SQUAW VALLEY PUBLIC SERVICE DISTRICT



2017 WATER AND SEWER SYSTEM REPORT

Prepared April 2018 By Josh Wilson and John O'Neal

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EQUIPMENT CAPITAL REPLACMENT PROJECTS

Budget Year 2019 - 2023

Equipment Type	Funding Source	FY	18/19	FY 19/20	FY 20/21	FY	21/22	FY 22/23	Pro	ject Total
Fleet										
Ford F-250	Water/Sewer FARF			\$ 49,900					\$	49,900
Ford F-350	Water/Sewer FARF					\$	49,200		\$	49,200
Equipment										
Sewer Bypass Trailer and Hose	Sewer CIP	\$	75,000						\$	75,000
Towable 6" Sewer Bypass Pump	Sewer FARF				\$ 35,000				\$	35,000
Small Tools and Equipment										
Air Compressor	Water/Sewer FARF			\$ 21,500					\$	21,500
SCBA Cart	Water/Sewer FARF	\$	9,500						\$	9,500
Radios	Water/Sewer FARF	\$	15,000						\$	15,000
Listening Devices	Water/Sewer FARF			\$ 6,000					\$	6,000
TOTAL		\$	99,500	\$ 77,400	\$ 35,000	\$	49,200		\$	261,100

WATER CAPITAL PROJECTS

Budget Year 2019 - 2023

CIP Projects	Funding Source	FY	18/19	FY 19/20	FY 20/21	F١	Y 21/22	FY 22/23	Pr	oject Total
East Booster Replacement Project	33% Water CIP 67% Water FARF				\$168,300	\$	691,300		\$	859,600
Pressure Zone 1A Project	Water CIP					\$	191,400		\$	191,400
SVPSD/SVMWC Intertie	Water CIP			\$185,000					\$	185,000
Fire Service Line Detector Check Installation Project	Water CIP			\$ 51,400	\$ 52,800	\$	54,200	\$ 54,200	\$	212,600
PlumpJack Well				\$950,000					\$	950,000
ΤΟΤΑΙ		\$	-	\$236,400	\$221,100	\$	936,900	\$ 54,200	\$	2,398,600
CRP Projects										
Victor/Hidden Lake 2" Waterline Replacement Project	Water FARF				\$ 20,000	\$	102,700		\$	122,700
Zone 3 Booster Pump Station Upgrades Project	Water FARF	\$	27,600						\$	27,600
West Tank Inspection and Recoating Project	Water FARF	\$	5,000	\$211,000					\$	211,000
Zone 3 Tank Inspection and Recoating Project	Water FARF	\$	5,000		\$ 54,500				\$	59,500
East Tank Inspection		\$	5,000						\$	5,000
Residential Meter Replacement Project (Includes Irrigation Meter Removal on SFR)	Water FARF			\$ 65,400	\$ 67,000	\$	68,600	\$ 70,300	\$	271,300
Fire Hydrant Replacement Project	Water FARF	\$	32,800	\$ 33,600	\$ 34,500	\$	35,500	\$ 35,500	\$	136,400
ΤΟΤΑΙ		\$	75,400	\$310,000	\$176,000	\$	206,800	\$105,800	\$	833,500
GRAND TOTAL		\$	75,400	\$546,400	\$397,100	\$	1,143,700	\$160,000	\$	3,232,100

SEWER CAPITAL PROJECTS Budget Year 2019 - 2023

Budget Teal 2019 - 2023								
Project Title	Funding Source	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	Pro	bject Total
CIP Projects								
Truckee River Siphon Project	55% Sewer CIP 45% CRP	\$1,666,100					\$	1,666,100
Sewer Flow Meter Project	Sewer CIP	\$ 21,100	\$128,400				\$	149,500
Sewer Cleanout Installation Project (Point of Service Line Cleanouts)	Sewer CIP		\$168,200	\$172,800	\$ 177,400	\$182,200	\$	700,600
Granite Chief "A" Line		\$ 90,000					\$	90,000
TOTAL	-	\$1,687,200	\$296,600	\$172,800	\$ 177,400	\$182,200	\$	2,606,200
CRP Projects								
Manhole Inspection Project	Sewer FARF	\$ 12,000	\$ 12,600	\$ 13,230			\$	37,830
Manhole Replacement/Rehabilitation Program	Sewer FARF		\$218,000	\$339,100			\$	557,100
Sewer System CCTV	Sewer FARF	\$ 68,200	\$ 69,500	\$ 88,000	\$ 37,700		\$	263,400
Backyard Easement Sewer Replacement Projects	Sewer FARF		\$243,800		\$ 257,200		\$	501,000
TOTAL		\$ 80,200	\$543,900	\$440,330	\$ 294,900		\$	1,359,330
GRAND TOTAL		\$1,767,400	\$840,500	\$613,130	\$ 472,300	\$182,200	\$	3,965,530

Utilities Report 2017

I. Flow Report

A.	Water Production Total Comparison: 9.68 MG N	= 114.61 MG More Than 2016	
B.	Sewer Collection Total Comparison: 8.88 MG	= 96.03 MG More Than 2016	
C.	Aquifer Level 2017	Maximum Level Minimum Level	February 10, 2017: 6192.3' September 4, 2017: 6187.3'
	Total Change in Total Change in	Static Water Level 2016: Static Water Level 2017:	10.3' 5.0'
D.	Precipitation Total	16/17 Water Year = 12 53-Year average = 53.	9.26" 31"

- 16/17 Water Year % of the 53-Year average = 242.49%
- E. Flow Report Conclusions: Water production increased 8% over the previous year. Sewer collection increased 9% over the previous year.

** The lowest level recorded in the aquifer was 6,174.0 feet above mean sea level on October 12, 2001. This level is not necessarily indicative of the total capacity of the aquifer.

^{*} The maximum level represents a rough average of the highest levels measured in the aquifer during spring melt period.

^{***} Creek bed elevation (per Kenneth Loy, West Yost Associates) near Well 2r is 6,186.9 feet.

^{****} The season total for Precipitation is calculated from October 2016 through September 2017.

^{*****} The true average could be higher or lower than the reported value due to the uncertainty of the Old Fire Station precipitation measurement during the period 1994 to 2004.

^{*****} The production number is different than scada reports due to time of day reading issues.

II. Leaks, Repairs, and Maintenance

A. Water

- 1. New meters installed: 5
- 2. Water meters replaced or rebuilt: 4
- 3. Water meter upgrades: 0
- 4. Customer service water meters turned on or off: 16
- 5. Routine leak/high usage detection notification: 110
- 6. Customer requested leak detection services performed: 22
- 7. No water responses: 0
- 8. Fire hydrants flushed: 139
- 9. Blow-offs flushed: 15
- 10. Valves exercised: 42
- 11. Repair/Replace service line: 0
- 12. Repair leak on water main: 1
- 13. Backflow devices tested: 509
- 14. Test District backflows: 6
- 15. Quarterly vault inspections on Well 1R and Well 3: 8
- 16. Water tank inspections: 8
- 17. Water quality complaints serviced: 0
- 18. Tested commercial meters: 9
- 19. Replaced Air/Vac breakers: 0
- 20. Water samples collected:
 - Bacteriological: 27 Nitrate: 4 Nitrite: 4 Asbestos: 1 Inorganic: 3 Secondary-GP: 3

B. Sewer

- 1. Sanitary sewer overflows: 2 (class 3)
- 2. Main line repairs: 0
- 3. Service line repairs: 0
- 4. Sewer cleanout repairs: 0
- 5. Manhole repairs: 4
- 6. Manhole grouting: 3
- 7. Cleaning:
 - Spring and fall cleaning of high priority lines Main sewer lines cleaned: 289
- 8. Inspections:

Sewer code related inspections: 30

Pre-remodel inspections: 6

- Finals inspections: 11
- USA locations: 106
- FOG Inspections: 18
- Toilet Inspections: 9

III. Building and Grounds Maintenance and Repair

A. 305 Squaw Valley Road Fire Department and Administration

1. Continued monthly service and maintenance of facility and equipment.

B. 1810 Squaw Valley Road District Equipment Garage

1. Continued monthly service and maintenance of facility and equipment.

IV. Vehicles and Equipment

A. Vehicles

1. All vehicles received an annual service, with the exception of the Ford Interceptor and Ford F-150 which received biannual services.

B. Equipment

1. All small equipment received an annual service.

V. Administrative

- A. Hanson data input.
- B. VUEWorks migration from Hanson.

VI. Operation & Maintenance Projects

- A. 1810 Administration Building fence built
- B. West Tank road repair/culvert found and repaired
- C. Hydrant replacement project started
- D. 305 Parking lot light fixtures cement repaired
- E. TTSA Manhole easement cleared of trees and bushes
- F. Gate valve box repairs
- G. Continued Operations and Maintenance of SV Mutual Water Company.
- H. Sewer System I/I inspection
- I. Tested commercial meters for accuracy
- J. Manhole Repairs
- K. Spring and Fall Flushing
- L. Annual Sewer Cleaning
- M. High Priority Cleaning

VII. Summary

This season the District was able to start replacing old Fire Hydrants and make a number of repairs to damaged assets. The District continued a contract to operate and maintain the Squaw Valley Mutual Water Company. Training continued this year keeping the district crew as knowledgeable and up to date as possible so that we may provide the best available service to our customers.

VIII. Safety Training

1/20/2017	Safe Winter Driving, SDRMA Booklet					
	Brandon, Josh, Jason, Devin, Schel, John					
2/24/2017	Slips, Trips and Falls, SDRMA Booklet					
	Josh, Brandon, Devin, Jason, Schel, John					

3/3/2017 Diversity in the Real World, SDRMA Booklet

	Josh, Devin, Brandon, Schel
3/30/2017	Sexual Harassment Prevention for Supervisors, Target Solutions Josh, Devin, Jason, Schel
4/7/2017	Driven to Distraction II, SDRMA Booklet Josh, Jason, Devin, John
5/12/2017	Back in Action, SDRMA Booklet Josh, Jason, Schel, John, Devin, Brandon
6/9/2017	Heat Stress for Public Employees, SDRMA Booklet Josh, Brandon, John, Devin, Jason, Schel
8/11/2017	Harassment a new Look, SDRMA Booklet Josh, Sam, John, Schel, Jason
9/1/2017	Ergonomics, SDRMA Booklet Josh, Jason, Sam, John, Schel
10/13/2017	Fire Safety, SDRMA Booklet Josh, Jason, John, Sam, Schel
10/20/2017	Emergency Evacuation: Getting Out Alive, SDRMA Booklet Josh, Sam, John, Jason, Schel
11/17/2017	Hazcom – Are you GHS Ready, SDRMA Booklet Josh, Brandon, John, Schel, Sam
12/8/2017	Stairways and Ladders A Safe Step, SDRMA Booklet Josh, Sam, Schel, Jason, Brandon, John

IX. Occupational Training

4/25-27/2017	Cal Rural Water Education Expo South Tahoe
	Brandon, Dave

- 5/10/2017 Time Management, New Horizons Computer Learning Center John
- 7/21/2017 Confined Spaces in Construction, United Academy Reno Sam
- 8/4/2017 Excavation Safety (CPT), United Academy Reno Sam, John
- 8/10/2017 Traffic Control & Flagging Course, Sacramento Sam, John

9/6-9/7/2017	D1-D2 Review, AWWA Sacramento Sam
9/13/2017	Caustic Injection Quill Replacement, Main Well John, Sam, Josh
9/14/2017	Making Chlorine, Mutual Well House John, Sam, Josh
10/2-3/2017	Water Quality & Regulations Workshop, AWWA Olympic Valley Josh, Brandon
10/25/2017	Automated Valve Control, North Tahoe PUD John, Jason
12/4-5/2017	North American Water Loss, AWWA San Diego Brandon, Dave

Water System Inventory – 2017

- 1. Water Well #1R 388 GPM averaged. *
- 2. Water Well #2R 332 GPM averaged. *, **
- 3. Water Well #3 115 GPM averaged. *
- 4. Water Well #4 (Not in Service)
- 5. Water Well #5R 392 GPM averaged. *
- 6. Horizontal Well (Out of Service). *, ***

2017 Total average flow - 1,227 GPM ****

- 7. West Tank 1,150,000 Gallon Water Tank
- 8. East Tank 500,000 Gallon Water Tank
- 9. Zone 3 Tank 135,000 Gallon Water Tank

<u>Total Storage – 1,785,000 Gallons</u>

- 10. 2 Booster Pumping Stations
- 11. 811 Water Meters connected per Billing
- 12. 134 Fire Hydrants
- 13. 34 Air Release Valves
- 14. 509 Backflow Prevention Devices
- 15. 422 Gate Valves
- 16. 17 Butterfly Valves
- 17. 24 Blow Off Assemblies
- 18. 5 Control Valves (Granite Chief, East Booster, Zone 3 Booster, Hz Well)
- 19. 3 Transducer Stations (West Tank, East Tank, and Zone Three Tank)
- 20. 7 Remote Terminal Units (RTU), SCADA Telemetry System

Water System Inventory – 2017

- 21. 12,761 Feet 12" Water Distribution Main
- 22. 10,752 Feet 10" Water Distribution Main
- 23. 32,376 Feet 8" Water Distribution Main
- 24. 21,145 Feet 6" Water Distribution Main
- 25. 696 Feet 4" Water Distribution Main
- 26. 990 Feet 2" Water Distribution Main
- 27. 439 Feet 6" Water Service Line
- 28. 240 Feet 4" Water Service Line
- 29. 3,370 Feet 2" Water Service Line
- 30. 254 Feet 1.25" Water Service Line
- 31. 39 Feet 1.5" Water Service Line
- 32. 3,033 Feet 1" Water Service Line
- 33. 128 Feet ³/₄" Water Service Line

Total Water Main= 78,720 Feet= 14.909 MilesTotal Water Services= 7,503 Feet= 1.421 MilesCombined Total= 86,223 Feet= 16.330 Miles

* GPM averaged from the time wells were on and running.

** Well 2R GPM is affected by seasonal aquifer level changes. During low aquiver level years the well GPM is reduced to prevent pumping below the well screens.

*** Horizontal Well was out of service for 2017. When it runs GPM is affected by gravity flow and changes from one year to the next. Longer periods of operation will lower the GPM. The average in 2016 was 70 GPM.

**** 2017 total average flow does not indicate total capacity. This total is the combined GPM flows from all the wells as they were operated in 2017 calendar year.

Squaw Valley Public Service District - Year End Water Audit Report

	Report Date:	March 14, 2018	Performed By:	John O'Neal
Year: 2017				
Begin Audit Perio End Audit Perio	od: January 4, 2017 od: December 27, 2017			
Total Metered Co	nsumption for audit period	specified (including h	vdrant meters):	93 192 921
			yarant motoroj.	<u>00,102,021</u>
	Additional Consumptio	n - Unmetered		
	Fire Department Use:	<u>143,500</u>		
	Hydrant Flushing:	<u>1,393,000</u>		
	Blow-Off Flushing:	<u>23,000</u>		
	Sewer Cleaning:	<u>73,000</u>		
	Street Cleaning:			
	Well Flushing:			
	Tank Overflows:			
Unread	Meter Estimated Reads:			
	Other:			
I otal Unmet	ered Consumption (for auc	lit period specified):	1,632,500	
	Estimated Unknown Lo	ss - Unmetered		
	Known Theft:			
Kr	nown Illegal Connections:			
Total Estimated leaks	that have been repaired:	1,375,000		
Total Est	imated Unmetered (for aud	lit period specified):	1,375,000	
	·	· · · · ·		
	Total	Production for audit p	period specified:	<u>112,387,243</u>
То	tal <u>Metered/Unmetered</u> Co	nsumption for audit p	eriod specified:	96,200,421
To	al Water Loss (Productio	on - Consumption):	16,186,822	
	•	Loss Percentage:	14.4%	***
Comments: The production tota	als are different than the ar	nnual report due to a	different time fra	me

being used. The water audit uses the meter reading schedule dates.

*** Note - Total Water Loss Percentage includes theft, Illegal Connections or Leaks that have been repaired

^{*} Note - All Production & Consumption Totals In U.S. Gallons *











	Pump Run Hours										
	Well #1R	Well #2R	Well #3	Well #5R Motor	Well #5R Pump	East Boost	Zone-3 #1	Zone-3 #2			
Year Installed	2005	2011	2014	1999	2015	2015	1990	1990			
1990							30	30			
1991							98	66			
1992							112	84			
1993							120	99			
1994							136	146			
1995							223	160			
1996							363	145			
1997							538	338			
1998							438	352			
1999							612	264			
2000							527	640			
2001							631	573			
2002							493	514			
2003							509	503			
2004							541	550			
2005	209						486	473			
2006	1,868						455	468			
2007	1,796						438	467			
2008	1,552						477	460			
2009	1,552						533	388			
2010	1,637			172			381	365			
2011	1,866	687		1,983			353	344			
2012	1,570	1,569		1,681			513	482			
2013	1,927	1,923		1,884			417	408			
2014	933	1,985	642	1,991			391	393			
2015	1,375	1,399	1,358	985	150	348	312	325			
2016	1,341	1,326	1,317	1286	1,286	1,347	415	409			
2017	1,622	1,615	1,614	1447	1,447	1,698	317	313			
Total Hours	19,248	10,504	4,931	11,429	2,883	3,393	10,859	9,759			

Notes:

Annual and total hours in this spreadsheet are restarted from the time of replacement or rebuild of equipment.

Well 1R - the pump and motor was replaced in 2005 after 24,756 hours in service.

Well 2R - the pump and motor was replaced in 2011 after 42,644 hours in service.

Well 3 - the motor was replaced in 2008 after 12,116 hours in service.

Well 3 - the motor was replaced in 2014 after 5,787 hours in service.

Well 3 - the pump was replaced in 2014 after 17,903 hours in service.

Well 5R - the motor was rebuilt in 2010 after 20,246 hours in service.

Well 5R - the pump was replaced in 2015 after 28,792 hours in service.

East Booster - the pump and motor was replaced in 2015 after 18,822 hours in service.







Water and Sewer Production 2017									
	WATER	WATER	WATER	SEWER					
	SVPSD	SVMWC	TOTAL	TOTAL					
JAN	7.78	1.57	9.35	11.50					
FEB	6.91	1.29	8.20	12.67					
MAR	7.29	1.41	8.70	11.25					
APR	6.87	1.57	8.44	11.50					
MAY	6.98	1.69	8.67	7.36					
JUNE	13.65	3.65	17.30	5.68					
JULY	15.50	4.13	19.63	7.36					
AUG	15.87	3.97	19.84	6.00					
SEPT	12.94	3.37	16.31	5.08					
OCT	8.98	2.09	11.07	4.45					
NOV	4.98	1.33	6.31	6.72					
DEC	7.33	1.69	9.02	7.50					
	115.08	27.76	142.84	97.07	Million Gallons				
	N	ater informat	ion comes fr	om well logs					
Sewer information comes from SCADA									



30 Year SVPSD and SVMWC Combined Water Production Trend

Information comes from from well logs

SEWER SYSTEM INVENTORY – 2017

- 1. 453 Sanitary Manholes
- 2. 2 Siphons (6"-10")
- 3. 4 Sewer Flow Meters
 - Mag Meter, Painted Rock Siphon T-45A District owned
 - Mag Meter, Mountain Run Ski Corp owned
 - Mag Meter, HWY 89 T-TSA owned
 - Flume Meter, HWY 89 T-TSA owned (Not in Service)
- 4. 172 Feet 16" Sewer Main
- 5. 11,791 Feet 15" Sewer Main
- 6. 2,689 Feet 12" Sewer Main
- 7. 9,245 Feet 10" Sewer Main
- 8. 18,242 Feet 8" Sewer Main
- 9. 54,145 Feet 6" Sewer Main
- 10. 6,687 Feet 4" Sewer Main
- 11. 45,052 Feet 4" Sewer Lateral
- 12. 965 Sewer Connections per Billing
- 13. 2 Remote Terminal Units (RTU)

Total Sewer Main = 102,971 Feet = 19.502 Miles Total Sewer Laterals = 44,152 Feet = 8.532 Miles Combined Totals = 147,123 Feet = 27.864 Miles



2017 Annual Report on District Fleet

It is management's goal at the Squaw Valley Public Service District to have a robust emergency ready fleet capable of supporting a high level of maintenance and repair of the water and sewer infrastructure in Squaw Valley. Annual review of the fleet is integral to supporting this goal.

The overall age of the District fleet has decreased slightly and is now 12.8 years. The attached spreadsheet summarizes District vehicle and equipment by year, model, mileage, age, replacement schedule, and remaining service life. Additionally there are maintenance and cost projections for the coming budget year.

2017/2018 maintenance costs went over the budgeted amount due to a couple of unforeseen issues. The water pump on the Vac Con needed to be rebuilt and the PI needed to have two rims replaced on it. Maintenance on all of our equipment and vehicles went very smoothly, other than those two issues.

We have a new John Deere Back Hoe now and it was put to work right away with the late winter we had. It is working well and the crew is happy with the operations of this equipment it is worlds better than the old JCB Back Hoe.

An area that we have started to improve on is our hand tools. We have had some of our tools here for twenty plus years and a lot of them are in need of replacement. Some of the tool sets are missing pieces. We have started to slowly replace these tools.

Over all our fleet is doing well. We still run into mechanical problems every now and then but with the new purchases of equipment and vehicles we are spending less time fixing them. Our man power hours have increased over the years but this is mainly due to improving our maintenance on the districts fleet. We are spending a little more time making sure that we cover all aspects of maintenance on each vehicle and equipment to provide the best service and to maintain readiness for the district.

Annual Report on District Fleet

2018									
Vehicle/Equipment	Mileage	Age	Replacement	Service	Annual	Maintenance	2017	Maintenance	2018
	Hours		Schedule	Life	Use	Performed	2018	Due	2019
2008 Ford 1 Ton 4x4 Flat	35,510	10	15	5	2,354	Annual Service	\$367	Annual Service	\$350
1999 Ford Utility 4x4	62,387	19	15	-4	4,041	Annual Service	\$367	Annual Service	\$350
								Front tires	\$600
2014 Dodge Ram 4x4	35,468	4	15	11	3,953	Annual Service	\$367	Annual Service	\$300
						Repair Fuse/Lines on Inverter	\$268	New tires	\$1,500
1997 Ford Explorer	124,061	21	15	-6	1,715	Annual Service	\$367	Annual Service	\$300
2014 F-150 4x4	67,137	4	15	11	20,305	2x Annual Service	\$367	2x Annual Service	\$300
2008 F-750 Dump Truck	8,457	10	30	20	649	Annual Service	\$367	Annual Service	\$300
1998 JD 444H Loader	3,577	20	30	10	45	Annual Service	\$367	Annual Service	\$350
JD Backhoe	30	0	30	30	30	Annual Service	\$367	Annual Service	\$300
1998 JD Air Compressor	375	20	20	0	11	Annual Service	\$367	Annual Service	\$300
2007 New Holland	467	11	30	19	13	Annual Service	\$367	Annual Service	\$300
Westa Sno Blower		11	20	9					
2009 Vac-Con Hydro-Vac	8,055	9	30	21	582	Annual Service	\$367	Annual Service	\$400
Power Take Off (PTO)	245	9	30	21	6	Repair Bean Pump	\$6,200		
2009 Duetz Rear Engine	685	9	30	21	94	Annual Service	\$367	Annual Service	\$400
2016 Ford Interceptor	11,645	2	15	13	7,203	2x Annual Service	\$367	2x Annual Service	\$300
						Replace rims (Front)	\$685	New tires	\$1,500
6" Trash Pump (2000)	45	18	30	12	2	Annual Service	\$367	Annual Service	\$300
2010 Prowler Easement	67	8	20	12	25	Annual Service	\$367	Annual Service	\$300
Well House Generator	240.9	25	40	15	17	Annual Service	\$367	Annual Service	\$300
(1993)									
· · · · · · · · · · · · · · · · · · ·									
1810 Generator (1991)	796.6	27	40	13	16	Annual Service	\$367	Annual Service	\$300
, <i>, , , , , , , , , , , , , , , , , , </i>									
305 Generator (2004)	168.9	14	40	26	18	Annual Service	\$367	Annual Service	\$300
Equipment/Old Vehicles							\$367	Equipment	\$450
Miscellaneous Shop Supplies						Rags, Cleaning supp. Ect.	\$367	Rags, Cleaning Supp. Ect.	\$500
Total	Fleet Ave.	12.8					\$14,493		\$ 10,300

Vehicle Manpower and Maintenance Costs



SVPSD Operation Department 10 Year Fuel Useage Trend

