



Napa Sanitation District

General Manager's Report

for

January, 2019

Contents:

- a. Transmittal Memo
- b. Budget Status and Cash Summary
- c. Key Information Graphs – Fund Balances, Treatment Plant and Collection
- d. Fund Balances
- e. Development Processing
- f. Construction Inspection
- g. Pollution Prevention
- h. Recycled Water Deliveries
- i. Biosolids Handling
- j. Collection System Maintenance
- k. Treatment Plant Operations
- l. Treatment Plant Maintenance & Laboratory
- m. Capital Project Expenditure Summary



NAPA SANITATION DISTRICT

General Manager's Report

DATE: March 6, 2019

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for January 2019

REGULATORY COMPLIANCE:

Collection System Compliance:	1 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 – January 31, 2019
Percent Fiscal Year:	58.3%
Operating Expenditures to date:	61.5%
Historical Expenditures to date:	63.3%
Significant Comments:	None

PERSONNEL:

Significant events for the month of January 2019 in the Human Resources Department:

New Hires:	None
Separations:	None
Promotions:	None
Recruitment Activities:	Began recruitment for Collection System Worker-in-Training/I
Injuries:	None

Summaries of Operational Highlights are on following pages.

COLLECTIONS:

Significant events for the month of January 2019 in Collection System Maintenance include:

- The District had 1 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 12 cleanouts and replaced 2 cleanouts. They also repaired 2 laterals and installed 4 lateral liners. Additionally, the service response/programs crew completed 117 work orders in support of the grease and odor control program, responded to 77 customer requests for service (24 were NSD problem) and closed out 203 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 84 laterals, cleaned approximately 48,298 feet of main line and CCTV inspected 21 laterals. In addition, the CCTV truck televised 14,335 feet of mainline.

TREATMENT PLANT:

Significant events for the month of January 2019 in the Treatment Plant Department:

Plant Operations:

- For January 2019, the plant's influent flow was 407.2 MG as compared to last year flow for January 2018 of 254.0 MG
- Flow to the Napa River for January 2019 was 491.6 MG compared to last year's flow of 302.0 MG.
- The production of recycle quality occurred for 3 days during January 2019 with a total distributed flow of 0.22 MG.
- There was 5.64" rainfall for January 2019 (Carneros Rainfall Center) as compared to 4.05" rainfall for January 2018.
- Pond 4 end of the month recorded level reading was 36.39" as compared to January 2018 of 37.92". Total remaining pond capacity for January 2019 was 53.6% as compared to January 2018 remaining capacity of 52.1%.

Power Consumption and Production:

- This January power consumption purchased from PG&E was 353 MWH in comparison to January 2018 purchase of 311 MWH.
- Cogeneration unit ran 690 of 744 hours for the month – 92.74% uptime, averaging 304.29 Kw, producing 235 MWH of energy.
- Solar generation in January was 75 MWH, compared to 77 MWH in December.

Maintenance:

Significant events for the month of January 2019:

Process Maintenance

- Cogeneration unit monthly emission test - in compliance with BAAQMD permit
- Cogen service:
 - Changed oil and filters
 - Replaced pre-air filter and main air filter
- Replaced Cogen Engine LEL sensor
- Switch Gear "M"/replaced UPS batteries
- Filters replaced in FOG hot water system
- TWAS pump idler pulley bearings replaced
- Belt filter press #2/replaced belt track switches
- Service water pump #2/replaced discharge check valve
- PLC2 RIO2/replaced DO module

Projects

- Installed 12Kv load break switch on pole #5
- Upgraded Switch Gear "M" building to LED lighting

Standby Power

- Plant generators ran for 8 hours on standby use
- Riverpark, Stonecrest, West Napa operational testing only

Influent Pumps

- All pumps operational

Laboratory:

Effluent (EFF-001) Summary

There were no violations of **Effluent** limits during the month of January, 2019. All parameters were monitored at the required frequencies. The following were notable sampling events:

- January 8, 2019: Mercury, Metals, Cyanide, Nutrients
- January 6-10, 2019: Acute Toxicity Bioassay
- January 15, 2019: Nutrients

Influent (INF-001) Summary

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

January 8, 2019: Metals, Cyanide, Mercury

RECYCLING:

Significant events in the Recycling Department for January 2019 include:

- Recycled water delivered for the month of January 2019 was (2.248 million gallons) as compared to January 2018 (Not Reported) due to distribution system maintenance. Delivered recycled water volume represents the sum of all use site flow meter consumption values.
- Staff continued encapsulating solids on the Jameson Reuse Site for the reporting period.

POLLUTION PREVENTION:

Significant events in the Pollution Prevention and Outreach Division January 2019 include:

- There were 2 tours of the treatment plant given to community members and a group of delegates from the Chinese government. The delegates received a presentation prior to the tour.
- One restoration field day was held at Sheehy Creek with 50 students from American Canyon High School. Students learned about native oaks, the local bird population, and the importance of habitat diversity.
- In January, 124 pounds of medications were collected at the secure drug takeback site at Family Drug. The total amount of unneeded medications collected since the drug takeback program began in September 2010 is 21,645.2 pounds.
- There were 6 ESME Washer Rebates issued this month for a total of \$300.
- Staff has been working on Earth Day and Science Fair planning, and has begun planning the April Project WET workshop for teachers.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

Significant events occurring in the Engineering Division for January 2019 include:

- Consultant continued work on the SCADA Master Plan.
- Contractor continued construction of the Headworks Equipment Replacement Project.
- Contractor continued construction of the 2018 Collection System Rehabilitation Project.
- Contractor began construction of the Southeast Napa Sewer and Roadway Rehabilitation Project.
- Consultant completed condition assessment phase for the 66-inch Trunk Sewer Rehabilitation Project.

- Consultant completed condition assessment phase for the Primary Clarifier Rehabilitation Project.
- Staff received construction bids for 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.
- The Notice Inviting Bids was issued for the Pond Transfer Structure Project
- The Notice Inviting Bids was issued for the MST Truck Fill Station.
- Consultant continued working on the Collection System Master Plan update.
- Staff reviewed 20 sets of development plans and deemed 8 sets of plans complete. The approved plans consisted of 4 tenant improvements, 2 residential dwellings, 1 residential demo, and 1 commercial building.

Budget Status & Cash Summary - July 1, 2018 - January 31, 2019 (58.3% 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	\$1,288	\$5,370,510	\$5,371,797	\$4,589,553	53.9%
Services & Supplies	6,160,950	983,923	2,924,887	3,908,810	2,252,140	63.4%
Taxes	29,150	-	14,880	14,880	14,270	51.0%
Debt Service	4,593,800	-	4,498,887	4,498,887	94,914 (1)	97.9%
Intrafund Transfers	8,900,000	-	4,450,000	4,450,000	4,450,000	50.0%
Total Operating:	\$29,645,250	\$985,211	\$17,259,163	\$18,244,374	\$11,400,876 (2)	61.5%
Capital						
Bldgs/Improvements & Equip	\$32,410,100	\$4,152,941	\$8,966,488	\$13,119,429	\$19,290,671 (3)	40.5%
Intrafund Transfers	7,250,000	-	4,369,573	4,369,573	2,880,427	60.3%
Total Capital :	\$39,660,100	\$4,152,941	\$13,336,061	\$17,489,002	\$22,171,098	44.1%
Grand Total Expenditures:	\$69,305,350	\$5,138,152	\$30,595,224	\$35,733,376	\$33,571,974	51.6%

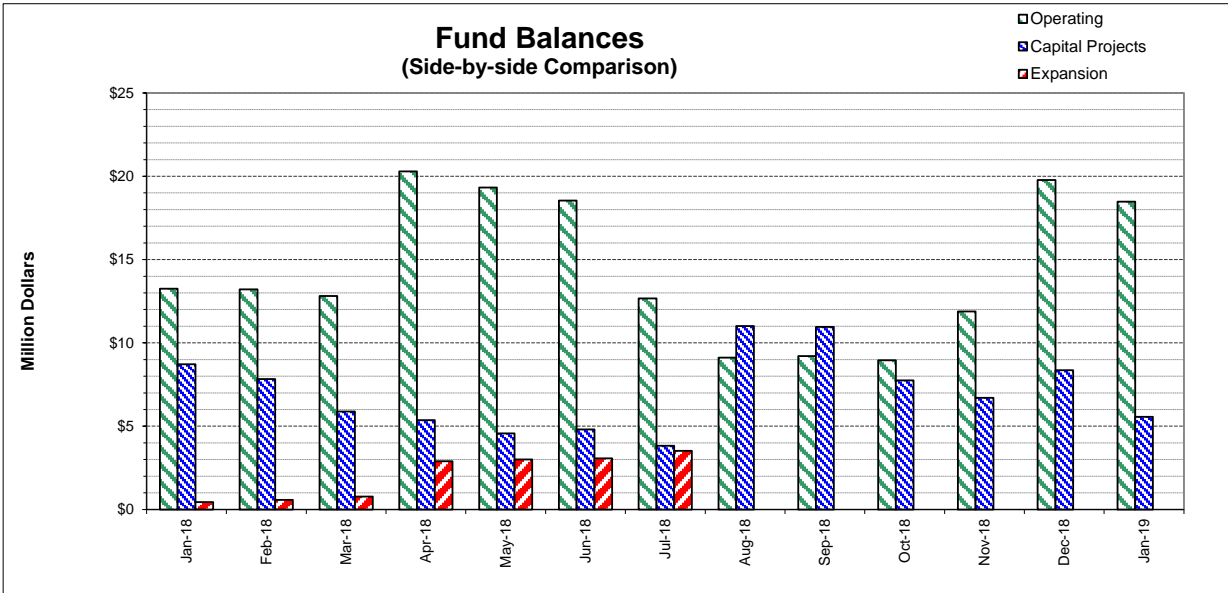
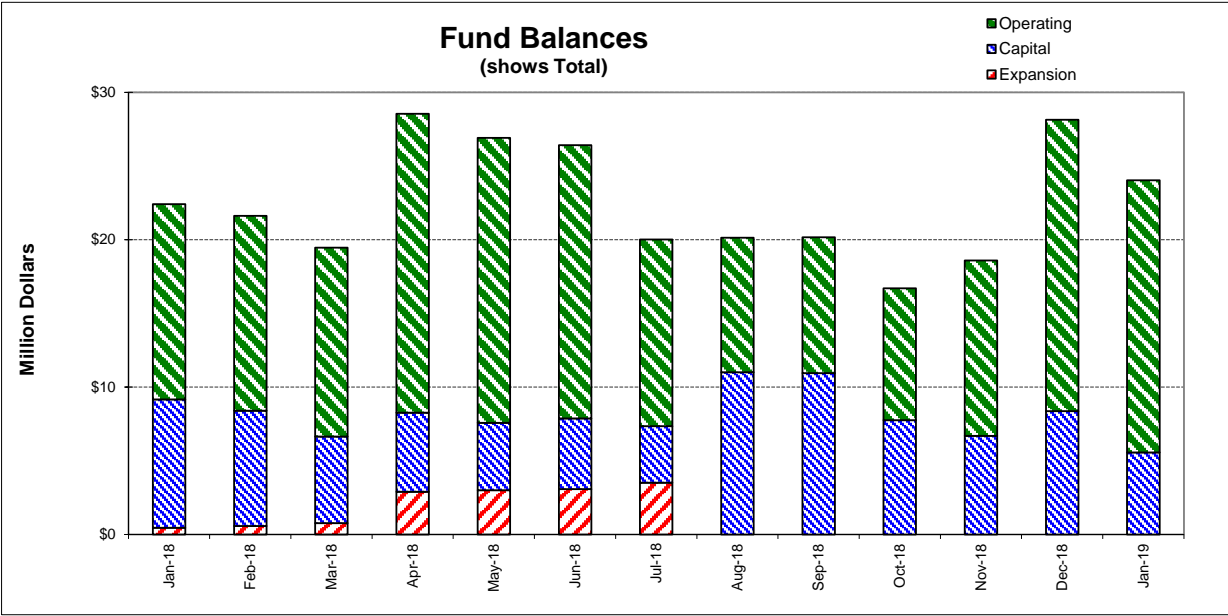
<i>Revenues</i>	FY 18/19 Budget	Encumbrances	Revenues to date	Revenues posted to date	Unposted Revenue	Percent Posted
Operating						
Use of Money/Property	\$1,036,000		\$762,287	\$762,287	\$273,713	73.6%
Charges for Services	29,571,800		17,203,427	17,203,427	12,368,373	58.2%
Miscellaneous Revenues	63,000		43,216	43,216	19,784	68.6%
Donations/Contributions (Capital Labor)	-		444,855	444,855	(444,855) (4)	N/A
Total Operating:	\$30,670,800		\$18,453,784	\$18,453,784	\$12,217,016	60.2%
Capital						
Use of Money/Property	\$0		\$179	\$179	(\$179)	N/A
Capacity Charges	4,614,600		1,403,516	1,403,516	3,211,084	30.4%
Intergovernmental	375,000		22,206	22,206	352,794 (5)	5.9%
Bond/Loan Proceeds	9,075,000		-	-	9,075,000	0.0%
Sale of Assets	25,000		81,370	81,370	(56,370)	N/A
Miscellaneous Revenues	5,000		-	-	5,000	N/A
Intrafund Transfers	16,150,000		8,819,573	8,819,573	7,330,427	54.6%
Total Capital:	\$30,244,600		\$10,326,844	\$10,326,844	\$19,917,756	34.1%
Grand Total Revenue:	\$60,915,400		\$28,780,628	\$28,780,628	\$32,134,772	47.2%

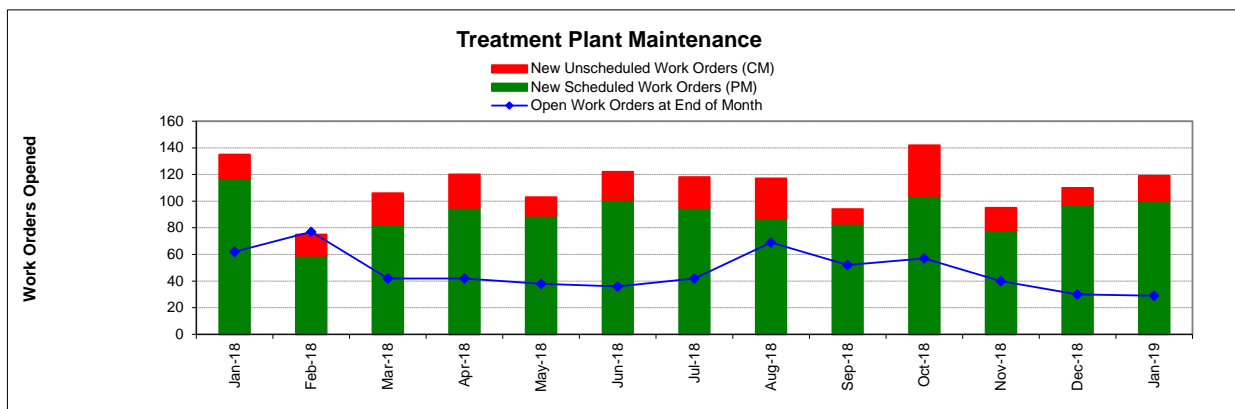
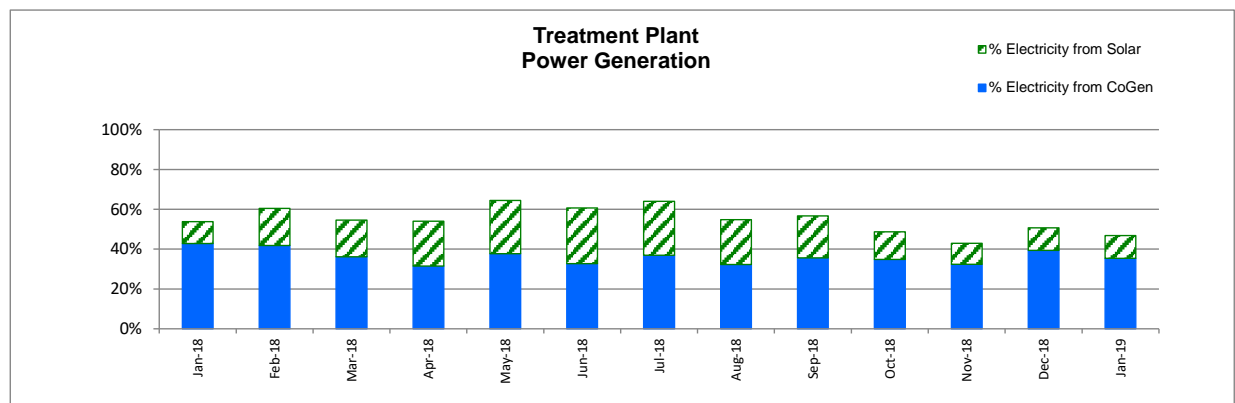
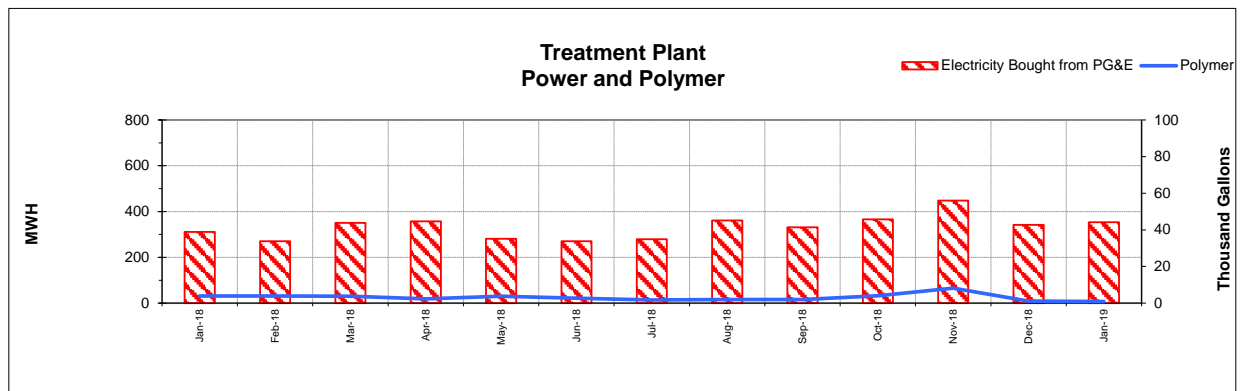
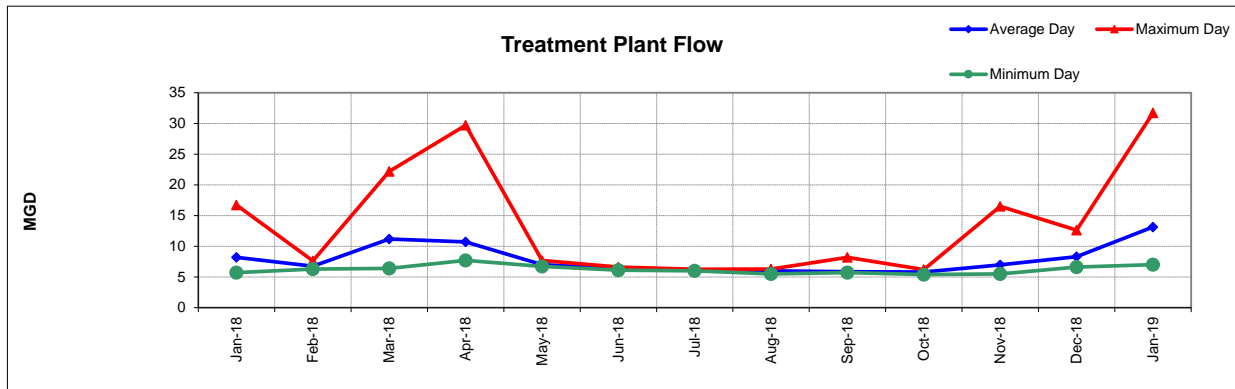
Cash on Hand as of 1/31/19

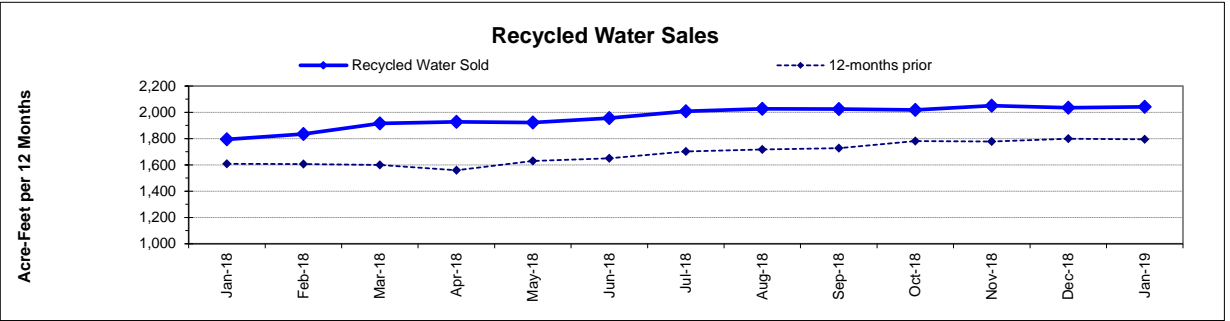
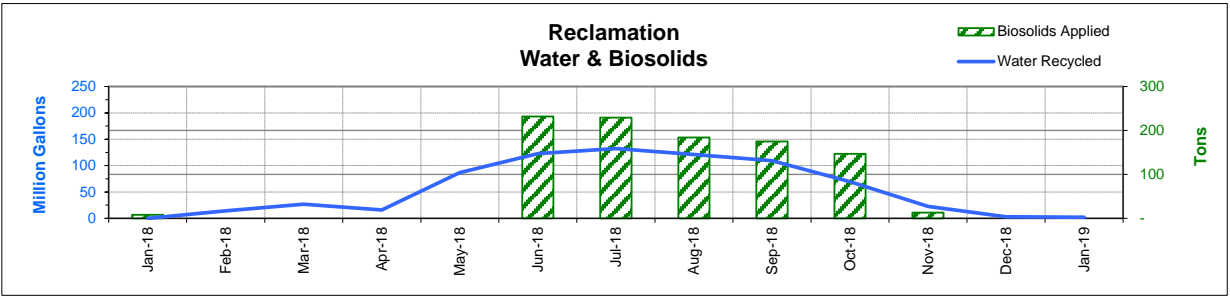
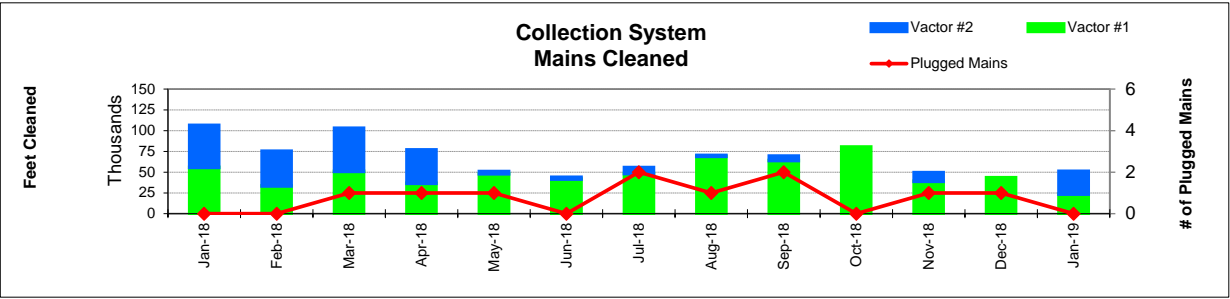
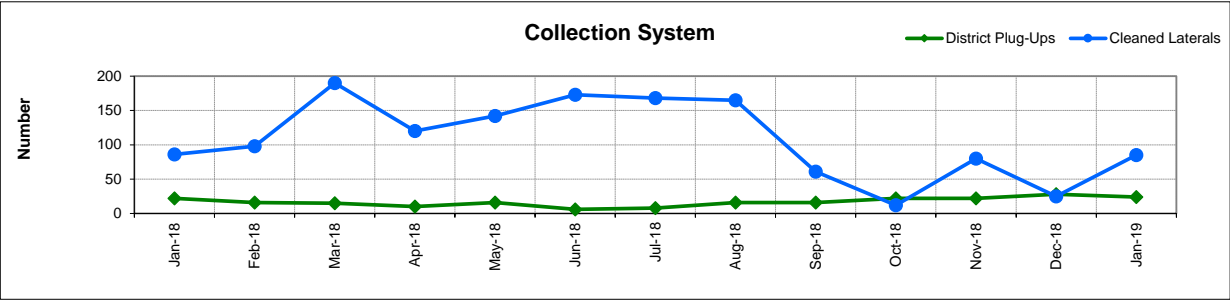
\$24,040,008

**excluding Debt Service restricted funds
12/31/18 -Effective Rate of Return = 2.01%
Note: January effective rate unavailable for 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 57.6%
3. See Capital Project Status report for details
4. In-house Labor for Capital Projects (Contra acct for Salaries)
5. Reimbursement from Napa Co. for MST Truck Fill Station; Construction to start Mar 2019







FUND BALANCES - MONTHLY

CATEGORY	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
<i>(Thousand Dollars)</i>													
7800	13,251	13,210	12,818	20,290	19,326	18,538	12,676	9,123	9,204	8,951	11,888	19,772	18,473
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	13,251	13,210	12,818	20,290	19,326	18,538	12,676	9,123	9,204	8,951	11,888	19,772	18,473
Capital Improvement Projects	8,720	7,830	5,877	5,365	4,573	4,808	3,825	11,009	10,956	7,755	6,698	8,363	5,567
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	8,720	7,830	5,877	5,365	4,573	4,808	3,825	11,009	10,956	7,755	6,698	8,363	5,567
Total Discretionary Funds	21,971	21,040	18,695	25,655	23,899	23,346	16,501	20,132	20,160	16,706	18,586	28,135	24,040
Expansion Fund (Restricted)	449	577	775	2,898	3,007	3,075	3,520	-	-	-	-	-	-
Total Restricted Funds	449	577	775	2,898	3,007	3,075	3,520	-	-	-	-	-	-
TOTAL ALL FUNDS	22,420	21,617	19,470	28,553	26,906	26,421	20,021	20,132	20,160	16,706	18,586	28,135	24,040

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
<u>Phone Requests</u>													
Maps/Drawings	6	6	6	3	6	8	4	2	2	3	1	2	6
Lateral Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
Policy Questions	4	12	17	5	9	8	9	10	4	6	3	6	8
Development Questions	55	63	39	44	79	80	61	63	28	70	41	44	40
Miscellaneous	8	7	15	11	17	27	37	24	26	20	18	25	27
TOTAL	73	88	77	63	111	123	111	99	60	99	63	77	81
<u>Counter Requests</u>													
Maps/Drawings	1	-	-	-	1	1	-	3	-	1	-	1	-
Lateral Permits	11	9	17	12	10	12	9	9	3	9	5	10	12
Policy Questions	-	2	2	-	1	-	2	3	-	2	-	1	-
Development Questions	7	9	15	11	13	12	12	9	5	6	6	5	10
Miscellaneous	1	1	3	-	1	1	2	2	2	0	-	1	1
TOTAL	20	21	37	23	26	26	25	26	10	18	11	18	23
<u>Initial Request (Referrals)</u>	7	13	20	15	20	13	13	17	16	21	20	15	18
<u>Connection Permits Issued</u>													
Residential Permits	3	12	19	16	3	3	5	16	9	1	1	2	-
Commercial Permits	5	3	1	3	2	3	5	5	1	-	2	-	1
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	8	15	20	19	5	6	10	21	10	1	3	2	1
Residential Units	3	12	336	16	3	3	5	16	18	1	1	2	-
Commercial Units	5	3	1	102	174	3	5	8	1	-	2	-	1
TOTAL UNITS	8	15	337	118	177	6	10	24	19	1	3	2	1
<u>Annexations</u>													
Submitted	-	-	-	-	-	-	1	1	1	-	1	-	1
Acreage	-	-	-	-	-	-	0.60	11.60	5.79	-	158.20	-	4.90
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	9	19	18	14	4	10	10	18	9	10	10	9	2
Second Submittal	2	5	9	6	8	3	5	8	4	5	2	5	7
Third Submittal	5	4	6	2	2	2	3	3	4	2	1	1	1
<u>Building/Tenant Improvements</u>													
First Submittal	5	16	14	7	19	18	10	8	8	11	8	11	5
Second Submittal	1	2	9	1	7	6	8	6	1	5	6	-	4
Third Submittal	2	3	3	4	2	3	5	4	3	1	3	1	1
<u>Miscellaneous Plan Reviews</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	24	49	59	34	42	42	41	47	29	34	30	27	20

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
<u>CONSTRUCTION</u>													
Locating Sewers	-	-	-	-	-	-	-	1	-	-	1	2	4
Permit Processing	-	-	-	-	-	-	-	-	-	-	-	-	-
Preconstruction Meetings	7	7	5	5	7	2	3	1	3	-	1	3	-
Inspections - Mains	-	20	6	2	4	-	2	6	11	1	-	1	-
Inspections - Manholes	41	38	13	16	25	12	-	6	76	76	21	30	49
Inspections - Laterals	23	26	23	17	25	15	7	13	3	8	3	28	18
Inspections - Cleanouts	31	36	24	26	43	7	3	2	2	6	8	37	31
Inspections - Review Video	-	-	1	2	-	17	1	-	2	-	1	2	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	-	-	-	-	-	-	1	-	-	-	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	102	127	72	68	104	53	17	29	97	91	35	103	102
<u>MISCELLANEOUS</u>													
Meter Readings	11	24	-	1	13	-	-	-	-	-	1	10	26
Washdown Facility Inspections	-	-	-	12	-	-	-	-	-	-	-	-	-
General Customer Assistance	26	18	38	11	28	21	40	27	31	50	25	30	-
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	34
TOTAL	37	42	38	24	41	21	40	27	31	50	26	40	60
<u>SPECIAL PROJECTS</u>													
	7	0	5	6	0	9	21	23	35	36	19	0	7

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
<u>Outreach Activities</u>													
Plant Tours Conducted	3	0	1	5	5	3	1	3	6	4	1	1	2
Presentations Made	0	0	2	1	5	0	1	0	2	10	0	0	1
Total Outreach Activities	3	-	3	6	10	3	2	3	8	14	1	1	3
<u>Inspections Conducted</u>													
Food Service Facilities	6	22	64	51	10	-	-	-	-	-	-	1	22
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	1	-	-
Total Inspections	6	22	64	51	10	-	-	-	-	-	1	1	22
<u>Compliance Issues</u>													
NOVs Issued	-	3	2	2	1	3	-	3	1	2	1	-	1
NOEs Issued	1	3	-	1	-	1	-	1	-	1	1	-	-
Non-Compliant-FOG	-	-	-	-	-	-	-	-	-	-	-	-	1
Total Compliance Issues	1	6	2	3	1	4	-	4	1	3	2	-	2
<u>Pollution Prevention</u>													
Clothes Washer Rebates	25	14	21	-	8	21	-	-	-	-	29	23	6
Toilet Retrofit Rebates	-	-	-	-	-	-	-	-	-	-	-	-	-
Pharmaceuticals Diverted (in lbs)	35	-	82	66	-	74	90	65	61	68	56	-	124

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
MONTHLY (MG)														
Water Sold														
Golf Courses	405.0	0.001	6.152	2.748	3.320	52.726	68.294	64.047	57.269	44.197	23.612	3.322	0.008	0.002
Cemeteries	57.1	-	0.005	0.154	0.385	3.183	3.643	4.903	4.920	4.142	3.239	2.872	0.690	0.380
Parks	18.5	-	-	-	-	0.823	0.949	1.051	0.846	0.527	0.050	0.611	-	0.002
Schools	21.0	-	0.255	0.198	0.242	1.727	2.151	2.122	2.044	1.571	1.231	0.745	0.060	0.098
Commerical	167.6	-	1.835	1.765	3.169	9.893	12.414	15.863	19.184	16.950	19.637	7.652	1.891	1.379
Vineyards	564.0	-	5.695	21.988	8.001	6.377	21.260	43.468	32.727	21.248	9.649	7.015	0.239	0.380
Trucked Water	175.0	-	0.017	0.029	0.880	0.143	0.737	0.666	0.637	0.399	0.289	0.403	0.033	0.007
Subtotal Sales	1,408.2	0.001	13.960	26.881	15.996	74.872	109.448	132.120	117.628	89.035	57.707	22.620	2.921	2.248
District Use														
Jameson	330.0	-	0.077	-	-	-	-	-	0.163	4.785	-	-	-	-
Somky	213.0	-	-	-	-	11.710	13.263	0.208	3.226	15.447	12.002	0.008	-	-
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	-	0.077	-	-	11.710	13.263	0.208	3.389	20.232	12.002	0.008	-	-
TOTAL DELIVERED	2,001.7	0.001	14.037	26.881	15.996	86.582	122.711	132.327	121.016	109.266	69.709	22.628	2.921	2.248
ANNUAL (AF)														
Water Sold														
Golf Courses	405.0	1,064	1,083	1,091	1,093	1,091	1,097	1,067	1,063	1,035	1,025	1,019	1,000	1,000
Cemeteries	57.1	16	16	16	17	25	34	46	58	69	76	84	86	88
Parks	18.5	14	14	14	14	14	14	14	14	14	13	15	15	15
Schools	21.0	36	37	37	38	39	38	37	37	37	36	38	38	38
Commerical	167.6	324	329	333	335	318	303	298	303	309	327	337	338	343
Vineyards	564.0	336	353	420	423	427	460	534	540	550	529	545	545	546
Trucked Water	175.0	5	5	5	8	8	10	11	11	12	12	13	13	13
Subtotal Sales	1,408.2	1,794	1,835	1,916	1,928	1,923	1,955	2,008	2,026	2,025	2,018	2,051	2,035	2,042
District Use														
Jameson	330.0	143	143	143	143	143	143	121	64	15	15	15	15	15
Somky	213.0	223	223	223	223	240	244	210	178	166	171	171	171	171
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	366	366	366	366	383	387	330	243	182	187	187	187	187
TOTAL DELIVERED	2,001.7	2,160	2,202	2,282	2,294	2,306	2,343	2,338	2,269	2,207	2,205	2,237	2,222	2,229

BIOSOLIDS HANDLING - MONTHLY

Site	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
<u>Land Applied by NSD</u>													
Somky									175				
Airport/Fagundes													
Jameson Canyon	8	-	-	-	-	232	229	184		147	13	-	-
Subtotal by NSD	8	-	-	-	-	232	229	184	175	147	13	-	-
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	8	-	-	-	-	232	229	184	175	147	13	-	-
Off Site (Contractor)													
Total (tons)	8	-	-	-	-	232	229	184	175	147	13	-	-

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
<u>Plugups</u>													
Total Calls	62	49	67	40	44	25	37	39	53	57	64	77	70
Business Hours	40	35	53	23	32	16	24	28	32	36	34	44	47
After Hours	22	14	16	17	12	9	9	11	21	21	30	33	23
District's	22	16	15	10	16	6	8	16	16	22	22	28	24
Property Owner's	40	33	40	30	28	19	29	23	36	35	41	49	46
Plugged Main Lines			1	1	1		2	1	2	-	1	1	-
Run Lateral w/Eel	86	98	190	120	142	173	168	165	61	12	80	25	85
<u>Cleaning (feet of sewer)</u>													
Vactor #1	55,782	33,391	51,027	36,507	47,937	41,767	48,278	69,132	63,968	80,207	38,882	43,194	23,544
Vactor #2	50,441	41,842	51,666	40,119	2,708	2,065	7,290	1,072	5,367	-	10,373	-	27,335
Hydro													
Rodder	765												
Total (feet)	106,988	75,233	102,693	76,625	50,645	43,832	55,568	70,204	69,335	80,207	49,254	43,194	50,879
<u>Cleaning Days</u>													
Vactor #1	18	11	15	14	20	19	16	21	19	22	17	19	13
Vactor #2	14	13	18	13	1	1	3	1	3	-	3		7
Hydro													
Rodder	1												
Feet/day	3,250	3,150	3,100	2,850	2,400	2,200	2,900	3,200	3,150	3,650	2,450	2,250	2,550
Vactor #1	3,100	3,050	3,400	2,600	2,400	2,200	3,000	3,300	3,350	3,650	2,300	2,250	1,800
Vactor #2	3,600	3,200	2,850	3,100	2,700	2,050	2,450	1,050	1,800		3,450		3,900
Hydro													
Rodder	750												
<u>Video Inspections</u>													
Mains (feet)	17,644	12,878	21,714	18,530	26,140	18,248	18,188	27,761	18,443	31,889	17,526	12,509	14,335
Laterals (each)	114	122	211	179	197	223	266	234	232	297	201	138	175
<u>Construction (each)</u>													
Cleanouts	15	16	8	6	10	8	27	25	6	5	50	1	18
Laterals	1	4	1	10	24	10	9	8	8	4	4	15	6
Mains		1								1		-	-
Manholes				1	2			2	1	1		-	-
Other				3									
<u>USA Markings</u>													
Regular (w/in 2 days)	281	277	266	280	282	277	397	296	286	378	159	159	171
Emergency (w/in 2 hours)	15	3	18	31	37	16	8	12	15	15	32	12	24

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
FLOWES		31	28	31	30	31	30	31	31	30	31	30	31	31
Influent	MG	254.0	189.3	347.0	321.5	216.7	191.0	189.8	186.1	176.1	180.0	208.8	257.6	407.2
Average Day	MGD	8.2	6.8	11.2	10.7	7.0	6.4	6.1	6.0	5.9	5.8	7.0	8.3	13.1
Maximum Day	Date	10-Jan	1-Feb	23-Mar	8-Apr	1-May	4-Jun	1-Jul	19-Aug	16-Sep	2-Oct	29-Nov	1-Dec	17-Jan
Maximum Day Flow	MG	16.7	7.6	22.2	29.7	7.7	6.6	6.3	6.3	8.2	6.2	16.5	12.6	31.7
Minimum Day	Date	2-Jan	24-Feb	1-Mar	30-Apr	31-May	27-Jun	6-Jul	22-Aug	21-Sep	31-Oct	1-Nov	13-Dec	3-Jan
Minimum Day Flow	MG	5.7	6.3	6.4	7.7	6.7	6.1	6.0	5.5	5.7	5.4	5.5	6.6	7.0
Effluent	MG	302.3	176.2	415.7	342.1	95.8	134.0	133.0	124.4	104.7	68.1	289.9	384.2	497.1
River Discharge	MG	302.0	164.6	398.9	319.8	-	-	-	-	-	-	263.8	378.9	491.6
Recycled Flow	MG	0.3	14.4	23.0	20.2	95.8	134.0	133.0	124.4	104.7	68.1	26.1	5.2	5.5
BIOSOLIDS	Tons	713	770	836	605	719	760	798	775	943	745	572	767	700
Wet Tons Generated from Pond	Tons													
Wet Tons Generated from Plant	Tons	713	770	836	605	719	760	798	775	943	745	572	767	700
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
POLYMER USE	Gallons	3,839	3,931	3,764	2,365	3,816	2,636	1,732	1,936	1,915	4,044	8,169	1,155	868
Pond Pre-Flocculators	Gallons	2,460	-	-	282	-	-	-	-	-	59	2,293	-	-
Flocculator Polymer 1	Gallons													
Flocculator Polymer 2	Gallons	589	253	1,033	452	-	-	-	-	-	-	-	-	-
Filter Polymer 1	Gallons		3,019	1,963	1,015	2,850	1,677	824	1,361	1,259	2,944	4,503	294	178
Filter Polymer 2	Gallons	790			-	-	-	-	-	-	-	-	-	-
Belt Presses	Gallons	13	659	769	617	966	959	908	575	656	1,007	589	788	690
ENERGY														
Total Electricity Used	MWH	673	684	759	777	748	813	775	798	765	714	785	684	663
Purchased from PGE	MWH	311	270	350	357	281	270	279	361	331	366	448	342	353
Produced from Co-Gen	MWH	288	286	269	245	282	266	286	258	272	249	254	265	235
Percent Produced	%	43%	42%	36%	32%	38%	33%	37%	32%	36%	35%	32%	39%	35%
Purchased from Solar	MWH	74	128	140	175	200	227	210	179	162	99	83	77	75
Percent Produced		11%	19%	18%	22%	27%	28%	27%	22%	21%	14%	11%	11%	11%
Purchased Natural Gas	Therms	2,404	1,214	166	24	22	63	116	68	34	532	516	341	158
Methane Flared Off	KSCF	523	733	79	43	110	308	344	259	391	507	192	266	34
Stand By Calls	#	23	43	40	36	135	52	57	71	40	75	133	55	71
Violations	#	-	-	-	-	-	-	-	-	-	-	-	-	-

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
<u>Scheduled</u>													
Old	39	27	39	12	6	8	9	13	31	20	21	10	6
New	117	59	82	95	89	101	95	87	83	104	78	97	100
Completed	129	41	109	101	87	100	91	69	94	103	89	101	100
New Balance	27	39	12	6	8	9	13	31	20	21	10	6	6
<u>Unscheduled</u>													
Old	40	35	38	30	36	30	27	29	38	32	36	30	24
New	18	16	24	25	14	21	23	30	11	38	17	13	19
Completed	23	13	32	19	20	24	21	21	17	34	23	19	20
New Balance	35	38	30	36	30	27	29	38	32	36	30	24	23
<u>Total Work Orders</u>													
Old	79	62	77	42	42	38	36	42	69	52	57	40	30
New	135	75	106	120	103	122	118	117	94	142	95	110	119
Completed	152	60	141	121	107	125	112	90	111	137	112	120	120
New Balance	62	77	42	42	38	36	42	69	52	57	40	30	29
<u>LAB ANALYSES</u>													
<u>Sample Type</u>													
Regulatory	123	190	208	200	188	146	139	182	132	129	195	175	169
Process Control	1,071	1,080	1,103	1,103	796	871	917	890	926	486	1,154	1,087	1,155
Special Request	4	2	4	1	6	34	2	-	-	13	-	2	-
Quality Control/Assurance	692	794	741	936	489	500	483	622	401	328	1,128	705	776
TOTAL	1,890	2,066	2,056	2,240	1,479	1,551	1,541	1,694	1,459	956	2,477	1,969	2,100

**Summary of NSD Capital Project Status
through 01-31-19**

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	6,750	25,930	62,320	27%
13702	Manhole Raising/Rehabilitation	428,500			428,500	3,839	278,317	146,345	65%
13703	Lateral Replacement/Rehabilitation	77,100			77,100	12,445	53,124	11,531	69%
13704	Cleanouts Installation/Rehabilitation	93,200			93,200	-	53,469	39,731	57%
13705	Inflow & Infiltration (I&I) Reduction Program	214,200			214,200	121,099	10,324	82,777	5%
14703	Browns Valley Rd & First St	5,075,000			5,075,000	39,322	196,706	4,838,973	4%
17704	Infltrtn Rehab - SSMH/PL (CI-)	-	73,900	(40,000)	33,900	-	8,400	25,500	25%
17708	Basin G - I&I Reduction #1	-	200,000		200,000	-	153,759	46,241	77%
18701	I&I Smoke Testing	-	99,750		99,750	12,701	58,839	28,210	59%
18702	Collection System Asset Management Software	275,000	349,550		624,550	391,167	104,677	128,705	17%
18703	Upper Lateral Rehab - Basin L (Pilot) #3	-	5,000		5,000	-	414	4,586	8%
18705	Sewer System Inflow/Infiltration 2018	2,600,000	2,298,750	(20,000)	4,878,750	409,745	3,903,469	565,536	80%
18706	Sewer System Inflow/Infiltration 2019	2,321,100	13,900	335,850	2,670,850	-	28,232	2,642,618	1%
19701	66-inch Trunk Rehabilitation (Kaiser to IPS)	1,400,000			1,400,000	49,655	163,634	1,186,712	12%
19702	72-inch Trunk Construction (Kaiser to IPS)	1,000,000		(1,000,000)	-	-	-	-	-
19703	2020 Collection System Rehabilitation	20,000			20,000	-	353	19,647	2%
19727	Collection System Master Plan	-		1,000,000	1,000,000	318,312	97,984	583,704	10%
	<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	-	100%
19704	Vehicle 180 - Ford F150 - USA Truck	35,400			35,400	8,496	34,884	(7,980)	99%
19729	Replace Coll Veh #166	-		40,000	40,000	35,092	-	4,908	-
19730	CCTV Camera Transporter	-		20,000	20,000	19,637	-	363	-
	<u>LIFT STATIONS</u>								
17711	West Napa PS - Rehab	5,200,000			5,200,000	487,882	318,109	4,394,009	6%
19705	Stonecrest PS Pump Rebuild	45,000			45,000	30,000	-	15,000	-
	<u>TREATMENT</u>								
13745	Pond 1 Dredge	600,000		(350,000)	250,000	14,680	10,614	224,707	4%
	<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	-

**Summary of NSD Capital Project Status
through 01-31-19**

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
15713	Aeration Basin Instrmntn/Ctrl	-	6,750		6,750	-	-	6,750	-
16712	Main - Primary Clarifier Mech/Struct Rehabilitation	150,000			150,000	46,306	20,914	82,780	14%
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	28,366	-	24,384	-
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	-	36,668	9,932	79%
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	47,895	161,417	1,065,688	13%
19706	WWTP MP - 3W System Improvements Phase 2	300,000			300,000	-	-	300,000	-
19707	Portable Pumps 10-inch (2)	172,100		42,400	214,500	214,379	-	121	-
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	29,436	-	20,564	-
19715	Main - ARV Replacement	30,000			30,000	-	28,922	1,078	96%
19716	Main - P4PS Pump #3 Rebuild	40,000			40,000	-	35,523	4,477	89%
19728	Lab Sampler	-		8,000	8,000	7,298	-	702	-
	TREATMENT - STRUCTURES								
17726	Headworks Equipment Rehab/Replacment	1,900,000	9,250		1,909,250	1,330,973	168,642	409,635	9%
18736	Treatment Plant Project 2018	2,100,000	854,000		2,954,000	233,542	2,471,759	248,699	84%
19717	WWTP MP - Pond Transfer Structures 2 to 3	5,000		350,000	355,000	-	6,296	348,704	2%
	SCADA								
18729	SCADA MP Project #1 - Network Monitoring	-	48,700		48,700	-	2,501	46,199	5%
19718	SCADA MP Phase 5 Security Study	250,000			250,000	144,784	48,456	56,760	19%
	RECYCLING - DISTRICT								
16716	Line Recycled Water Reservoir	-	100,000		100,000	2,125	82,966	14,909	83%

**Summary of NSD Capital Project Status
through 01-31-19**

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
18730	Jameson 24" Flow Meter Rehab	-	6,200		6,200	-	-	6,200	-
18731	Coombsville Truck Fill Station	375,000	65,050		440,050	26,073	61,032	352,944	14%
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	90%
	<u>RECYCLING - EXPANSION</u>								
13727	North Bay Wate Reuse Project	150,000			150,000	-	97,014	52,986	65%
	<u>OTHER</u>								
13729	Development Technical Support	248,300		120,100	368,400	-	176,533	191,867	48%
19723	AV System Replacement - Conference Rooms	20,000			20,000	-	-	20,000	-
19724	Fence Repair - District Wide	25,000		7,000	32,000	30,162	540	1,298	2%
19725	Vehicle 011 - CSET Trailer	23,700			23,700	13,700	-	10,000	-
19726	Vehicle 607 - Electrical Hybrid Vehicle	42,800			42,800	37,080	2,030	3,689	5%
GRAND TOTAL ALL PROJECTS		\$26,385,700	\$4,549,850	\$1,474,550	\$32,410,100	\$4,152,941	\$9,029,995	\$19,227,166	28%