



Napa Sanitation District

General Manager's Report

for

October, 2018

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NAPA SANITATION DISTRICT

General Manager's Report

DATE: December 5, 2018

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for October 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 – October 31, 2018
Percent Fiscal Year:	33.3%
Operating Expenditures to date:	38.5%
Historical Expenditures to date:	39.2%
Significant Comments:	None

PERSONNEL:

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

New Hires:	None
Separations:	None
Promotions:	None
Recruitment Activities:	Continued recruitment for Operator-in-Training/Operator I; in-house posting for Collection System Technician
Injuries:	None

Summaries of Operational Highlights are on following pages.

COLLECTIONS:

Significant events for the month of October 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 3 cleanouts and repaired 1 cleanout. They also repaired 2 laterals and installed 2 lateral liners. Additionally, the service response/programs crew completed 132 work orders in support of the grease and odor control program, responded to 66 customer requests for service (21 were NSD problem) and closed out 391 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 11 laterals, root foamed 11 laterals, cleaned approximately 80,187 feet of main line and CCTV inspected 230 laterals. In addition, the CCTV truck televised 31,818 feet of mainline.
- Collections crews also laid 330 feet of 6" mainline through Fairview Park due to construction upgrades in the area. This took a week and a half and was used as a training exercise for some of the newer employees in the department.

TREATMENT PLANT:

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

Plant Operations:

- For October 2018, the plant's influent flow was 180 MG as compared to last year flow for October 2017 of 182.9 MG
- There was no Flow to the Napa River for October 2018.
- The production of recycle quality occurred for 31 days during October 2018 with a total distributed flow of 68.07 MG.
- There was 0.56" rainfall for October 2018 as compared to 0.18" rainfall for October 2017.
- Pond 4 end of the month recorded level reading was 73.85" as compared to October 2017 of 28.96". Total remaining pond capacity for October 2018 was 37% as compared to October 2017 remaining capacity of 54.7%.
- Pond 1 levee excavation and re-compaction performed by Collections Department.

Power Consumption and Production:

- This October power consumption purchased from PG&E was 387 MWH in comparison to October 2017 purchase of 367 MWH.
- Cogeneration unit ran 691 of 744 hours for the month – 92.88% uptime, averaging 326.28 Kw, producing 243 MWH of energy.
- Solar generation in October was 99 MWH, compared to 162 MWH in September.

Maintenance:

Significant events for the month of October 2018:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Replaced 12Kv jumpers in Switchgear “M”
- Replaced batteries in Switchgear “M”
- Rebuilt Recycle #1 Pump and Motor
- Replaced Day Tank level transmitter
- Installed 3 new thermocouples in flare stack
- Replace 20’ of plant air piping
- AB gallery sump pump #1/replaced
- Jameson Ranch/replaced “E” field irrigation controller

Projects

- Equipment Audit;
 - EQ Basin
 - DAF Clarifier/Equipment Pad
 - Secondary Clarifiers
 - Secondary Pump Station

Standby Power

- Plant generators operated in stand-by mode for 31 hours, due to faulty jumpers in Switchgear “M”
- 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:

- October 1, 2018: Metals, Cyanide, Mercury

RECYCLING:

Significant events in the Recycling Department for October 2018 include:

- Recycled water delivered for the month of October 2018 was (69.709 million gallons), as compared to October 2017 (70.286 million gallons) is slightly lower from the previous year due to golf course and vineyard demand. 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 Jameson Reuse Site for the reporting period.

POLLUTION PREVENTION:

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

- The first NapaSan Citizens Academy was held in October. Twenty-one community members joined us for the plant tour and three evening sessions.
- There were 4 tours of the treatment plant given to community members and students.
- NapaSan staff gave 10 presentations in October, including 7 presentations to the biology classes at Napa High School.
- The weight of pharmaceuticals collected in October at Family Drug in Napa was 68 pounds. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 21,465.2 pounds.
- There were no ESME Washer Rebates issued this month.
- NapaSan helped to sponsor and publicize the community drug takeback event held on Saturday, October 27, 2018. At the event, 1,007 pounds of medicines and 375 pounds of sharps were collected and properly disposed of.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

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

- Consultant began work on the SCADA Master Plan.
- 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 completed design and issued Notice Inviting Bids for the Southeast Napa Sewer and Roadway Rehabilitation Project.
- Consultant continued condition assessment phase for the 66-inch Trunk Sewer Rehabilitation Project.
- Contractor completed construction of the 2018 Manhole Adjustment Project, Phase VIII.
- Consultant continued 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 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 continued design of the 2019 Treatment Plant Improvement Project.
- Staff continued design of the Pond Transfer Structure Project
- Consultant continued working on the Collection System Master Plan.
- Staff and Consultant started design of the MST Truck Fill Station.
- Staff reviewed 34 sets of development plans and deemed 20 sets of plans complete. The approved plans consisted of 2 recycled water laterals, 10 tenant improvements, 8 residential dwellings, and 1 residential lateral.

Budget Status & Cash Summary - July 1, 2018 - October 31, 2018 (33.3% 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	\$2,702,777	\$2,706,195	\$7,255,155	27.2%
Services & Supplies	\$6,160,950	1,396,655	1,461,426	2,858,081	3,302,869	46.4%
Taxes	29,150	-	-	-	29,150	0.0%
Debt Service	4,593,800	-	3,619,603	3,619,603	974,198 (1)	78.8%
Intrafund Transfers	8,900,000	-	2,225,000	2,225,000	6,675,000	25.0%
Total Operating:	\$29,645,250	\$1,400,073	\$10,008,806	\$11,408,879	\$18,236,371 (2)	38.5%
Capital						
Bldgs/Improvements & Equip	\$32,410,100	\$8,246,996	\$4,480,137	\$12,727,134	\$19,682,966 (3)	39.3%
Intrafund Transfers	7,250,000	-	4,308,237	4,308,237	2,941,763	59.4%
Total Capital :	\$39,660,100	\$8,246,996	\$8,788,375	\$17,035,371	\$22,624,729	43.0%
Grand Total Expenditures:	\$69,305,350	\$9,647,070	\$18,797,180	\$28,444,250	\$40,861,100	41.0%

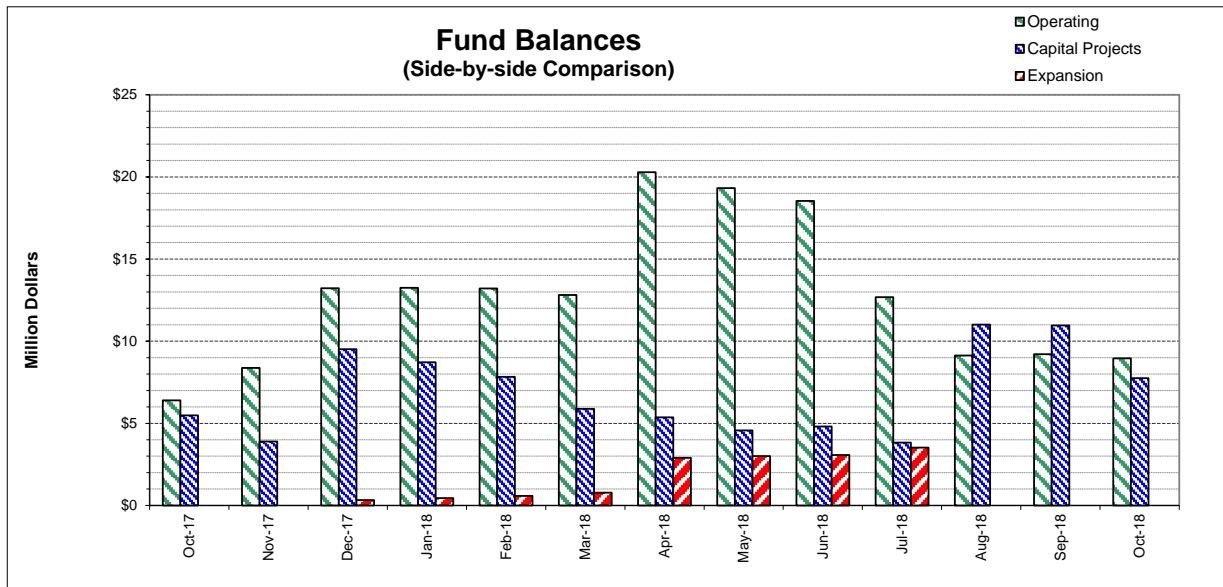
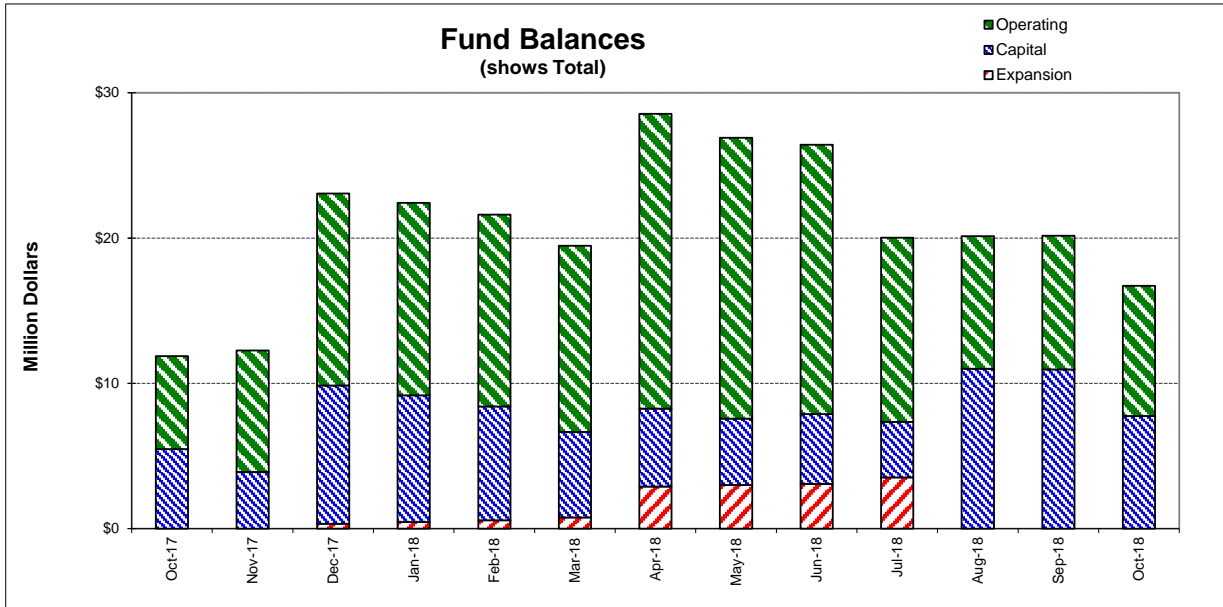
<i>Revenues</i>	FY 18/19 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
Operating						
Use of Money/Property	\$1,036,000		\$458,229	\$458,229	\$577,771	44.2%
Charges for Services	29,571,800		2,119,379	2,119,379	27,452,421	7.2%
Miscellaneous Revenues	63,000		23,215	23,215	39,785	36.8%
Donations/Contributions (Capital Labor)	-		302,537	302,537	(302,537) (4)	N/A
Total Operating:	\$30,670,800		\$2,903,360	\$2,903,360	\$27,767,440	9.5%
Capital						
Use of Money/Property	\$0		\$0	\$0	\$0	N/A
Capacity Charges	4,614,600		1,278,624	1,278,624	3,335,976	27.7%
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		6,533,237	6,533,237	9,616,763	40.5%
Total Capital:	\$30,244,600		\$7,894,589	\$7,894,589	\$22,350,011	26.1%
Grand Total Revenue:	\$60,915,400		\$10,797,949	\$10,797,949	\$50,117,451	17.7%

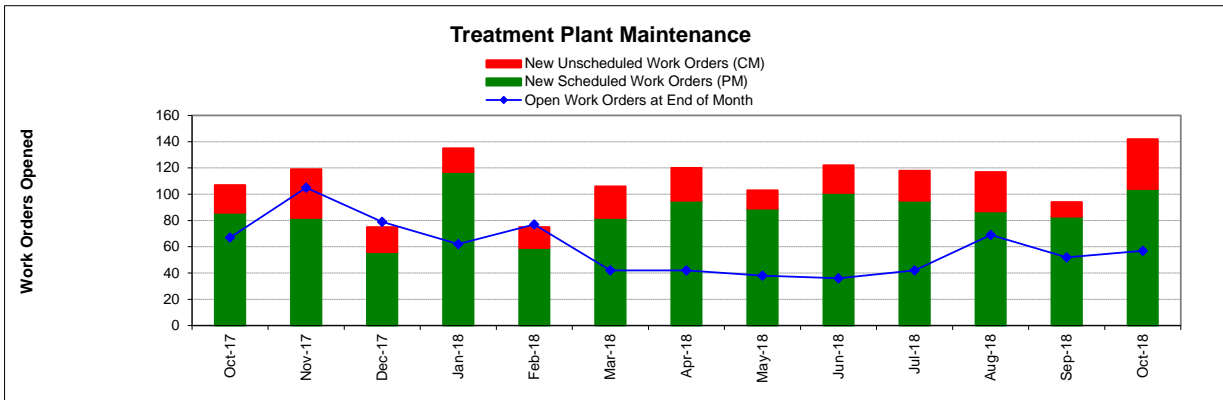
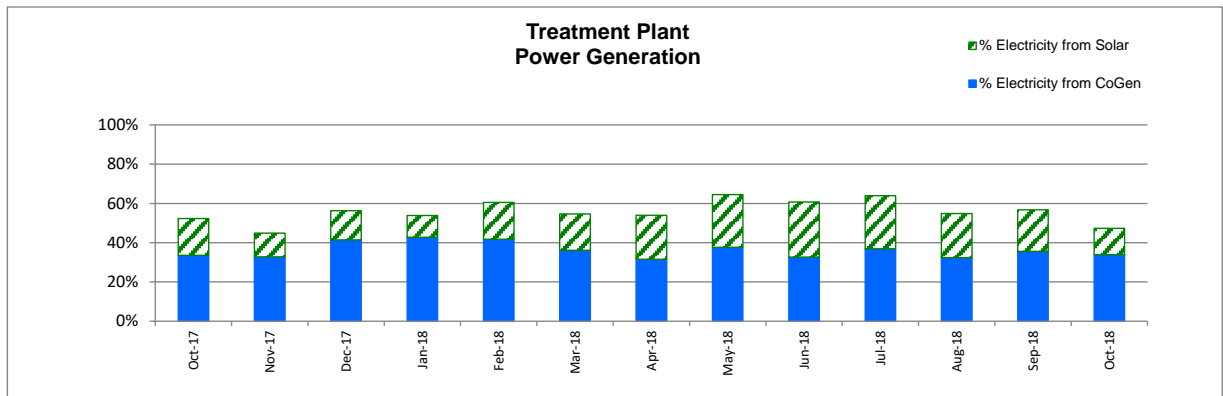
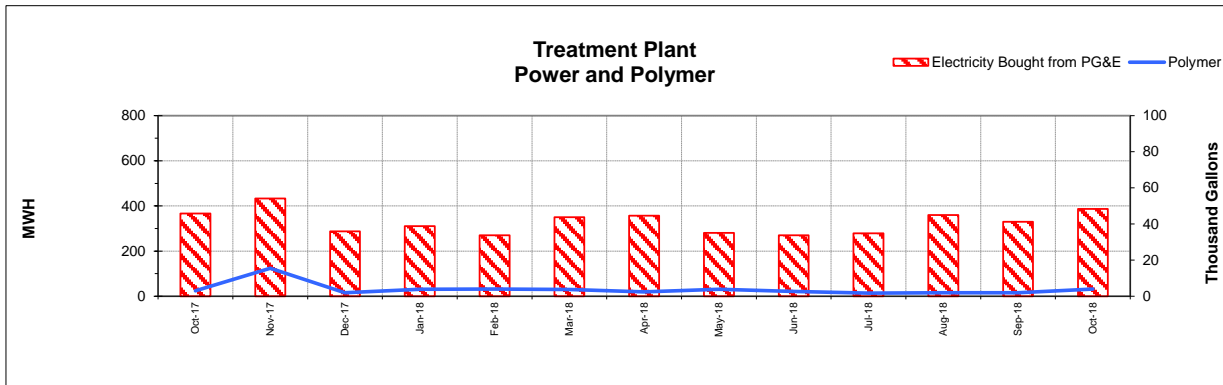
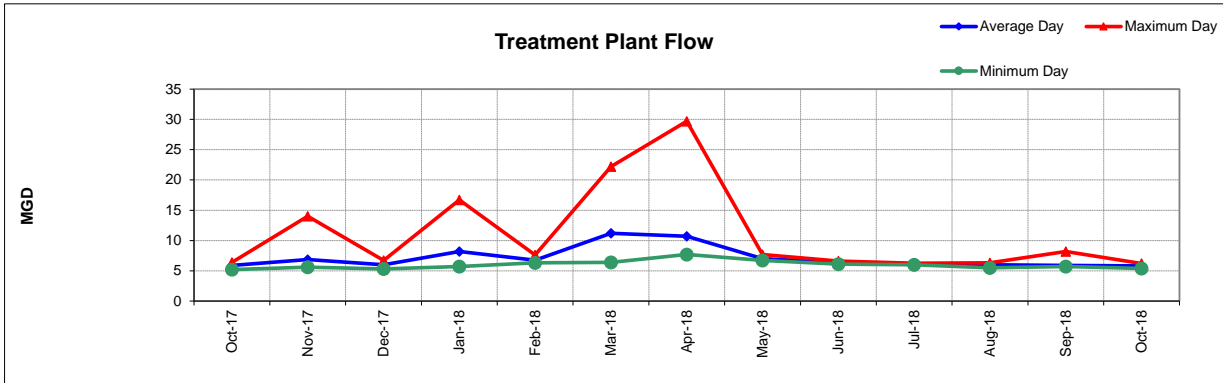
Cash on Hand as of 10/31/18

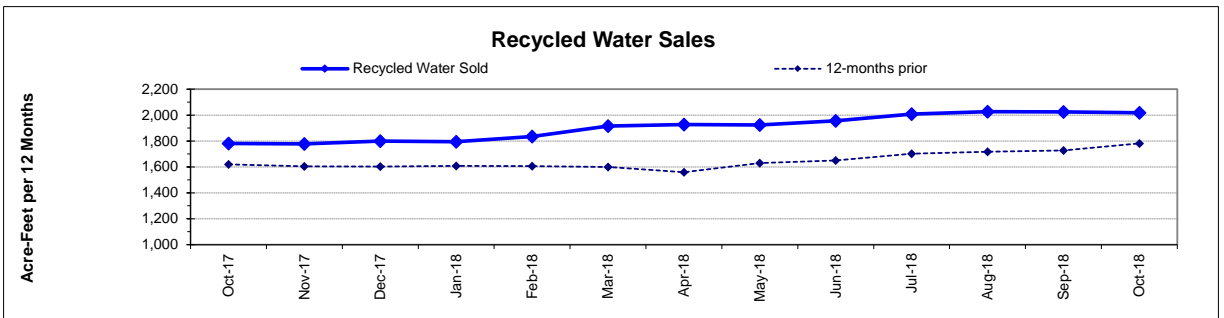
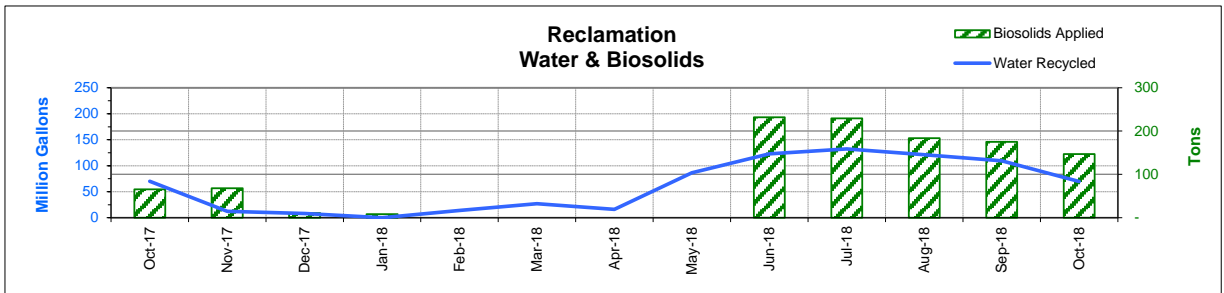
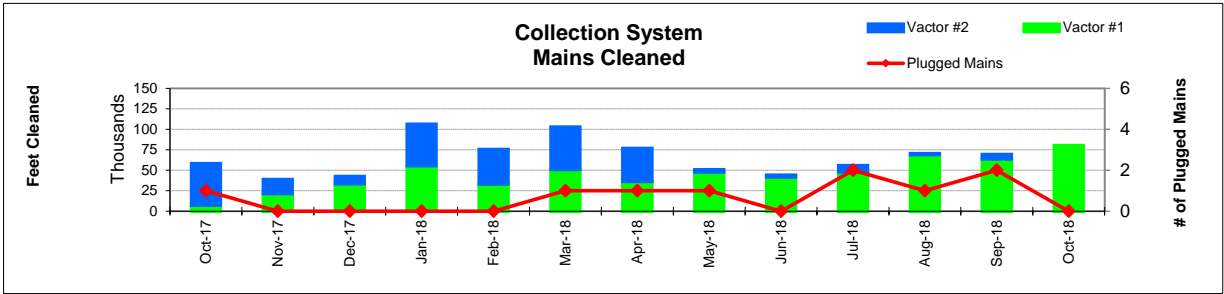
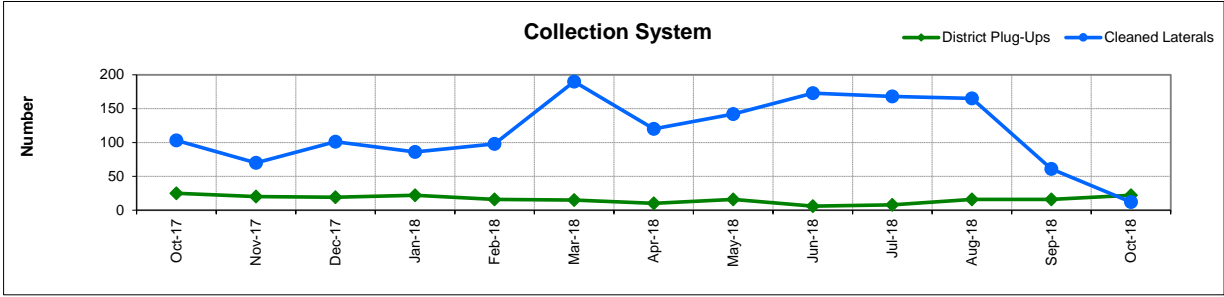
\$16,706,357

**excluding Debt Service restricted funds
9/30/18 -Effective Rate of Return = 1.88%
October Rate of return not available at time of report

1. Series 2012A's and 2017's principal/interest payments are made in Aug & Feb
2. Includes Debt Service and Intrafund Transfers; otherwise is 34.5%
3. See Capital Project Status report for details
4. In-house Labor for Capital Projects (Contra acct for Salaries)







FUND BALANCES - MONTHLY

CATEGORY	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
<i>(Thousand Dollars)</i>													
7800	6,395	8,372	13,220	13,251	13,210	12,818	20,290	19,326	18,538	12,676	9,123	9,204	8,951
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	6,395	8,372	13,220	13,251	13,210	12,818	20,290	19,326	18,538	12,676	9,123	9,204	8,951
Capital Improvement Projects	5,480	3,897	9,514	8,720	7,830	5,877	5,365	4,573	4,808	3,825	11,009	10,956	7,755
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	5,480	3,897	9,514	8,720	7,830	5,877	5,365	4,573	4,808	3,825	11,009	10,956	7,755
Total Discretionary Funds	11,875	12,269	22,734	21,971	21,040	18,695	25,655	23,899	23,346	16,501	20,132	20,160	16,706
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	11,875	12,269	23,066	22,420	21,617	19,470	28,553	26,906	26,421	20,021	20,132	20,160	16,706

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
<u>Phone Requests</u>													
Maps/Drawings	6	3	3	6	6	6	3	6	8	4	2	2	3
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	7	8	6	4	12	17	5	9	8	9	10	4	6
Development Questions	39	40	23	55	63	39	44	79	80	61	63	28	70
Miscellaneous	2	3	10	8	7	15	11	17	27	37	24	26	20
TOTAL	54	54	42	73	88	77	63	111	123	111	99	60	99
<u>Counter Requests</u>													
Maps/Drawings	-	-	-	1	-	-	-	1	1	-	3	-	1
Lateral Permits	4	5	7	11	9	17	12	10	12	9	9	3	9
Policy Questions	2	1	2	-	2	2	-	1	-	2	3	-	2
Development Questions	7	9	9	7	9	15	11	13	12	12	9	5	6
Miscellaneous	3	-	1	1	1	3	-	1	1	2	2	2	0
TOTAL	16	15	19	20	21	37	23	26	26	25	26	10	18
<u>Initial Request (Referrals)</u>	11	17	5	7	13	20	15	20	13	13	17	16	21
<u>Connection Permits Issued</u>													
Residential Permits	1	1	5	3	12	19	16	3	3	5	16	9	1
Commercial Permits	2	2	3	5	3	1	3	2	3	5	5	1	-
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	3	3	8	8	15	20	19	5	6	10	21	10	1
Residential Units	1	1	5	3	12	336	16	3	3	5	16	18	1
Commercial Units	2	2	3	5	3	1	102	174	3	5	8	1	-
TOTAL UNITS	3	3	8	8	15	337	118	177	6	10	24	19	1
<u>Annexations</u>													
Submitted	-	-	-	-	-	-	-	-	-	1	1	1	-
Acreage	-	-	-	-	-	-	-	-	-	0.60	11.60	5.79	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	6	2	3	9	19	18	14	4	10	10	18	9	10
Second Submittal	1	1	4	2	5	9	6	8	3	5	8	4	5
Third Submittal	7	2	3	5	4	6	2	2	2	3	3	4	2
<u>Building/Tenant Improvements</u>													
First Submittal	9	5	10	5	16	14	7	19	18	10	8	8	11
Second Submittal	9	10	3	1	2	9	1	7	6	8	6	1	5
Third Submittal	2	7	5	2	3	3	4	2	3	5	4	3	1
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	34	27	28	24	49	59	34	42	42	41	47	29	34

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-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	-	-	5	-	20	6	2	4	-	2	6	11	1
Inspections - Manholes	72	45	62	41	38	13	16	25	12	-	6	76	76
Inspections - Laterals	2	7	15	23	26	23	17	25	15	7	13	3	8
Inspections - Cleanouts	4	11	10	31	36	24	26	43	7	3	2	2	6
Inspections - Review Video	-	-	-	-	-	1	2	-	17	1	-	2	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	-	-	-	-	-	-	-	1	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	79	64	93	102	127	72	68	104	53	17	29	97	91
<u>MISCELLANEOUS</u>													
Meter Readings	-	-	-	11	24	-	1	13	-	-	-	-	-
Washdown Facility Inspections	-	-	-	-	-	-	12	-	-	-	-	-	-
General Customer Assistance	31	30	25	26	18	38	11	28	21	40	27	31	50
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	31	30	25	37	42	38	24	41	21	40	27	31	50
<u>SPECIAL PROJECTS</u>													
	24	6	1	7	0	5	6	0	9	21	23	35	36

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
<u>Outreach Activities</u>													
Plant Tours Conducted	1	2	0	3	0	1	5	5	3	1	3	6	4
Presentations Made	0	0	0	0	0	2	1	5	0	1	0	2	10
Total Outreach Activities	1	2	-	3	-	3	6	10	3	2	3	8	14
<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	2	-	1	-	3	2	2	1	3	-	3	1	2
NOEs Issued	1	-	1	1	3	-	1	-	1	-	1	-	1
Non-Compliant-FOG	-	-	1	-	-	-	-	-	-	-	-	-	-
Total Compliance Issues	3	-	3	1	6	2	3	1	4	-	4	1	3
<u>Pollution Prevention</u>													
Clothes Washer Rebates	-	-	-	25	14	21	-	8	21	-	-	-	-
Toilet Retrofit Rebates	-	-	-	-	-	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	59	63	-	35	-	82	66	-	74	90	65	61	68

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
MONTHLY (MG)														
Water Sold														
Golf Courses	405.0	26.903	5.504	6.253	0.001	6.152	2.748	3.320	52.726	68.294	64.047	57.269	44.197	23.612
Cemeteries	57.1	0.833	0.193	0.003	-	0.005	0.154	0.385	3.183	3.643	4.903	4.920	4.142	3.239
Parks	18.5	0.333	0.020	-	-	-	-	-	0.823	0.949	1.051	0.846	0.527	0.050
Schools	21.0	1.485	0.195	0.019	-	0.255	0.198	0.242	1.727	2.151	2.122	2.044	1.571	1.231
Commerical	167.6	13.665	4.387	1.402	-	1.835	1.765	3.169	9.893	12.414	15.863	19.184	16.950	19.637
Vineyards	564.0	16.506	1.766	0.225	-	5.695	21.988	8.001	6.377	21.260	43.468	32.727	21.248	9.649
Trucked Water	175.0	0.197	0.030	0.014	-	0.017	0.029	0.880	0.143	0.737	0.666	0.637	0.399	0.289
Subtotal Sales	1,408.2	59.922	12.095	7.916	0.001	13.960	26.881	15.996	74.872	109.448	132.120	117.628	89.035	57.707
District Use														
Jameson	330.0	-	-	-	-	0.077	-	-	-	-	-	0.163	4.785	-
Somky	213.0	10.364	-	-	-	-	-	-	11.710	13.263	0.208	3.226	15.447	12.002
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	10.364	-	-	-	0.077	-	-	11.710	13.263	0.208	3.389	20.232	12.002
TOTAL DELIVERED	2,001.7	70.286	12.095	7.916	0.001	14.037	26.881	15.996	86.582	122.711	132.327	121.016	109.266	69.709
ANNUAL (AF)														
Water Sold														
Golf Courses	405.0	1,048	1,045	1,064	1,064	1,083	1,091	1,093	1,091	1,097	1,067	1,063	1,035	1,025
Cemeteries	57.1	15	16	16	16	16	16	17	25	34	46	58	69	76
Parks	18.5	13	14	14	14	14	14	14	14	14	14	14	14	13
Schools	21.0	36	36	36	36	37	37	38	39	38	37	37	37	36
Commerical	167.6	322	325	328	324	329	333	335	318	303	298	303	309	327
Vineyards	564.0	342	336	336	336	353	420	423	427	460	534	540	550	529
Trucked Water	175.0	6	6	5	5	5	5	8	8	10	11	11	12	12
Subtotal Sales	1,408.2	1,782	1,778	1,799	1,794	1,835	1,916	1,928	1,923	1,955	2,008	2,026	2,025	2,018
District Use														
Jameson	330.0	143	143	143	143	143	143	143	143	143	121	64	15	15
Somky	213.0	223	223	223	223	223	223	223	240	244	210	178	166	171
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	366	366	366	366	366	366	366	383	387	330	243	182	187
TOTAL DELIVERED	2,001.7	2,148	2,144	2,165	2,160	2,202	2,282	2,294	2,306	2,343	2,338	2,269	2,207	2,205

BIOSOLIDS HANDLING - MONTHLY

Site	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
<u>Land Applied by NSD</u>													
Somky												175	
Airport/Fagundes													
Jameson Canyon	65	68	11	8	-	-	-	-	232	229	184		147
Subtotal by NSD	65	68	11	8	-	-	-	-	232	229	184	175	147
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	65	68	11	8	-	-	-	-	232	229	184	175	147
Off Site (Contractor)													
Total (tons)	65	68	11	8	-	-	-	-	232	229	184	175	147

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
<u>Plugups</u>													
Total Calls	54	63	48	62	49	67	40	44	25	37	39	53	57
Business Hours	33	38	27	40	35	53	23	32	16	24	28	32	36
After Hours	21	25	21	22	14	16	17	12	9	9	11	21	21
District's	25	20	19	22	16	15	10	16	6	8	16	16	22
Property Owner's	29	43	29	40	33	40	30	28	19	29	23	36	35
Plugged Main Lines						1	1	1		2	1	2	-
Run Lateral w/Eel	103	70	101	86	98	190	120	142	173	168	165	61	12
<u>Cleaning (feet of sewer)</u>													
Vactor #1	7,417	21,500	33,612	55,782	33,391	51,027	36,507	47,937	41,767	48,278	69,132	63,968	80,207
Vactor #2	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)	58,038	38,754	43,505	106,988	75,233	102,693	76,625	50,645	43,832	55,568	70,204	69,335	80,207
<u>Cleaning Days</u>													
Vactor #1	3	10	14	18	11	15	14	20	19	16	21	19	22
Vactor #2	18	10	5	14	13	18	13	1	1	3	1	3	-
Hydro													
Rodder				1									
Feet/day	2,750	1,950	2,300	3,250	3,150	3,100	2,850	2,400	2,200	2,900	3,200	3,150	3,650
Vactor #1	2,450	2,150	2,400	3,100	3,050	3,400	2,600	2,400	2,200	3,000	3,300	3,350	3,650
Vactor #2	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	27,761	18,443	31,889
Laterals (each)	184	172	186	114	122	211	179	197	223	266	234	232	297
<u>Construction (each)</u>													
Cleanouts	4	6	11	15	16	8	6	10	8	27	25	6	5
Laterals	1	1	1	1	4	1	10	24	10	9	8	8	4
Mains			1		1								1
Manholes							1	2			2	1	1
Other	57	79					3						
<u>USA Markings</u>													
Regular (w/in 2 days)	252	363	210	281	277	266	280	282	277	397	296	286	378
Emergency (w/in 2 hours)	33	9	13	15	3	18	31	37	16	8	12	15	15

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
FLOWES		31	30	31	31	28	31	30	31	30	31	31	30	31
Influent	MG	183.0	205.5	186.3	254.0	189.3	347.0	321.5	216.7	191.0	189.8	186.1	176.1	180.0
Average Day	MGD	5.9	6.9	6.0	8.2	6.8	11.2	10.7	7.0	6.4	6.1	6.0	5.9	5.8
Maximum Day	Date	11-Oct	17-Nov	1-Dec	10-Jan	1-Feb	23-Mar	8-Apr	1-May	4-Jun	1-Jul	19-Aug	16-Sep	2-Oct
Maximum Day Flow	MG	6.4	14.0	6.7	16.7	7.6	22.2	29.7	7.7	6.6	6.3	6.3	8.2	6.2
Minimum Day	Date	1-Oct	1-Nov	26-Dec	2-Jan	24-Feb	1-Mar	30-Apr	31-May	27-Jun	6-Jul	22-Aug	21-Sep	31-Oct
Minimum Day Flow	MG	5.2	5.6	5.3	5.7	6.3	6.4	7.7	6.7	6.1	6.0	5.5	5.7	5.4
Effluent	MG	80.0	314.7	169.1	302.3	176.2	415.7	342.1	95.8	134.0	133.0	124.4	104.7	68.1
River Discharge	MG	-	305.8	163.8	302.0	164.6	398.9	319.8	-	-	-	-	-	-
Recycled Flow	MG	73.0	8.9	5.3	0.3	14.4	23.0	20.2	95.8	134.0	133.0	124.4	104.7	68.1
BIOSOLIDS	Tons	612	731	617	713	770	836	605	719	760	798	775	943	745
Wet Tons Generated from Pond	Tons													
Wet Tons Generated from Plant	Tons	612	731	617	713	770	836	605	719	760	798	775	943	745
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
POLYMER USE	Gallons	3,051	15,506	1,939	3,839	3,931	3,764	2,365	3,816	2,636	1,732	1,936	1,915	4,044
Pond Pre-Flocculators	Gallons	-	11,711		2,460	-	-	282	-	-	-	-	-	59
Flocculator Polymer 1	Gallons													
Flocculator Polymer 2	Gallons	-	-	250	589	253	1,033	452	-	-	-	-	-	
Filter Polymer 1	Gallons	2,358	830	728		3,019	1,963	1,015	2,850	1,677	824	1,361	1,259	2,944
Filter Polymer 2	Gallons			151	790			-	-	-	-	-	-	
Belt Presses	Gallons	693	784	810	13	659	769	617	966	959	908	575	656	1,007
ENERGY														
Total Electricity Used	MWH	747	719	658	673	684	759	777	748	813	775	797	764	735
Purchased from PGE	MWH	367	433	287	311	270	350	357	281	270	279	360	330	387
Produced from Co-Gen	MWH	251	236	273	288	286	269	245	282	266	286	258	272	249
Percent Produced	%	34%	33%	41%	43%	42%	36%	32%	38%	33%	37%	32%	36%	34%
Purchased from Solar	MWH	140	87	98	74	128	140	175	200	227	210	179	162	99
Percent Produced		19%	12%	15%	11%	19%	18%	22%	27%	28%	27%	22%	21%	13%
Purchased Natural Gas	Therms	19	99	91	2,404	1,214	166	24	22	63	116	68	34	532
Methane Flared Off	KSCF	5	82	192	523	733	79	43	110	308	344	259	391	507
Stand By Calls	#	36	47	66	23	43	40	36	135	52	57	71	40	75
Violations	#	-	-	-	-	-	-	-	-	-	-	-	-	-

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
<u>Scheduled</u>													
Old	33	33	61	39	27	39	12	6	8	9	13	31	20
New	86	82	56	117	59	82	95	89	101	95	87	83	104
Completed	86	54	78	129	41	109	101	87	100	91	69	94	103
New Balance	33	61	39	27	39	12	6	8	9	13	31	20	21
<u>Unscheduled</u>													
Old	43	34	44	40	35	38	30	36	30	27	29	38	32
New	21	37	19	18	16	24	25	14	21	23	30	11	38
Completed	30	27	23	23	13	32	19	20	24	21	21	17	34
New Balance	34	44	40	35	38	30	36	30	27	29	38	32	36
<u>Total Work Orders</u>													
Old	76	66	105	79	62	77	42	42	38	36	42	69	52
New	107	119	75	135	75	106	120	103	122	118	117	94	142
Completed	117	81	101	152	60	141	121	107	125	112	90	111	137
New Balance	67	105	79	62	77	42	42	38	36	42	69	52	57
<u>LAB ANALYSES</u>													
<u>Sample Type</u>													
Regulatory	156	178	163	123	190	208	200	188	146	139	182	132	129
Process Control	1,137	1,220	1,139	1,071	1,080	1,103	1,103	796	871	917	890	926	486
Special Request	8	4	6	4	2	4	1	6	34	2	-	-	13
Quality Control/Assurance	420	1,110	874	692	794	741	936	489	500	483	622	401	328
TOTAL	1,721	2,512	2,182	1,890	2,066	2,056	2,240	1,479	1,551	1,541	1,694	1,459	956

**Summary of NSD Capital Project Status
through 10-31-18**

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	-	21,356	73,644	22%
13702	Manhole Raising/Rehabilitation	428,500			428,500	116,825	162,747	148,928	38%
13703	Lateral Replacement/Rehabilitation	77,100			77,100	4,693	38,845	33,562	50%
13704	Cleanouts Installation/Rehabilitation	93,200			93,200	-	33,198	60,002	36%
13705	Inflow & Infiltration (I&I) Reduction Program	214,200			214,200	-	9,390	204,810	4%
14703	Browns Valley Rd & First St	5,075,000			5,075,000	150,245	53,590	4,871,166	1%
17704	Infltrtn Rehab - SSMH/PL (CI-)	-	73,900		73,900	-	-	73,900	-
17708	Basin G - I&I Reduction #1	-	200,000		200,000	8,704	171,189	20,108	86%
18701	I&I Smoke Testing	-	99,750		99,750	63,596	7,544	28,610	8%
18702	Collection System Asset Management Software	275,000	349,550		624,550	476,119	17,661	130,769	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	2,796,040	1,715,046	387,664	35%
18706	Sewer System Inflow/Infiltration 2019	2,321,100	13,900	335,850	2,670,850	-	21,276	2,649,574	1%
19701	66-inch Trunk Rehabilitation (Kaiser to IPS)	1,400,000			1,400,000	99,482	111,377	1,189,141	8%
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	390,811	19,797	589,392	2%
	<u>COLLECTION SYSTEM - EQUIPMENT</u>								
18708	Manhole - Smart Covers (4)	-	15,000		15,000	13,190	-	1,810	-
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	700,197	90,073	4,409,729	2%
19705	Stonecrest PS Pump Rebuild	45,000			45,000	-	-	45,000	-
	<u>TREATMENT</u>								
13745	Pond 1 Dredge	600,000			600,000	14,680	7,968	577,353	1%
	<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 10-31-18**

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	63,908	1,470	84,622	1%
17713	Secondary PS VFD Rplcmnt (3)	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	-	79,396	6,404	93%
18719	Filter Flow Control - Rotork Valves	-	46,600		46,600	-	33,436	13,164	72%
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	181,876	21,749	1,071,375	2%
19706	WWTP MP - 3W System Improvements Phase 2	300,000			300,000	-	-	300,000	-
19707	Portable Pumps 10-inch (2)	172,100		57,400	229,500	30,000	-	199,500	-
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	248,466	-	(208,466)	-
	<u>TREATMENT - STRUCTURES</u>								
17726	Headworks Equipment Rehab/Replacment	1,900,000	9,250		1,909,250	1,454,091	26,979	428,180	1%
18736	Treatment Plant Project 2018	2,100,000	854,000		2,954,000	1,153,187	1,531,588	269,225	52%
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	190,139	-	59,861	-
	<u>RECYCLING - DISTRICT</u>								
16716	Line Recycled Water Reservoir	-	100,000		100,000	2,125	82,966	14,909	83%
18730	Jameson 24" Flow Meter Rehab	-	6,200		6,200	-	-	6,200	-

**Summary of NSD Capital Project Status
through 10-31-18**

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	59,240	16,356	364,454	4%
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	25,783	-	2,917	-
	<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	-	99,159	269,241	27%
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	-	1,927	40,873	5%
GRAND TOTAL ALL PROJECTS		\$26,385,700	\$4,549,850	\$1,474,550	\$32,410,100	\$8,246,996	\$4,480,137	\$19,682,966	14%