMENT PLANT:

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

Plant Operations:

- For May 2020, the plant's influent flow was 201.2 MG as compared to last year flow for May 2019 of 275.4 MG
- There was 1.40" rainfall for May 2020 (Carneros Rainfall Center) as compared to 2.39" rainfall for May 2019.
- Pond 4 end of the month recorded level reading was 56.25".

Power Consumption and Production:

- May 2020 power purchased from PG&E was 377 MWH in comparison to May 2019 purchase of 317 MWH.
- Cogeneration unit ran 713 of 744 hours for the month – 95.83% uptime, averaging 258.10 Kw, producing 184 MWH of energy.
- Solar generation in May 2020 was 193 MWH, compared to 162 MWH in April and 178 MWH in May 2019.

Maintenance:

Significant events for the month of May 2020:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Annual Source test of Cogeneration unit by BAAQMD/in compliance
- Aeration Basin #3/replaced #2 RAS pump
- Replaced Primary Clarifier #1 drain valve
- Gallery Sump #1/replaced pump
- Replaced sump pump at West Napa Pump Station
- Aeration Basin #3 compartment #5/replaced mixer
- Replaced H2S Sensors in Headworks and West Napa Pump Station south wetwell

Projects

- Installed condensate traps on Flare and Gas Compressor

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:

- May 5, 2020: Metals, Mercury, Cyanide

RECYCLING:

Significant events in the Recycling Department for May 2020 include:

- Recycled water delivered for the month of May 2020 was (100.633 million gallons), as compared to May 2019 (50.447 million gallons) is higher from the previous year due to vineyard irrigation, golf course and truck hauling. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- 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 May 2020 include:

- There were no presentations or tours given in the month of May due to the COVID-19 pandemic.
- No medication was collected in May. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 22,118.2 pounds. Staff is working with the City of Napa Police Department to find a space for a centrally located drug takeback bin.
- Outreach was conducted to residents regarding the Summer 2020 Collection System Rehabilitation Project. Letters were sent notifying residents of upcoming work and weekly email/text notifications were sent to all residents on the project mailing list.
- Staff conducted outreach regarding the Browns Valley Trunk Project. Staff met with the Napa Bicycle Coalition, NVTa, NRWS, and Juvenile Hall staff to provide project information and anticipate and mitigate project impacts. Letters were sent to all residents along the project alignment. Weekly text and email updates were sent to all those on the project mailing list. Project updates have also been posted to NapaSan and the City of Napa's Facebook pages along with the City of Napa e-newsletter.
- Staff has been on the Public Information Officer calls every Monday, Wednesday, and Friday to learn and share messages regarding the coronavirus.
- Staff also worked with to create outreach pieces regarding the sewer service charge increase. Sewer service charge increase letters were finalized and mailed to all customers in NapaSan's service area.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

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

- Consultants and staff continued work on the CMMS implementation.
- Contractor began mobilizing for 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 completed construction of the Headworks Equipment Replacement Project.
- Contractor completed construction of the Southeast Napa Sewer and Roadway Rehabilitation 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.
- 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 reviewed proposals and scheduled interviews with consultants for the Wastewater Treatment Plant Master Plan.
- Staff reviewed 39 sets of development plans and deemed 13 sets of plans complete. The approved plans consisted of 7 residential dwellings, 1 residential lateral, 1 tenant improvement, 1 recycled water lateral, 1 commercial lateral, and 1 commercial building.

Budget Status & Cash Summary - July 1, 2019 - May 31, 2020 (91.7% of the year)

<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	\$8,585,508	\$8,585,508	\$1,673,092	83.7%
Services & Supplies	6,281,200	759,683	4,549,429	5,309,112	972,088	84.5%
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	\$759,683	\$17,759,681	\$18,519,363	\$11,556,587 (2)	61.6%
Capital						
Bldgs/Improvements & Equip	\$39,047,000	\$12,333,617	\$9,699,762	\$22,033,379	\$17,013,621 (3)	56.4%
Intrafund Transfers	5,178,000	-	3,973,729	3,973,729	1,204,271	76.7%
Total Capital :	\$44,225,000	\$12,333,617	\$13,673,491	\$26,007,108	\$18,217,892	58.8%
Grand Total Expenditures:	\$74,300,950	\$13,093,300	\$31,433,172	\$44,526,472	\$29,774,478	59.9%

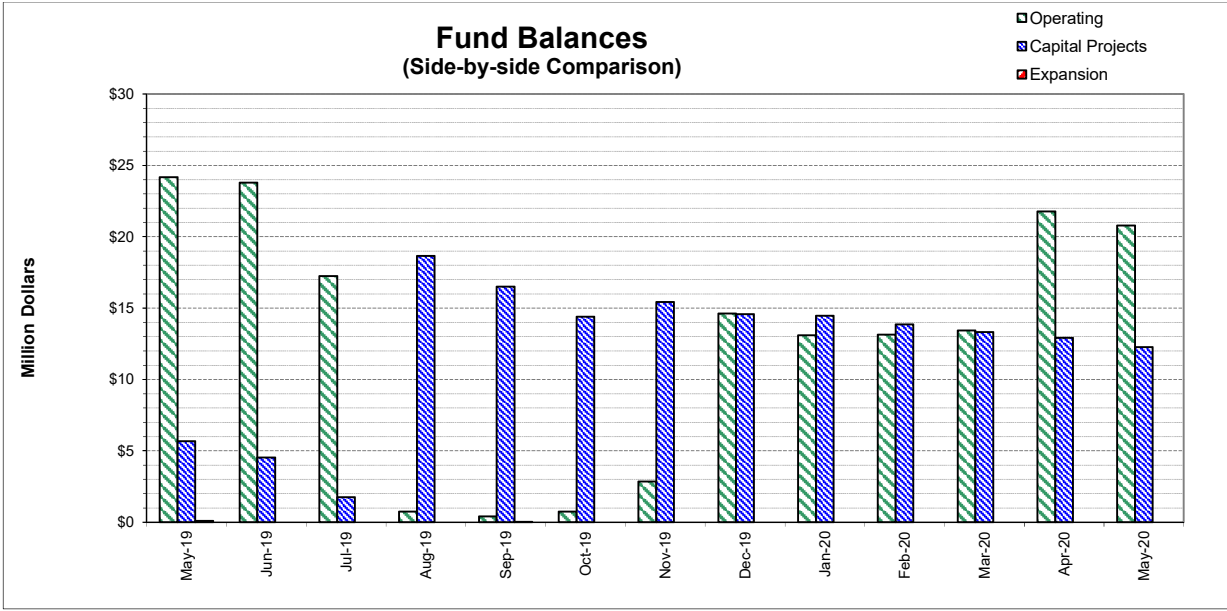
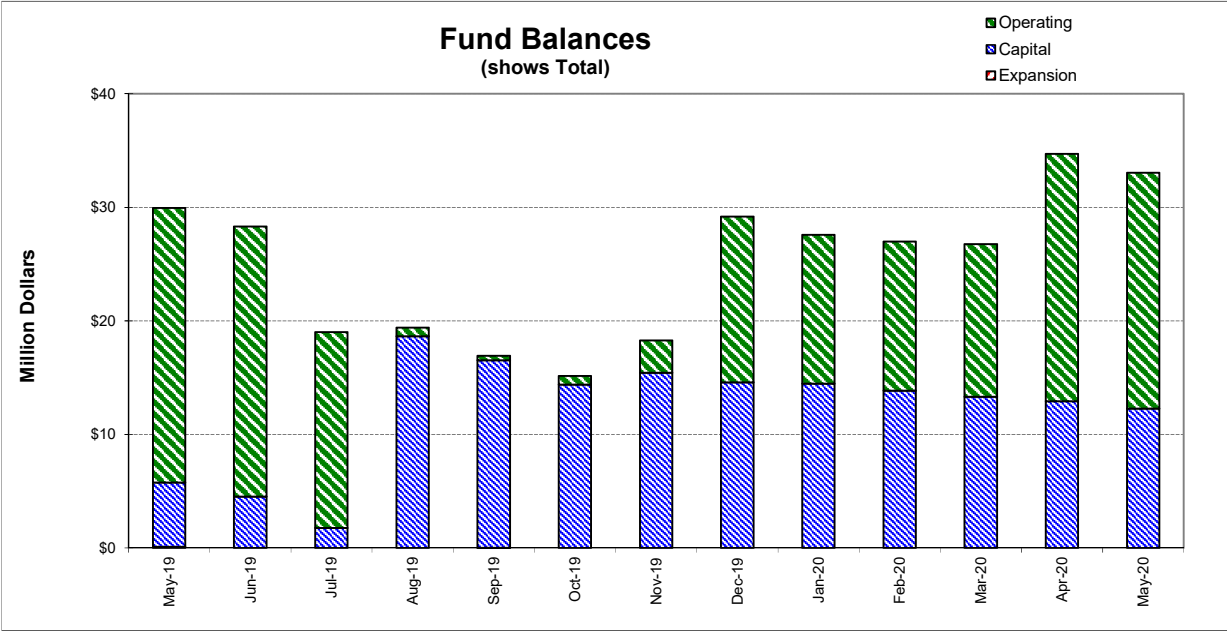
<i>Revenues</i>	FY 19/20 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
Operating						
Use of Money/Property	\$578,000		\$1,133,739	\$1,133,739	(\$555,739) (4)	196.1%
Charges for Services	31,213,500		30,239,767	30,239,767	973,733	96.9%
Miscellaneous Revenues	60,000		51,363	51,363	8,637	85.6%
Donations/Contributions (Capital Labor)	-		697,318	697,318	(697,318) (5)	N/A
Total Operating:	\$31,851,500		\$32,122,187	\$32,122,187	(\$270,687)	100.8%
Capital						
Use of Money/Property	\$0		\$3,706	\$3,706	(\$3,706)	N/A
Capacity Charges	5,178,000		3,703,571	3,703,571	1,474,429	71.5%
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		3,973,729	3,973,729	10,104,271	28.2%
Total Capital:	\$34,702,600		\$7,976,321	\$7,976,321	\$26,726,279	23.0%
Grand Total Revenue:	\$66,554,100		\$40,098,508	\$40,098,508	\$26,455,592	60.2%

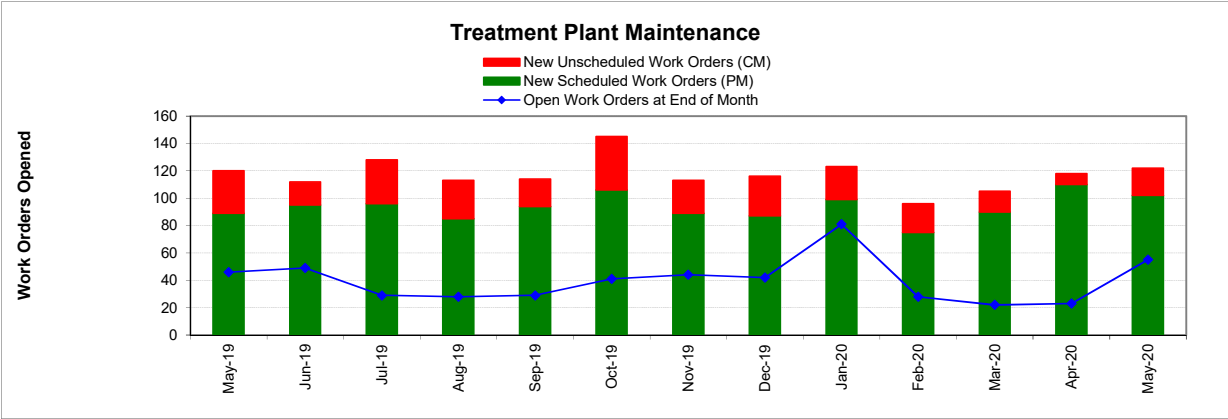
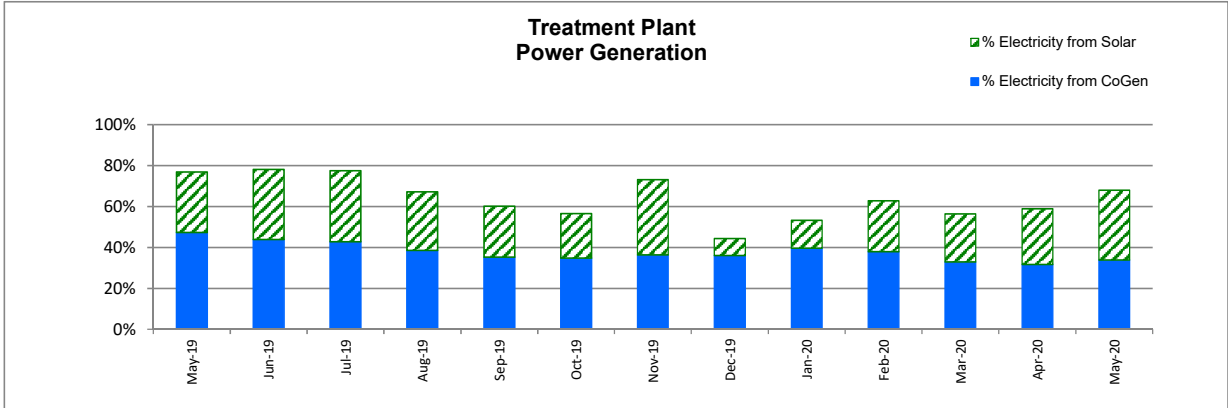
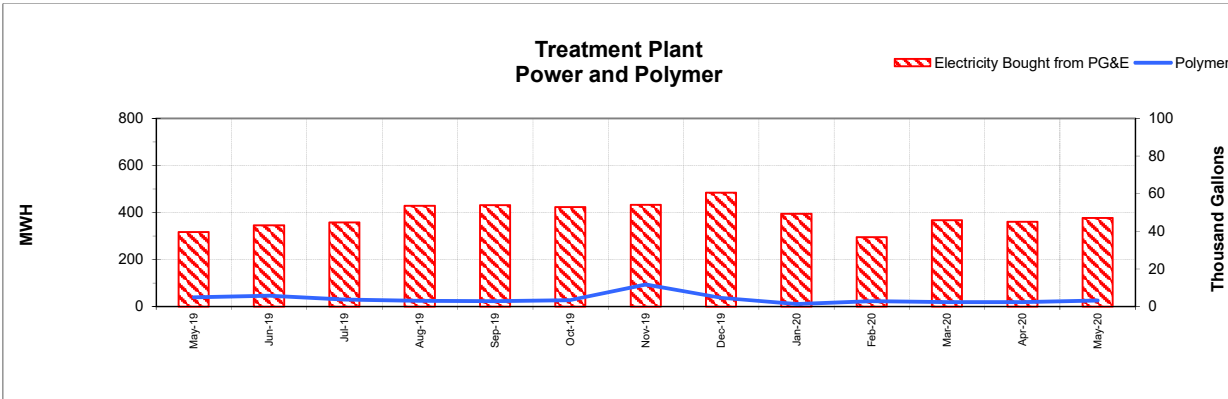
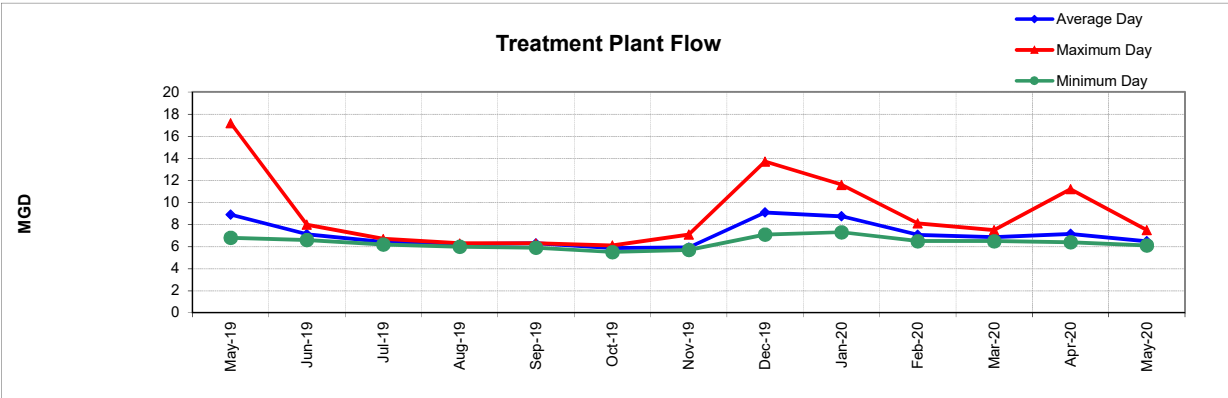
Cash on Hand as of 5/31/20 **\$33,054,760**

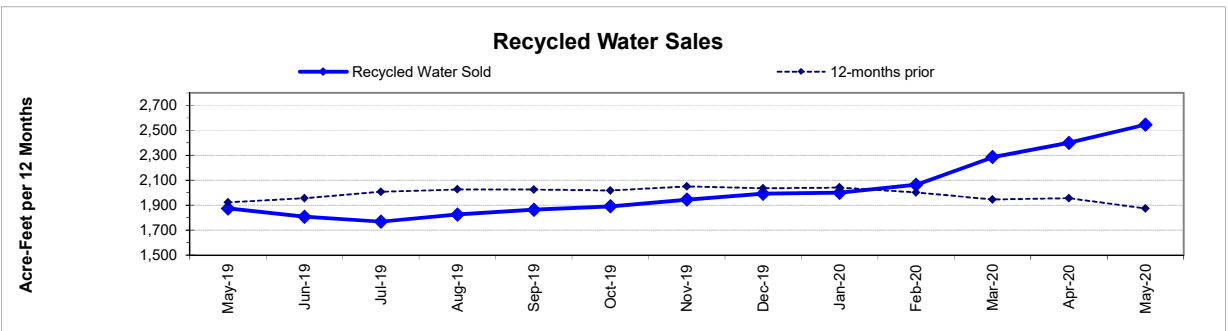
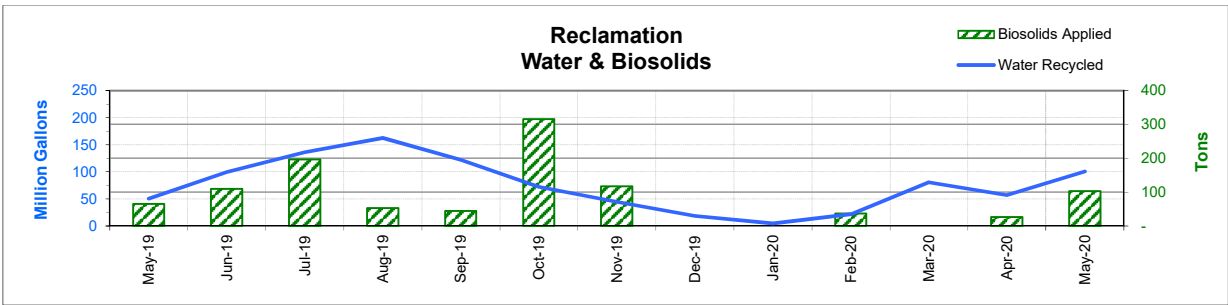
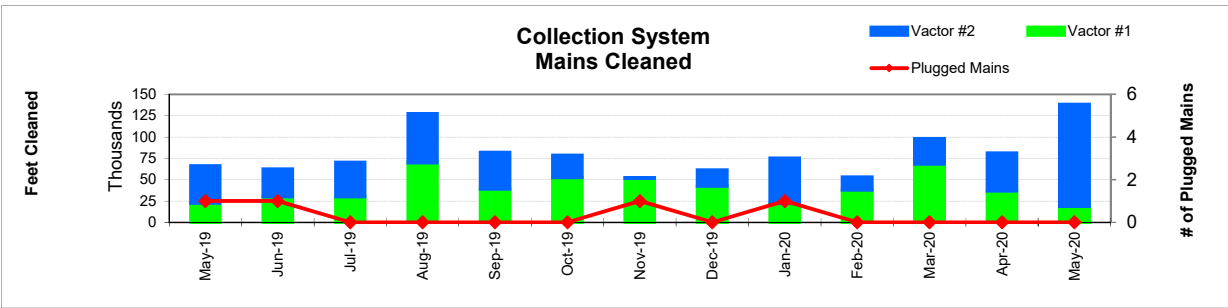
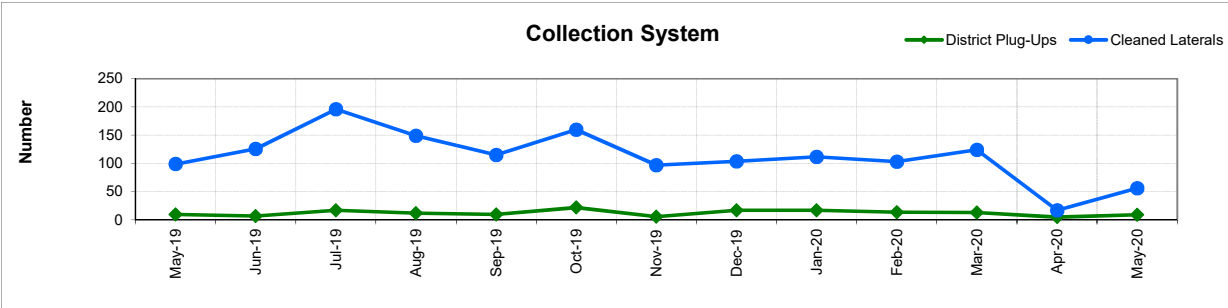
**excluding Debt Service restricted funds

5/31/20 -Effective Rate of Return = 1.76%

1. Series 2012A's and 2017's principal/interest payments are made in Jul & Jan
2. Includes Debt Service and Intrafund Transfers; otherwise is 84.0%
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	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
<i>(Thousand Dollars)</i>													
7800	24,164	23,784	17,246	748	415	753	2,858	14,616	13,107	13,136	13,427	21,767	20,787
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	24,164	23,784	17,246	748	415	753	2,858	14,616	13,107	13,136	13,427	21,767	20,787
Capital Improvement Projects	5,671	4,525	1,764	18,655	16,516	14,400	15,430	14,579	14,477	13,860	13,326	12,924	12,268
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	5,671	4,525	1,764	18,655	16,516	14,400	15,430	14,579	14,477	13,860	13,326	12,924	12,268
Total Discretionary Funds	29,835	28,309	19,010	19,403	16,931	15,153	18,288	29,195	27,584	26,996	26,753	34,691	33,055
Expansion Fund (Restricted)	93	-	-	-	2	-	-	-	-	-	-	-	-
Total Restricted Funds	93	-	-	-	2	-	-	-	-	-	-	-	-
TOTAL ALL FUNDS	29,928	28,309	19,010	19,403	16,933	15,153	18,288	29,195	27,584	26,996	26,753	34,691	33,055

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
<u>Phone Requests</u>													
Maps/Drawings	17	8	1	-	4	-	11	4	6	5	2	3	1
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	10	6	8	1	4	2	2	-	2	5	5	-	-
Development Questions	79	64	43	29	38	32	40	29	32	38	29	24	36
Miscellaneous	29	18	25	16	18	29	13	24	10	12	8	5	6
TOTAL	135	96	77	46	64	63	66	57	50	60	44	32	43
<u>Counter Requests</u>													
Maps/Drawings	-	-	1	-	-	1	-	-	-	-	-	-	-
Lateral Permits	11	7	8	12	13	7	7	8	5	19	20	7	10
Policy Questions	-	-	-	-	-	-	1	-	-	-	1	-	-
Development Questions	7	10	3	4	13	4	7	7	4	2	2	-	-
Miscellaneous	2	0	0	1	0	-	-	-	1	1	1	-	-
TOTAL	20	17	12	17	26	12	15	15	10	22	24	7	10
<u>Initial Request (Referrals)</u>	20	9	14	16	13	13	11	9	9	13	8	7	4
<u>Connection Permits Issued</u>													
Residential Permits	6	3	2	14	2	5	3	0	9	22	6	6	14
Commercial Permits	3	1	6	1	2	1	3	1	1	-	2	1	-
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	9	4	8	15	4	6	6	1	10	22	8	7	14
Residential Units	6	3	6	14	2	22	5	0	11	13	6	56	20
Commercial Units	3	1	2	1	2	1	133	1	1	-	2	1	-
TOTAL UNITS	9	4	8	15	4	23	138	1	12	13	8	57	20
<u>Annexations</u>													
Submitted	1	-	1	-	-	1	-	-	-	-	-	1	-
Acreage	0.50	-	16.04	-	-	44.84	-	-	-	-	-	0.50	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	14	8	7	8	8	5	8	24	12	5	12	7	13
Second Submittal	8	6	5	5	2	2	6	6	12	7	4	8	9
Third Submittal	10	5	5	1	3	7	3	6	4	5	3	2	4
<u>Building/Tenant Improvements</u>													
First Submittal	3	9	12	6	6	13	4	3	12	9	9	5	4
Second Submittal	3	4	4	1	4	5	1	4	3	2	6	4	2
Third Submittal	-	7	6	4	3	7	5	3	1	2	5	3	7
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	38	39	39	25	26	39	27	46	44	30	39	29	39

INSPECTION WORKLOAD - MONTHLY

CATEGORY	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
<u>CONSTRUCTION</u>													
Locating Sewers	-	-	-	-	-	-	-	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	7	2	5	11	4	6	1	2	4	4	3	3	-
Inspections - Mains	-	1	5	1	11	-	1	-	-	-	-	-	6
Inspections - Manholes	6	7	13	12	77	1	6	3	9	16	37	-	6
Inspections - Laterals	8	27	40	15	5	12	22	10	15	8	13	48	32
Inspections - Cleanouts	43	24	59	43	7	54	33	44	26	32	35	90	4
Inspections - Review Video	1	1	-	-	2	-	1	-	1	2	4	2	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	-	-	-	-	-	-	-	-	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	65	62	122	82	106	73	64	59	55	62	92	143	48
<u>MISCELLANEOUS</u>													
Meter Readings	14	-	-	-	-	-	-	-	59	1	-	4	-
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	16	-	-	32	31	12	12	-	6	9	15	14	24
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	30	-	-	32	31	12	12	-	65	10	15	18	24
<u>SPECIAL PROJECTS</u>													
	21	40	25	22	35	23	19	30	10	0	11	26	23

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
<u>Outreach Activities</u>													
Plant Tours Conducted	1	6	1	0	0	2	5	0	3	2	0	0	0
Presentations Made	1	2	0	0	0	5	7	0	1	0	1	0	0
Total Outreach Activities	2	8	1	-	-	7	12	-	4	2	1	-	-
<u>Inspections Conducted</u>													
Food Service Facilities	21	-	-	1	-	-	-	1	1	62	21	-	-
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Inspections	21	-	-	1	-	-	-	1	1	62	21	-	-
<u>Compliance Issues</u>													
NOVs Issued	2	1	-	1	1	1	3	-	2	-	-	-	-
NOEs Issued	-	-	-	-	-	-	1	-	2	1	1	1	1
Non-Compliant-FOG	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Compliance Issues	2	1	-	1	1	1	4	-	4	1	1	1	1
<u>Pollution Prevention</u>													
Clothes Washer Rebates	-	2	-	-	-	-	-	-	-	-	-	-	-
Toilet Retrofit Rebates	-	-	-	-	-	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	45	73	132	-	-	77	-	44	-	-	-	-	-

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
MONTHLY (MG)														
<u>Water Sold</u>														
Golf Courses	638.0	25.976	58.629	69.590	65.339	49.784	31.724	16.340	0.007	0.001	12.483	20.366	24.765	52.367
Cemeteries	57.1	3.671	3.658	5.515	5.659	4.822	4.061	3.028	0.250	0.222	0.514	3.078	3.422	3.965
Parks	18.5	0.263	0.843	0.939	1.219	1.111	0.615	0.028	-	-	-	0.001	-	0.271
Schools	12.6	0.988	1.655	2.196	1.712	1.635	1.312	0.792	0.085	0.044	0.157	0.685	0.716	2.146
Commerical	166.5	10.516	12.142	18.578	17.787	15.775	13.443	11.762	2.254	0.986	3.194	9.822	9.213	13.672
Vineyards	3,442.0	6.107	10.475	20.951	42.981	27.367	13.852	7.027	15.494	3.170	5.250	46.305	17.728	19.191
Trucked Water	175.0	0.421	0.533	1.293	1.374	1.425	1.401	1.097	0.476	0.227	0.134	0.415	1.147	3.612
Subtotal Sales	4,509.6	47.943	87.935	119.063	136.071	101.920	66.409	40.073	18.567	4.650	21.732	80.671	56.990	95.224
<u>District Use</u>														
Jameson	330.0	-	-	-	0.470	-	-	-	-	0.024	-	-	-	-
Somky	213.0	2.504	11.985	17.012	25.944	20.394	6.391	4.513	-	0.006	0.050	0.026	0.080	5.408
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	2.504	11.985	17.012	26.413	20.394	6.391	4.513	-	0.030	0.050	0.026	0.080	5.408
TOTAL DELIVERED	5,103.1	50.447	99.920	136.074	162.484	122.314	72.800	44.586	18.567	4.681	21.783	80.697	57.070	100.633
ANNUAL (AF)														
<u>Water Sold</u>														
Golf Courses	638.0	909	880	897	921	939	963	1,003	1,003	1,003	1,042	1,104	1,151	1,232
Cemeteries	57.1	93	93	95	97	99	102	102	101	100	102	110	116	117
Parks	18.5	13	13	13	14	16	17	15	15	15	15	15	15	15
Schools	12.6	35	33	34	33	33	33	33	33	33	33	35	37	40
Commerical	166.5	343	342	350	346	342	323	336	337	336	344	372	385	395
Vineyards	3,442.0	470	436	367	399	418	431	431	477	486	500	621	665	705
Trucked Water	175.0	11	11	13	15	18	22	24	25	26	26	27	31	40
Subtotal Sales	4,509.6	1,874	1,808	1,768	1,824	1,864	1,891	1,944	1,992	2,000	2,063	2,285	2,400	2,545
<u>District Use</u>														
Jameson	330.0	15	15	15	16	1	1	1	1	2	2	2	2	2
Somky	213.0	143	139	191	261	276	259	272	272	272	273	273	273	282
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	158	154	206	277	277	260	274	274	274	274	274	274	283
TOTAL DELIVERED	5,103.1	2,032	1,962	1,974	2,101	2,141	2,151	2,218	2,266	2,273	2,337	2,559	2,674	2,828

BIOSOLIDS HANDLING - MONTHLY

Site	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
<u>Land Applied by NSD</u>													
Somky	65	109											
Fagundes					44								
Jameson Canyon	-	-	197	52		316	117	-	-	37	-	26	103
Subtotal by NSD	65	109	197	52	44	316	117	-	-	37	-	26	103
<u>Land Applied by Contractor</u>													
Somky													
Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	65	109	197	52	44	316	117	-	-	37	-	26	103
Off Site (Contractor)													
Total (tons)	65	109	197	52	44	316	117	-	-	37	-	26	103

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
<u>Plugups</u>													
Total Calls	46	40	45	46	45	68	38	60	68	39	35	31	37
Business Hours	28	31	33	30	36	51	28	37	42	25	22	23	25
After Hours	18	9	12	16	9	17	10	23	22	14	13	8	12
District's	10	7	17	12	10	22	6	17	17	14	13	5	9
Property Owner's	35	32	26	34	32	43	32	42	46	24	22	26	28
Plugged Main Lines	1	1	-	-	-	-	1	-	1	-	-	-	-
Run Lateral w/Eel	99	126	196	149	115	160	97	104	112	103	124	17	56
<u>Cleaning (feet of sewer)</u>													
Vactor #1	22,498	30,232	30,283	69,780	38,969	52,711	51,764	42,519	22,372	37,916	68,243	36,849	18,947
Vactor #2	43,466	32,180	39,800	57,405	43,059	25,762	610	18,811	52,620	15,049	29,691	44,336	119,112
Hydro													42,241
Rodder								558	-	-		2,915	-
Total (feet)	65,964	62,412	70,083	127,185	82,028	78,473	52,374	61,888	74,993	52,965	97,933	84,100	180,301
<u>Cleaning Days</u>													
Vactor #1	10	12	12	18	18	20	18	17	10	15	16	10	9
Vactor #2	19	15	16	21	15	8	1	10	16	5	8	11	17
Hydro													4
Rodder								2				2	
Feet/day	2,250	2,300	2,500	3,250	2,500	2,800	2,750	2,150	2,900	2,650	4,100	3,650	6,000
Vactor #1	2,250	2,500	2,500	3,900	2,150	2,650	2,900	2,500	2,250	2,550	4,250	3,700	2,100
Vactor #2	2,300	2,150	2,500	2,750	2,850	3,200	600	1,900	3,300	3,000	3,700	4,050	7,000
Hydro													10,550
Rodder								300			-	1,450	
<u>Video Inspections</u>													
Mains (feet)	24,716	23,914	32,551	40,819	22,837	17,404	10,825	-	13,832	30,961	26,158	6,798	27,649
Laterals (each)	173	177	254	214	190	247	165	182	188	180	206	75	109
<u>Construction (each)</u>													
Cleanouts	12	24	15	17	15	20	10	4	8	15	15	1	3
Laterals	13	12	14	16	16	10	9	10	10	8	4	-	4
Mains			-	-		-		-	1	-	-	-	-
Manholes			-	2		2		-		-	5	-	-
Other											-	-	-
<u>USA Markings</u>													
Regular (w/in 2 days)	338	292	378	363	331	332	224	290	271	423	232	258	260
Emergency (w/in 2 hours)	20	24	21	28	23	21	7	21	22	9	11	36	14

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
FLOWES		31	30	31	31	30	31	30	31	31	29	31	30	31
Influent	MG	275.4	213.6	199.3	192.5	182.1	181.6	177.6	281.6	271.0	204.9	212.9	214.3	201.2
Average Day	MGD	8.9	7.1	6.4	6.2	6.3	5.9	5.9	9.1	8.7	7.1	6.9	7.1	6.5
Maximum Day	Date	19-May	1-Jun	2-Jul	29-Aug	2-Sep	29-Oct	27-Nov	7-Dec	16-Jan	1-Feb	19-Mar	5-Apr	18-May
Maximum Day Flow	MG	17.2	8.0	6.7	6.3	6.3	6.1	7.1	13.7	11.6	8.1	7.5	11.2	7.5
Minimum Day	Date	14-May	27-Jun	24-Jul	6-Jan	24-Sep	10-Oct	1-Nov	17-Dec	7-Jan	25-Feb	12-Mar	30-Apr	10-May
Minimum Day Flow	MG	6.8	6.6	6.2	6.0	5.9	5.5	5.7	7.1	7.3	6.5	6.5	6.4	6.1
Effluent	MG	55.5	108.7	128.8	167.8	123.5	78.4	309.7	344.4	286.6	204.0	133.7	236.6	110.0
River Discharge	MG	-	-	-	-	-	-	265.0	323.2	271.3	177.3	77.9	174.6	-
Recycled Flow	MG	55.5	108.7	128.8	167.8	123.5	78.4	44.6	21.2	15.3	26.7	55.7	58.6	98.3
BIOSOLIDS	Tons	493	506	624	830	714	750	762	769	643	523	685	638	473
Wet Tons Generated from Pond	Tons													-
Wet Tons Generated from Plant	Tons	493	506	624	830	714	750	762	769	643	523	685	638	473
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
POLYMER USE	Gallons	5,053	5,921	3,745	3,153	3,038	3,499	11,780	4,681	1,363	3,036	2,498	2,490	3,271
Pond Pre-Flocculators	Gallons	288	224	494	326	257	540	6,311	2,114	-	217	-	-	-
Flocculator Polymer 1	Gallons	-	-	-	-	-	-	-	-	-	-	-	-	-
Flocculator Polymer 2	Gallons	79	-	119	61	86	203	427	382	206	37	146	301	-
Filter Polymer 1	Gallons	4,100	5,102	2,499	1,963	1,832	1,841	4,401	1,378	354	2,128	1,608	1,463	2,874
Filter Polymer 2	Gallons	-	-	-	-	-	-	-	-	-	-	120	179	-
Belt Presses	Gallons	586	595	633	803	863	915	641	807	803	654	624	547	397
ENERGY														
Total Electricity Used	MWH	601	616	625	698	688	648	680	759	654	547	607	594	570
Purchased from PGE	MWH	317	346	358	429	431	423	433	485	395	295	368	361	377
Produced from Co-Gen	MWH	284	270	267	269	257	225	247	274	259	252	239	233	193
Percent Produced	%	47%	44%	43%	39%	35%	35%	36%	36%	40%	38%	33%	32%	34%
Purchased from Solar	MWH	178	211	217	200	171	141	98	62	89	136	142	162	194
Percent Produced	%	30%	34%	35%	29%	25%	22%	37%	8%	14%	25%	23%	27%	34%
Purchased Natural Gas	Therms	1,431	1,727	2,028	1,180	1,222	1,633	1,800	2,220	1,795	1,595	2,140	1,737	1,437
Methane Flared Off	MCF	164	324	282	251	126	220	214	593	88	190	731	137	18
Stand By Calls	#	80	67	64	50	50	59	88	66	65	47	51	39	72
Violations	#	-	-	-	-	-	-	-	-	-	-	-	-	-

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
<u>Scheduled</u>													
Old	15	25	31	7	7	8	17	24	23	49	5	6	9
New	89	95	96	85	94	106	89	87	99	75	90	110	102
Completed	79	89	120	85	93	97	82	88	73	119	89	107	72
New Balance	25	31	7	7	8	17	24	23	49	5	6	9	39
<u>Unscheduled</u>													
Old	22	21	18	22	21	21	24	20	19	32	23	16	14
New	31	17	32	28	20	39	24	29	24	21	15	8	20
Completed	32	20	28	29	20	36	28	30	11	30	22	10	18
New Balance	21	18	22	21	21	24	20	19	32	23	16	14	16
<u>Total Work Orders</u>													
Old	120	46	49	29	28	29	41	44	42	81	28	22	23
New	11	112	128	113	114	145	113	116	123	96	105	118	122
Completed	46	109	150	113	113	133	110	116	84	149	112	118	90
New Balance	46	49	29	28	29	41	44	42	81	28	22	23	55
<u>LAB ANALYSES</u>													
Sample Type													
Regulatory	190	138	129	149	142	147	240	176	157	192	213	237	140
Process Control	760	770	869	838	818	893	1,010	1,072	1,208	1,039	1,058	1,015	708
Special Request	1	15	1	22	26	46	38	16	-	32	16	12	20
Quality Control/Assurance	812	539	632	600	607	774	957	839	923	1,324	1,043	1,058	595
TOTAL	1,763	1,462	1,631	1,609	1,593	1,860	2,245	2,103	2,288	2,587	2,330	2,322	1,463

**Summary of NSD Capital Project Status
through 05-31-20**

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			60,000	-	17,300	42,700	29%
13702	Manhole Raising/Rehabilitation	332,600			332,600	-	160,565	172,035	48%
13703	Lateral Replacement/Rehabilitation	110,000		40,000	150,000	-	114,033	35,967	76%
13704	Cleanouts Installation/Rehabilitation	107,000		(40,000)	67,000	-	46,249	20,751	69%
13705	Inflow & Infiltration (I&I) Reduction Program	221,700			221,700	167,477	11,151	43,072	5%
14703	Browns Valley Rd & First St	7,000,000			7,000,000	1,725,662	150,510	5,123,828	2%
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	228,255	206,367	8,928	47%
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	-	3,571,639	280,311	93%
19701	66-inch Trunk Rehabilitation (Kaiser to IPS)	4,000,000	450,000		4,450,000	255,165	332,509	3,862,326	7%
19703	2020 Collection System Rehabilitation	3,169,600	9,800		3,179,400	2,790,811	283,928	104,660	9%
19727	Collection System Master Plan	1,071,200	632,350		1,703,550	83,544	450,047	1,169,959	26%
20701	Upper Lateral Rehab - Pilot #5	5,000			5,000	-	50	4,950	1%
20702	Manhole Rehabilitation	250,000			250,000	39,230	153,633	57,137	61%
20703	2021 Collection System Rehabilitation	20,000			20,000	-	1,160	18,840	6%
	<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%
	<u>COLLECTION SYSTEM - LIFT STATIONS</u>								
17711	West Napa PS - Rehab	5,500,000			5,500,000	3,392,939	258,564	1,848,497	5%
19705	Stonecrest PS Pump Rebuild	-	40,100		40,100	34,600	15,266	(9,766)	38%
	<u>TREATMENT - PROJECTS</u>								
13745	Pond 1 Dredge	2,100,000	237,150		2,337,150	2,203,119	55,680	78,351	2%
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	65,375	1,205,455	1,870	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	-	4,986	14	100%
20707	Pond Levee Repair	100,000			100,000	50,000	2,195	47,805	2%
20708	2020 Treatment Plant Improvements Project	1,500,000			1,500,000	57,959	46,450	1,395,591	3%
20724	River Park PS FM Replacement			100,000	100,000	-	71,123	28,877	71%

**Summary of NSD Capital Project Status
through 05-31-20**

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>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	870,703	66,840	28,757	7%
17715	Turbidimeters (7) Tertiary Rplcmnts	-	16,000		16,000	-	-	16,000	-
17726	Headworks Equipment Rehab/Replacment	1,000,000	667,600		1,667,600	146,082	1,419,855	101,663	85%
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	-	19,115	75,885	20%
19709	Main - Polymer Tank (3) Replacement	-	10,000		10,000	-	-	10,000	-
19710	Main - 12kV Redundant Line	-	119,150		119,150	63,205	12,459	43,486	10%
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	-	-	31,100	-
20709	Main - AB Caustic Pumps & Enclosure	85,700			85,700	13,071	17,107	55,522	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	-	670	88,030	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 05-31-20**

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	35,453	46,085	40%
	<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	331,456	64,681	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	24,178	38,567	7,255	55%
	<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	-	248,264	88,736	74%
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	\$12,333,617	\$9,699,762	\$17,013,622	25%