



Napa Sanitation District

General Manager's Report

for

January, 2018

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NAPA SANITATION DISTRICT

General Manager's Report

Dedicated to Preserving the Napa River for Generations to Come

DATE: March 21, 2018

FROM: Timothy B. Healy, General Manager

SUBJECT: General Manager's Report for January, 2018

REGULATORY COMPLIANCE:

Collection System Compliance:	0 Category 1 SSO's, 0 Category 2 SSO's, and 8 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, 2017 – January 31, 2018
Percent Fiscal Year:	58.3%
Operating Expenditures to date:	59.3%
Historical Expenditures to date:	63.6%
Significant Comments:	Historically, the debt service payment that is due on February 1 st has been made on the last day of January. In the last couple of years, the debt service payment has been made on February 1 st , which is why the Historical Expenditures reflects a higher percentage.

PERSONNEL:

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

New Hires:	None
Separations:	None
Promotions:	Ben Cullison promoted to Collection System Worker I; Ed Heikell promoted to Equipment Maintenance Specialist II.
Recruitment Activities:	None.
Injuries:	None.

Summaries of Operational Highlights are on following pages.

COLLECTIONS:

Significant events for the month of January 2018 in Collection System Maintenance include:

- The District had 0 Category 1 Sanitary Sewer Overflows (SSO's), 0 Category 2 SSO's and 8 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 drain pipe that was not fully recovered and returned to the sanitary sewer system. A Category 2 is defined as an SSO that is equal to or greater than 1,000 gallons that did not reach a surface water. A Category 3 is defined as an SSO that is less than 1,000 gallons that did not reach a surface water. These are usually minor overflows of less than 10 gallons from cleanouts on District laterals that can be cleaned up by the crews.)
- The repair crew installed 11 cleanouts, repaired 2 cleanouts, installed CIPP liner on 1 lateral and repaired 2 laterals. Additionally, the service response/programs crew completed 93 work orders in support of the grease and odor control program, responded to 61 customer requests for service (23 were NSD problem) and closed out 291 mark and locate request tickets.
- The preventative maintenance crews ran work orders on 82 laterals, cleaned approximately 106,987 feet of main line and CCTV inspected 18 laterals. Also, the CCTV truck televised 17,644 feet of mainline.

TREATMENT PLANT:

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

Plant Operations:

- For January 2018, the plant's influent flow was 254 MG as compared to last year flow for January 2017 of 693 MG
- Flow to the Napa River for January 2018 was 302.3 MG compared to last year's flow of 529.2 MG.
- The production of recycle quality occurred for 1 day during January 2018 with a total distributed flow of .34 MG.
- There was 3.78" rain fall for January 2018 as compared to 10.0" rain fall for January 2017.
- Pond 4 end of the month recorded level reading was 37.92" as compared to January 2017 of 81.84". Total remaining pond capacity for January 2018 was 52.1% as compared to January 2017 remaining capacity of 10.1.1%.

Power Consumption and Production:

- This January power consumption purchased from PG&E was 311 MWH in comparison to January 2016 purchase of 709 MWH (The cogeneration unit was offline last year during January for overhaul).
- Cogeneration unit ran 736 of 744 hours for the month – 98.92% uptime, averaging 361.86 Kw
- Solar generation in January was 74 MWH, compared to 98 MWH in December.

Maintenance:

Significant events for the month of January, 2018:

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 spark plugs and admission valves
 - Adjusted intake and exhaust valves
- Changed carbon media in siloxane filters
- Gas compressor service:
 - Replace piston rings
 - Rebuild suction and discharge valves
 - Replace rod packing
 - Replace belts
 - Replaced spin disc's on cooling water filter

Projects

- Completed Annual Flow Meter Calibrations
- Plant air compressor up-grade:
 - Replaced aftercooler
 - Replaced all piping and valves
 - Added hydronic elements
 - Replaced all four valve packs
 - Replaced all pressure relief valves

Standby Power

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

Influent Pumps

- All pumps operational

Laboratory:

- There were no violations of Effluent limits during the month of January, 2018. All parameters were monitored at the required frequencies. The following were notable sampling events:
 - January 9, 2018: Metals, Cyanide, Mercury, Nutrients
 - January 9-13, 2018: Acute Toxicity Bioassay
 - January 16, 2018: Nutrients
- Monthly Influent monitoring of all parameters occurred at the required frequencies. The following were notable sampling events:
 - January 9, 2018: Metals, Cyanide, Mercury

RECYCLING:

Significant events in the Recycling Department for January 2018 include:

- Staff conducted an annual leak detection survey of the distribution system identifying one potential leak. Excavation of the potential leak revealed no significant findings. The area will be periodically monitored for any significant changes
- Recycled water meter reading for the month of January 2018 did not occur due to system being out of service and no customer demand. February demand is projected to be higher than previous year due to dry weather pattern.
- Staff approved the connection of one customer in the MST area.
- Staff resumed land application of biosolids at the Jameson Reuse Site for a portion of the month and ceased land application due to wet weather. Staff continued biosolids encapsulating operations for the remainder of the month.

POLLUTION PREVENTION:

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

- There were 3 tours of the treatment plant given in January.
- In January, 35 pounds of medication were disposed of through the drug takeback program. The total amount of unneeded medications collected since program inception in September 2010 is 20,959.2 pounds.
- The District issued 25 ESME Washer Rebates this month at \$12.50 each for a total of \$312.50.

ENGINEERING / CAPITAL PROJECTS / DEVELOPMENT:

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

- Consultant continued design of the West Napa Pump Station Rehabilitation Project.
- Consultant continued design of the Headworks Equipment Replacement Project.
- Contractor continued construction of the Recycled Water Reservoir Improvements Project.
- Staff received and opened bids for the 2018 Collection System Rehabilitation Project.
- Consultant continued design of the Browns Valley Trunk Project.
- Consultant continued design of the Pond 1 Dredge Project.
- Consultant continued design of the 2018 Treatment Plant Improvements Project
- Consultant and Staff continued work on Phase 1A of the Asset Management Program.
- Contractor continued construction of the MST Recycled Water Pipeline Expansion Project.
- Contractor continued construction of the 2017 Collection System Rehabilitation Project.
- Staff reviewed 24 sets of development plans and deemed 15 sets of plans complete. The approved plans consisted of one commercial lateral, one apartment complex, six residential buildings, three residential laterals, and four tenant improvements.

Budget Status & Cash Summary - July 1, 2017 - January 31, 2018 (58.3% of the year)

<i>Expenditures</i>	FY 17-18 Budget	Encumbrances	Expenditures to date	Committed to date	Remaining Balance	Percent Committed
<u>Operating</u>						
Salaries & Benefits	\$9,581,300	\$1,133	\$4,889,309	\$4,890,442	\$4,690,858	51.0%
Services & Supplies	6,054,300	1,186,097	2,746,102	3,932,200	2,122,100	64.9%
Taxes	28,650	-	14,355	14,355	14,295	50.1%
Debt Service	4,777,450	-	4,120,256	4,120,256	657,194 (1)	86.2%
Intrafund Transfers	8,900,000	-	4,450,000	4,450,000	4,450,000	50.0%
Total Operating:	\$29,341,700	\$1,187,231	\$16,220,022	\$17,407,253	\$11,934,447 (2)	59.3%
<u>Capital</u>						
Bldgs/Improvements & Equip	\$33,805,500	\$5,014,944	\$8,349,476	\$13,364,419	\$20,441,081 (3)	39.5%
Intrafund Transfers	3,630,000	-	3,630,000	3,630,000	-	100.0%
Total Capital :	\$37,435,500	\$5,014,944	\$11,979,476	\$16,994,419	\$20,441,081	45.4%
Grand Total Expenditures:	\$66,777,200	\$6,202,174	\$28,199,498	\$34,401,672	\$32,375,528	51.5%

<i>Revenues</i>	FY 17-18 Budget	Encumbrances	Collected to date	Received to Date	Uncollected Revenue	Percent Collected
<u>Operating</u>						
Use of Money/Property	\$896,000		\$623,067	\$623,067	\$272,933	69.5%
Intergovernmental	\$15,000		\$0	-	15,000	N/A
Charges for Services	27,429,100		16,183,594	16,183,594	11,245,506	59.0%
Miscellaneous Revenues	61,000		387,328	387,328	(326,328) (4)	635.0%
Donations/Contributions (Capital Labor)	-		415,278	415,278	(415,278) (5)	N/A
Total Operating:	\$28,401,100		\$17,609,267	\$17,609,267	\$10,791,833	62.0%
<u>Capital</u>						
Use of Money/Property	\$0		\$1,721	\$1,721	(\$1,721)	N/A
Capacity Charges	3,630,000		3,901,157	3,901,157	(271,157)	107.5%
Intergovernmental	4,076,000		1,282,138	1,282,138	2,793,862	31.5%
Bond/Loan Proceeds	10,137,000		-	-	10,137,000	0.0%
Sale of Assets	25,000		8,372	8,372	16,628	N/A
Miscellaneous Revenues	-		6,870	6,870	(6,870)	N/A
Intrafund Transfers	12,530,000		8,080,000	8,080,000	4,450,000	64.5%
Total Capital:	\$30,398,000		\$13,280,258	\$13,280,258	\$17,117,742	43.7%
Grand Total Revenue:	\$58,799,100		\$30,889,525	\$30,889,525	\$27,909,575	52.5%

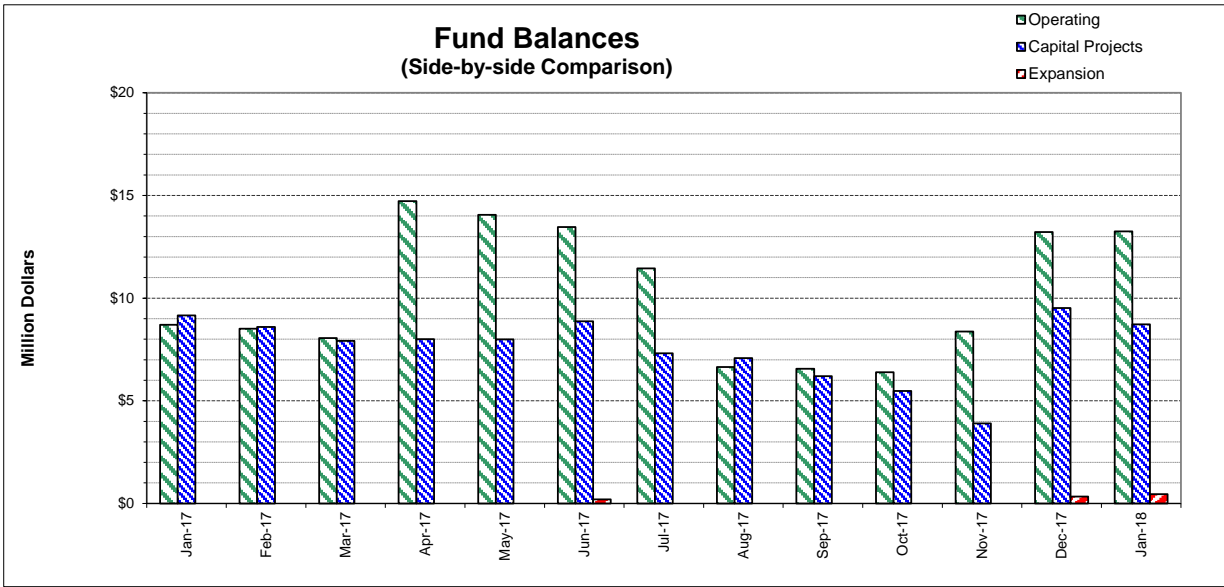
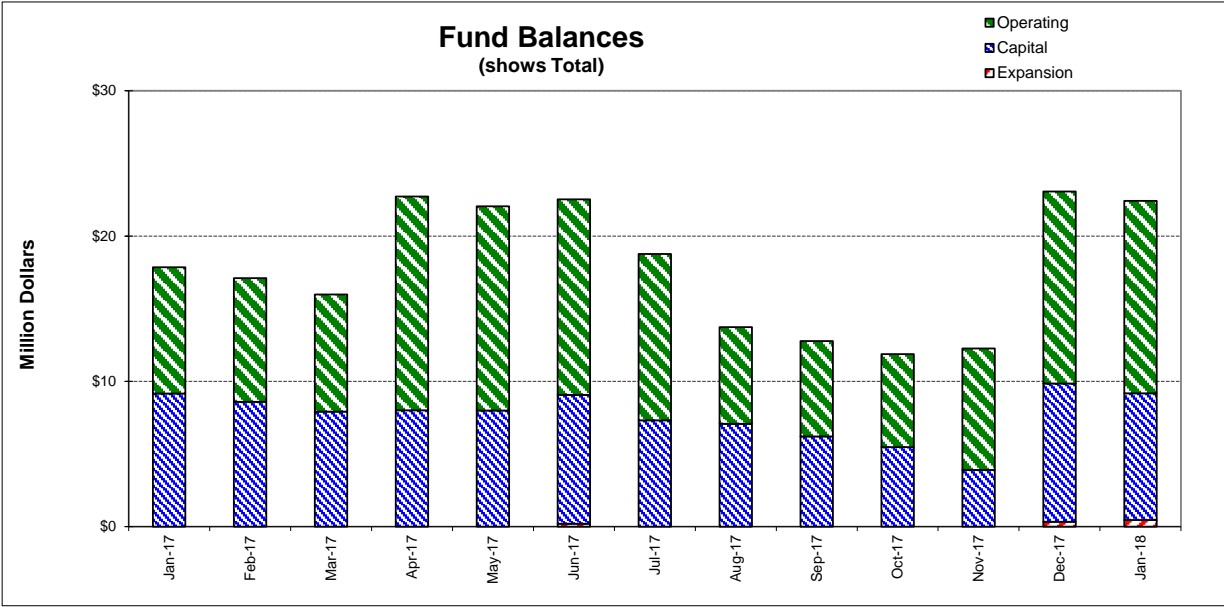
Cash on Hand as of 1/31/18

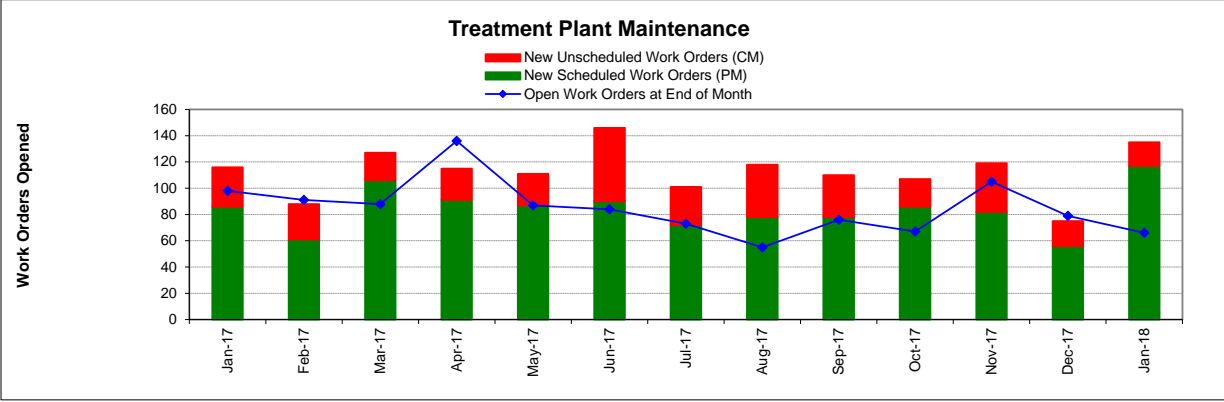
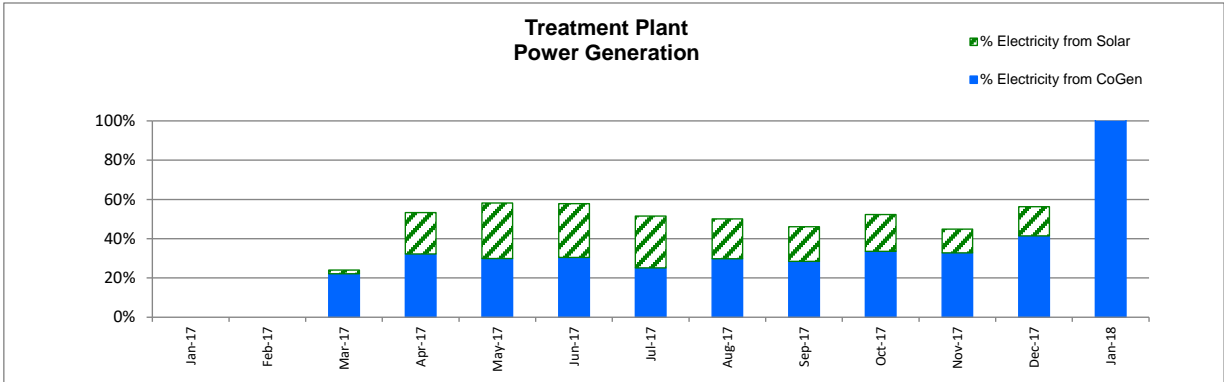
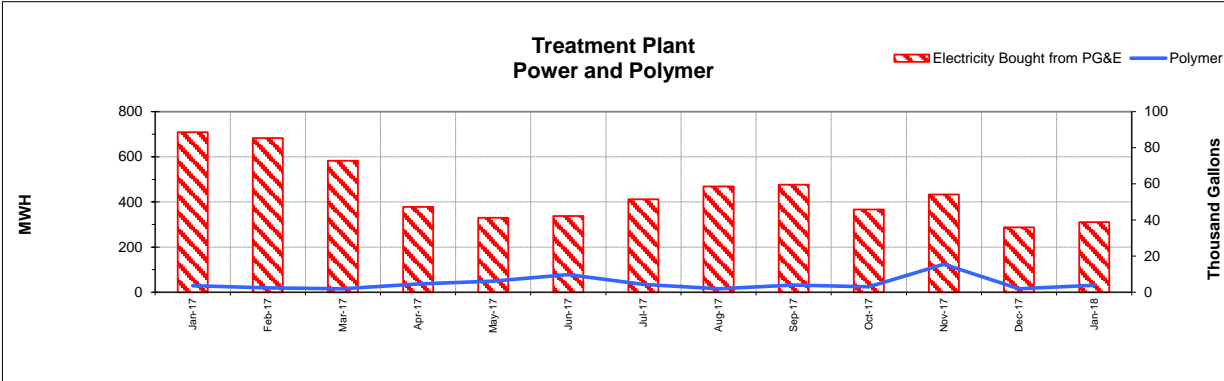
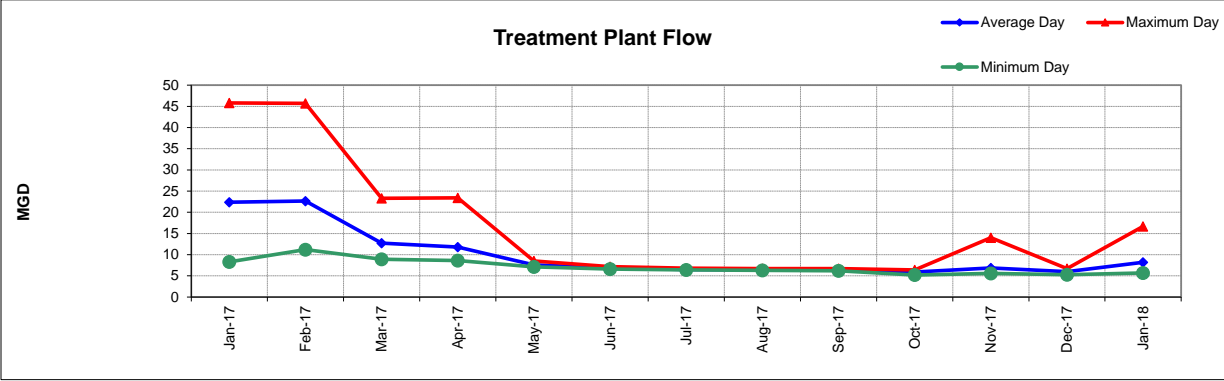
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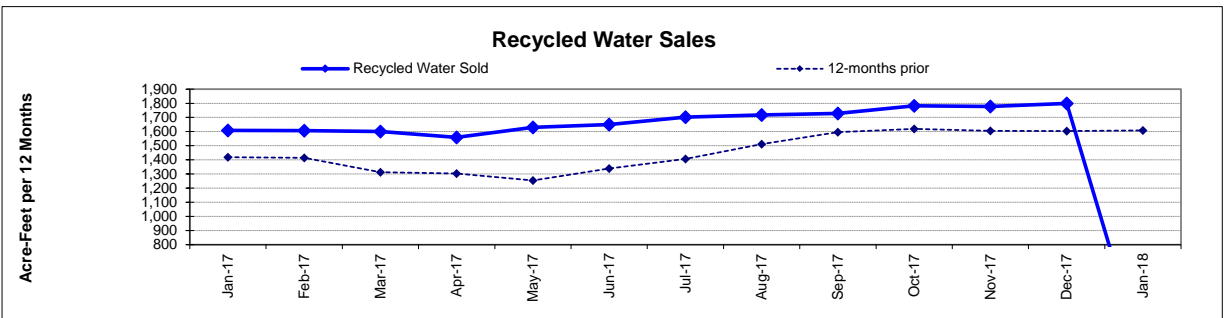
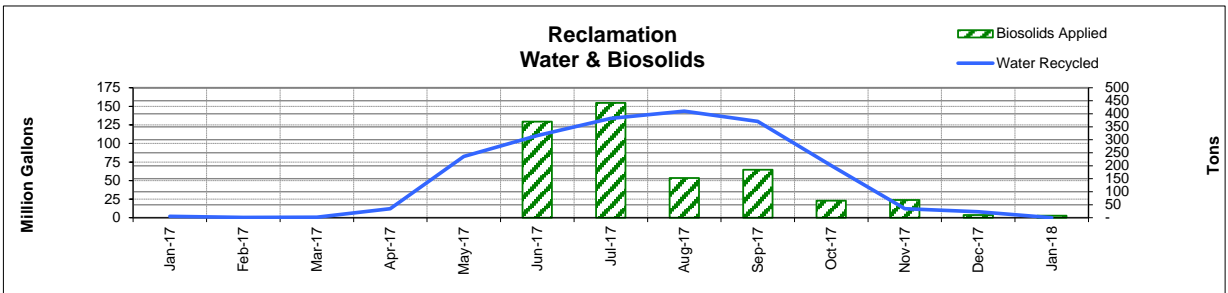
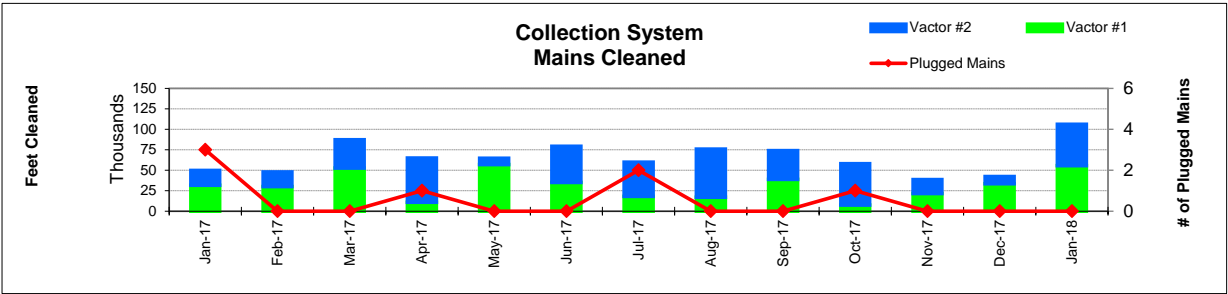
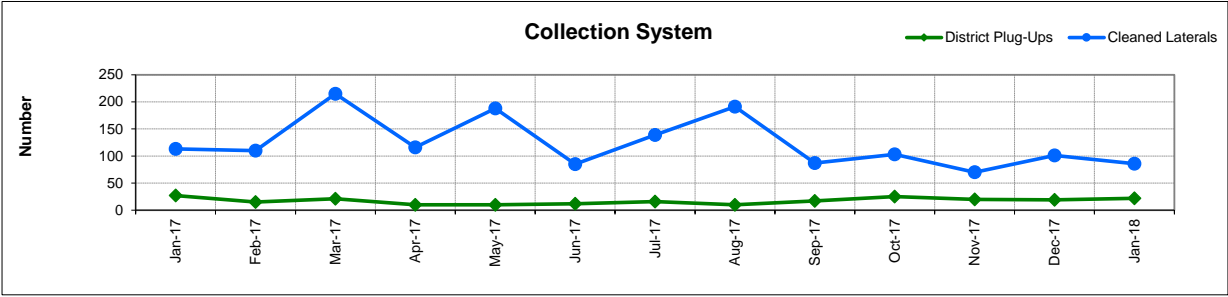
**excluding Debt Service restricted funds

1/31/18 -Effective Rate of Return = 1.34%

1. Series 2009B's and 2012A's principal/interest payments are made in Aug & Feb
2. Includes Debt Service and Intrafund Transfers; otherwise is 56.4%
3. See Capital Project Status report for details
4. Includes reimbursement from NBWRA from FY 16-17
5. In-house Labor for Capital Projects (Contra acct for Salaries)







FUND BALANCES - MONTHLY

CATEGORY	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18
<i>(Thousand Dollars)</i>													
7800	8,701	8,506	8,055	14,722	14,059	13,463	11,450	6,645	6,560	6,395	8,372	13,220	13,251
7850	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Operating	8,701	8,506	8,055	14,722	14,059	13,463	11,450	6,645	6,560	6,395	8,372	13,220	13,251
Capital Improvement Projects	9,154	8,598	7,921	8,001	7,995	8,867	7,312	7,083	6,205	5,480	3,897	9,514	8,720
Debt Proceeds	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal Capital	9,154	8,598	7,921	8,001	7,995	8,867	7,312	7,083	6,205	5,480	3,897	9,514	8,720
Total Discretionary Funds	17,855	17,104	15,976	22,723	22,054	22,330	18,762	13,728	12,765	11,875	12,269	22,734	21,971
Expansion Fund (Restricted)	-	-	-	-	-	202	-	-	-	-	-	332	449
Total Restricted Funds	-	-	-	-	-	202	-	-	-	-	-	332	449
TOTAL ALL FUNDS	17,855	17,104	15,976	22,723	22,054	22,532	18,762	13,728	12,765	11,875	12,269	23,066	22,420

DEVELOPMENT WORKLOAD - MONTHLY

CATEGORY	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18
<u>Phone Requests</u>													
Maps/Drawings	9	7	4	5	5	5	3	4	5	6	3	3	6
Lateral Permits	-	2	2	-	-	-	-	-	-	-	-	-	0
Policy Questions	6	10	6	4	10	19	11	6	4	7	8	6	4
Development Questions	45	60	63	62	91	95	51	71	28	39	40	23	55
Miscellaneous	8	6	6	8	8	10	11	3	3	2	3	10	8
TOTAL	68	85	81	79	114	129	76	84	40	54	54	42	73
<u>Counter Requests</u>													
Maps/Drawings	2	1	-	1	3	6	2	-	1	-	-	-	1
Lateral Permits	11	5	11	10	10	18	15	6	16	4	5	7	11
Policy Questions	3	2	1	-	5	2	5	2	2	2	1	2	-
Development Questions	9	13	5	15	29	21	8	14	8	7	9	9	7
Miscellaneous	3	1	-	1	5	6	2	2	2	3	-	1	1
TOTAL	28	22	17	27	52	53	32	24	29	16	15	19	20
<u>Initial Request (Referrals)</u>	17	11	25	17	22	20	10	11	14	11	17	5	7
<u>Connection Permits Issued</u>													
Residential Permits	-	1	3	1	1	12	1	4	2	1	1	5	3
Commercial Permits	-	1	3	1	4	2	2	5	4	2	2	3	5
Industrial Permits	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PERMITS	-	2	6	2	5	14	3	9	6	3	3	8	8
Residential Units	-	1	3	1	2	35	1	4	2	1	1	5	3
Commercial Units	-	3	-	1	4	7	2	6	4	2	2	3	5
TOTAL UNITS	-	4	3	2	6	42	3	10	6	3	3	8	8
<u>Annexations</u>													
Submitted	-	-	-	-	-	-	-	-	-	-	-	-	-
Acreage	-	-	-	-	-	-	-	-	-	-	-	-	-
<u>Plans Reviewed</u>													
<u>Subdivisions/Sites</u>													
First Submittal	10	2	4	11	6	8	10	5	10	6	2	3	9
Second Submittal	2	3	7	6	8	4	5	7	1	1	1	4	2
Third Submittal	2	1	5	1	2	8	4	2	1	7	2	3	5
<u>Building/Tenant Improvements</u>													
First Submittal	10	5	7	4	9	17	8	19	15	9	5	10	5
Second Submittal	5	2	5	4	4	5	9	6	5	9	10	3	1
Third Submittal	2	1	10	3	7	8	6	7	3	2	7	5	2
<u>Miscellaneous Plan Reviews</u>	1	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PLANS REVIEWED	32	14	38	29	36	50	42	46	35	34	27	28	24

INSPECTION WORKLOAD - MONTHLY

CATEGORY	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18
<u>CONSTRUCTION</u>													
Locating Sewers	-	-	-	-	-	-	-	-	-	1	-	-	-
Permit Processing	-	-	-	-	-	1	-	-	-	-	-	-	-
Preconstruction Meetings	9	6	6	4	1	2	3	2	-	-	1	1	7
Inspections - Mains	-	-	6	1	-	4	-	-	2	-	-	5	-
Inspections - Manholes	46	16	15	61	1	9	3	3	40	72	45	62	41
Inspections - Laterals	24	17	50	14	3	8	11	8	6	2	7	15	23
Inspections - Cleanouts	42	38	74	25	-	2	4	3	4	4	11	10	31
Inspections - Review Video	1	-	-	-	2	-	3	-	-	-	-	-	-
Demo - Septic Tanks	-	-	-	-	-	-	-	-	-	-	-	-	-
Demo - Buildings	2	-	1	2	-	-	-	-	-	-	-	-	-
Update Record Drawings	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	124	77	152	107	7	26	24	16	52	79	64	93	102
<u>MISCELLANEOUS</u>													
Meter Readings	100	-	13	24	-	-	-	-	-	-	-	-	11
Washdown Facility Inspections	-	-	-	-	-	-	-	-	-	-	-	-	-
General Customer Assistance	11	11	10	12	11	30	34	28	30	31	30	25	26
City of Napa Water Discharge	-	-	-	-	-	-	-	-	-	-	-	-	0
TOTAL	111	11	23	36	11	30	34	28	30	31	30	25	37
<u>SPECIAL PROJECTS</u>													
	0	6	16	0	0	22	21	23	36	24	6	1	7

POLLUTION PREVENTION WORKLOAD - MONTHLY

CATEGORY	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18
<u>Outreach Activities</u>													
Plant Tours Conducted	1	4	11	3	4	1	2	1	9	1	2	0	3
Presentations Made	1	2	1	1	5	1	0	0	3	0	0	0	0
Total Outreach Activities	2	6	12	4	9	2	2	1	12	1	2	-	3
<u>Inspections Conducted</u>													
Food Service Facilities	21	53	35	25	-	-	-	-	-	-	-	-	6
Auto Body & Car Wash	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	1	-	-
Total Inspections	21	53	35	25	-	-	-	-	-	-	1	-	6
<u>Compliance Issues</u>													
NOVs Issued	-	1	4	-	-	1	-	-	1	2	-	1	-
NOEs Issued	-	1	1	-	1	-	-	1	1	1	-	1	1
Non-Compliant-FOG	-	1	1	-	-	-	-	-	-	-	-	1	-
Total Compliance Issues	-	3	6	-	1	1	-	1	2	3	-	3	1
<u>Pollution Prevention</u>													
Clothes Washer Rebates	28	21	-	-	28	21	1	1	19	-	-	-	25
Toilet Retrofit Rebates	5	4	7	1	2	7	16	6	3	-	-	-	-
Pharmaceuticals Diverted (in lbs)	332	201	210	185	302	368	-	-	-	59	63	-	35

RECYCLED WATER DELIVERIES - MONTHLY

	Acres	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18
MONTHLY (MG)														
Water Sold														
Golf Courses	405.0	0.245	-	0.081	2.513	53.481	66.261	73.994	58.595	53.035	26.903	5.504	6.253	-
Cemeteries	5.0	-	-	-	-	0.705	0.754	0.834	1.116	0.634	0.833	0.193	0.003	-
Parks	18.5	-	-	0.002	0.001	0.624	1.020	0.902	0.866	0.650	0.333	0.020	-	-
Schools	21.0	0.005	-	0.005	0.013	1.396	2.604	2.250	2.178	1.613	1.485	0.195	0.019	-
Commerical	167.6	1.191	0.404	0.501	2.493	15.246	17.491	17.468	17.399	15.227	13.665	4.387	1.402	-
Vineyards	564.0	0.194	0.063	0.101	7.119	4.868	10.709	19.143	30.814	18.019	16.506	1.766	0.225	-
Trucked Water	175.0	0.009	0.002	0.015	0.018	0.027	0.051	0.474	0.602	0.274	0.197	0.030	0.014	-
Subtotal Sales	1,356.1	1.644	0.469	0.705	12.156	76.347	98.891	115.065	111.571	89.451	59.922	12.095	7.916	-
District Use														
Jameson	330.0	0.089	-	0.087	0.032	-	-	7.298	18.483	20.751	-	-	-	-
Somky	213.0	-	-	0.002	-	6.256	11.738	11.488	13.426	19.372	10.364	-	-	-
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal District	593.5	0.089	-	0.089	0.032	6.256	11.738	18.786	31.910	40.122	10.364	-	-	-
TOTAL DELIVERED	1,949.6	1.733	0.469	0.794	12.188	82.603	110.628	133.851	143.481	129.574	70.286	12.095	7.916	-
ANNUAL (AF)														
Water Sold														
Golf Courses	405.0	969	969	969	936	985	1,013	1,047	1,033	1,044	1,048	1,045	1,064	
Cemeteries	5.0	14	14	14	14	14	14	14	15	13	15	16	16	
Parks	18.5	16	16	16	16	16	16	14	13	13	13	14	14	
Schools	21.0	34	34	34	33	32	32	32	33	33	36	36	36	
Commerical	167.6	304	305	299	287	300	301	309	309	310	322	325	328	
Vineyards	564.0	266	265	264	270	279	270	281	308	310	342	336	336	
Trucked Water	175.0	5	5	5	4	4	4	5	5	5	6	6	5	
Subtotal Sales	1,356.1	1,609	1,607	1,600	1,559	1,630	1,650	1,702	1,717	1,728	1,782	1,778	1,799	-
District Use														
Jameson	330.0	163	163	163	163	163	158	164	183	182	143	143	143	
Somky	213.0	222	222	222	222	241	268	254	230	222	223	223	223	
Fagundes/Airport	50.5	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal District	593.5	385	385	385	385	404	427	419	413	404	366	366	366	-
TOTAL DELIVERED	1,949.6	1,994	1,992	1,985	1,945	2,034	2,077	2,121	2,130	2,132	2,148	2,144	2,165	-

BIOSOLIDS HANDLING - MONTHLY

Site	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18
<u>Land Applied by NSD</u>													
Somky													
Airport/Fagundes													
Jameson Canyon	-	-	-	-	-	370	442	153	184	65	68	11	8
Subtotal by NSD	-	-	-	-	-	370	442	153	184	65	68	11	8
<u>Land Applied by Contractor</u>													
Somky													
Airport/Fagundes													
Jameson Canyon													
Subtotal by Contractor	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Land Applied	-	-	-	-	-	370	442	153	184	65	68	11	8
Off Site (Contractor)													
Total (tons)	-	-	-	-	-	370	442	153	184	65	68	11	8

COLLECTION SYSTEM MAINTENANCE - MONTHLY

CATEGORY	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18
<u>Plugups</u>													
Total Calls	75	51	61	39	37	44	43	36	42	54	63	48	62
Business Hours	49	30	43	25	21	25	25	27	26	33	38	27	40
After Hours	26	21	18	14	16	19	18	9	16	21	25	21	22
District's	27	15	21	10	10	12	16	10	17	25	20	19	22
Property Owner's	48	36	40	29	27	32	27	26	25	29	43	29	40
Plugged Main Lines	3												
Run Lateral w/Eel	113	110	215	116	188	85	139	191	87	103	70	101	86
<u>Cleaning (feet of sewer)</u>													
Vactor #1	31,694	30,016	52,800	10,888	56,860	35,077	18,053	17,179	38,849	7,417	21,500	33,612	55,782
Vactor #2	18,222	18,062	34,405	53,959	7,819	44,357	41,749	58,712	35,140	50,621	17,254	8,642	50,441
Hydro												1,251	
Rodder													765
Total (feet)	49,915	48,077	87,205	64,846	64,679	79,433	59,802	75,891	73,989	58,038	38,754	43,505	106,988
<u>Cleaning Days</u>													
Vactor #1	9	11	14	5	16	12	8	8	14	3	10	14	18
Vactor #2	7	7	11	17	4	16	13	23	11	18	10	5	14
Hydro													
Rodder													1
<u>Feet/day</u>													
Vactor #1	3,500	2,750	3,750	2,200	3,550	2,900	2,250	2,150	2,750	2,450	2,150	2,400	3,100
Vactor #2	2,600	2,600	3,150	3,150	1,950	2,750	3,200	2,550	3,200	2,800	1,750	1,750	3,600
Hydro													
Rodder													750
<u>Video Inspections</u>													
Mains (feet)	5,981	6,398	17,209	15,580	25,066	24,881	15,731	15,789					
Laterals (each)	203	175	324	249	251	205	265	246	170	184	172	186	114
<u>Construction (each)</u>													
Cleanouts	4	10	16	4	16	7	31	17	7	4	6	11	15
Laterals	1		4	3	4	15		9	1	1	1	1	1
Mains												1	
Manholes			1										
Other					50			2		57	79		
<u>USA Markings</u>													
Regular (w/in 2 days)	151	186	254	305	297	258	215	264	233	252	363	210	281
Emergency (w/in 2 hours)	7	7	13	8	3	6	5	3	7	33	9	13	15

WASTEWATER PLANT OPERATIONS DATA - MONTHLY

CATEGORY	Units	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18
FLOWES		31	28	31	30	31	30	31	31	30	31	30	31	31
Influent	MG	693.3	634.5	394.1	353.8	234.9	206.4	201.5	199.7	191.6	183.0	205.5	186.3	254.0
Average Day	MGD	22.4	22.7	12.7	11.8	7.6	6.9	6.5	6.4	6.4	5.9	6.9	6.0	8.2
Maximum Day	Date	10-Jan	7-Feb	23-Mar	9-Apr	1-May	11-Jun	4-Jul	21-Aug	18-Sep	11-Oct	17-Nov	1-Dec	10-Jan
Maximum Day Flow	MG	45.8	45.7	23.3	23.4	8.5	7.2	6.8	6.7	6.7	6.4	14.0	6.7	16.7
Minimum Day	Date	1-Jan	1-Feb	20-Mar	30-Apr	24-May	30-Jun	31-Jul	30-Aug	4-Sep	1-Oct	1-Nov	26-Dec	2-Jan
Minimum Day Flow	MG	8.3	11.2	8.9	8.6	7.1	6.6	6.4	6.3	6.2	5.2	5.6	5.3	5.7
Effluent	MG	529.2	718.6	730.8	480.3	98.9	117.1	146.3	158.0	142.9	80.0	314.7	169.1	302.3
River Discharge	MG	529.2	718.6	725.8	463.4	-	-	-	-	-	-	305.8	163.8	302.0
Recycled Flow	MG	-	-	5.0	16.8	98.9	123.3	134.0	158.0	142.9	73.0	8.9	5.3	0.3
BIOSOLIDS	Tons	439	355	488	568	507	639	521	952	703	612	731	617	713
Wet Tons Generated from Pond	Tons													
Wet Tons Generated from Plant	Tons	439	355	488	568	507	639	521	952	703	612	731	617	713
% Solids Liquid	%													
% Solids Cake	%													
% Solids Land Application	%													
Wet Tons Hauled Offsite	Tons													
POLYMER USE	Gallons	3,670	2,394	1,979	4,644	6,112	9,760	4,352	1,987	3,927	3,051	15,506	1,939	3,839
Pond Pre-Flocculators	Gallons	2,003	-	-	2,676	-	-	-	-	-	-	11,711		2,460
Flocculator Polymer 1	Gallons													
Flocculator Polymer 2	Gallons	1,148	1,927	1,325	720	-	-	-	-	115	-	-	250	589
Filter Polymer 1	Gallons	-		47	746	5,662	8,984	3,739	914	3,077	2,358	830	728	
Filter Polymer 2	Gallons												151	790
Belt Presses	Gallons	519	467	607	502	450	776	613	1,073	735	693	784	810	13
ENERGY														
Total Electricity Used	MWH	709	683	749	759	713	739	807	849	870	747	719	658	661
Purchased from PGE	MWH	709	683	583	378	330	338	412	469	476	367	433	287	311
Produced from Co-Gen	MWH	-	-	166	245	213	225	203	253	248	251	236	273	288
Percent Produced	%			22%	32%	30%	30%	25%	30%	29%	34%	33%	41%	44%
Purchased from Solar	MWH	-	-	14	159	202	203	213	172	153	140	87	98	74
Percent Produced				2%	21%	28%	27%	26%	20%	18%	19%	12%	15%	11%
Purchased Natural Gas	Therms	-	13	205	50	21	51	858	56	60	19	99	91	2,404
Methane Flared Off	KSCF	3,225	2,722	986	56	15	225	127	156	164	5	82	192	523
Stand By Calls	#	24	41	63	42	55	86	48	44	78	36	47	66	23
Violations	#	-	-	-	-	-	-	-	-	-	-	-	-	-

WASTEWATER PLANT MAINTENANCE and LABORATORY DATA - MONTHLY

CATEGORY	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18
<u>Scheduled</u>													
Old	75	49	43	40	75	41	37	28	17	33	33	61	39
New	86	61	106	91	87	90	72	78	78	86	82	56	117
Completed	112	67	109	56	121	94	81	89	62	86	54	78	125
New Balance	49	43	40	75	41	37	28	17	33	33	61	39	31
<u>Unscheduled</u>													
Old	57	49	48	48	61	46	47	45	38	43	34	44	40
New	30	27	21	24	24	56	29	40	32	21	37	19	18
Completed	38	28	21	11	39	55	31	47	27	30	27	23	23
New Balance	49	48	48	61	46	47	45	38	43	34	44	40	35
<u>Total Work Orders</u>													
Old	132	98	91	88	136	87	84	73	55	76	66	105	79
New	116	88	127	115	111	146	101	118	110	107	119	75	135
Completed	151	95	130	67	161	149	112	132	89	117	81	101	148
New Balance	98	91	88	136	87	84	73	55	76	67	105	79	66
<u>LAB ANALYSES</u>													
Sample Type													
Regulatory	192	214	210	218	177	230	173	193	194	156	178	163	123
Process Control	1,189	1,051	1,370	1,167	820	1,107	1,024	1,104	1,091	1,137	1,220	1,139	1,071
Special Request	3	1	1	-	6	200	-	-	7	8	4	6	4
Quality Control/Assurance	303	272	301	497	523	574	464	549	428	420	1,110	874	692
TOTAL	1,687	1,538	1,882	1,882	1,526	2,111	1,661	1,846	1,720	1,721	2,512	2,182	1,890

**Summary of NSD Capital Project Status
through 01-31-18**

Proj #	Description	FY 17-18 Budget	FY 16-17 Carryovers	Adj.	Final FY 17-18 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
	<u>COLLECTION SYSTEM</u>								
13701	Main Line Sewer Rehab	91,800			91,800	-	13,654	78,146	15%
13702	Manhole Raising/Rehab	206,000			206,000	-	142,625	63,375	69%
13703	Lateral Replacement/Rehab	74,500			74,500	-	57,244	17,256	77%
13704	Cleanouts Installation/Rehab	90,000			90,000	457	48,515	41,028	54%
13705	I&I Reduction Program	207,000	29,000		236,000	191,581	17,257	27,163	7%
14703	Browns Valley Rd & First St	9,237,000	3,004,750	(1,000,000)	11,241,750	117,809	134,198	10,989,743	1%
17702	Upper Lateral Rehab - Basin L (Pilot #2)	155,300		(110,000)	45,300	-	23,687	21,613	52%
17704	Infltrtn Rehab - SSMH/PL (CI-)	-	73,900		73,900	-	-	73,900	-
17705	Soscol Ave (8th to Oil Co Rd)	950,000	415,450		1,365,450	25,437	1,320,476	19,537	97%
17707	66-inch Trunk CCTV Inspection	-	149,350	90,000	239,350	47,531	105,885	85,935	44%
17708	Basin G - I&I Reduction #1	2,942,000	1,504,100		4,446,100	1,275,814	2,751,636	418,650	62%
17734	Homewood/Westwood I/I Reduction	-	60,300		60,300	-	17,537	42,763	29%
18701	I&I Smoke Testing	100,000			100,000	-	-	100,000	-
18702	Collection System Asset Management Software	350,000			350,000	-	-	350,000	-
18703	Upper Lateral Rehab - Pilot #4	5,000			5,000	-	-	5,000	-
18704	Manhole Rehab - Nipak - Basin H	284,600		(5,000)	279,600	171,640	10,763	97,197	4%
18705	Sewer System Inflow/Infiltration 2018	1,650,000		834,000	2,484,000	8,291	95,260	2,380,449	4%
18706	Sewer System Inflow/Infiltration 2019	20,000			20,000	-	-	20,000	-
	<u>COLLECTION SYSTEM - EQUIPMENT</u>								
18707	Locatable Mini-Camera #2 Replacement	11,100			11,100	-	8,836	2,265	80%
18708	Manhole - Smart Covers (4)	25,000			25,000	-	2,398	22,602	10%
18709	Vehicle 504 - TV Truck	270,000			270,000	-	187,154	82,846	69%
18735	Permaliner Picote	-		20,000	20,000	-	15,476	4,524	77%
18738	Combination Truck Veh #529B	-		575,000	575,000	563,239	-	11,761	-
	<u>LIFT STATIONS</u>								
17711	West Napa PS - Rehab	-	1,746,365		1,746,365	33,741	32,794	1,679,830	2%
	<u>TREATMENT</u>								
13745	Pond 1 Dredge	400,000			400,000	26,725	1,047	372,229	0%
16708	Algae to Digester/Thermal Stdy	-	46,800		46,800	22,913	698	23,189	1%
	<u>TREATMENT - EQUIPMENT</u>								

**Summary of NSD Capital Project Status
through 01-31-18**

Proj #	Description	FY 17-18 Budget	FY 16-17 Carryovers	Adj.	Final FY 17-18 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
13735	Dual Fuel Boiler Burner	155,300			155,300	-	-	155,300	-
13741	Secondary PS Pump Rebuild (3)	38,800			38,800	-	31,797	7,003	82%
13743	Risidual Analyzers (Deox) Replacements	5,000	3,500	40,000	48,500	-	43,925	4,575	91%
15711	Rotork Actuator Replacement	-	7,600		7,600	-	-	7,600	-
15713	Aeration Basin Instrmntn/Ctrl	-	10,000		10,000	-	3,280	6,720	33%
16714	High Voltage System Repairs	-	66,500	(66,500)	-	-	-	-	-
17713	Secondary PS VFD Rplcmnt (3)	55,400	51,150	(106,550)	-	-	-	-	-
17714	WWTP MP - 3W Sys Imprvmnts	440,000	36,100	(476,100)	-	-	-	-	-
17715	Turbidimeters (7) Tertiary Rplcmnts	20,000	15,400		35,400	14,041	19,405	1,954	55%
17718	Ener Audit - LED Pole/Arm Mounted Fixtures	-	44,750	(15,000)	29,750	4,297	267	25,186	1%
17725	Main - Sump #3 Modification	-	10,000		10,000	-	-	10,000	-
18710	3W Pipeline - Soscol PS to Plant - Rehab	33,300			33,300	-	-	33,300	-
18711	3W Strainer	83,200			83,200	-	-	83,200	-
18712	3W VFD	62,100		(62,100)	-	-	-	-	-
18713	Primary Influent Pipe - East Gallery	250,000		(250,000)	-	-	-	-	-
18714	Distillation System	6,000			6,000	-	-	6,000	-
18715	Muffle Furnace - Replacement	15,000		(10,000)	5,000	-	-	5,000	-
18716	Rotork Actuator Replacement	91,800			91,800	-	-	91,800	-
18717	Septage Card Reader Replacement	21,400			21,400	-	-	21,400	-
18718	Secondary Clarifier Mech/Struct Rehabilitation	50,000			50,000	3,060	46,940	-	94%
18719	Filter Flow Control - Rotork Valves	46,600			46,600	-	-	46,600	-
18720	Neuros Blowers Rebuild	62,100			62,100	-	-	62,100	-
18721	CCB #3 Effluent Gate	5,000		(5,000)	-	-	-	-	-
18722	FOG Station Water Heater	5,000			5,000	-	-	5,000	-
18723	Pond 4 PS - Repair Leak	24,000		(24,000)	-	-	-	-	-
18724	Filter 1-4 Air Valve	10,000		(10,000)	-	-	-	-	-
18725	Belt Press Hydraulic Actuator Replace	20,000			20,000	-	-	20,000	-
18734	Boat Motor Vehicle 302	-		10,000	10,000	-	7,407	2,593	74%
18739	Pond 1 Transformer Repair	-		25,000	25,000	17,713	-	7,287	-
	TREATMENT - STRUCTURES								
17726	Headworks Equipment Rehab/Replacment	250,000	42,100		292,100	111,453	152,168	28,478	52%
18726	Building HVAC and Lab Ventilation	500,000		(500,000)	-	-	-	-	-
18727	Earthquake - Structural Repair	300,000		350,000	650,000	7,413	573,190	69,397	88%
18728	Roof Rplcmnt - Solids Handling/Digester Tower	232,900		(65,000)	167,900	2,000	164,935	965	98%

**Summary of NSD Capital Project Status
through 01-31-18**

Proj #	Description	FY 17-18 Budget	FY 16-17 Carryovers	Adj.	Final FY 17-18 Budget	Encumbrance	Costs Paid to Date	Budget Remaining	% Budget Expended
18736	Treatment Plant Project 2018	-		1,500,250	1,500,250	279,441	46,098	1,174,710	3%
18737	Flash Mixer Replacement	-		45,000	45,000	36,428	-	8,572	-
	<u>SCADA</u>								
18729	SCADA MP Project #1 - Network Monitoring	50,000			50,000	-	163	49,838	0%
	<u>RECYCLING - DISTRICT</u>								
16716	Line Recycled Water Reservoir	1,800,000	169,550	650,000	2,619,550	1,231,243	628,884	759,423	24%
18730	Jameson 24" Flow Meter Rehab	6,200			6,200	-	-	6,200	-
18731	Coombsville Truck Fill Station	100,000			100,000	6,534	18,546	74,920	19%
	<u>RECYCLING - EXPANSION</u>								
13727	North Bay Wate Reuse Project	150,000			150,000	-	80,485	69,515	54%
14726	MST RW Pipeline Construction	-	5,000		5,000	-	2,573	2,427	51%
16722	MST RW Pipeline Extension	2,800,000	(158,465)		2,641,535	816,144	1,367,392	457,999	52%
	<u>OTHER</u>								
13729	Development Technical Support	239,900			239,900	-	164,948	74,952	69%
18732	Box Culvert - Fugundes Emergency Access	5,000			5,000	-	-	5,000	-
18733	GPS Handheld	15,000			15,000	-	7,958	7,042	53%
GRAND TOTAL ALL PROJECTS		\$25,018,300	\$7,333,200	\$1,434,000	\$33,785,500	\$5,014,944	\$8,347,500	\$20,423,057	25%