



Napa Sanitation District

General Manager's Report

for

September, 2018

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NAPA SANITATION DISTRICT

General Manager's Report

DATE: November 7, 2018

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for September 2018

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, 2018 – September 30, 2018
Percent Fiscal Year:	25.0%
Operating Expenditures to date:	37.4%
Historical Expenditures to date:	33.2%
Significant Comments:	None

PERSONNEL:

Significant events for the month of September 2018 in the Human Resources Department:

New Hires:	None
Separations:	John Cunningham, Operator III, retirement
Promotions:	None
Recruitment Activities:	Continued recruitment for Operator-in-Training/Operator I
Injuries:	None

Summaries of Operational Highlights are on following pages.

COLLECTIONS:

Significant events for the month of September 2018 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 5 cleanouts and repaired 5 cleanouts. They also repaired 1 lateral and installed 8 lateral liners. Additionally, the service response/programs crew completed 101 work orders in support of the grease and odor control program, responded to 53 customer requests for service (16 were NSD problem) and closed out 289 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 61 laterals, cleaned approximately 69,335 feet of main line and CCTV inspected 232 laterals. In addition, the CCTV truck televised 14,718 feet of mainline.

TREATMENT PLANT:

Significant events for the month of September 2018 in the Treatment Plant Department:

Plant Operations:

- For September 2018, the plant's influent flow was 178.1 MG as compared to last year flow for September 2017 of 191.6 MG
- There was no Flow to the Napa River for September 2018.
- The production of recycle quality occurred for 30 days during September 2018 with a total distributed flow of 104.70 MG.
- There was 0.00" rainfall for September 2018 as compared to 0.04" rainfall for September 2017.
- Pond 4 end of the month recorded level reading was 49.38" as compared to September 2017 of 30.14". Total remaining pond capacity for September 2018 was 60.6% as compared to September 2017 remaining capacity of 56.00%.

Power Consumption and Production:

- This September power consumption purchased from PG&E was 241 MWH in comparison to September 2017 purchase of 476 MWH.
- Cogeneration unit ran 703 of 720 hours for the month – 97.64% uptime, averaging 352.09 Kw, producing 272 MWH of energy.
- Solar generation in September was 162 MWH, compared to 179 MWH in August.

Maintenance:

Significant events for the month of September 2018:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Replaced sump pump #2/day tank basement
- Digester tunnel exhaust fan/replaced belt
- Replaced refrigeration sensor on Headworks sampler
- Filter air compressor #2/replaced load valve air filter

Projects

- Designed, build and install new inlet screens at P4 pump station

Standby Power

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

Influent Pumps

- All pumps operational

Laboratory:

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

- September 4, 2018: Metals, Cyanide, Mercury

RECYCLING:

Significant events in the Recycling Department for September 2018 include:

- Recycled water delivered for the month of September 2018 was (109.266 million gallons), as compared to September 2017 (129.574 million gallons) District use in September 2018 was lower than the previous year. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff approved two connections in the MST area.
- Staff continued land application of biosolids on Somky Reuse Site for the reporting period.

POLLUTION PREVENTION:

Significant events in the Pollution Prevention and Outreach Division September 2018 include:

- There were 6 tours of the treatment plant given to community members.
- The annual NapaSan Open House was held on Saturday, September 22nd from 10am to 2pm. Approximately 150 people attended the event.
- NapaSan staff conducted two community outreach meetings for the Browns Valley Trunk Project.
- Staff worked with CivicPlus to re-design the NapaSan website, and the new site went live on September 20th.
- In September, 61 pounds of pharmaceuticals were collected at Family Drug in Napa for destruction. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 21,397.2 pounds.
- There were no ESME Washer Rebates issued this month.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

Significant events occurring in the Engineering Division for September 2018 include:

- Contractor continued construction of the Headworks Equipment Replacement Project.
- Staff continued receiving deliveries of floating reservoir covers for the Recycled Water Reservoir Improvements Project.
- Contractor continued construction of the 2018 Collection System Rehabilitation Project.
- Staff continued design of the 2019 Collection System Rehabilitation Project, and collaborated with Napa County staff to include roadway resurfacing in the project's scope. The project is now named the "Southeast Napa Sewer and Roadway Rehabilitation Project".
- Consultant/Contractor continued condition assessment phase for the 66-inch Trunk Sewer Rehabilitation Project.
- Contractor continued construction of the 2018 Manhole Adjustment Project, Phase VIII.
- Consultant began condition assessment phase for the Primary Clarifier Rehabilitation Project.
- Consultant continued design of the Browns Valley Trunk Project.
- Consultant continued design of the West Napa Pump Station Project.
- Consultant continued the preliminary design study for the Pond 1 Dredge Project.
- Consultant and Staff continued work on Phase 1A and Phase 1B of the Asset Management Program.
- Contractor continued construction of the 2018 Treatment Plant Improvement Project.
- Staff and consultant started design of the 2019 Treatment Plant Improvement Project.
- Consultant continued working on Phase 1 of the Collection System Master Plan.

- Consultant and Staff smoke tested over 9 miles of sewer mains and found 7 illicit connections with the potential for significant stormwater inflow.
- Staff reviewed 29 sets of development plans and deemed 12 sets of plans complete. The approved plans consisted of 1 recycled water lateral, 6 tenant improvements, 4 residential dwellings, and 1 residential lateral.

Budget Status & Cash Summary - July 1, 2018 - September 30, 2018 (25.0% of the year)

<i>Expenditures</i>	FY 18/19 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
Operating						
Salaries & Benefits	\$9,961,350	\$3,419	\$1,998,271	\$2,001,689	\$7,959,661	20.1%
Services & Supplies	\$6,160,950	1,538,397	892,702	2,431,099	3,729,851	39.5%
Taxes	29,150	-	-	-	29,150	0.0%
Debt Service	4,593,800	-	3,618,013	3,618,013	975,788 (1)	78.8%
Intrafund Transfers	8,900,000	-	2,225,000	2,225,000	6,675,000	25.0%
Total Operating:	\$29,645,250	\$1,541,815	\$8,733,986	\$10,275,801	\$19,369,449 (2)	34.7%
Capital						
Bldgs/Improvements & Equip	\$32,410,100	\$10,816,703	\$1,001,636	\$11,818,339	\$20,591,761 (3)	36.5%
Intrafund Transfers	7,250,000	-	3,998,618	3,998,618	3,251,382	55.2%
Total Capital :	\$39,660,100	\$10,816,703	\$5,000,253	\$15,816,957	\$23,843,143	39.9%
Grand Total Expenditures:	\$69,305,350	\$12,358,519	\$13,734,239	\$26,092,758	\$43,212,592	37.6%

<i>Revenues</i>	FY 18/19 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
Operating						
Use of Money/Property	\$1,036,000		\$487,051	\$487,051	\$548,949	47.0%
Intergovernmental	\$0		\$0	-	-	N/A
Charges for Services	29,571,800		1,545,198	1,545,198	28,026,602	5.2%
Miscellaneous Revenues	63,000		16,953	16,953	46,047	26.9%
Donations/Contributions (Capital Labor)	-		212,571	212,571	(212,571) (4)	N/A
Total Operating:	\$30,670,800		\$2,261,773	\$2,261,773	\$28,409,027	7.4%
Capital						
Use of Money/Property	\$0		\$12,291	\$12,291	(\$12,291)	N/A
Capacity Charges	4,614,600		959,691	959,691	3,654,909	20.8%
Intergovernmental	375,000		4,528	4,528	370,472	1.2%
Bond/Loan Proceeds	9,075,000		-	-	9,075,000	0.0%
Sale of Assets	25,000		78,200	78,200	(53,200)	N/A
Miscellaneous Revenues	5,000		-	-	5,000	N/A
Intrafund Transfers	16,150,000		6,223,618	6,223,618	9,926,382	38.5%
Total Capital:	\$30,244,600		\$7,278,328	\$7,278,328	\$22,966,272	24.1%
Grand Total Revenue:	\$60,915,400		\$9,540,101	\$9,540,101	\$51,375,299	15.7%

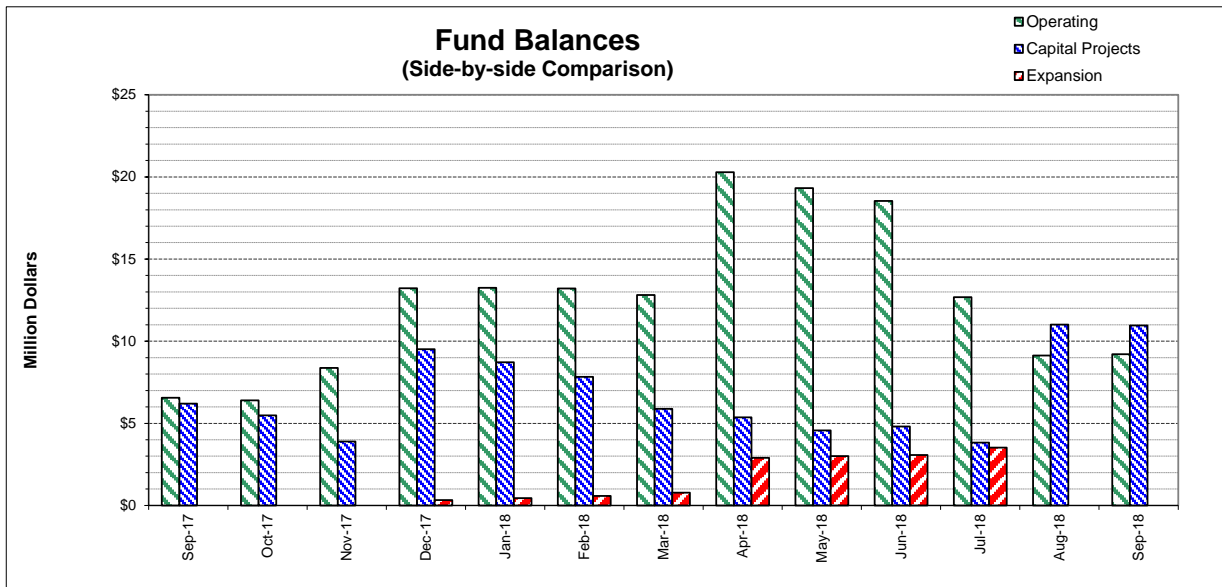
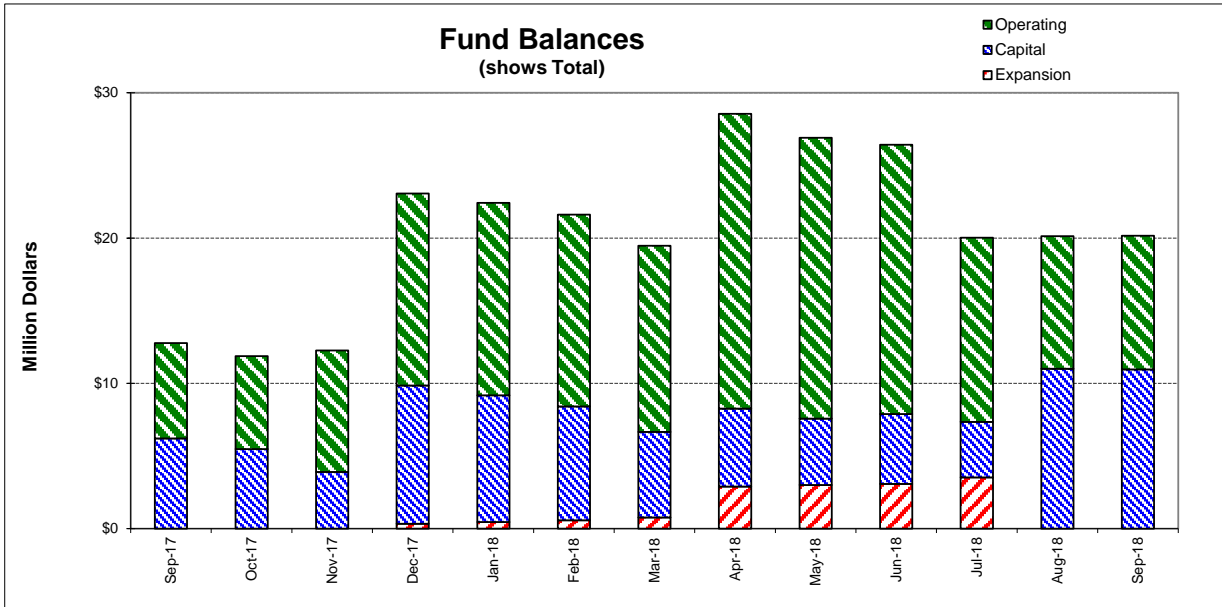
Cash on Hand as of 9/30/18

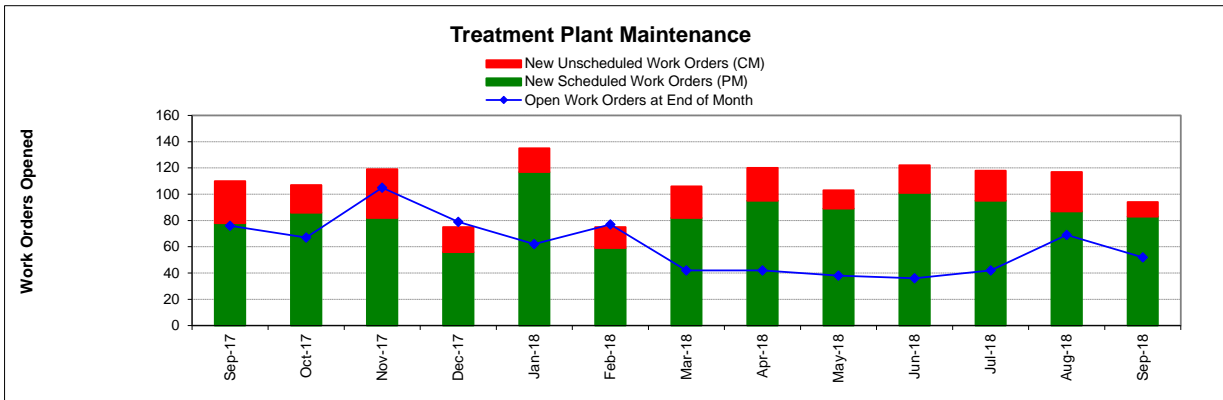
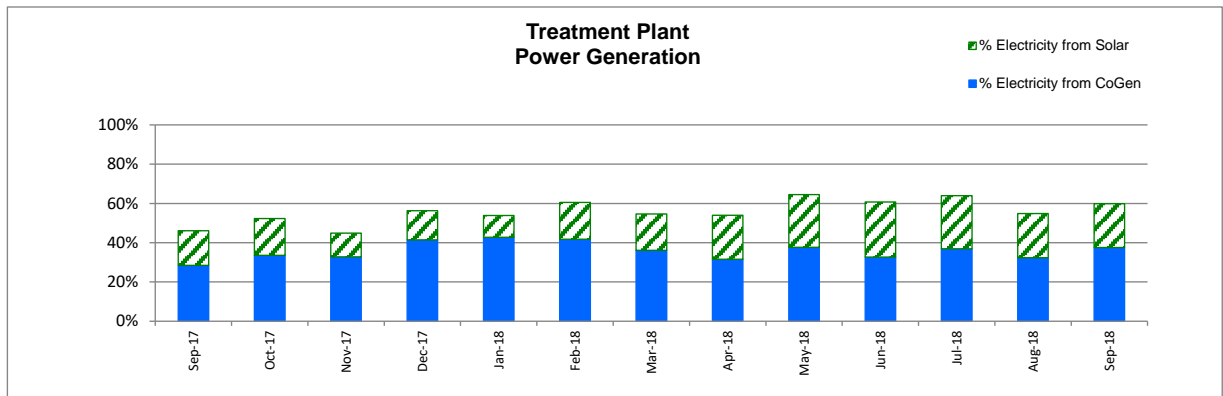
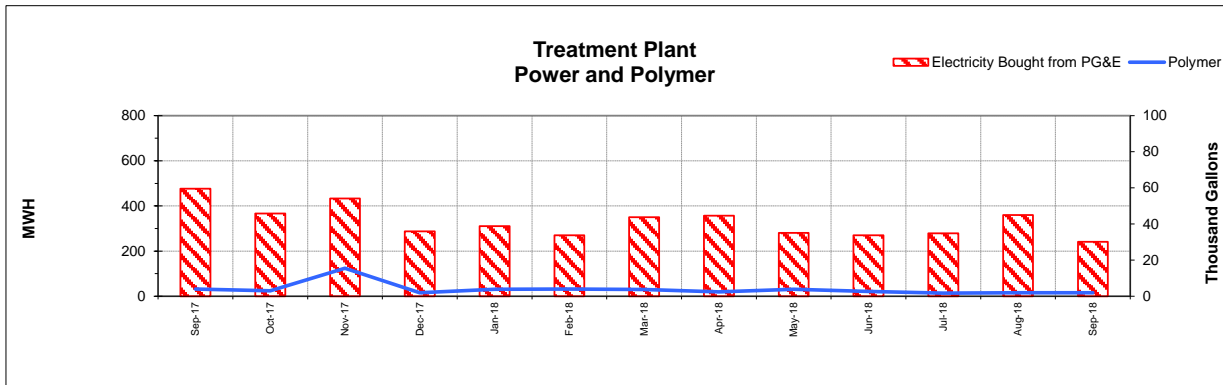
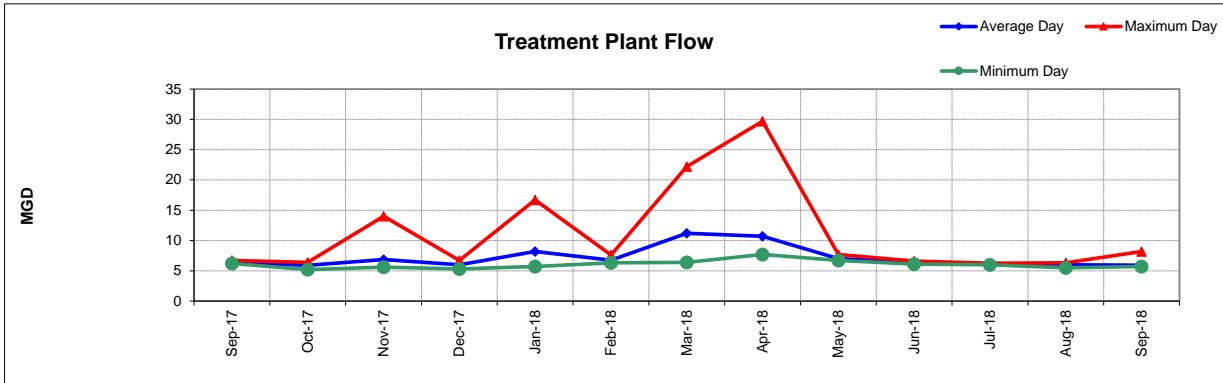
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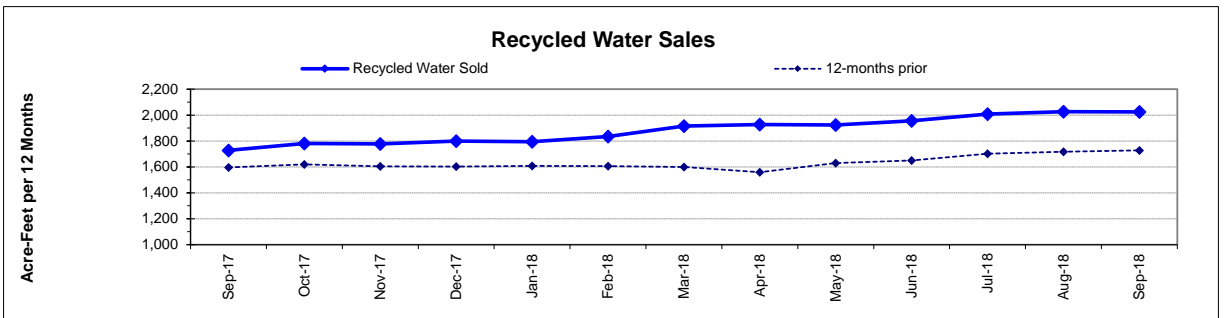
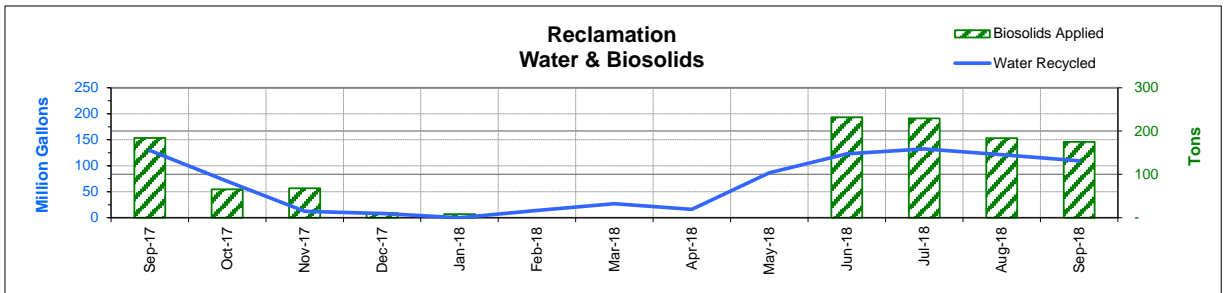
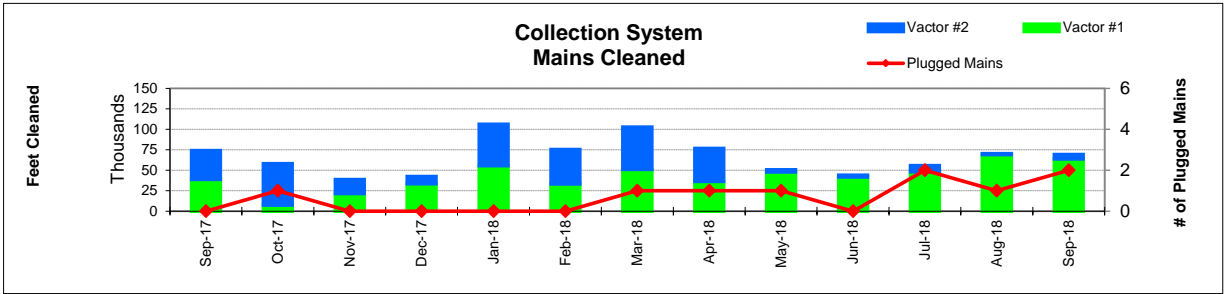
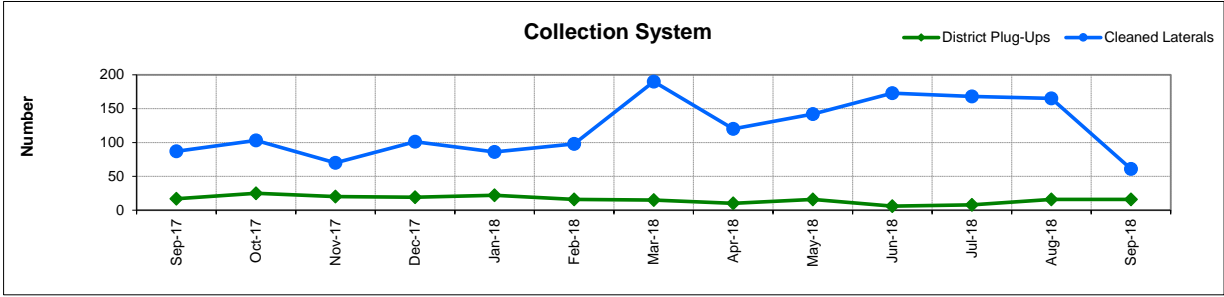
**excluding Debt Service restricted funds

9/30/18 -Effective Rate of Return = 1.88%

1. Series 2012A's and 2017's principal/interest payments are made in Aug & Feb
2. Includes Debt Service and Intrafund Transfers; otherwise is 27.4%
3. See Capital Project Status report for details
4. In-house Labor for Capital Projects (Contra acct for Salaries)







FUND BALANCES - MONTHLY

CATEGORY	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
<i>(Thousand Dollars)</i>													
7800	6,560	6,395	8,372	13,220	13,251	13,210	12,818	20,290	19,326	18,538	12,676	9,123	9,204
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	6,560	6,395	8,372	13,220	13,251	13,210	12,818	20,290	19,326	18,538	12,676	9,123	9,204
Capital Improvement Projects	6,205	5,480	3,897	9,514	8,720	7,830	5,877	5,365	4,573	4,808	3,825	11,009	10,956
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	6,205	5,480	3,897	9,514	8,720	7,830	5,877	5,365	4,573	4,808	3,825	11,009	10,956
Total Discretionary Funds	12,765	11,875	12,269	22,734	21,971	21,040	18,695	25,655	23,899	23,346	16,501	20,132	20,160
Expansion Fund (Restricted)	-	-	-	332	449	577	775	2,898	3,007	3,075	3,520	-	-
Total Restricted Funds	-	-	-	332	449	577	775	2,898	3,007	3,075	3,520	-	-
TOTAL ALL FUNDS	12,765	11,875	12,269	23,066	22,420	21,617	19,470	28,553	26,906	26,421	20,021	20,132	20,160

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
<u>Phone Requests</u>													
Maps/Drawings	5	6	3	3	6	6	6	3	6	8	4	2	2
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	4	7	8	6	4	12	17	5	9	8	9	10	4
Development Questions	28	39	40	23	55	63	39	44	79	80	61	63	28
Miscellaneous	3	2	3	10	8	7	15	11	17	27	37	24	26
TOTAL	40	54	54	42	73	88	77	63	111	123	111	99	60
<u>Counter Requests</u>													
Maps/Drawings	1	-	-	-	1	-	-	-	1	1	-	3	-
Lateral Permits	16	4	5	7	11	9	17	12	10	12	9	9	3
Policy Questions	2	2	1	2	-	2	2	-	1	-	2	3	-
Development Questions	8	7	9	9	7	9	15	11	13	12	12	9	5
Miscellaneous	2	3	-	1	1	1	3	-	1	1	2	2	2
TOTAL	29	16	15	19	20	21	37	23	26	26	25	26	10
<u>Initial Request (Referrals)</u>	14	11	17	5	7	13	20	15	20	13	13	17	16
<u>Connection Permits Issued</u>													
Residential Permits	2	1	1	5	3	12	19	16	3	3	5	16	9
Commercial Permits	4	2	2	3	5	3	1	3	2	3	5	5	1
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	6	3	3	8	8	15	20	19	5	6	10	21	10
Residential Units	2	1	1	5	3	12	336	16	3	3	5	16	18
Commercial Units	4	2	2	3	5	3	1	102	174	3	5	8	1
TOTAL UNITS	6	3	3	8	8	15	337	118	177	6	10	24	19
<u>Annexations</u>													
Submitted	-	-	-	-	-	-	-	-	-	-	1	1	1
Acreage	-	-	-	-	-	-	-	-	-	-	0.60	11.60	5.79
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	10	6	2	3	9	19	18	14	4	10	10	18	9
Second Submittal	1	1	1	4	2	5	9	6	8	3	5	8	4
Third Submittal	1	7	2	3	5	4	6	2	2	2	3	3	4
<u>Building/Tenant Improvements</u>													
First Submittal	15	9	5	10	5	16	14	7	19	18	10	8	8
Second Submittal	5	9	10	3	1	2	9	1	7	6	8	6	1
Third Submittal	3	2	7	5	2	3	3	4	2	3	5	4	3
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	35	34	27	28	24	49	59	34	42	42	41	47	29

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
<u>CONSTRUCTION</u>													
Locating Sewers	-	1	-	-	-	-	-	-	-	-	-	1	-
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	-	-	1	1	7	7	5	5	7	2	3	1	3
Inspections - Mains	2	-	-	5	-	20	6	2	4	-	2	6	11
Inspections - Manholes	40	72	45	62	41	38	13	16	25	12	-	6	76
Inspections - Laterals	6	2	7	15	23	26	23	17	25	15	7	13	3
Inspections - Cleanouts	4	4	11	10	31	36	24	26	43	7	3	2	2
Inspections - Review Video	-	-	-	-	-	-	1	2	-	17	1	-	2
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	-	-	-	-	-	-	-	-	1	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	52	79	64	93	102	127	72	68	104	53	17	29	97
<u>MISCELLANEOUS</u>													
Meter Readings	-	-	-	-	11	24	-	1	13	-	-	-	-
Washdown Facility Inspections	-	-	-	-	-	-	-	12	-	-	-	-	-
General Customer Assistance	30	31	30	25	26	18	38	11	28	21	40	27	31
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	30	31	30	25	37	42	38	24	41	21	40	27	31
<u>SPECIAL PROJECTS</u>	36	24	6	1	7	0	5	6	0	9	21	23	35

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
<u>Outreach Activities</u>													
Plant Tours Conducted	9	1	2	0	3	0	1	5	5	3	1	3	6
Presentations Made	3	0	0	0	0	0	2	1	5	0	1	0	2
Total Outreach Activities	12	1	2	-	3	-	3	6	10	3	2	3	8
<u>Inspections Conducted</u>													
Food Service Facilities	-	-	-	-	6	22	64	51	10	-	-	-	-
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	1	-	-	-	-	-	-	-	-	-	-
Total Inspections	-	-	1	-	6	22	64	51	10	-	-	-	-
<u>Compliance Issues</u>													
NOVs Issued	1	2	-	1	-	3	2	2	1	3	-	3	1
NOEs Issued	1	1	-	1	1	3	-	1	-	1	-	1	-
Non-Compliant-FOG	-	-	-	1	-	-	-	-	-	-	-	-	-
Total Compliance Issues	2	3	-	3	1	6	2	3	1	4	-	4	1
<u>Pollution Prevention</u>													
Clothes Washer Rebates	19	-	-	-	25	14	21	-	8	21	-	-	-
Toilet Retrofit Rebates	3	-	-	-	-	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	-	59	63	-	35	-	82	66	-	74	90	65	61

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
<u>MONTHLY (MG)</u>														
<u>Water Sold</u>														
Golf Courses	405.0	53.035	26.903	5.504	6.253	0.001	6.152	2.748	3.320	52.726	68.294	64.047	57.269	44.197
Cemeteries	57.1	0.634	0.833	0.193	0.003	-	0.005	0.154	0.385	3.183	3.643	4.903	4.920	4.142
Parks	18.5	0.650	0.333	0.020	-	-	-	-	-	0.823	0.949	1.051	0.846	0.527
Schools	21.0	1.613	1.485	0.195	0.019	-	0.255	0.198	0.242	1.727	2.151	2.122	2.044	1.571
Commerical	167.6	15.227	13.665	4.387	1.402	-	1.835	1.765	3.169	9.893	12.414	15.863	19.184	16.950
Vineyards	564.0	18.019	16.506	1.766	0.225	-	5.695	21.988	8.001	6.377	21.260	43.468	32.727	21.248
Trucked Water	175.0	0.274	0.197	0.030	0.014	-	0.017	0.029	0.880	0.143	0.737	0.666	0.637	0.399
Subtotal Sales	1,408.2	89.451	59.922	12.095	7.916	0.001	13.960	26.881	15.996	74.872	109.448	132.120	117.628	89.035
<u>District Use</u>														
Jameson	330.0	20.751	-	-	-	-	0.077	-	-	-	-	-	0.163	4.785
Somky	213.0	19.372	10.364	-	-	-	-	-	-	11.710	13.263	0.208	3.226	15.447
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	40.122	10.364	-	-	-	0.077	-	-	11.710	13.263	0.208	3.389	20.232
TOTAL DELIVERED	2,001.7	129.574	70.286	12.095	7.916	0.001	14.037	26.881	15.996	86.582	122.711	132.327	121.016	109.266
<u>ANNUAL (AF)</u>														
<u>Water Sold</u>														
Golf Courses	405.0	1,044	1,048	1,045	1,064	1,064	1,083	1,091	1,093	1,091	1,097	1,067	1,063	1,035
Cemeteries	57.1	13	15	16	16	16	16	16	17	25	34	46	58	69
Parks	18.5	13	13	14	14	14	14	14	14	14	14	14	14	14
Schools	21.0	33	36	36	36	36	37	37	38	39	38	37	37	37
Commerical	167.6	310	322	325	328	324	329	333	335	318	303	298	303	309
Vineyards	564.0	310	342	336	336	336	353	420	423	427	460	534	540	550
Trucked Water	175.0	5	6	6	5	5	5	5	8	8	10	11	11	12
Subtotal Sales	1,408.2	1,728	1,782	1,778	1,799	1,794	1,835	1,916	1,928	1,923	1,955	2,008	2,026	2,025
<u>District Use</u>														
Jameson	330.0	182	143	143	143	143	143	143	143	143	143	121	64	15
Somky	213.0	222	223	223	223	223	223	223	223	240	244	210	178	166
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	404	366	366	366	366	366	366	366	383	387	330	243	182
TOTAL DELIVERED	2,001.7	2,132	2,148	2,144	2,165	2,160	2,202	2,282	2,294	2,306	2,343	2,338	2,269	2,207

BIOSOLIDS HANDLING - MONTHLY

Site	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
<u>Land Applied by NSD</u>													
Somky													175
Airport/Fagundes													
Jameson Canyon	184	65	68	11	8	-	-	-	-	232	229	184	
Subtotal by NSD	184	65	68	11	8	-	-	-	-	232	229	184	175
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	184	65	68	11	8	-	-	-	-	232	229	184	175
Off Site (Contractor)													
Total (tons)	184	65	68	11	8	-	-	-	-	232	229	184	175

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
<u>Plugups</u>													
Total Calls	42	54	63	48	62	49	67	40	44	25	37	39	53
Business Hours	26	33	38	27	40	35	53	23	32	16	24	28	32
After Hours	16	21	25	21	22	14	16	17	12	9	9	11	21
District's	17	25	20	19	22	16	15	10	16	6	8	16	16
Property Owner's	25	29	43	29	40	33	40	30	28	19	29	23	36
Plugged Main Lines							1	1	1		2	1	2
Run Lateral w/Eel	87	103	70	101	86	98	190	120	142	173	168	165	61
<u>Cleaning (feet of sewer)</u>													
Vactor #1	38,849	7,417	21,500	33,612	55,782	33,391	51,027	36,507	47,937	41,767	48,278	69,132	63,968
Vactor #2	35,140	50,621	17,254	8,642	50,441	41,842	51,666	40,119	2,708	2,065	7,290	1,072	5,367
Hydro				1,251									
Rodder					765								
Total (feet)	73,989	58,038	38,754	43,505	106,988	75,233	102,693	76,625	50,645	43,832	55,568	70,204	69,335
<u>Cleaning Days</u>													
Total	25	21	20	19	33	24	33	27	21	20	19	22	22
Vactor #1	14	3	10	14	18	11	15	14	20	19	16	21	19
Vactor #2	11	18	10	5	14	13	18	13	1	1	3	1	3
Hydro													
Rodder					1								
<u>Feet/day</u>													
Total	2,950	2,750	1,950	2,300	3,250	3,150	3,100	2,850	2,400	2,200	2,900	3,200	3,150
Vactor #1	2,750	2,450	2,150	2,400	3,100	3,050	3,400	2,600	2,400	2,200	3,000	3,300	3,350
Vactor #2	3,200	2,800	1,750	1,750	3,600	3,200	2,850	3,100	2,700	2,050	2,450	1,050	1,800
Hydro													
Rodder					750								
<u>Video Inspections</u>													
Mains (feet)			10,767	6,320	17,644	12,878	21,714	18,530	26,140	18,248	18,188	22,781	14,718
Laterals (each)	170	184	172	186	114	122	211	179	197	223	266	234	232
<u>Construction (each)</u>													
Cleanouts	7	4	6	11	15	16	8	6	10	8	27	25	6
Laterals	1	1	1	1	1	4	1	10	24	10	9	8	8
Mains				1		1							
Manholes								1	2			2	1
Other		57	79					3					
<u>USA Markings</u>													
Regular (w/in 2 days)	233	252	363	210	281	277	266	280	282	277	397	296	286
Emergency (w/in 2 hours)	7	33	9	13	15	3	18	31	37	16	8	12	15

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
FLOWES		30	31	30	31	31	28	31	30	31	30	31	31	30
Influent	MG	191.6	183.0	205.5	186.3	254.0	189.3	347.0	321.5	216.7	191.0	189.8	186.1	178.1
Average Day	MGD	6.4	5.9	6.9	6.0	8.2	6.8	11.2	10.7	7.0	6.4	6.1	6.0	5.9
Maximum Day	Date	18-Sep	11-Oct	17-Nov	1-Dec	10-Jan	1-Feb	23-Mar	8-Apr	1-May	4-Jun	1-Jul	19-Aug	16-Sep
Maximum Day Flow	MG	6.7	6.4	14.0	6.7	16.7	7.6	22.2	29.7	7.7	6.6	6.3	6.3	8.2
Minimum Day	Date	4-Sep	1-Oct	1-Nov	26-Dec	2-Jan	24-Feb	1-Mar	30-Apr	31-May	27-Jun	6-Jul	22-Aug	21-Sep
Minimum Day Flow	MG	6.2	5.2	5.6	5.3	5.7	6.3	6.4	7.7	6.7	6.1	6.0	5.5	5.7
Effluent	MG	142.9	80.0	314.7	169.1	302.3	176.2	415.7	342.1	95.8	134.0	133.0	124.4	104.7
River Discharge	MG	-	-	305.8	163.8	302.0	164.6	398.9	319.8	-	-	-	-	-
Recycled Flow	MG	142.9	73.0	8.9	5.3	0.3	14.4	23.0	20.2	95.8	134.0	133.0	124.4	104.7
BIOSOLIDS	Tons	703	612	731	617	713	770	836	605	719	760	798	775	943
Wet Tons Generated from Pond	Tons													
Wet Tons Generated from Plant	Tons	703	612	731	617	713	770	836	605	719	760	798	775	943
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
POLYMER USE	Gallons	3,927	3,051	15,506	1,939	3,839	3,931	3,764	2,365	3,816	2,636	1,732	1,936	1,915
Pond Pre-Flocculators	Gallons	-	-	11,711		2,460	-	-	282	-	-	-	-	-
Flocculator Polymer 1	Gallons													
Flocculator Polymer 2	Gallons	115	-	-	250	589	253	1,033	452	-	-	-	-	-
Filter Polymer 1	Gallons	3,077	2,358	830	728		3,019	1,963	1,015	2,850	1,677	824	1,361	1,259
Filter Polymer 2	Gallons				151	790			-	-	-	-	-	-
Belt Presses	Gallons	735	693	784	810	13	659	769	617	966	959	908	575	656
ENERGY														
Total Electricity Used	MWH	870	747	719	658	673	684	759	777	748	813	775	797	725
Purchased from PGE	MWH	476	367	433	287	311	270	350	357	281	270	279	360	241
Produced from Co-Gen	MWH	248	251	236	273	288	286	269	245	282	266	286	258	272
Percent Produced	%	29%	34%	33%	41%	43%	42%	36%	32%	38%	33%	37%	32%	38%
Purchased from Solar	MWH	153	140	87	98	74	128	140	175	200	227	210	179	162
Percent Produced		18%	19%	12%	15%	11%	19%	18%	22%	27%	28%	27%	22%	22%
Purchased Natural Gas	Therms	60	19	99	91	2,404	1,214	166	24	22	63	116	68	34
Methane Flared Off	KSCF	164	5	82	192	523	733	79	43	110	308	344	259	391
Stand By Calls	#	78	36	47	66	23	43	40	36	135	52	57	71	40
Violations	#	-	-	-	-	-	-	-	-	-	-	-	-	-

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
<u>Scheduled</u>													
Old	17	33	33	61	39	27	39	12	6	8	9	13	31
New	78	86	82	56	117	59	82	95	89	101	95	87	83
Completed	62	86	54	78	129	41	109	101	87	100	91	69	94
New Balance	33	33	61	39	27	39	12	6	8	9	13	31	20
<u>Unscheduled</u>													
Old	38	43	34	44	40	35	38	30	36	30	27	29	38
New	32	21	37	19	18	16	24	25	14	21	23	30	11
Completed	27	30	27	23	23	13	32	19	20	24	21	21	17
New Balance	43	34	44	40	35	38	30	36	30	27	29	38	32
<u>Total Work Orders</u>													
Old	55	76	66	105	79	62	77	42	42	38	36	42	69
New	110	107	119	75	135	75	106	120	103	122	118	117	94
Completed	89	117	81	101	152	60	141	121	107	125	112	90	111
New Balance	76	67	105	79	62	77	42	42	38	36	42	69	52
<u>LAB ANALYSES</u>													
<u>Sample Type</u>													
Regulatory	194	156	178	163	123	190	208	200	188	146	139	182	132
Process Control	1,091	1,137	1,220	1,139	1,071	1,080	1,103	1,103	796	871	917	890	926
Special Request	7	8	4	6	4	2	4	1	6	34	2	-	-
Quality Control/Assurance	428	420	1,110	874	692	794	741	936	489	500	483	622	401
TOTAL	1,720	1,721	2,512	2,182	1,890	2,066	2,056	2,240	1,479	1,551	1,541	1,694	1,459

**Summary of NSD Capital Project Status
through 09-30-18**

Proj #	Description	FY 18/19 Budget	FY 17/18 Carryovers	Adj.	Final FY 18/19 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<u>COLLECTION SYSTEM</u>								
13701	Main Line Sewer Rehabilitation	95,000			95,000	-	1,071	93,929	1%
13702	Manhole Raising/Rehabilitation	428,500			428,500	264,200	11,350	152,950	3%
13703	Lateral Replacement/Rehabilitation	77,100			77,100	10,252	21,781	45,067	28%
13704	Cleanouts Installation/Rehabilitation	93,200			93,200	-	30,276	62,924	32%
13705	Inflow & Infiltration (I&I) Reduction Program	214,200			214,200	149,291	9,230	55,680	4%
14703	Browns Valley Rd & First St	5,075,000			5,075,000	105,605	47,563	4,921,832	1%
17704	Infltrtn Rehab - SSMH/PL (CI-)	-	73,900		73,900	-	-	73,900	-
17708	Basin G - I&I Reduction #1	-	200,000		200,000	6,334	165,371	28,296	83%
18701	I&I Smoke Testing	-	99,750		99,750	63,596	4,611	31,543	5%
18702	Collection System Asset Management Software	275,000	349,550		624,550	476,119	16,705	131,726	3%
18703	Upper Lateral Rehab - Basin L (Pilot) #3	-	5,000		5,000	-	-	5,000	-
18705	Sewer System Inflow/Infiltration 2018	2,600,000	2,298,750		4,898,750	4,454,072	46,437	398,241	1%
18706	Sewer System Inflow/Infiltration 2019	2,321,100	13,900	335,850	2,670,850	-	9,633	2,661,217	0%
19701	66-inch Trunk Rehabilitation (Kaiser to IPS)	1,400,000			1,400,000	197,347	13,512	1,189,141	1%
19702	72-inch Trunk Construction (Kaiser to IPS)	1,000,000		(1,000,000)	-	-	-	-	-
19703	2020 Collection System Rehabilitation	20,000			20,000	-	-	20,000	-
19727	Collection System Master Plan	-		1,000,000	1,000,000	401,261	9,347	589,392	1%
	<u>COLLECTION SYSTEM - EQUIPMENT</u>								
18708	Manhole - Smart Covers (4)	-	15,000		15,000	-	-	15,000	-
18738	Combination Truck Veh #529B	-	3,600		3,600	-	-	3,600	-
19704	Vehicle 180 - Ford F150 - USA Truck	35,400			35,400	-	-	35,400	-
	<u>LIFT STATIONS</u>								
17711	West Napa PS - Rehab	5,200,000			5,200,000	783,281	5,995	4,410,724	0%
19705	Stonecrest PS Pump Rebuild	45,000			45,000	-	-	45,000	-
	<u>TREATMENT</u>								
13745	Pond 1 Dredge	600,000			600,000	21,032	1,615	577,353	0%
	<u>TREATMENT - EQUIPMENT</u>								
13735	Dual Fuel Boiler Burner	-	155,300		155,300	-	-	155,300	-
15711	Rotork Actuator Replacement	-	7,600		7,600	-	-	7,600	-
15713	Aeration Basin Instrmntn/Ctrl	-	6,750		6,750	-	-	6,750	-

**Summary of NSD Capital Project Status
through 09-30-18**

Proj #	Description	FY 18/19 Budget	FY 17/18 Carryovers	Adj.	Final FY 18/19 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
16712	Main - Primary Clarifier Mech/Struct Rehabilitation	150,000			150,000	-	1,203	148,797	1%
17713	Secondary PS VFD Rplcmnt (3)	57,400			57,400	-	-	57,400	-
17715	Turbidimeters (7) Tertiary Rplcmnts	-	16,000		16,000	-	-	16,000	-
18711	3W Strainer	-	52,750		52,750	-	-	52,750	-
18715	Muffle Furnace - Replacement	-	5,000		5,000	-	-	5,000	-
18716	Rotork Actuator Replacement	-	67,200	18,600	85,800	-	-	85,800	-
18719	Filter Flow Control - Rotork Valves	-	46,600		46,600	-	-	46,600	-
18720	Neuros Blowers Rebuild	64,300			64,300	-	-	64,300	-
18722	FOG Station Water Heater	-	5,000		5,000	-	-	5,000	-
18725	Belt Press Hydraulic Actuator Replace	-	20,000		20,000	-	18,764	1,236	94%
18740	Main - Chemical Storage Building Piping Repair	250,000	25,000	1,000,000	1,275,000	18,338	6,737	1,249,925	1%
19706	WWTP MP - 3W System Improvements Phase 2	300,000			300,000	-	-	300,000	-
19707	Portable Pumps 10-inch (2)	172,100			172,100	-	-	172,100	-
19708	Main - Rotork Actuator Replacement	95,000			95,000	-	-	95,000	-
19709	Main - Polymer Tank (3) Replacement	10,000			10,000	-	-	10,000	-
19710	Main - 12kV Redundant Line	120,000			120,000	-	-	120,000	-
19711	Main - CCB Coating - E&W Channels	50,000			50,000	-	-	50,000	-
19712	Main - Utility Generator Power Transition	75,000			75,000	-	-	75,000	-
19713	Main - Cogen Hot Water to FOG Pad	50,000			50,000	-	-	50,000	-
19714	Main - Ventilation System Expansion Boots	50,000			50,000	-	-	50,000	-
19715	Main - ARV Replacement	30,000			30,000	-	28,922	1,078	96%
19716	Main - P4PS Pump #3 Rebuild	40,000			40,000	34,086	-	5,914	-
	<u>TREATMENT - STRUCTURES</u>								
17726	Headworks Equipment Rehab/Replacment	1,900,000	9,250		1,909,250	1,467,174	12,594	429,483	1%
18736	Treatment Plant Project 2018	2,100,000	854,000		2,954,000	2,293,760	338,733	321,507	11%
19717	WWTP MP - Pond Transfer Structures 2 to 3	5,000			5,000	-	64	4,936	1%
	<u>SCADA</u>								
18729	SCADA MP Project #1 - Network Monitoring	-	48,700		48,700	-	2,275	46,425	5%
19718	SCADA MP Phase 5 Security Study	250,000			250,000	-	-	250,000	-
	<u>RECYCLING - DISTRICT</u>								
16716	Line Recycled Water Reservoir	-	100,000		100,000	-	64,556	35,444	65%
18730	Jameson 24" Flow Meter Rehab	-	6,200		6,200	-	-	6,200	-

**Summary of NSD Capital Project Status
through 09-30-18**

Proj #	Description	FY 18/19 Budget	FY 17/18 Carryovers	Adj.	Final FY 18/19 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
18731	Coombsville Truck Fill Station	375,000	65,050		440,050	70,955	4,528	364,567	1%
19719	24-inch Valve Replacement - Kirkland Line	5,000			5,000	-	-	5,000	-
19720	Jameson PS VFD	68,900			68,900	-	-	68,900	-
19721	Soscol RW Pump Replacement/Rehab	150,000			150,000	-	-	150,000	-
19722	Vehicle 723/720 - Attachments/Implements	28,700			28,700	-	-	28,700	-
	<u>RECYCLING - EXPANSION</u>								
13727	North Bay Wate Reuse Project	150,000			150,000	-	54,031	95,970	36%
	<u>OTHER</u>								
13729	Development Technical Support	248,300		120,100	368,400	-	73,039	295,361	20%
19723	AV System Replacement - Conference Rooms	20,000			20,000	-	-	20,000	-
19724	Fence Repair - District Wide	25,000			25,000	-	-	25,000	-
19725	Vehicle 011 - CSET Trailer	23,700			23,700	-	-	23,700	-
19726	Vehicle 607 - Electrical Hybrid Vehicle	42,800			42,800	-	1,697	41,103	4%
GRAND TOTAL ALL PROJECTS		\$26,385,700	\$4,549,850	\$1,474,550	\$32,410,100	\$10,816,703	\$1,001,636	\$20,591,761	3%