



Napa Sanitation District
General Manager's Report
for
December 2020



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NAPA SANITATION DISTRICT

General Manager's Report

DATE: February 3, 2021

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for December 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, 2020 – December 31, 2020
Percent Fiscal Year:	50.0%
Operating Expenditures to date:	40.8%
Historical Expenditures to date:	52.5%
Significant Comments:	Sewer service charges were received from the first installment payments of the property taxes in December. The second installment will be due in April 2021.

PERSONNEL:

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

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

COLLECTIONS:

Significant events for the month of December 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

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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 5 cleanouts and repaired 2 cleanouts. They also repaired 3 laterals and lined 3 laterals. The repair crew also installed 1 main line spot liner. Additionally, the service response/programs crew completed 123 work orders in support of the grease and odor control program, responded to 59 customer requests for service (13 were NSD problem) and closed out 200 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 69 laterals, cleaned approximately 69,091.8 feet of main line and CCTV inspected 99 laterals. In addition, the CCTV truck televised 18,656.5 feet of mainline.

TREATMENT PLANT:

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

Plant Operations:

- For December 2020, the plant's influent flow was 183.7 MG as compared to last year flow for December 2019 of 266.2 MG
- There was 1.88" rainfall for December 2020 (Carneros Rainfall Center) as compared to 2.93" rainfall for December 2019.
- Pond 4 end of the month recorded level reading was 77.60".

Power Consumption and Production:

- December power purchased from PG&E was 419 MWH in comparison to December 2019 purchase of 485 MWH.
- Cogeneration unit ran 691 of 744 hours for the month – 92.88% uptime, averaging 289.49 KW, producing 200 MWH of energy
- Solar generation in December was 90 MWH, compared to 103 MWH in November and 62 MWH in December 2019.

Maintenance:

Significant events for the month of December 2020:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Cogen Service:
 - Changed oil & sock filters
 - Replaced pre-air filter and main air filter

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- Change Siloxane Filters Media
- Replaced Septage Grinder motor
- FOG Transfer Pump/replaced shaft seal
- Flow Meters annual calibration
- Cogeneration/replaced Allen Bradley output relay module/1746-OW16 and emergency stop switch

Projects

- Completed CIP 13735/Boiler Burner Retrofit
- LED upgrade/Digester basement
- Upgraded Recycle Railroad crossing gates
- Completed CIP 20709/Caustic delivery system upgrade
- Primary Clarifiers/completed upgrade of hazardous gas detection system

Standby Power

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

Influent Pumps

- All pumps operational

Laboratory:

Effluent (EFF-001) Summary

There were no violations of **Effluent** limits during the month of December 2020. All parameters were monitored at the required frequencies. The following were notable sampling events:

- December 2, 2020: Mercury, Metals, Cyanide, Nutrients
- December 1-5, 2020: Acute Toxicity Bioassay
- December 3, 2020: Nutrients
- December 21-23, 2020: Cyanide

Influent (INF-001) Summary

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

- December 2, 2020: Metals, Mercury, Cyanide, Nutrients

RECYCLING:

Significant events in the Recycling Department for December 2020 include:

- Recycled water delivered for the month of December 2020 was (30.796 million gallons), as compared to December 2019 (18.567 million gallons) is higher from the previous year due to Golf Course demand and Trucked water. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff ceased land application of biosolids on district property and initiated wet weather solids encapsulating on the Jameson Reuse site.
- Staff approved the connection of one recycled water service in the LCWD area.

POLLUTION PREVENTION:

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

- Staff conducted two Zoom presentations for Napa High biology students that focused on the microorganisms that help to clean wastewater.
- Outreach continues to residents regarding the Summer 2020 Collection System Rehabilitation Project. Email and text notifications were sent to all residents on the project mailing list. Bi-weekly website updates were also made to alert residents to construction project updates.
- Staff continued to conduct outreach regarding the Browns Valley Trunk Project. Weekly email and text updates as well as weekly website updates were conducted to keep residents up to date regarding construction activities.
- Staff continued working with Katz & Associates to plan and begin conducting outreach regarding the rate study and upcoming Prop 218 process.
- Staff participated in Bay Area Pollution Prevention Group meeting this month and with the Environmental Education Coalition to plan an educational film night to benefit the Darcy Aston Environmental Advocacy Scholarship.
- NapaSan continues to promote the safe medication disposal program. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 25,784.2 pounds.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

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

- Consultants and staff continued work on the CMMS implementation.

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- 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.
- The construction contract was awarded for the 2021 Collection System Rehabilitation Project.
- Staff administered the bidding phase for the 66-inch Trunk Sewer Rehabilitation Project.
- Staff administered the bidding phase for the Pond Levee Maintenance Project
- Contractor continued construction of the Sanitary Sewer Manhole Adjustment Project, Phase X
- Consultant completed design and staff issued Notice Inviting Bids for the 2021 Treatment Plant Improvements Project
- Contractor continued construction of the Primary Clarifier and DAF Clarifier Rehabilitation Project.
- Consultant continued working on the Collection System Master Plan.
- Consultant continued working on the Wastewater Treatment Plant Master Plan.
- Staff reviewed 35 sets of development plans and deemed 17 sets of plans complete. The approved plans consisted of 1 demolition, 1 mainline extension, 9 residential dwellings, and 6 tenant improvements.

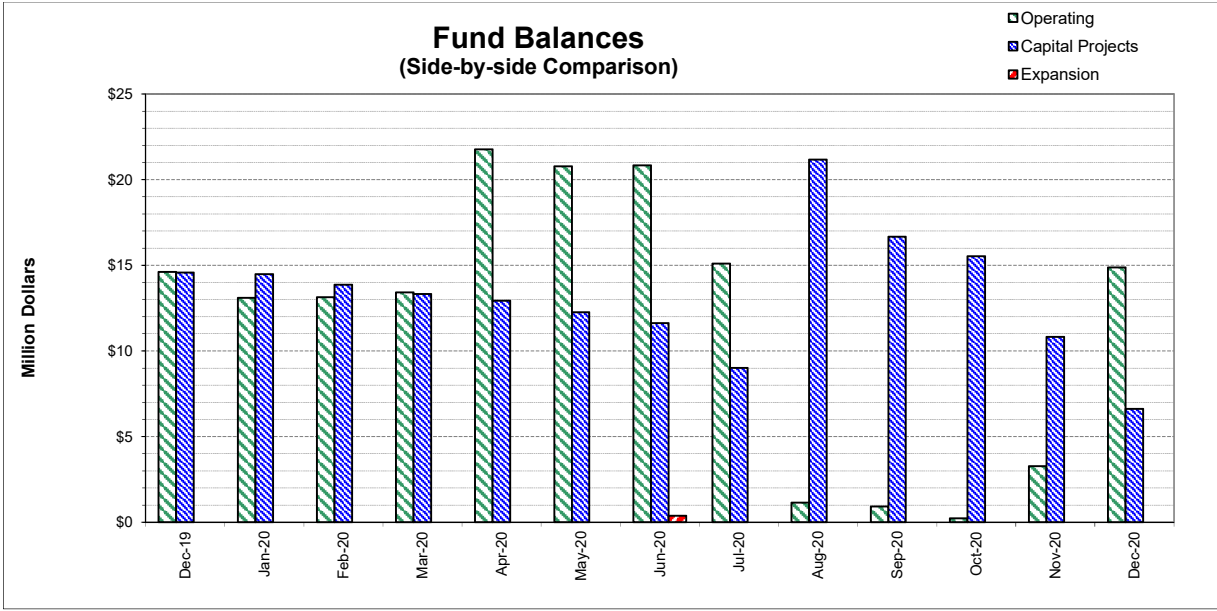
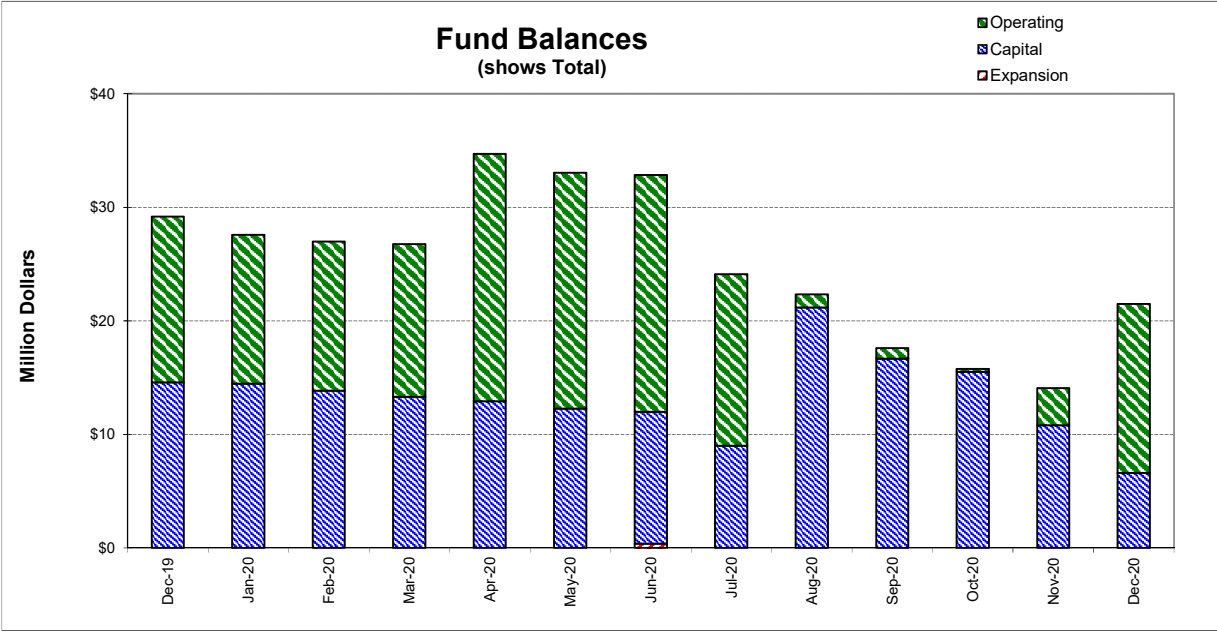
Budget Status & Cash Summary - July 1, 2020 - December 31, 2020 (50.0% of the year)

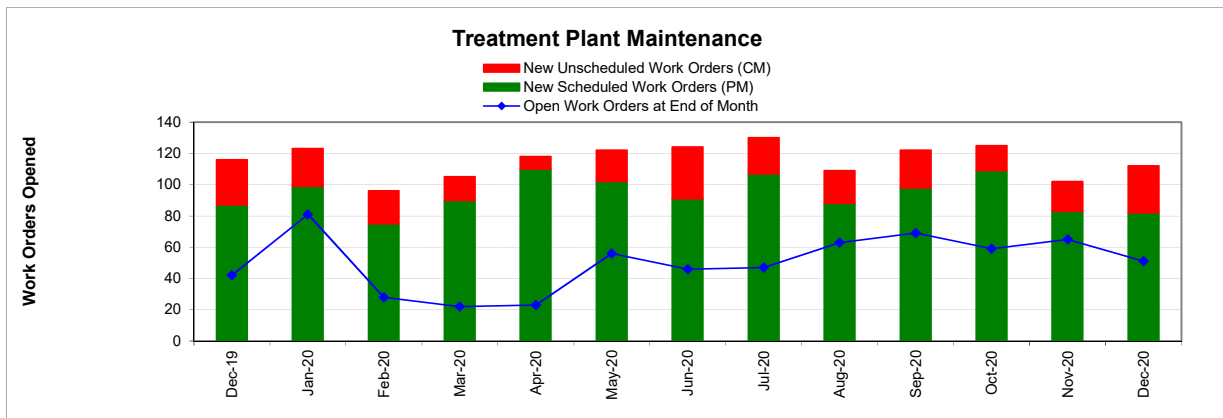
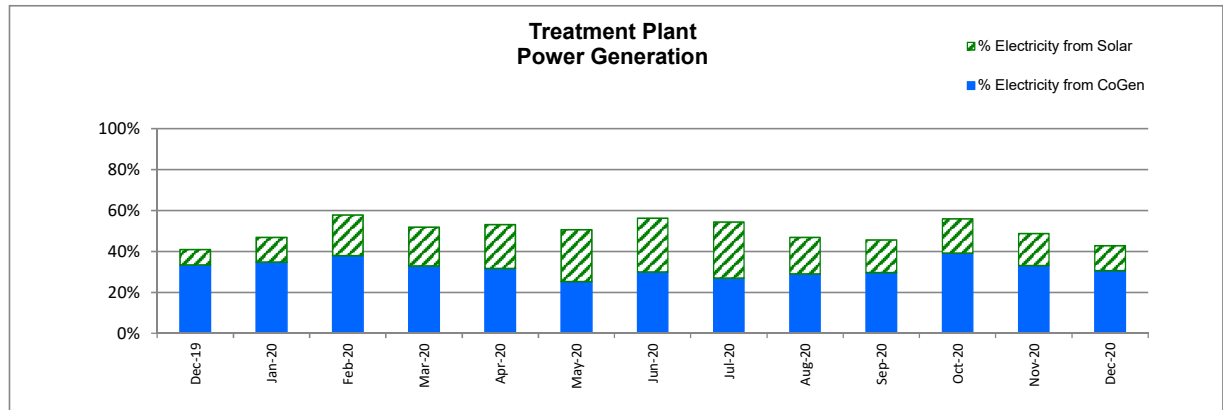
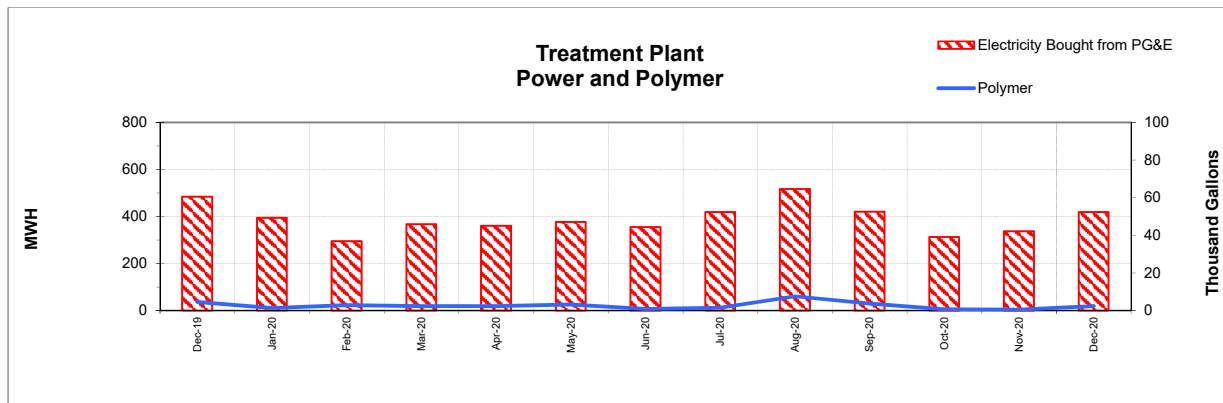
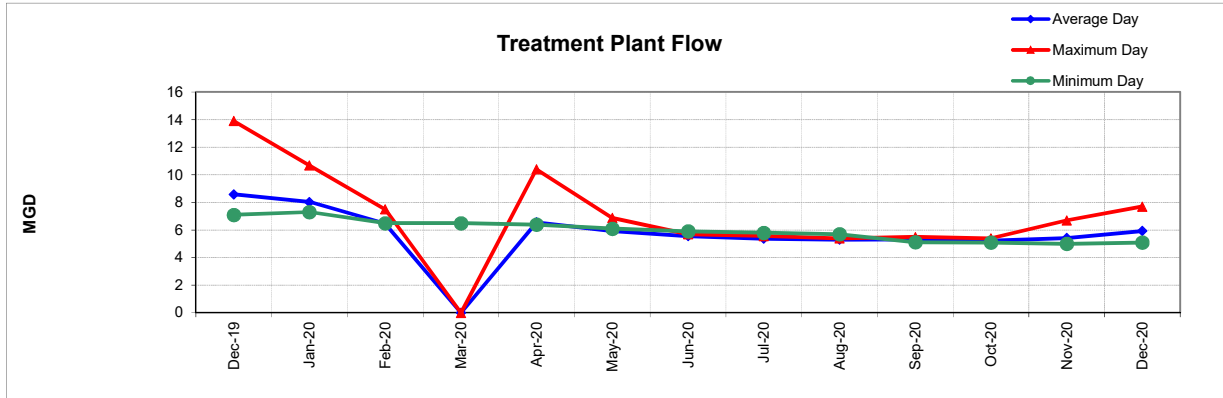
<i>Expenditures</i>	FY 20/21 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
Operating						
Salaries & Benefits	\$9,590,300	\$5,650	\$4,329,498	\$4,335,148	\$5,255,152	45.2%
Services & Supplies	6,428,900	1,254,631	2,699,482	3,954,112	2,474,788	61.5%
Taxes	42,400	-	17,110	17,110	25,290	40.4%
Debt Service	4,588,000	-	3,791,734	3,791,734	796,266 (1)	82.6%
Intrafund Transfers	9,000,000	-	-	-	9,000,000	0.0%
Total Operating:	\$29,649,600	\$1,260,281	\$10,837,824	\$12,098,104	\$17,551,496 (2)	40.8%
Capital						
Bldgs/Improvements & Equip	\$65,903,450	\$19,462,113	\$18,994,705	\$38,456,818	\$27,446,632 (3)	58.4%
Intrafund Transfers	1,992,000	-	1,263,291	1,263,291	728,709	63.4%
Total Capital :	\$67,895,450	\$19,462,113	\$20,257,996	\$39,720,109	\$28,175,341	58.5%
Grand Total Expenditures:	\$97,545,050	\$20,722,394	\$31,095,820	\$51,818,213	\$45,726,837	53.1%
<i>Revenues</i>	FY 20/21 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
Operating						
Use of Money/Property	\$325,000		\$257,373	\$257,373	\$67,627	79.2%
Charges for Services	32,433,000		18,286,504	18,286,504	14,146,496	56.4%
Miscellaneous Revenues	62,000		48,661	48,661	13,339	78.5%
Donations/Contributions (Capital Labor)	-		445,595	445,595	(445,595) (4)	N/A
Total Operating:	\$32,820,000		\$19,038,134	\$19,038,134	\$13,781,866	58.0%
Capital						
Use of Money/Property	\$0		\$605	\$605	(\$605)	N/A
Capacity Charges	1,992,000		845,773	845,773	1,146,227	42.5%
Bond/Loan Proceeds	27,249,900		-	-	27,249,900	0.0%
Sale of Assets	25,000		-	-	25,000	0.0%
Miscellaneous Revenues	5,000		-	-	5,000	0.0%
Intrafund Transfers	10,992,000		1,263,291	1,263,291	9,728,709	11.5%
Total Capital:	\$40,263,900		\$2,109,669	\$2,109,669	\$38,154,231	5.2%
Grand Total Revenue:	\$73,083,900		\$21,147,802	\$21,147,802	\$51,936,098	28.9%

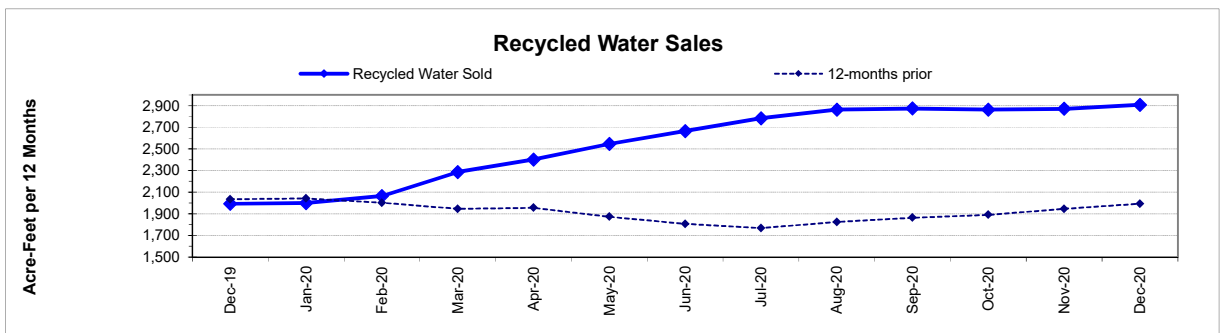
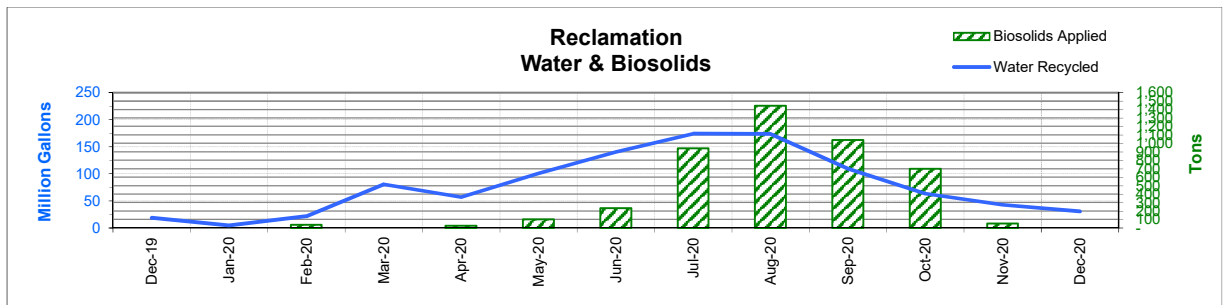
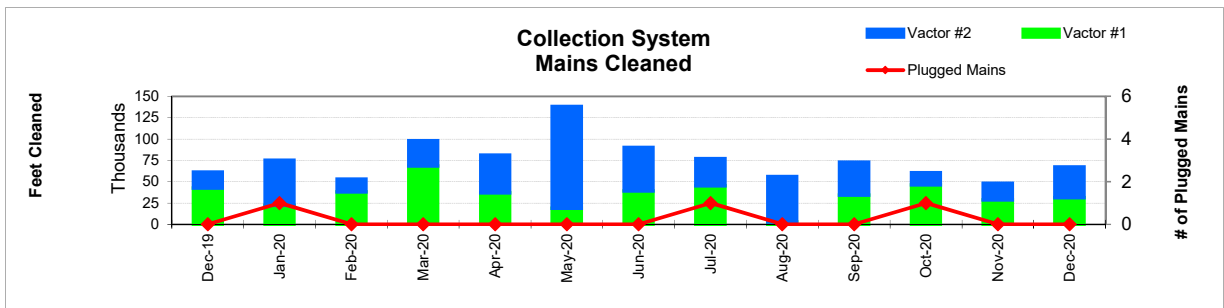
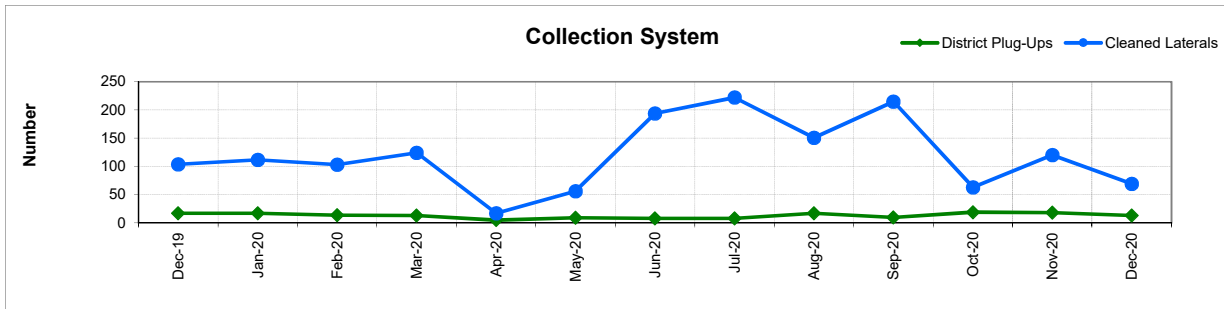
Cash on Hand as of 12/31/20 **\$21,494,492**

**excluding Debt Service restricted funds
12/31/20 -Effective Rate of Return = 1.47%

1. Series 2012A's and 2017's principal/interest payments are made in Jul
2. Includes Debt Service and Intrafund Transfers; otherwise is 51.7%
3. See Capital Project Status report for details
4. In-house Labor for Capital Projects (Contra acct for Salaries)







FUND BALANCES - MONTHLY

CATEGORY	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
<i>(Thousand Dollars)</i>													
7800	14,616	13,107	13,136	13,427	21,767	20,787	20,841	15,104	1,143	924	231	3,270	14,872
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	14,616	13,107	13,136	13,427	21,767	20,787	20,841	15,104	1,143	924	231	3,270	14,872
Capital Improvement Projects	14,579	14,477	13,860	13,326	12,924	12,268	11,626	9,009	21,179	16,674	15,526	10,816	6,622
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	14,579	14,477	13,860	13,326	12,924	12,268	11,626	9,009	21,179	16,674	15,526	10,816	6,622
Total Discretionary Funds	29,195	27,584	26,996	26,753	34,691	33,055	32,467	24,113	22,322	17,598	15,757	14,086	21,494
Expansion Fund (Restricted)	-	-	-	-	-	-	378	-	-	-	-	-	-
Total Restricted Funds	-	-	-	-	-	-	378	-	-	-	-	-	-
TOTAL ALL FUNDS	29,195	27,584	26,996	26,753	34,691	33,055	32,845	24,113	22,322	17,598	15,757	14,086	21,494

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
<u>Phone Requests</u>													
Maps/Drawings	4	6	5	2	3	1	7	1	4	2	2	2	1
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	0
Policy Questions	-	2	5	5	-	-	3	3	1	3	1	1	0
Development Questions	29	32	38	29	24	36	45	31	48	45	30	38	42
Miscellaneous	24	10	12	8	5	6	7	6	13	14	11	8	6
TOTAL	57	50	60	44	32	43	62	41	66	64	44	49	49
<u>Counter Requests</u>													
Maps/Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
Lateral Permits	8	5	19	20	7	10	10	15	8	7	13	13	7
Policy Questions	-	-	-	1	-	-	-	-	-	-	-	-	-
Development Questions	7	4	2	2	-	-	-	2	-	-	-	3	0
Miscellaneous	-	1	1	1	-	-	-	-	-	-	-	-	-
TOTAL	15	10	22	24	7	10	10	17	8	7	13	16	7
<u>Initial Request (Referrals)</u>	9	9	13	8	7	4	8	6	17	10	8	15	9
<u>Connection Permits Issued</u>													
Residential Permits	0	9	22	6	6	14	10	6	6	10	2	6	11
Commercial Permits	1	1	-	2	1	-	1	6	1	1	1	5	6
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	1	10	22	8	7	14	11	12	7	11	3	11	17
Residential Units	0	11	13	6	56	20	16	6	5	10	13	13	15
Commercial Units	1	1	-	2	1	-	20	6	1	1	1	-	4
TOTAL UNITS	1	12	13	8	57	20	36	12	6	11	14	13	19
<u>Annexations</u>													
Submitted	-	-	-	-	1	-	-	2	-	-	-	1	-
Acreage	-	-	-	-	0.50	-	-	18.2	-	-	-	36.06	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	24	12	5	12	7	13	12	12	9	8	5	8	8
Second Submittal	6	12	7	4	8	9	10	11	4	10	1	8	9
Third Submittal	6	4	5	3	2	4	8	4	6	8	7	5	8
<u>Building/Tenant Improvements</u>													
First Submittal	3	12	9	9	5	4	9	5	9	2	4	7	6
Second Submittal	4	3	2	6	4	2	10	4	5	4	3	1	4
Third Submittal	3	1	2	5	3	7	8	1	5	3	3	4	-
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	46	44	30	39	29	39	57	37	38	35	23	33	35

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
<u>CONSTRUCTION</u>													
Locating Sewers	-	-	-	-	-	-	-	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	2	4	4	3	3	-	-	1	2	2	-	-	-
Inspections - Mains	-	-	-	-	-	6	5	2	-	-	7	3	3
Inspections - Manholes	3	9	16	37	-	6	-	6	6	6	5	6	3
Inspections - Laterals	10	15	8	13	48	32	9	12	12	8	12	8	9
Inspections - Cleanouts	44	26	32	35	90	4	2	3	5	11	9	13	10
Inspections - Review Video	-	1	2	4	2	-	2	2	3	2	4	-	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	-	-	-	-	-	-	1	-	-	-	1
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	59	55	62	92	143	48	18	26	29	29	37	30	26
<u>MISCELLANEOUS</u>													
Meter Readings	-	59	1	-	4	-	-	-	-	-	-	-	-
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	-	6	9	15	14	24	30	26	46	35	27	35	34
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	65	10	15	18	24	30	26	46	35	27	35	34
<u>SPECIAL PROJECTS</u>													
	30	10	0	11	26	23	22	23	21	21	22	21	20

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
<u>Outreach Activities</u>													
Plant Tours Conducted	0	3	2	0	0	0	0	0	0	0	0	0	0
Presentations Made	0	1	0	1	0	0	0	0	1	0	0	0	2
Total Outreach Activities	-	4	2	1	-	-	-	-	1	-	-	-	2
<u>Inspections Conducted</u>													
Food Service Facilities	1	1	62	21	-	-	-	-	-	-	-	-	-
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Inspections	1	1	62	21	-	-	-	-	-	-	-	-	-
<u>Compliance Issues</u>													
NOVs Issued	-	2	-	-	-	-	-	1	-	-	-	1	-
NOEs Issued	-	2	1	1	1	1	1	-	-	1	1	-	-
Non-Compliant-FOG	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Compliance Issues	-	4	1	1	1	1	1	1	-	1	1	1	-
<u>Pollution Prevention</u>													
Clothes Washer Rebates	-	-	-	-	-	-	-	-	-	-	-	-	-
Toilet Retrofit Rebates	-	-	-	-	-	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	44	-	-	-	-	-	-	-	-	-	2,108	-	-

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
MONTHLY (MG)														
Water Sold														
Golf Courses	638.0	0.007	0.001	12.483	20.366	24.765	52.367	75.187	74.385	62.144	45.656	25.052	21.811	8.095
Cemeteries	57.1	0.250	0.222	0.514	3.078	3.422	3.965	4.958	5.192	5.091	4.257	4.064	2.374	1.421
Parks	18.5	-	-	-	0.001	-	0.271	1.188	1.670	1.142	0.691	0.638	0.274	0.046
Schools	12.6	0.085	0.044	0.157	0.685	0.716	2.146	2.341	2.926	2.583	1.995	1.372	0.827	0.071
Commerical	166.5	2.254	0.986	3.206	9.845	9.241	13.725	15.874	20.068	18.844	14.144	13.084	8.985	3.651
Vineyards	3,442.0	15.494	3.170	5.250	46.305	17.728	19.191	24.276	51.661	68.013	36.009	16.738	7.086	15.696
Trucked Water	175.0	0.476	0.227	0.134	0.415	1.147	3.612	3.079	1.988	3.988	2.748	2.104	1.251	1.681
Subtotal Sales	4,509.6	18.567	4.650	21.745	80.694	57.018	95.277	126.903	157.889	161.805	105.500	63.053	42.607	30.663
District Use														
Jameson	330.0	-	0.024	-	-	-	-	-	1.479	1.146	1.271	-	-	-
Somky	213.0	-	0.006	0.050	0.026	0.080	5.408	13.369	14.836	10.491	2.855	0.547	0.254	0.133
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	-	0.030	0.050	0.026	0.080	5.408	13.369	16.315	11.638	4.126	0.547	0.254	0.133
TOTAL DELIVERED	5,103.1	18.567	4.681	21.795	80.720	57.098	100.686	140.271	174.204	173.443	109.626	63.600	42.861	30.796
ANNUAL (AF)														
Water Sold														
Golf Courses	638.0	1,003	1,003	1,042	1,104	1,151	1,232	1,283	1,297	1,288	1,275	1,254	1,271	1,296
Cemeteries	57.1	101	100	102	110	116	117	121	120	118	117	117	115	118
Parks	18.5	15	15	15	15	15	15	16	19	18	17	17	18	18
Schools	12.6	33	33	33	35	37	40	42	45	47	48	49	49	49
Commerical	166.5	338	337	345	373	386	396	407	412	415	410	408	400	404
Vineyards	3,442.0	477	486	500	621	665	705	748	842	919	945	954	954	955
Trucked Water	175.0	25	26	26	27	31	40	48	50	58	62	64	65	69
Subtotal Sales	4,509.6	1,993	2,001	2,064	2,286	2,401	2,546	2,666	2,785	2,864	2,874	2,864	2,872	2,909
District Use														
Jameson	330.0	1	2	2	2	2	2	2	6	8	12	12	12	12
Somky	213.0	272	272	273	273	273	282	286	279	232	178	160	147	147
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	274	274	274	274	274	283	288	285	240	190	172	159	160
TOTAL DELIVERED	5,103.1	2,267	2,274	2,338	2,561	2,675	2,830	2,953	3,070	3,104	3,064	3,036	3,031	3,068

BIOSOLIDS HANDLING - MONTHLY

Site	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
<u>Land Applied by NSD</u>													
Somky													
Fagundes											22	53	
Jameson Canyon	-	-	37	-	26	103	234	49	165	201	85		
Subtotal by NSD	-	-	37	-	26	103	234	49	165	201	107	53	-
<u>Land Applied by Contractor</u>													
Somky								893	1,277	838	590		
Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	893	1,277	838	590	-	-
Total Land Applied	-	-	37	-	26	103	234	942	1,442	1,039	697	53	-
Off Site (Contractor)													
Total (tons)	-	-	37	-	26	103	234	942	1,442	1,039	697	53	-

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
<u>Plugups</u>													
Total Calls	60	68	39	35	31	37	34	23	47	29	62	56	59
Business Hours	37	42	25	22	23	25	25	17	28	19	43	37	39
After Hours	23	22	14	13	8	12	9	6	19	10	19	19	20
District's	17	17	14	13	5	9	8	8	17	10	19	18	13
Property Owner's	42	46	24	22	26	28	26	15	30	19	42	38	46
Plugged Main Lines	-	1	-	-	-	-	-	1	-	-	1	-	-
Run Lateral w/Eel	104	112	103	124	17	56	194	222	151	215	63	120	69
<u>Cleaning (feet of sewer)</u>													
Vactor #1	42,519	22,372	37,916	68,243	36,849	18,947	39,019	45,066	2,936	34,338	46,255	28,507	31,186
Vactor #2	18,811	52,620	15,049	29,691	44,336	119,112	50,948	31,916	53,184	38,654	14,202	19,789	35,938
Hydro						42,241	-	-	-	-	-	-	1,968
Rodder	558	-	-		2,915	-	-	-	694	-	-	-	-
Total (feet)	61,888	74,993	52,965	97,933	84,100	180,301	89,967	76,982	56,814	72,992	60,457	48,296	69,092
<u>Cleaning Days</u>													
Total	29	26	20	24	23	30	33	28	21	21	22	20	23
Vactor #1	17	10	15	16	10	9	17	17	3	10	16	12	12
Vactor #2	10	16	5	8	11	17	16	11	17	11	6	8	10
Hydro						4	-	-	-	-	-	-	1
Rodder	2				2		-	-	1	-	-	-	-
<u>Feet/day</u>													
Total	2,150	2,900	2,650	4,100	3,650	6,000	2,750	2,750	2,700	3,500	2,750	2,400	3,000
Vactor #1	2,500	2,250	2,550	4,250	3,700	2,100	2,300	2,650	1,000	3,450	2,900	2,400	2,600
Vactor #2	1,900	3,300	3,000	3,700	4,050	7,000	3,200	2,900	3,150	3,500	2,350	2,450	3,600
Hydro						10,550							1,950
Rodder	300			-	1,450				700				
<u>Video Inspections</u>													
Mains (feet)	-	13,832	30,961	26,158	6,798	27,649	16,016	24,214	22,515	19,796	26,009	28,717	18,657
Laterals (each)	182	188	180	206	75	109	239	270	210	259	184	204	227
<u>Construction (each)</u>													
Cleanouts	4	8	15	15	1	3	12	9	15	21	8	12	7
Laterals	10	10	8	4	-	4	19	6	25	23	20	9	6
Mains	-	1	-	-	-	-	-	-	-	1	4	3	1
Manholes	-		-	5	-	-	-	1	-	-	3	-	-
Other				-	-	-	-	-	-	5	25	-	-
<u>USA Markings</u>													
Regular (w/in 2 days)	290	271	423	232	258	260	284	278	297	281	278	246	185
Emergency (w/in 2 hours)	21	22	9	11	36	14	13	10	18	12	13	13	15

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
FLOWS														
Influent	MG	266.2	248.8	187.6		196.6	184.0	166.7	166.7	164.6	159.7	162.3	162.6	183.7
Average Day	MGD	8.6	8.0	6.5	-	6.6	5.9	5.6	5.4	5.3	5.3	5.2	5.4	5.9
Maximum Day	Date	7-Dec	16-Jan	1-Feb	19-Mar	5-Apr	18-May	6-Jun	3-Jul	9-Aug	29-Sep	1-Oct	18-Nov	17-Dec
Maximum Day Flow	MG	13.9	10.7	7.5		10.4	6.9	5.7	5.6	5.4	5.5	5.4	6.7	7.7
Minimum Day	Date	17-Dec	7-Jan	25-Feb	12-Mar	30-Apr	10-May	30-Jun	31-Jul	19-Aug	6-Sep	16-Oct	27-Nov	8-Dec
Minimum Day Flow	MG	7.1	7.3	6.5	6.5	6.4	6.1	5.9	5.8	5.7	5.1	5.1	5.0	5.1
Effluent	MG	344.4	275.5	197.1	133.7	236.6	110.0	159.3	192.5	196.9	121.4	79.5	71.0	121.1
River Discharge	MG	323.2	271.3	176.2	77.9	174.6							22.4	88.1
Recycled Flow	MG	21.2	4.2	20.9	70.8	58.6	98.3	144.5	176.9	175.1	111.6	69.6	38.9	33.0
BIOSOLIDS														
Wet Tons Generated from Pond	Tons	769	643	523	685	638	473	738	695	680	694	675	557	799
Wet Tons Generated from Plant	Tons	769	643	523	685	638	473	738	695	680	694	675	557	799
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
POLYMER USE														
Pond Pre-Flocculators	Gallons	4,681	1,363	3,036	2,498	2,490	3,271	861	1,548	7,611	3,807	768	485	2,424
Flocculator Polymer 1	Gallons	2,114	-	217	-	-	-	-	163	1,812	1,103	-	-	1,100
Flocculator Polymer 2	Gallons	-	-	-	-	-	-	-	-	-	-	-	-	-
Filter Polymer 1	Gallons	382	206	37	146	301	-	-	20	203	60	-	-	221
Filter Polymer 2	Gallons	1,378	354	2,128	1,608	1,463	2,874	342	762	5,057	2,020	89	-	458
Belt Presses	Gallons	-	-	-	120	179	-	-	-	68	90	93	15	-
	Gallons	807	803	654	624	547	397	519	603	471	534	586	470	645
ENERGY														
Total Electricity Used	MWH	821	743	683	749	756	764	811	862	971	774	710	659	733
Purchased from PGE	MWH	485	395	295	368	361	377	355	420	517	421	313	338	419
Produced from Co-Gen	MWH	274	259	252	239	233	193	243	232	281	229	278	218	224
Percent Produced	%	33%	35%	38%	33%	32%	25%	30%	27%	29%	30%	39%	33%	31%
Purchased from Solar	MWH	62	89	136	142	162	194	213	210	173	124	119	103	90
Percent Produced	%	8%	12%	20%	19%	21%	25%	26%	27%	18%	16%	17%	16%	12%
Purchased Natural Gas	Therms	2,220	1,807	1,595	2,132	1,920	1,253	1,346	1,549	1,338	1,779	1,416	1,385	2,144
Methane Flared Off	MCF	593	88	190	731	137	18	77	26	177	72	128	157	314
Stand By Calls														
Violations	#	66	65	47	51	39	72	47	44	56	49	60	21	62
	#	-	-	-	-	-	-	-	-	-	-	-	-	-

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
<u>Scheduled</u>													
Old	24	23	49	5	6	9	39	25	26	40	39	24	31
New	87	99	75	90	110	102	91	107	88	98	109	83	82
Completed	88	73	119	89	107	72	105	106	74	99	124	76	93
New Balance	23	49	5	6	9	39	25	26	40	39	24	31	20
<u>Unscheduled</u>													
Old	20	19	32	23	16	14	17	21	21	23	30	35	34
New	29	24	21	15	8	20	33	23	21	24	16	19	30
Completed	30	11	30	22	10	17	29	23	19	17	11	20	33
New Balance	19	32	23	16	14	17	21	21	23	30	35	34	31
<u>Total Work Orders</u>													
Old	44	42	81	28	22	23	56	46	47	63	69	59	65
New	116	123	96	105	118	122	124	130	109	122	125	102	112
Completed	116	84	149	112	118	90	135	130	93	116	133	96	126
New Balance	42	81	28	22	23	56	46	47	63	69	59	65	51
<u>LAB ANALYSES</u>													
Sample Type													
Regulatory	176	157	192	213	237	140	172	220	189	141	191	221	328
Process Control	1,072	1,208	1,039	1,058	1,015	708	815	776	772	700	906	960	1,644
Special Request	16	-	32	16	12	20	140	38	51	31	10	301	42
Quality Control/Assurance	839	923	1,324	1,043	1,058	595	622	661	674	577	727	928	1,662
TOTAL	2,103	2,288	2,587	2,330	2,322	1,463	1,749	1,695	1,686	1,449	1,834	2,410	3,676

**Summary of NSD Capital Project Status
through 12-31-20**

Proj #	Description (shortened)	FY 20/21 Budget	FY 19/20 Carry Forwards	Adj.	Final FY 20/21 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<u>COLLECTION SYSTEM - PROJECTS</u>								
13701	Main Line Sewer Rehab	62,100			62,100	-	12,724	49,376	20%
13702	Manhole Raising/Rehab	250,000			250,000	-	7,542	242,458	3%
13703	Lateral Replacement/Rehab	113,900			113,900	-	71,037	42,863	62%
13704	Cleanouts Installation/Rehab	110,700		(12,000)	98,700	-	41,087	57,613	42%
13705	I&I Reduction Program	30,000	210,500		240,500	196,100	199	44,201	0%
14703	Browns Valley Rd & First St	14,000,000	5,733,950		19,733,950	7,507,941	10,563,396	1,662,613	54%
18702	Coll Sys Asset Mgmt Software	-	216,600	50,000	266,600	109,140	112,309	45,151	42%
19701	66-inch Trunk Rehab	11,000,000	4,086,550		15,086,550	202,934	127,978	14,755,638	1%
19703	Sewer System I&I 2020	3,850,000	2,341,400		6,191,400	3,152,665	2,690,988	347,747	43%
19727	Coll Sys Master Plan	-	100,000		100,000	-	4,959	95,041	5%
20702	Manhole Rehabilitation	250,000			250,000	39,230	-	210,770	-
20703	2021 Collection System Rehab	3,410,000	16,550		3,426,550	35,965	58,710	3,331,875	2%
21701	2022 Collection System Rehab	20,000			20,000	-	-	20,000	-
21718	NN Siphon Gate Replacement	-	-	25,000	25,000	15,725	199	9,076	1%
	<u>COLLECTION SYSTEM - EQUIPMENT</u>								
21702	Pickup-mounted Camera Sys	65,000		12,000	77,000	-	75,069	1,931	97%
	<u>COLLECTION SYSTEM - LIFT STATIONS</u>								
17711	West Napa PS - Rehab	5,500,000	4,546,450		10,046,450	6,766,339	1,837,296	1,442,815	18%
19705	Stonecrest PS Pump Rebuild	-	24,850		24,850	-	-	24,850	-
21703	River Park Pump Rebuild	19,300			19,300	-	-	19,300	-
	<u>TREATMENT - PROJECTS</u>								
13745	Pond 1 Dredge	-	1,943,750		1,943,750	32,855	1,853,239	57,657	95%
18740	Treatment Plant Project 2019	-	64,850		64,850	49,208	792	14,850	1%
20706	WWTP Master Plan	1,235,400	950		1,236,350	609,416	121,418	505,516	10%
20707	Pond Levee Repair	700,000	9,150		709,150	109,207	113,108	486,835	16%
20708	2020 Treatment Plant Imprvmnts	-	1,407,600		1,407,600	120,316	89,496	1,197,789	6%
	<u>TREATMENT - EQUIPMENT</u>								
13735	Dual Fuel Boiler Burner	-	55,750		55,750	-	32,907	22,843	59%

**Summary of NSD Capital Project Status
through 12-31-20**

Proj #	Description (shortened)	FY 20/21 Budget	FY 19/20 Carry Forwards	Adj.	Final FY 20/21 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
15707	DAFT Overflow Pumps (2)	12,300	11,900		24,200	-	-	24,200	-
16712	Primary Clarifier Mech-Struct	700,000	390,200	140,000	1,230,200	128,255	848,541	253,403	69%
17726	Headworks Equip Rehab/Rplcmnt	-	240,700		240,700	86,476	18,166	136,058	8%
18718	Sec Clarifier Mech/Strct Rehab	83,200		(50,000)	33,200	-	-	33,200	-
18720	Neuros Blowers Rebuild	-	64,300		64,300	-	-	64,300	-
18722	FOG Station Water Heater	-	25,000		25,000	-	-	25,000	-
19708	Rotork Actuator Rplcmnt	-	75,900		75,900	-	25,204	50,696	33%
19709	Polymer Tank Rplcmnt	207,000	10,000	(185,000)	32,000	-	-	32,000	-
19710	12kV Redundant Line	-	83,650		83,650	26,287	14,390	42,972	17%
19715	ARV Rplcmnt	-	4,750		4,750	-	-	4,750	-
20709	AB Caustic Pumps & Enclosure	-	68,600		68,600	-	17,304	51,296	25%
20710	Septage Pump & Motor Rplcmnt	-	4,950		4,950	-	4,746	204	96%
20711	Marsh-to-Pond PS Upgrade	-	87,550		87,550	-	252	87,298	0%
20712	Grit Pump Rebuild	-	5,000		5,000	-	4,746	254	95%
20713	Elevator Control Update	-	400,000		400,000	-	-	400,000	-
20715	Concrete Pipe Chase Covers	-	80,000		80,000	2,455	61,560	15,985	77%
20716	Plant Door Replacement PH 1	-	22,200	8,000	30,200	-	11,875	18,325	39%
21704	Headworks - Washer Compactor	314,400			314,400	178,068	-	136,332	-
21705	Pipe Threader	13,000			13,000	-	-	13,000	-
21706	Rotork Actuator Replacement	101,800			101,800	7,077	-	94,723	-
21707	Digester Roof Grating Rplcmnt	110,900			110,900	-	-	110,900	-
21708	Head works - Roof Replacement	80,300			80,300	-	-	80,300	-
21709	Plant Door Replacement - Ph 2	23,000		(8,000)	15,000	-	-	15,000	-
21710	Veh 175 - F-150	31,000			31,000	86,359	-	(55,359)	-
	LAB - EQUIPMENT								
21711	Autoclave Rplcmnt	34,400			34,400	-	-	34,400	-
21712	Sampler 4700 Rplcmnt	10,400			10,400	-	-	10,400	-
	SCADA								
18729	SCADA MP Proj 1 Ntwk Mntng	-	46,200		46,200	-	-	46,200	-
19718	SCADA MP PH 5 Security Stdy	-	51,850		51,850	-	-	51,850	-
21713	SCADA Network Upgrades	225,000			225,000	-	-	225,000	-

**Summary of NSD Capital Project Status
through 12-31-20**

Proj #	Description (shortened)	FY 20/21 Budget	FY 19/20 Carry Forwards	Adj.	Final FY 20/21 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
21714	Alarm Evaluation & Programming	25,000			25,000	-	-	25,000	-
	<u>RECYCLING - PROJECTS</u>								
18731	Coombsville Truck Fill Station	-	112,100		112,100	-	42,037	70,063	37%
20721	Kirkland RW Pipeline Rehab	-	12,900		12,900	95	6,855	5,950	53%
	<u>RECYCLING - EQUIPMENT</u>								
19722	Veh 720/723 Attchmnts/Implmnts	30,700			30,700	-	-	30,700	-
20722	Badger Meter Replacement	-	80,000		80,000	-	2,281	77,719	3%
21715	Soscol Recycle Pump #2 Rehab	160,700			160,700	-	-	160,700	-
21716	Veh 174 - Ford F-350 SB	75,700			75,700	-	1,412	74,288	2%
21717	Veh 723 - Water Trailer	42,800			42,800	-	-	42,800	-
	<u>OTHER</u>								
13729	Development Technical Support	348,800			348,800	-	120,916	227,884	35%
19723	AV Sys Rplcmnt - Conf Rms	-	20,000	20,000	40,000	-	-	40,000	-
		\$43,246,800	\$22,656,650	-	\$65,903,450	\$19,462,113	\$18,994,736	\$27,446,599	29%