



Napa Sanitation District

General Manager's Report

for

September 2020

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NAPA SANITATION DISTRICT

General Manager's Report

DATE: November 4, 2020

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for September 2020

REGULATORY COMPLIANCE:

Collection System Compliance:	0 Category 1 SSO's, 0 Category 2 SSO's, and 3 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 – September 30, 2020
Percent Fiscal Year:	25.0%
Operating Expenditures to date:	27.9%
Historical Expenditures to date:	33.0%
Significant Comments:	None

PERSONNEL:

Significant events for the month of September 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 September 2020 in Collection System Maintenance include:

- The District had 0 Category 1 Sanitary Sewer Overflows (SSO's), 0 Category 2 SSO's and 3 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 11 cleanouts and repaired 8 cleanouts. They also repaired 8 laterals, lined 15 laterals and installed 1 main spot liner. Additionally, the service response/programs crew completed 133 work orders in support of the grease and odor control program, responded to 29 customer requests for service (10 were NSD problem) and closed out 293 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 215 laterals, cleaned approximately 72,991.9 feet of main line and CCTV inspected 15 laterals. In addition, the CCTV truck televised 19,796.1 feet of mainline.

TREATMENT PLANT:

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

Plant Operations:

- For September 2020, the plant's influent flow was 159.65 MG as compared to last year flow for September 2019 of 181.2 MG
- There was 0.01" rainfall for September 2020 (Carneros Rainfall Center) as compared to 0.00" rainfall for September 2019.
- Pond 4 end of the month recorded level reading was 36.15".

Power Consumption and Production:

- September power purchased from PG&E was 421 MWH in comparison to September 2019 purchase of 431 MWH.
- Cogeneration unit ran 709 of 720 hours for the month – 98.47% uptime, averaging 302.76 Kw, producing 229 MWH of energy.
- Solar generation in September was 124 MWH, compared to 173 MWH in August and 171 MWH in September 2019.

Maintenance:

Significant events for the month of September 2020:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Replaced Primary Clarifier #2 drain valve
- Aeration Basin #4/replaced RAS Pump #1
- Ferric Pump #1/replaced suction check ball and seat
- S7-400 PLC's/replaced batteries
- Replaced Riverpark and Stonecrest generator batteries
- PLC2 RIO2 drop 4/replaced DI module

Projects

- Up-graded lighting to LED in Solids Handling stairwell

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 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:

- September, 2020: Metals, Mercury, Cyanide

RECYCLING:

Significant events in the Recycling Department for September 2020 include:

- Recycled water delivered for the month of September 2020 was (109.626 million gallons), as compared to September 2019 (122.363 million gallons) is lower from the previous year due to district irrigation. 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 September 2020 include:

- In coordination with the City of Napa, Napa County, the Sheriff's office, and Kaiser, staff have been working to plan the yearly drug takeback event. NapaSan is sponsoring the event and helping to promote it. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 22,118.2 pounds.
- Outreach continues to residents regarding the Summer 2020 Collection System Rehabilitation Project. Weekly email and text notifications were sent to all residents on the project mailing list. Weekly website updates were also made to alert residents to construction project updates.
- Staff also conducted outreach regarding the Browns Valley Trunk Project. Staff sent two different letters to the entire project alignment at the end of September. Letters were also sent to Spruce Street residents regarding the start of pipeline installation. Weekly email and text updates as well as weekly website updates were conducted to keep residents up to date regarding construction activities. Staff also worked with City of Napa staff to share construction locations and our updates were shared in the City of Napa e-newsletter.
- Staff created the Fall 2020 Pipeline newsletter to be mailed the first week of October.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

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

- Consultants and staff continued work on the CMMS implementation.
- Contractor continued 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
- Staff managed bid period and opened bids for the Sanitary Sewer Manhole Adjustment Project, Phase X
- Consultant began design of the 2021 Treatment Plant Improvements 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 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 18 sets of plans complete. The approved plans consisted of 10 residential dwellings, 4 tenant improvements, 1 commercial building, 1 commercial lateral, and 1 residential lateral, and 1 recycled water lateral.

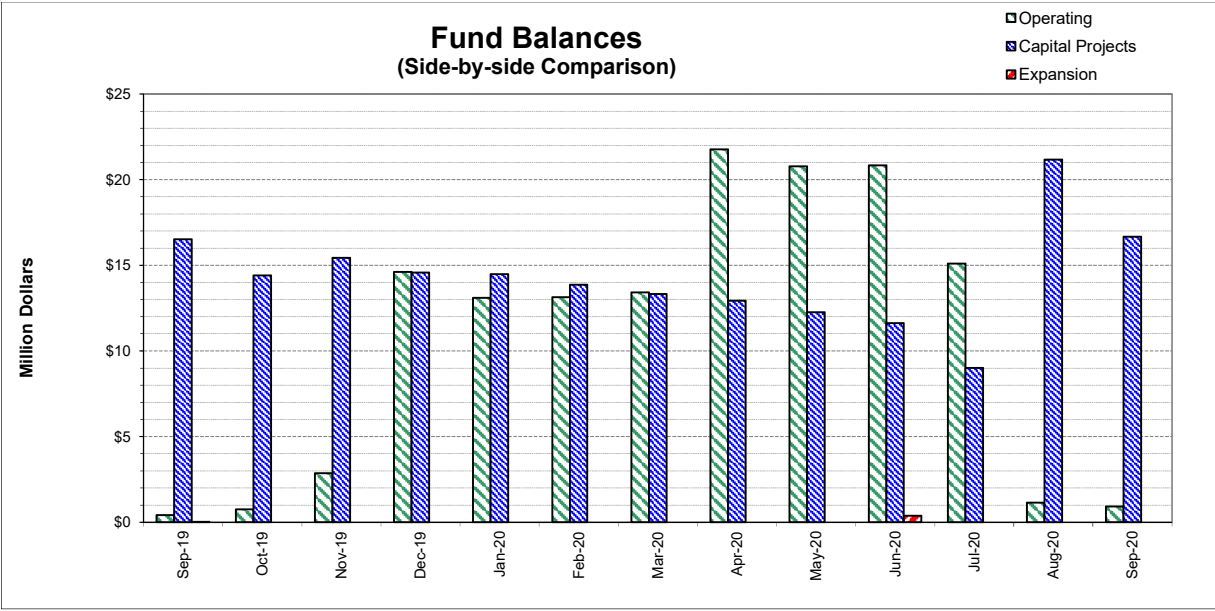
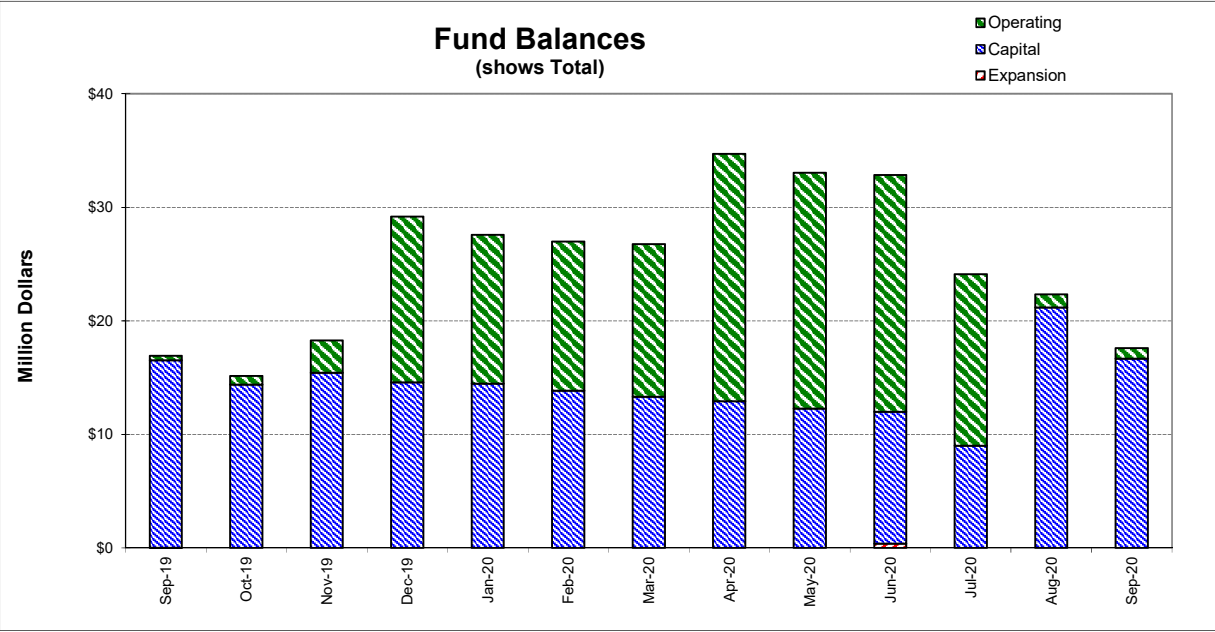
Budget Status & Cash Summary - July 1, 2020 - September 30, 2020 (25.0% of the year)

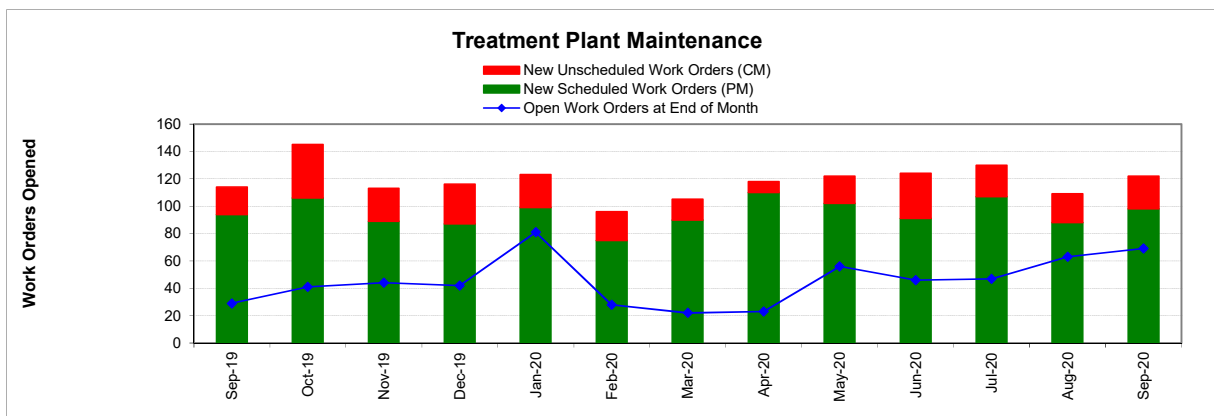
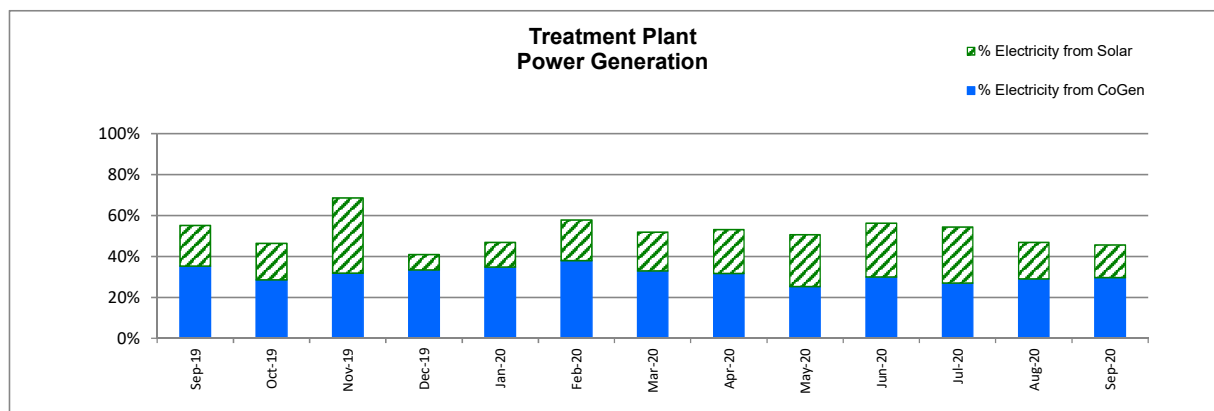
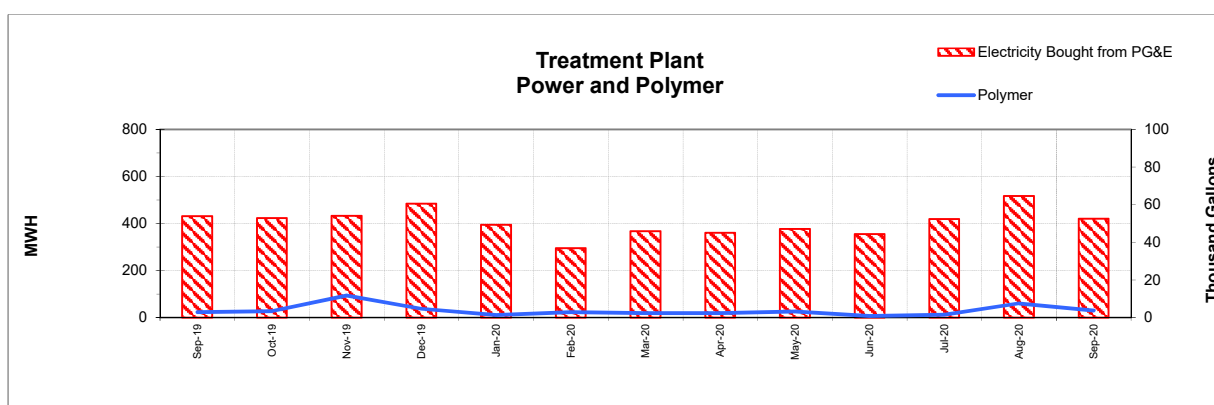
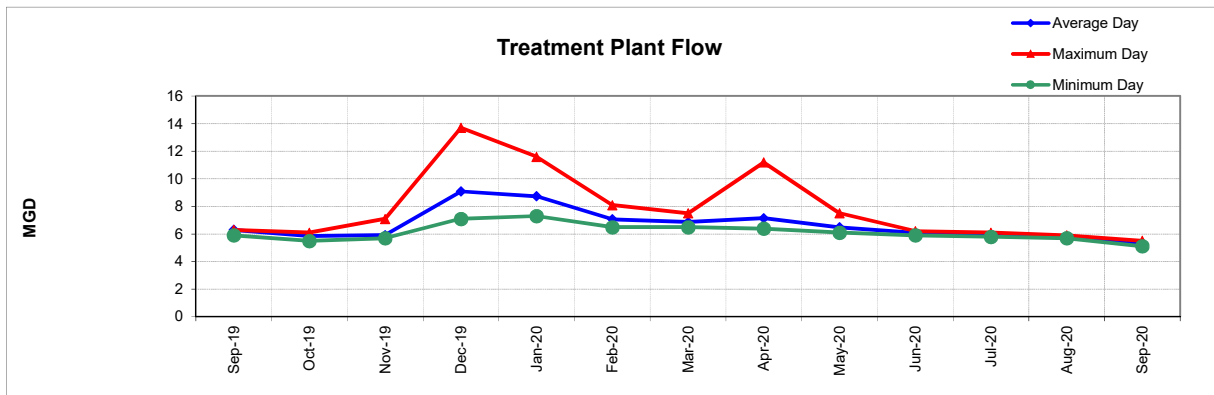
<i>Expenditures</i>	FY 20/21 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
Operating						
Salaries & Benefits	\$9,590,300	\$7,825	\$1,790,584	\$1,798,409	\$7,791,891	18.8%
Services & Supplies	6,428,900	1,372,502	1,368,804	2,741,307	3,687,593	42.6%
Taxes	42,400	-	-	-	42,400	0.0%
Debt Service	4,588,000	-	3,728,888	3,728,888	859,113 (1)	81.3%
Intrafund Transfers	9,000,000	-	-	-	9,000,000	0.0%
Total Operating:	\$29,649,600	\$1,380,327	\$6,888,276	\$8,268,603	\$21,380,997 (2)	27.9%
Capital						
Bldgs/Improvements & Equip	\$65,903,450	\$31,775,969	\$5,873,790	\$37,649,759	\$28,253,691 (3)	57.1%
Intrafund Transfers	1,992,000	-	588,360	588,360	1,403,640	29.5%
Total Capital :	\$67,895,450	\$31,775,969	\$6,462,150	\$38,238,119	\$29,657,331	56.3%
Grand Total Expenditures:	\$97,545,050	\$33,156,296	\$13,350,426	\$46,506,722	\$51,038,328	47.7%
<i>Revenues</i>	FY 20/21 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
Operating						
Use of Money/Property	\$578,000		\$122,701	\$122,701	\$455,299	21.2%
Charges for Services	31,213,500		1,948,599	1,948,599	29,264,901	6.2%
Miscellaneous Revenues	60,000		6,210	6,210	53,790	10.4%
Donations/Contributions (Capital Labor)	-		243,429	243,429	(243,429) (4)	N/A
Total Operating:	\$31,851,500		\$2,320,939	\$2,320,939	\$29,530,561	7.3%
Capital						
Use of Money/Property	\$0		\$605	\$605	(\$605)	N/A
Capacity Charges	5,178,000		189,046	189,046	4,988,954	3.7%
Bond/Loan Proceeds	15,416,600		-	-	15,416,600	0.0%
Sale of Assets	25,000		-	-	25,000	0.0%
Miscellaneous Revenues	5,000		-	-	5,000	0.0%
Intrafund Transfers	14,078,000		588,360	588,360	13,489,640	4.2%
Total Capital:	\$34,702,600		\$778,012	\$778,012	\$33,924,588	2.2%
Grand Total Revenue:	\$66,554,100		\$3,098,950	\$3,098,950	\$63,455,150	4.7%

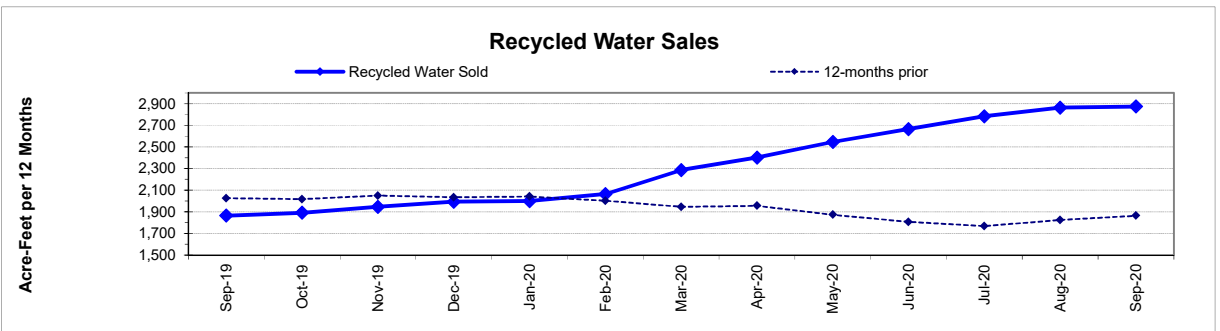
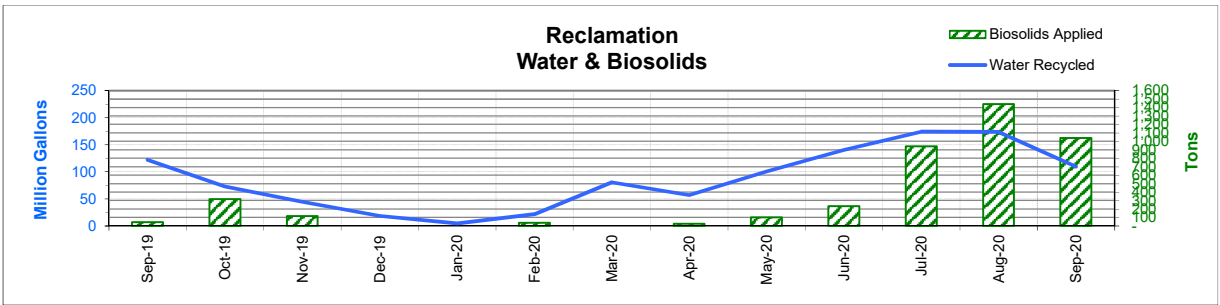
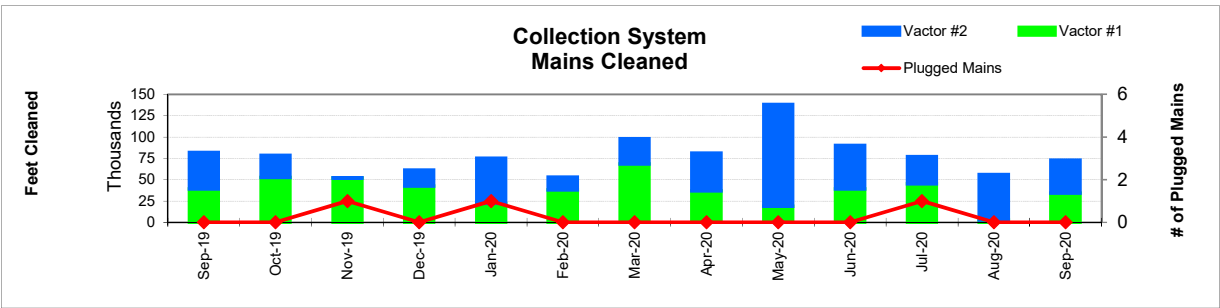
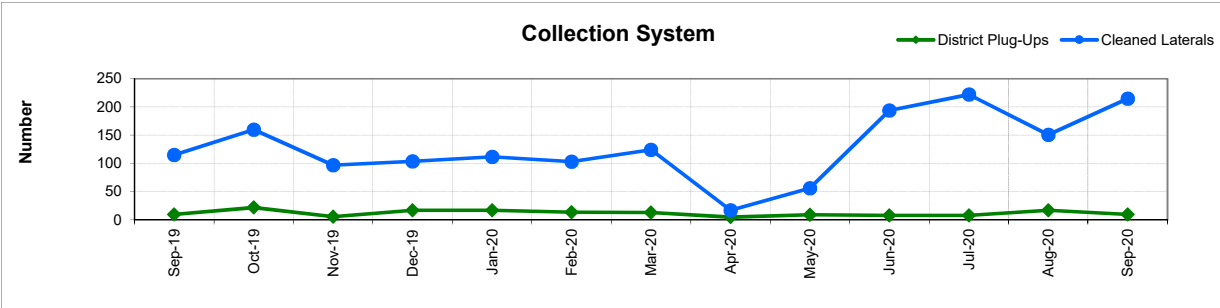
Cash on Hand as of 9/30/20 **\$17,597,513**

**excluding Debt Service restricted funds
9/30/20 -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 28.3%
3. See Capital Project Status report for details
4. In-house Labor for Capital Projects (Contra acct for Salaries)







FUND BALANCES - MONTHLY

CATEGORY	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
<i>(Thousand Dollars)</i>													
7800	415	753	2,858	14,616	13,107	13,136	13,427	21,767	20,787	20,841	15,104	1,143	924
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	415	753	2,858	14,616	13,107	13,136	13,427	21,767	20,787	20,841	15,104	1,143	924
Capital Improvement Projects	16,516	14,400	15,430	14,579	14,477	13,860	13,326	12,924	12,268	11,626	9,009	21,179	16,674
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	16,516	14,400	15,430	14,579	14,477	13,860	13,326	12,924	12,268	11,626	9,009	21,179	16,674
Total Discretionary Funds	16,931	15,153	18,288	29,195	27,584	26,996	26,753	34,691	33,055	32,467	24,113	22,322	17,598
Expansion Fund (Restricted)	2	-	-	-	-	-	-	-	-	378	-	-	-
Total Restricted Funds	2	-	-	-	-	-	-	-	-	378	-	-	-
TOTAL ALL FUNDS	16,933	15,153	18,288	29,195	27,584	26,996	26,753	34,691	33,055	32,845	24,113	22,322	17,598

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
<u>Phone Requests</u>													
Maps/Drawings	4	-	11	4	6	5	2	3	1	7	1	4	2
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	0
Policy Questions	4	2	2	-	2	5	5	-	-	3	3	1	3
Development Questions	38	32	40	29	32	38	29	24	36	45	31	48	45
Miscellaneous	18	29	13	24	10	12	8	5	6	7	6	13	14
TOTAL	64	63	66	57	50	60	44	32	43	62	41	66	64
<u>Counter Requests</u>													
Maps/Drawings	-	1	-	-	-	-	-	-	-	-	-	-	-
Lateral Permits	13	7	7	8	5	19	20	7	10	10	15	8	-
Policy Questions	-	-	1	-	-	-	1	-	-	-	-	-	-
Development Questions	13	4	7	7	4	2	2	-	-	-	2	-	0
Miscellaneous	0	-	-	-	1	1	1	-	-	-	-	-	-
TOTAL	26	12	15	15	10	22	24	7	10	10	17	8	-
<u>Initial Request (Referrals)</u>	13	13	11	9	9	13	8	7	4	8	6	17	10
<u>Connection Permits Issued</u>													
Residential Permits	2	5	3	0	9	22	6	6	14	10	6	6	10
Commercial Permits	2	1	3	1	1	-	2	1	-	1	6	1	1
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	4	6	6	1	10	22	8	7	14	11	12	7	11
Residential Units	2	22	5	0	11	13	6	56	20	16	6	5	10
Commercial Units	2	1	133	1	1	-	2	1	-	20	6	1	1
TOTAL UNITS	4	23	138	1	12	13	8	57	20	36	12	6	11
<u>Annexations</u>													
Submitted	-	1	-	-	-	-	-	1	-	-	2	-	-
Acreage	-	44.84	-	-	-	-	-	0.50	-	-	18.2	-	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	8	5	8	24	12	5	12	7	13	12	12	9	8
Second Submittal	2	2	6	6	12	7	4	8	9	10	11	4	10
Third Submittal	3	7	3	6	4	5	3	2	4	8	4	6	8
<u>Building/Tenant Improvements</u>													
First Submittal	6	13	4	3	12	9	9	5	4	9	5	9	2
Second Submittal	4	5	1	4	3	2	6	4	2	10	4	5	4
Third Submittal	3	7	5	3	1	2	5	3	7	8	1	5	3
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	26	39	27	46	44	30	39	29	39	57	37	38	35

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
<u>CONSTRUCTION</u>													
Locating Sewers	-	-	-	-	-	-	-	-	-	-	-	-	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	4	6	1	2	4	4	3	3	-	-	1	2	2
Inspections - Mains	11	-	1	-	-	-	-	-	6	5	2	-	-
Inspections - Manholes	77	1	6	3	9	16	37	-	6	-	6	6	6
Inspections - Laterals	5	12	22	10	15	8	13	48	32	9	12	12	8
Inspections - Cleanouts	7	54	33	44	26	32	35	90	4	2	3	5	11
Inspections - Review Video	2	-	1	-	1	2	4	2	-	2	2	3	2
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	-	-	-	-	-	-	-	-	-	1	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	106	73	64	59	55	62	92	143	48	18	26	29	29
<u>MISCELLANEOUS</u>													
Meter Readings	-	-	-	-	59	1	-	4	-	-	-	-	-
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	31	12	12	-	6	9	15	14	24	30	26	46	35
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	31	12	12	-	65	10	15	18	24	30	26	46	35
<u>SPECIAL PROJECTS</u>	35	23	19	30	10	0	11	26	23	22	23	21	21

POLLUTION PREVENTION WORKLOAD - MONTHLY

[illegible]

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
MONTHLY (MG)														
<u>Water Sold</u>														
Golf Courses	638.0	49.784	31.724	16.340	0.007	0.001	12.483	20.366	24.765	52.367	75.187	74.385	62.144	45.656
Cemeteries	57.1	4.822	4.061	3.028	0.250	0.222	0.514	3.078	3.422	3.965	4.958	5.192	5.091	4.257
Parks	18.5	1.111	0.615	0.028	-	-	-	0.001	-	0.271	1.188	1.670	1.142	0.691
Schools	12.6	1.635	1.312	0.792	0.085	0.044	0.157	0.685	0.716	2.146	2.341	2.926	2.583	1.995
Commerical	166.5	15.824	13.499	11.799	2.254	0.986	3.206	9.845	9.241	13.725	15.874	20.068	18.844	14.144
Vineyards	3,442.0	27.367	13.852	7.027	15.494	3.170	5.250	46.305	17.728	19.191	24.276	51.661	68.013	36.009
Trucked Water	175.0	1.425	1.401	1.097	0.476	0.227	0.134	0.415	1.147	3.612	3.079	1.988	3.988	2.748
Subtotal Sales	4,509.6	101.969	66.465	40.111	18.567	4.650	21.745	80.694	57.018	95.277	126.903	157.889	161.805	105.500
<u>District Use</u>														
Jameson	330.0	-	-	-	-	0.024	-	-	-	-	-	1.479	1.146	1.271
Somky	213.0	20.394	6.391	4.513	-	0.006	0.050	0.026	0.080	5.408	13.369	14.836	10.491	2.855
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	20.394	6.391	4.513	-	0.030	0.050	0.026	0.080	5.408	13.369	16.315	11.638	4.126
TOTAL DELIVERED	5,103.1	122.363	72.856	44.624	18.567	4.681	21.795	80.720	57.098	100.686	140.271	174.204	173.443	109.626
ANNUAL (AF)														
<u>Water Sold</u>														
Golf Courses	638.0	939	963	1,003	1,003	1,003	1,042	1,104	1,151	1,232	1,283	1,297	1,288	1,275
Cemeteries	57.1	99	102	102	101	100	102	110	116	117	121	120	118	117
Parks	18.5	16	17	15	15	15	15	15	15	15	16	19	18	17
Schools	12.6	33	33	33	33	33	33	35	37	40	42	45	47	48
Commerical	166.5	343	324	337	338	337	345	373	386	396	407	412	415	410
Vineyards	3,442.0	418	431	431	477	486	500	621	665	705	748	842	919	945
Trucked Water	175.0	18	22	24	25	26	26	27	31	40	48	50	58	62
Subtotal Sales	4,509.6	1,865	1,891	1,945	1,993	2,001	2,064	2,286	2,401	2,546	2,666	2,785	2,864	2,874
<u>District Use</u>														
Jameson	330.0	1	1	1	1	2	2	2	2	2	2	6	8	12
Somky	213.0	276	259	272	272	272	273	273	273	282	286	279	232	178
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	277	260	274	274	274	274	274	274	283	288	285	240	190
TOTAL DELIVERED	5,103.1	2,142	2,151	2,219	2,267	2,274	2,338	2,561	2,675	2,830	2,953	3,070	3,104	3,064

BIOSOLIDS HANDLING - MONTHLY

Site	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
<u>Land Applied by NSD</u>													
Somky													
Fagundes	44												
Jameson Canyon		316	117	-	-	37	-	26	103	234	49	165	201
Subtotal by NSD	44	316	117	-	-	37	-	26	103	234	49	165	201
<u>Land Applied by Contractor</u>													
Somky											893	1,274	837
Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	893	1,274	837
Total Land Applied	44	316	117	-	-	37	-	26	103	234	942	1,440	1,038
Off Site (Contractor)													
Total (tons)	44	316	117	-	-	37	-	26	103	234	942	1,440	1,038

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
<u>Plugups</u>													
Total Calls	45	68	38	60	68	39	35	31	37	34	23	47	29
Business Hours	36	51	28	37	42	25	22	23	25	25	17	28	19
After Hours	9	17	10	23	22	14	13	8	12	9	6	19	10
District's	10	22	6	17	17	14	13	5	9	8	8	17	10
Property Owner's	32	43	32	42	46	24	22	26	28	26	15	30	19
Plugged Main Lines	-	-	1	-	1	-	-	-	-	-	1	-	-
Run Lateral w/Eel	115	160	97	104	112	103	124	17	56	194	222	151	215
<u>Cleaning (feet of sewer)</u>													
Vactor #1	38,969	52,711	51,764	42,519	22,372	37,916	68,243	36,849	18,947	39,019	45,066	2,936	34,338
Vactor #2	43,059	25,762	610	18,811	52,620	15,049	29,691	44,336	119,112	50,948	31,916	53,184	38,654
Hydro									42,241	-	-	-	-
Rodder				558	-	-		2,915	-	-	-	694	-
Total (feet)	82,028	78,473	52,374	61,888	74,993	52,965	97,933	84,100	180,301	89,967	76,982	56,814	72,992
<u>Cleaning Days</u>													
Total	33	28	19	29	26	20	24	23	30	33	28	21	21
Vactor #1	18	20	18	17	10	15	16	10	9	17	17	3	10
Vactor #2	15	8	1	10	16	5	8	11	17	16	11	17	11
Hydro									4	-	-	-	-
Rodder				2				2		-	-	1	-
<u>Feet/day</u>													
Total	2,500	2,800	2,750	2,150	2,900	2,650	4,100	3,650	6,000	2,750	2,750	2,700	3,500
Vactor #1	2,150	2,650	2,900	2,500	2,250	2,550	4,250	3,700	2,100	2,300	2,650	1,000	3,450
Vactor #2	2,850	3,200	600	1,900	3,300	3,000	3,700	4,050	7,000	3,200	2,900	3,150	3,500
Hydro									10,550				
Rodder				300			-	1,450				700	
<u>Video Inspections</u>													
Mains (feet)	22,837	17,404	10,825	-	13,832	30,961	26,158	6,798	27,649	16,016	24,214	22,515	19,796
Laterals (each)	190	247	165	182	188	180	206	75	109	239	270	210	259
<u>Construction (each)</u>													
Cleanouts	15	20	10	4	8	15	15	1	3	12	9	15	26
Laterals	16	10	9	10	10	8	4	-	4	19	6	25	23
Mains		-		-	1	-	-	-	-	-	-	-	1
Manholes		2		-		-	5	-	-	-	1	-	-
Other							-	-	-	-	-	-	-
<u>USA Markings</u>													
Regular (w/in 2 days)	331	332	224	290	271	423	232	258	260	284	278	297	281
Emergency (w/in 2 hours)	23	21	7	21	22	9	11	36	14	13	10	18	12

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
FLOWES		30	31	30	31	31	29	31	30	31	30	31	31	30
Influent	MG	182.1	181.6	177.6	281.6	271.0	204.9	212.9	214.3	201.2	182.5	182.3	180.0	159.7
Average Day	MGD	6.3	5.9	5.9	9.1	8.7	7.1	6.9	7.1	6.5	6.1	5.9	5.8	5.3
Maximum Day	Date	2-Sep	29-Oct	27-Nov	7-Dec	16-Jan	1-Feb	19-Mar	5-Apr	18-May	6-Jun	3-Jul	9-Aug	29-Sep
Maximum Day Flow	MG	6.3	6.1	7.1	13.7	11.6	8.1	7.5	11.2	7.5	6.2	6.1	5.9	5.5
Minimum Day	Date	24-Sep	10-Oct	1-Nov	17-Dec	7-Jan	25-Feb	12-Mar	30-Apr	10-May	30-Jun	31-Jul	19-Aug	6-Sep
Minimum Day Flow	MG	5.9	5.5	5.7	7.1	7.3	6.5	6.5	6.4	6.1	5.9	5.8	5.7	5.1
Effluent	MG	123.5	78.4	309.7	344.4	286.6	204.0	133.7	236.6	110.0	159.3	192.5	196.9	121.4
River Discharge	MG	-	-	265.0	323.2	271.3	177.3	77.9	174.6	-	-	-	-	-
Recycled Flow	MG	123.5	78.4	44.6	21.2	15.3	26.7	55.7	58.6	98.3	159.3	192.5	196.9	121.4
BIOSOLIDS	Tons	714	750	762	769	643	523	685	638	473	738	695	680	611
Wet Tons Generated from Pond	Tons									-				-
Wet Tons Generated from Plant	Tons	714	750	762	769	643	523	685	638	473	738	695	680	611
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
POLYMER USE	Gallons	3,038	3,499	11,780	4,681	1,363	3,036	2,498	2,490	3,271	861	1,548	7,611	3,807
Pond Pre-Flocculators	Gallons	257	540	6,311	2,114	-	217	-	-	-	-	163	1,812	1,103
Flocculator Polymer 1	Gallons	-	-	-	-	-	-	-	-	-	-	-	-	-
Flocculator Polymer 2	Gallons	86	203	427	382	206	37	146	301	-	-	20	203	60
Filter Polymer 1	Gallons	1,832	1,841	4,401	1,378	354	2,128	1,608	1,463	2,874	342	762	5,057	2,020
Filter Polymer 2	Gallons	-	-	-	-	-	-	120	179	-	-	-	68	90
Belt Presses	Gallons	863	915	641	807	803	654	624	547	397	519	603	471	534
ENERGY														
Total Electricity Used	MWH	859	789	778	821	743	683	749	756	764	811	862	971	774
Purchased from PGE	MWH	431	423	433	485	395	295	368	361	377	355	420	517	421
Produced from Co-Gen	MWH	257	225	247	274	259	252	239	233	193	243	232	281	229
Percent Produced	%	35%	29%	32%	33%	35%	38%	33%	32%	25%	30%	27%	29%	30%
Purchased from Solar	MWH	171	141	98	62	89	136	142	162	194	213	210	173	124
Percent Produced		20%	18%	37%	8%	12%	20%	19%	21%	25%	26%	27%	18%	16%
Purchased Natural Gas	Therms	1,222	1,633	1,800	2,220	1,807	1,595	2,132	1,920	1,253	1,346	1,549	1,338	1,779
Methane Flared Off	MCF	126	220	214	593	88	190	731	137	18	77	26	177	72
Stand By Calls	#	50	59	88	66	65	47	51	39	72	47	44	56	49
Violations	#	-	-	-	-	-	-	-	-	-	-	-	-	-

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
<u>Scheduled</u>													
Old	7	8	17	24	23	49	5	6	9	39	25	26	40
New	94	106	89	87	99	75	90	110	102	91	107	88	98
Completed	93	97	82	88	73	119	89	107	72	105	106	74	99
New Balance	8	17	24	23	49	5	6	9	39	25	26	40	39
<u>Unscheduled</u>													
Old	21	21	24	20	19	32	23	16	14	17	21	21	23
New	20	39	24	29	24	21	15	8	20	33	23	21	24
Completed	20	36	28	30	11	30	22	10	17	29	23	19	17
New Balance	21	24	20	19	32	23	16	14	17	21	21	23	30
<u>Total Work Orders</u>													
Old	28	29	41	44	42	81	28	22	23	56	46	47	63
New	114	145	113	116	123	96	105	118	122	124	130	109	122
Completed	113	133	110	116	84	149	112	118	90	135	130	93	116
New Balance	29	41	44	42	81	28	22	23	56	46	47	63	69
<u>LAB ANALYSES</u>													
Sample Type													
Regulatory	142	147	240	176	157	192	213	237	140	172	220	189	141
Process Control	818	893	1,010	1,072	1,208	1,039	1,058	1,015	708	815	776	772	700
Special Request	26	46	38	16	-	32	16	12	20	140	38	51	31
Quality Control/Assurance	607	774	957	839	923	1,324	1,043	1,058	595	622	661	674	577
TOTAL	1,593	1,860	2,245	2,103	2,288	2,587	2,330	2,322	1,463	1,749	1,695	1,686	1,449

**Summary of NSD Capital Project Status
through 09-30-20**

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	-	859	61,241	1%
13702	Manhole Raising/Rehab	250,000			250,000	-	3,851	246,149	2%
13703	Lateral Replacement/Rehab	113,900			113,900	-	34,260	79,640	30%
13704	Cleanouts Installation/Rehab	110,700		(12,000)	98,700	-	19,162	79,538	19%
13705	I&I Reduction Program	30,000	210,500		240,500	-	93	240,407	0%
14703	Browns Valley Rd & First St	14,000,000	5,733,950		19,733,950	15,843,015	2,219,094	1,671,842	11%
18702	Coll Sys Asset Mgmt Software	-	216,600		216,600	160,556	60,359	(4,315)	28%
19701	66-inch Trunk Rehab	11,000,000	4,086,550		15,086,550	268,429	8,643	14,809,479	0%
19703	Sewer System I&I 2020	3,850,000	2,341,400		6,191,400	4,852,056	910,466	428,879	15%
19727	Coll Sys Master Plan	-	100,000		100,000	-	1,578	98,422	2%
20702	Manhole Rehabilitation	250,000			250,000	39,230	-	210,770	-
20703	2021 Collection System Rehab	3,410,000	16,550		3,426,550	61,850	10,912	3,353,788	0%
21701	2022 Collection System Rehab	20,000			20,000	-	-	20,000	-
21718	NN Siphon Gate Replacement	-	-	25,000	25,000	-	-	25,000	-
	<u>COLLECTION SYSTEM - EQUIPMENT</u>								
21702	Pickup-mounted Camera Sys	65,000		12,000	77,000	-	-	77,000	-
	<u>COLLECTION SYSTEM - LIFT STATIONS</u>								
17711	West Napa PS - Rehab	5,500,000	4,546,450		10,046,450	7,798,809	798,377	1,449,265	8%
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	782,832	1,100,025	60,893	57%
18740	Treatment Plant Project 2019	-	64,850		64,850	49,604	396	14,850	1%
20706	WWTP Master Plan	1,235,400	950		1,236,350	693,518	9,586	533,246	1%
20707	Pond Levee Repair	700,000	9,150		709,150	158,317	55,536	495,298	8%
20708	2020 Treatment Plant Imprvmnts	-	1,407,600		1,407,600	162,240	26,167	1,219,193	2%
	<u>TREATMENT - EQUIPMENT</u>								
13735	Dual Fuel Boiler Burner	-	55,750		55,750	32,908	-	22,843	-

**Summary of NSD Capital Project Status
through 09-30-20**

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	496,533	438,836	294,831	36%
17726	Headworks Equip Rehab/Rplcmnt	-	240,700		240,700	86,476	17,993	136,231	7%
18718	Sec Clarifier Mech/Strct Rehab	83,200			83,200	-	-	83,200	-
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	14,359	43,004	17%
19715	ARV Rplcmnt	-	4,750		4,750	-	-	4,750	-
20709	AB Caustic Pumps & Enclosure	-	68,600		68,600	13,071	3,846	51,683	6%
20710	Septage Pump & Motor Rplcmnt	-	4,950		4,950	-	4,746	204	96%
20711	Marsh-to-Pond PS Upgrade	-	87,550		87,550	-	246	87,304	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	32,007	32,007	15,985	40%
20716	Plant Door Replacement PH 1	-	22,200		22,200	-	-	22,200	-
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	-	-	101,800	-
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			23,000	-	-	23,000	-
21710	Veh 175 - F-150	31,000			31,000	-	-	31,000	-
	<u>LAB - EQUIPMENT</u>								
21711	Autoclave Rplcmnt	34,400			34,400	-	-	34,400	-
21712	Sampler 4700 Rplcmnt	10,400			10,400	-	-	10,400	-
	<u>SCADA</u>								
18729	SCADA MP Proj 1 Ntwk Mntrng	-	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 09-30-20**

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	40,070	1,152	70,878	1%
20721	Kirkland RW Pipeline Rehab	-	12,900		12,900	95	6,848	5,956	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	-	707	79,293	1%
21715	Soscol Recycle Pump #2 Rehab	160,700			160,700	-	-	160,700	-
21716	Veh 174 - Ford F-350 SB	75,700			75,700	-	-	75,700	-
21717	Veh 723 - Water Trailer	42,800			42,800	-	-	42,800	-
	<u>OTHER</u>								
13729	Development Technical Support	348,800			348,800	-	63,735	285,065	18%
19723	AV Sys Rplcmnt - Conf Rms	-	20,000	20,000	40,000	-	-	40,000	-
		\$43,246,800	\$22,656,650	-	\$65,903,450	\$31,775,969	\$5,873,790	\$28,253,694	9%