

# SQUAW VALLEY PUBLIC SERVICE DISTRICT



## 2018 WATER AND SEWER SYSTEM REPORT

Prepared April 2019

By

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**EQUIPMENT CAPITAL REPLACEMENT PROJECTS**

**Budget Year 2020 - 2024**

Equipment Type	Funding Source	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	Project Total
<b>Fleet</b>							
Ford F-250	Water/Sewer FARF		\$ 49,900				\$ 49,900
Ford F-350	Water/Sewer FARF				\$ 46,300		\$ 46,300
<b>Equipment</b>							
Sewer Bypass Trailer and Hose	Sewer CIP	\$ 50,000					\$ 50,000
Towable 6" Sewer Bypass Pump	Sewer FARF		\$ 33,800				\$ 33,800
							\$ -
<b>Small Tools and Equipment</b>							
Air Compressor	Water/Sewer FARF						\$ -
SCBA Cart	Water/Sewer FARF	\$ 9,500					\$ 9,500
Radios	Water/Sewer FARF	\$ 15,000					\$ 15,000
Listening Devices	Water/Sewer FARF						\$ -
Trimble GPS	Water/Sewer FARF		\$ 10,800				\$ 10,800
<b>TOTAL</b>		<b>\$ 74,500</b>	<b>\$ 94,500</b>	<b>\$ -</b>	<b>\$ 46,300</b>	<b>\$ -</b>	<b>\$ 215,300</b>

**WATER CAPITAL PROJECTS**

**Budget Year 2020 - 2024**

CIP Projects	Funding Source	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	Project Total
Pressure Zone 1A Project	Water CIP				\$ 85,000	\$ 390,000	\$ 475,000
Plump/Jack Well		\$ 125,000	\$ 975,000				\$ 1,100,000
<b>TOTAL</b>		<b>\$ 125,000</b>	<b>\$ 975,000</b>	<b>\$ -</b>	<b>\$ 85,000</b>	<b>\$ 390,000</b>	<b>\$ 1,575,000</b>
<b>CRP Projects</b>							
West Tank Recoating Project	Water FARF	\$ 20,000	\$ 265,000				\$ 285,000
Zone 3 Tank Recoating Project	Water FARF		\$ 5,000	\$ 67,000			\$ 72,000
Residential Meter Replacement Project (Includes Irrigation Meter Removal on SFR)	Water FARF	\$ 20,000	\$ 211,888	\$ 211,888			\$ 443,776
Fire Hydrant Replacement Project	Water FARF	\$ 21,000	\$ 21,000	\$ 21,000	\$ 21,000	\$ 21,000	\$ 105,000
<b>TOTAL</b>		<b>\$ 61,000</b>	<b>\$ 502,888</b>	<b>\$ 299,888</b>	<b>\$ 21,000</b>	<b>\$ 21,000</b>	<b>\$ 905,776</b>
<b>GRAND TOTAL</b>		<b>\$ 186,000</b>	<b>\$ 1,477,888</b>	<b>\$ 299,888</b>	<b>\$ 106,000</b>	<b>\$ 411,000</b>	<b>\$ 2,480,776</b>

**SEWER CAPITAL PROJECTS**

**Budget Year 2020 - 2024**

Project Title	Funding Source	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	Project Total
<b>CIP Projects</b>							
Truckee River Siphon Project	55% Sewer CIP 45% CRP	\$ 1,800,000					\$ 1,800,000
Sewer Cleanout Installation Project (Point of Service Line Cleanouts)	Sewer CIP				\$ 179,200	\$ 375,200	\$ 554,400
Granite Chief "A" Line		\$ 90,000					\$ 90,000
<b>TOTAL</b>		<b>\$ 1,890,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 179,200</b>	<b>\$ 375,200</b>	<b>\$ 2,444,400</b>
<b>CRP Projects</b>							
Manhole Inspection Project	Sewer FARF						\$ -
Manhole Replacement/Rehabilitation Program	Sewer FARF	\$ 25,000	\$ 120,000				\$ 145,000
Sewer System CCTV	Sewer FARF	\$ 82,620	\$ 95,389	\$ 40,993			\$ 219,002
Backyard Easement Sewer Replacement Projects	Sewer FARF				\$ 291,320		\$ 291,320
<b>TOTAL</b>		<b>\$ 107,620</b>	<b>\$ 215,389</b>	<b>\$ 40,993</b>	<b>\$ 291,320</b>	<b>\$ -</b>	<b>\$ 655,322</b>
<b>GRAND TOTAL</b>		<b>\$ 1,997,620</b>	<b>\$ 215,389</b>	<b>\$ 40,993</b>	<b>\$ 470,520</b>	<b>\$ 375,200</b>	<b>\$ 3,099,722</b>

# Utilities Report 2018

## I. Flow Report

A. Water Production Total = 111 MG  
Comparison: 3.61 MG Less Than 2017

B. Sewer Collection Total = 77.6 MG  
Comparison: 18.43 MG Less Than 2017

C. Aquifer Level 2018                      Maximum Level                      April 7, 2018: 6191.4'  
   Minimum Level                      November 23, 2018: 6179.0'

Total Change in Static Water Level 2017: 5.0'  
Total Change in Static Water Level 2018: 12.4'

D. Precipitation Total                      17/18 Water Year = 53.05"  
   53-Year average = 51.64"  
17/18 Water Year % of the 53-Year average = 102.73%

E. Flow Report Conclusions: Water production decreased 3% over the previous year.  
Sewer collection decreased 19% over the previous year.

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

\*\* 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.

\*\*\* 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 2017 through September 2018.

\*\*\*\*\* 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: 17
2. Water meters replaced or rebuilt: 3
3. Water meter upgrades: 0
4. Customer service water meters turned on or off: 14
5. Routine leak/high usage detection notification: 171
6. Customer requested leak detection services performed: 14
7. No water responses: 0
8. Fire hydrants flushed: 138
9. Blow-offs flushed: 10
10. Valves exercised: 22
11. Repair/Replace service line: 0
12. Repair leak on water main: 0
13. Backflow devices tested: 531
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: 41
19. Replaced Air/Vac breakers: 0
20. Water samples collected:
  - Bacteriological: 37
  - Nitrate: 4
  - Nitrite: 4
  - 1,2,3-TCP: 8
  - Inorganic: 2
  - Secondary-GP: 2
  - Perchlorate- 4

### B. Sewer

1. Sanitary sewer overflows: 0
2. Main line repairs: 0
3. Service line repairs: 0
4. Sewer cleanout repairs: 0
5. Manhole repairs: 8
6. Manhole grouting: 6
7. Cleaning:
  - Spring and fall cleaning of high priority lines
  - Main sewer lines cleaned: 280
8. Inspections:
  - Sewer code related inspections: 4
  - Pre-remodel inspections: 3
  - Finals inspections: 8
  - USA locations: 72
  - FOG Inspections: 3
  - Toilet Inspections: 2

### **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. Highway 89 Blow-Off repaired**

#### **B. Gate valve box repairs**

#### **C. Continued Operations and Maintenance of SV Mutual Water Company.**

#### **D. Sewer System I/I inspection**

#### **E. Tested commercial meters for accuracy**

#### **F. Manhole Repairs**

#### **G. Spring and Fall Flushing**

#### **H. Annual Sewer Cleaning**

#### **I. High Priority Cleaning**

#### **J. Hydrant Ballard Repairs**

#### **K. Mutual Horizontal Well Line Replacement**

#### **L. Tank Inspections**

#### **M. West Tank access road repaired**

#### **N. Installed extra locks on tanks for security**

#### **O. Meter Box replacements**

#### **P. Fuel tank replaced**

### **VII. Summary**

The Operations department was able to make a number of repairs to assets in the district this year. 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**

1/12/2018      Communication Breakdown, SDRMA Booklet

Josh, Brandon, Sam, Schel, John, Jason

2/9/2018      Sexual Harassment, SDRMA Booklet

Brandon, Jason, Sam, John, Josh, Schel  
 2/16/2018 Water Industry Blood Borne Pathogens, Target Solutions  
 Schel  
 3/6/2018 Back Protection, SDRMA Booklet  
 Josh, Jason, Sam, John, Schel  
 3/28/2018 Water Industry Storm Water Pollution Prevention, Target Solutions  
 Schel  
 4/13/2018 Respect for People, SDRMA Booklet  
 Josh, Schel, Brandon, Sam, John, Jason  
 5/4/2018 Heat Stress, SDRMA Booklet  
 Josh, Jason, Sam, Brandon  
 5/24/2018 Water Industry HAZMAT Spill Prevention & Control, Target Solutions  
 Josh, Jason, Brandon, Sam  
 6/1/2018 Emergency Action Plan, SDRMA Booklet  
 Josh, Brandon, John, Sam, Jason  
 7/20/2018 Housekeeping Safety, SDRMA Booklet  
 Josh, Brandon, Jason, John, Sam  
 8/24/2018 Ergonomics the 24-Hour Body, SDRMA Booklet  
 Josh, Brandon, Schel, Jason, Sam, John  
 10/26/2018 Fire Safety, SDRMA Booklet  
 Josh, Jason, Sam, Schel  
 11/2/2018 Hand Washing, SDRMA Booklet  
 Josh, Brandon, Sam, John, Schel, Jason  
 11/21/2018 Water Industry Hazard Communication, Target Solutions  
 Brandon, Josh, Schel  
 12/21/2018 Before You Turn the Key, SDRMA Booklet  
 Josh, Brandon, Sam, Jason, Schel, John

**IX. Occupational Training**

1/1/2018 Water Distribution System Operation and Maintenance, CSU  
 Sam  
 2/5/2018 Manhole Entry, Palisades Circle  
 Josh, Jason, Sam, John, Schel  
 2/8/2018 Operation of Pom Pom, 1810 Squaw Valley Rd.  
 Jason, Sam  
 2/8/2018 Operation of Wacker, 1810 Squaw Valley Rd.  
 Jason, Sam  
 2/8/2018 JD Backhoe Safety and Operation, 1810 Squaw Valley Rd.  
 Josh, Sam, Jason  
 3/1/2018 Water Treatment Plant Operation, CSU  
 Sam  
 5/9/2018 CWEA Safety Day, Kings Beach  
 Jason  
 5/23/2018 Sampling Techniques, CRWA  
 John  
 6/7/2018 Confined Space Entry Permit and Inspections, 305 Squaw Valley Rd.  
 Josh, Sam

7/10/2018 Use and Maintenance of Fire Hydrants, Western Nevada Supply  
Jason, John

8/29/2018 Safety Gear on Job Sites/Road Signs, 1810 Squaw Valley Rd.  
Josh, Schel, Sam, John, Jason

8/30/2018 Emergency Response Earthquakes, Crew Room  
Brandon, Josh, Schel, Sam, John, Jason

8/31/2018 Chemical Delivery Procedures for Mutual and SVPSD, Well Houses  
Josh, Jason, Sam, John, Schel

9/7/2018 Making Chlorine 3:1 Ratio for Mutual Day Tank, Mutual Well House  
Josh, Schel

10/24/2018 CWEA Northern Safety Day, Woodland CA  
Sam, John, Schel

11/21/2018 Trackless Snow Blower Safety and Training, 1810 Squaw Valley Rd.  
Josh, Jason, John, Schel, Sam



## Water System Inventory – 2018

1. Water Well #1R – 379 GPM average. \*
2. Water Well #2R – 307 GPM average. \*, \*\*
3. Water Well #3 – 104 GPM average. \*
4. Water Well #4 – (Not in Service)
5. Water Well #5R – 396 GPM average. \*
6. Horizontal Well – (Out of Service). \*, \*\*\*\*

2018 Total average flow – 1,185 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

Total Storage – 1,785,000 Gallons

10. 2 Booster Pumping Stations
11. 829 Water Meters connected per Billing
12. 138 Fire Hydrants
13. 34 Air Release Valves
14. 515 Backflow Prevention Devices
15. 417 Gate Valves

### Notes:

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

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

\*\*\* Horizontal Well is out of service. 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.

\*\*\*\* 2018 total average flow does not indicate total capacity. This total is the combined GPM flows from all the wells as they were operated in 2018 calendar year.

## Water System Inventory – 2018

16. 17 Butterfly Valves
17. 23 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
21. 12,761 Feet 12" Water Distribution Main
22. 10,752 Feet 10" Water Distribution Main
23. 32,312 Feet 8" Water Distribution Main
24. 21,015 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. 3,170 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 ¾" Water Service Line

Total Water Main = 78,526 Feet = 14.872 Miles  
Total Water Services = 7,303 Feet = 1.383 Miles  
Combined Total = 85,829 Feet = 16.250 Miles

# Squaw Valley Public Service District - Year End Water Audit Report

Report Date: March 1, 2019      Performed By: John O'Neal

Year: 2018

Begin Audit Period: 1/31/18 8:30 AM  
 End Audit Period: 1/2/19 11:30 AM

Total Metered Consumption for audit period specified (including hydrant meters): 99,344,129

Additional Consumption - Unmetered

Fire Department Use: 104,000  
 Hydrant Flushing: 1,784,506  
 Blow-Off Flushing: \_\_\_\_\_  
 Sewer Cleaning: 91,000  
 Street Cleaning: \_\_\_\_\_  
 Well Flushing: \_\_\_\_\_  
 Tank Overflows: \_\_\_\_\_  
 Unread Meter Estimated Reads: \_\_\_\_\_  
 Other: \_\_\_\_\_

Total Unmetered Consumption (for audit period specified): 1,979,506

Estimated Unknown Loss - Unmetered

Known Theft: \_\_\_\_\_  
 Known Illegal Connections: \_\_\_\_\_  
 Total Estimated leaks that have been repaired: \_\_\_\_\_

Total Estimated Unmetered (for audit period specified): 35,000

Total Production for audit period specified: 113,671,720

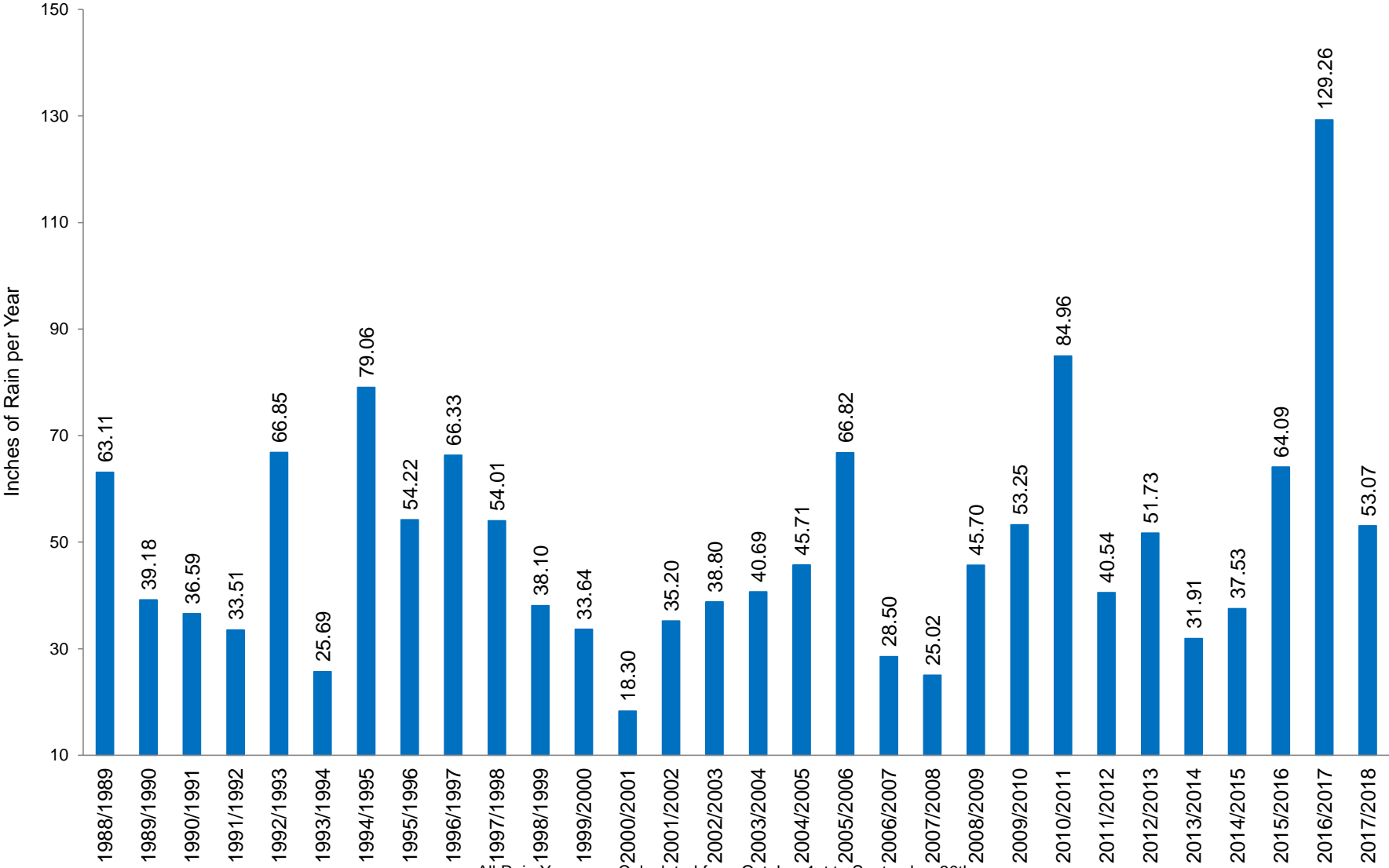
Total Metered/Unmetered Consumption for audit period specified: 101,358,635

**Total Water Loss (Production - Consumption): 12,313,085**

**Comments:** The production totals are different than the monthly report due to a different time frame being used.

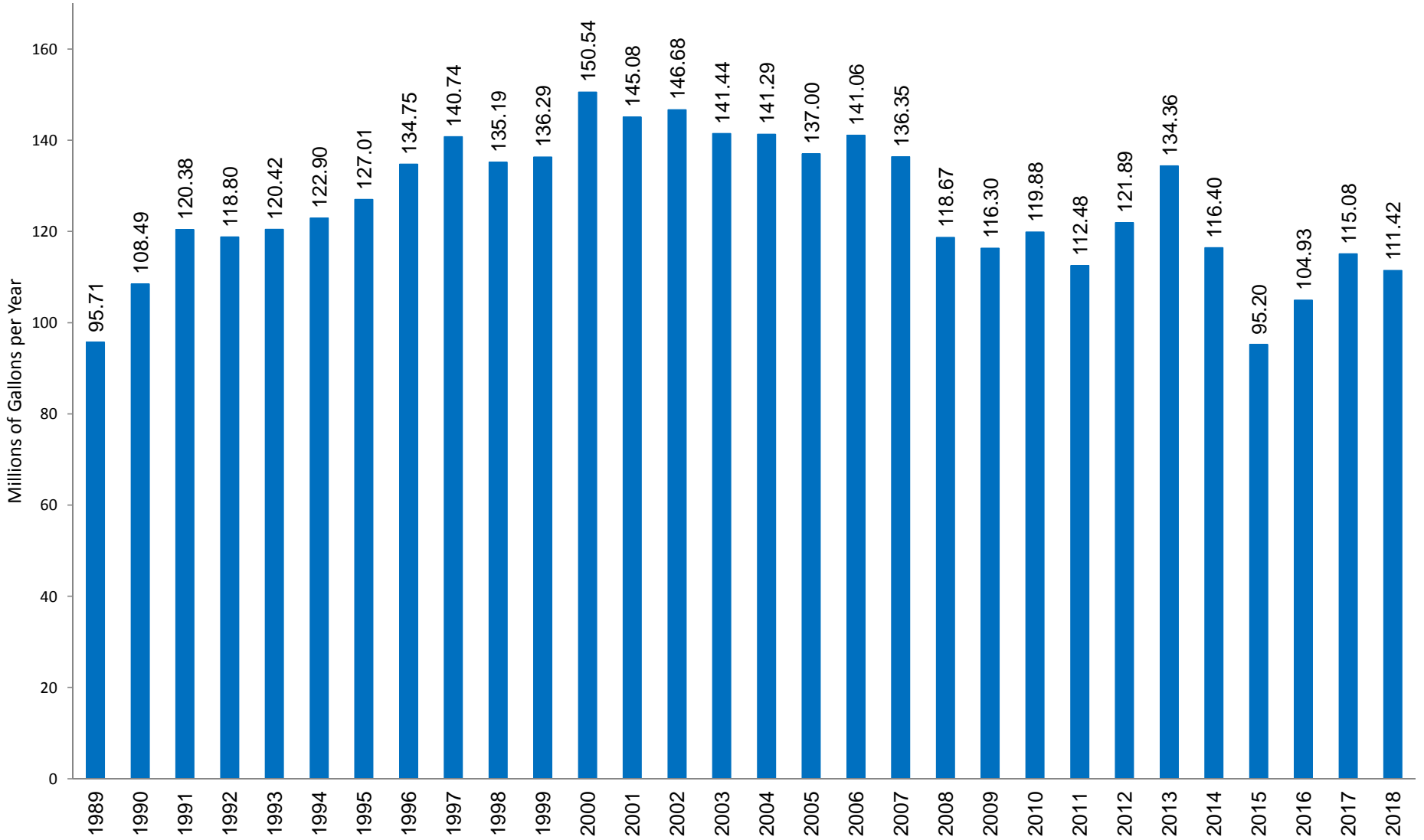
\* Note - All Production & Consumption Totals In U.S. Gallons \*

# SVPSD 30 Year Precipitation



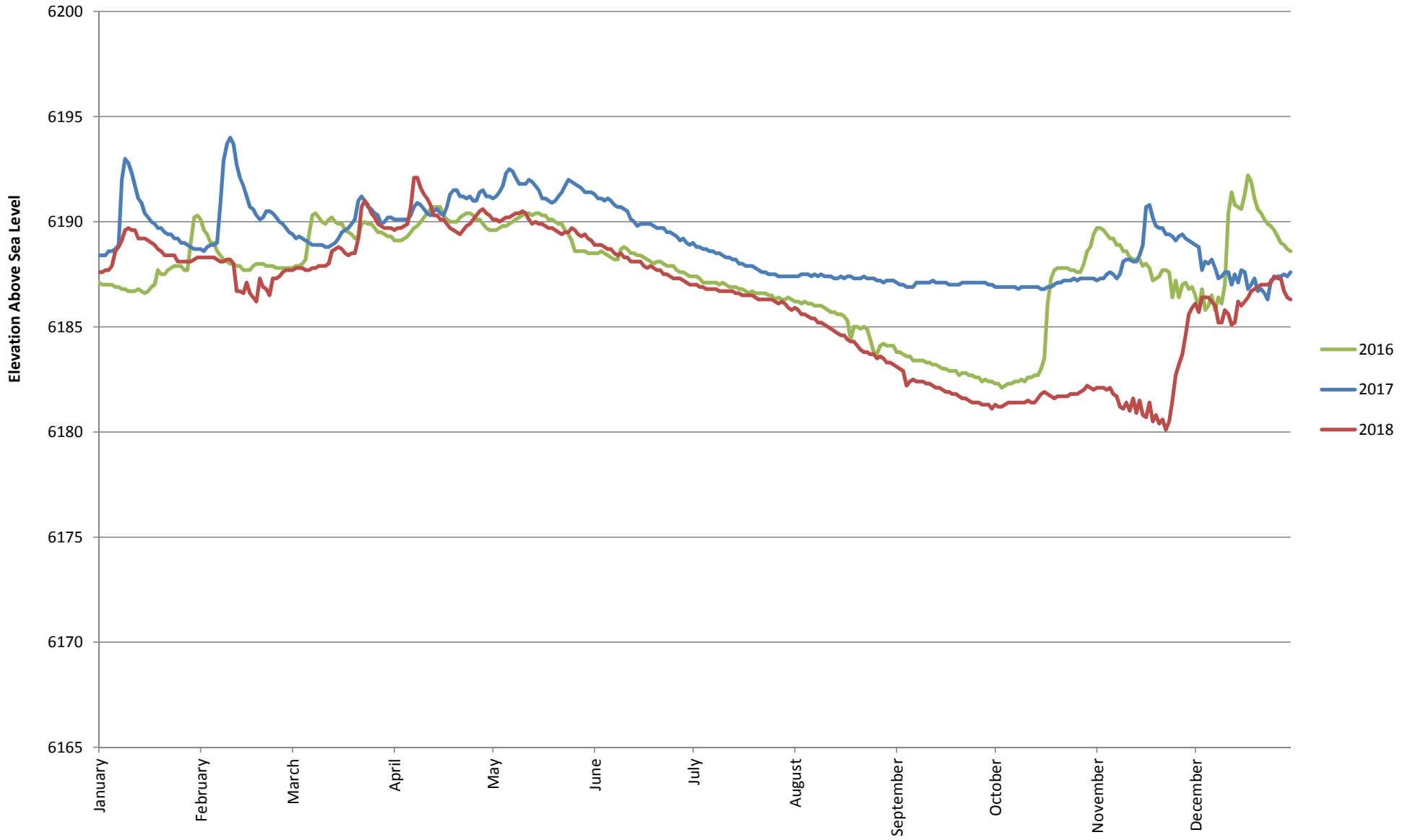
All Rain Years are Calculated from October 1st to September 30th

# SVPSD 30 Year Water Production Trend

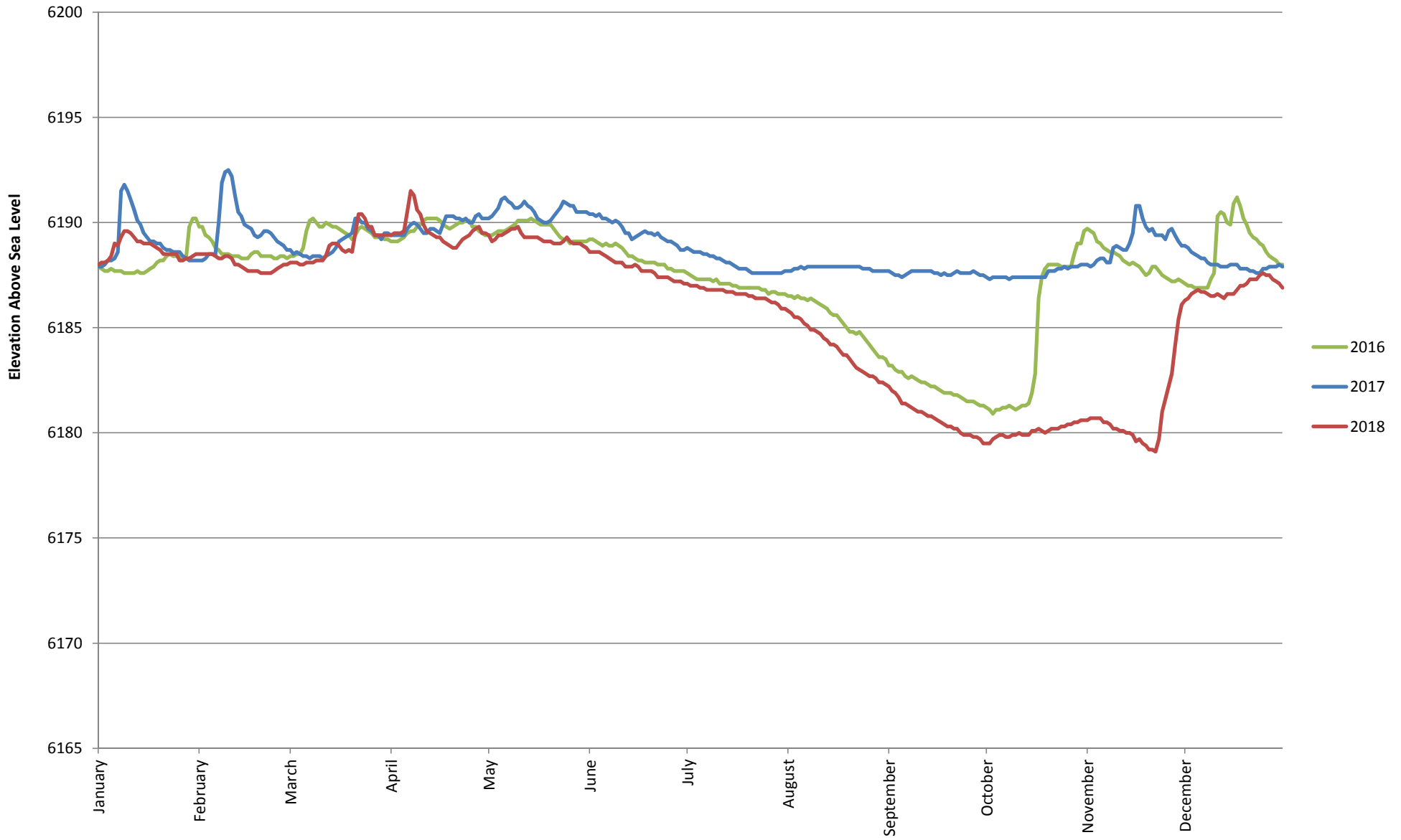


Information comes from from well logs

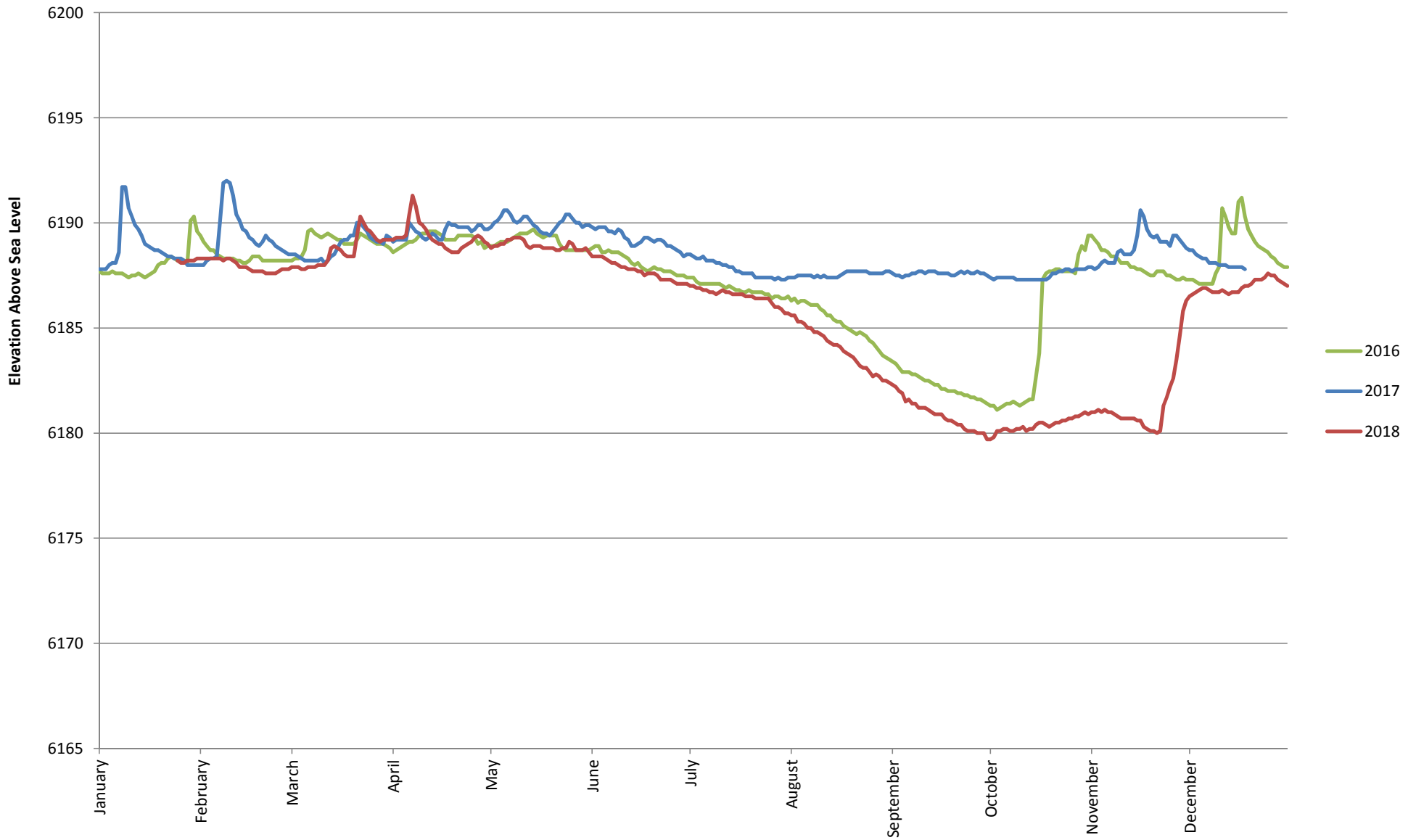
# SVPSD Water Well 1R 3 Year Aquifer Trend



# SVPSD Water Well 2R 3 Year Aquifer Trend



# SVPSD Water Well 5R 3 Year Aquifer Trend





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
2018	1,643	1,542	1,547	1476	1,476	1,769	342	338
<b>Total Hours</b>	<b>20,891</b>	<b>12,046</b>	<b>6,478</b>	<b>12,905</b>	<b>4,359</b>	<b>5,162</b>	<b>11,201</b>	<b>10,097</b>

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.

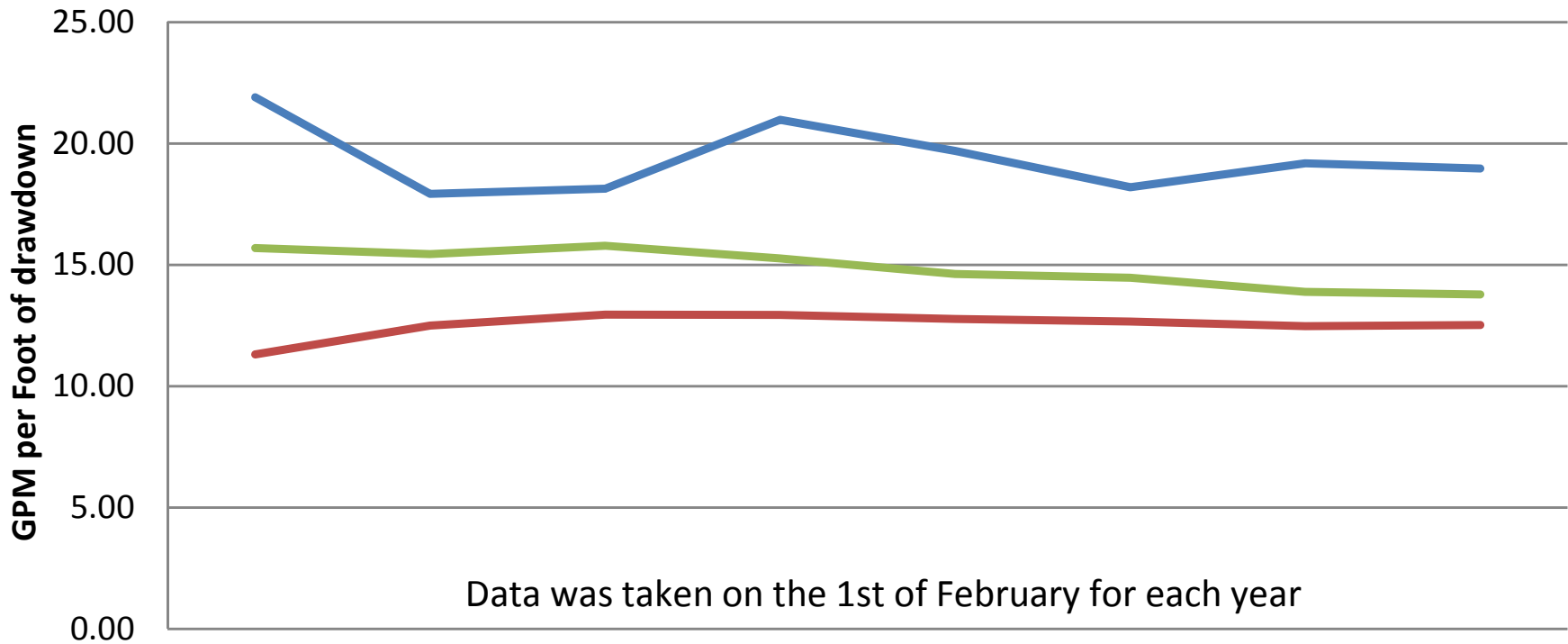
Well 3 - the pump was replaced in 2014 after 17,903 hours in service.

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.

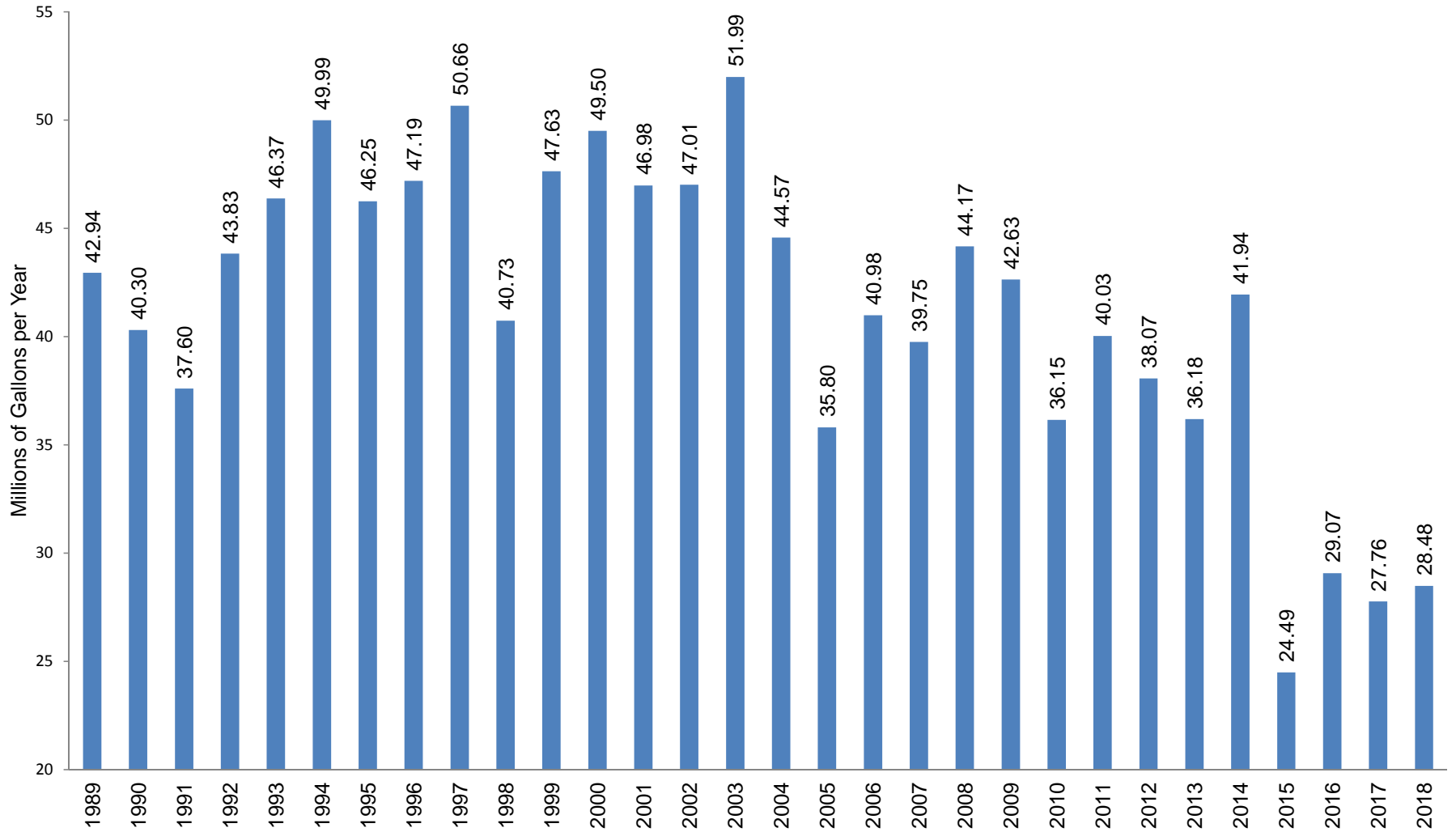
East Booster - the pump and motor was replaced in 2015 after 18,822 hours in service.

# SVPSD Production Wells Specific Capacity



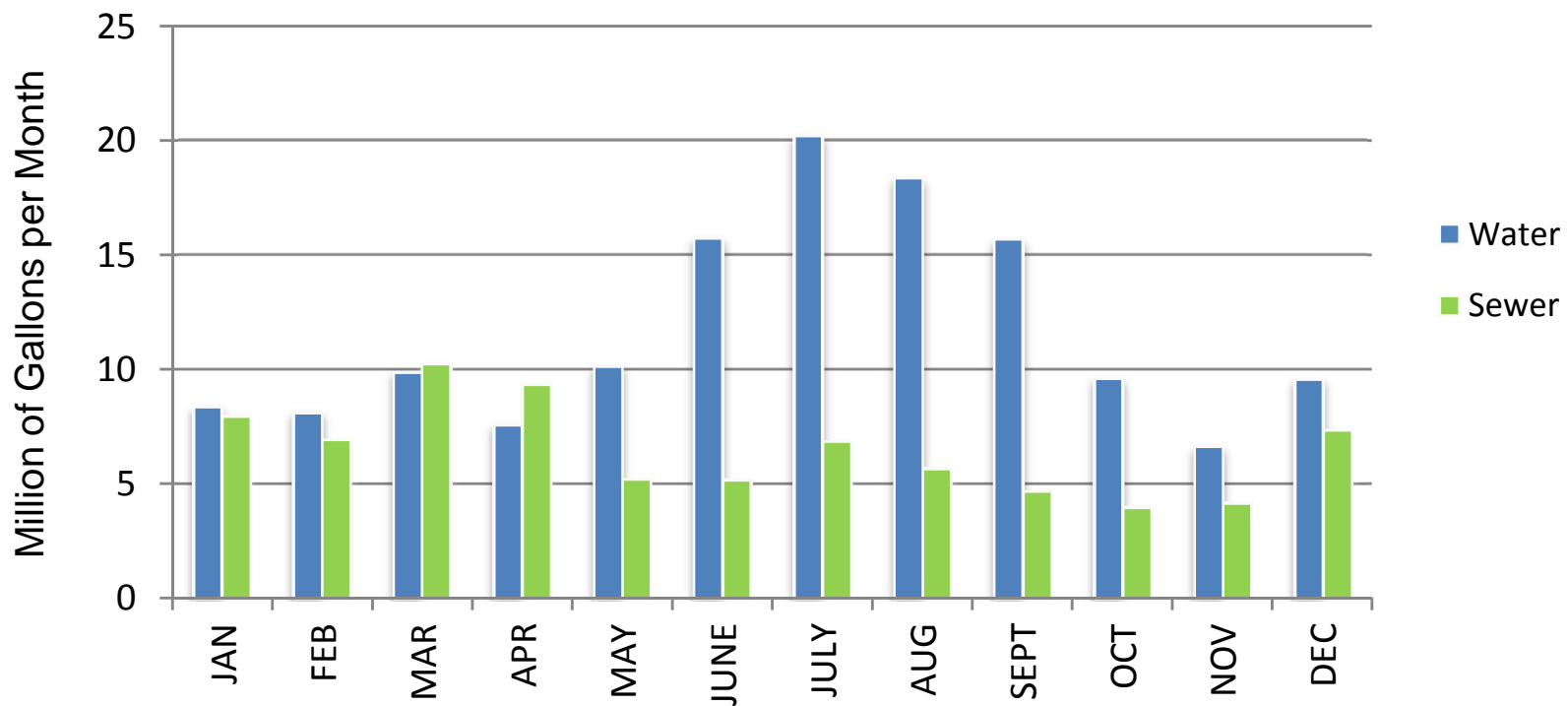
	2012	2013	2014	2015	2016	2017	2018	2019
Well 1R	21.90	17.92	18.14	20.98	19.69	18.19	19.18	18.97
Well 2R	11.32	12.50	12.95	12.93	12.77	12.66	12.48	12.52
Well 5R	15.70	15.44	15.79	15.27	14.63	14.47	13.89	13.78

# SVMWC 30 Year Water Production Trend



Information comes from well logs

## 2018 Water and Sewer Comparison

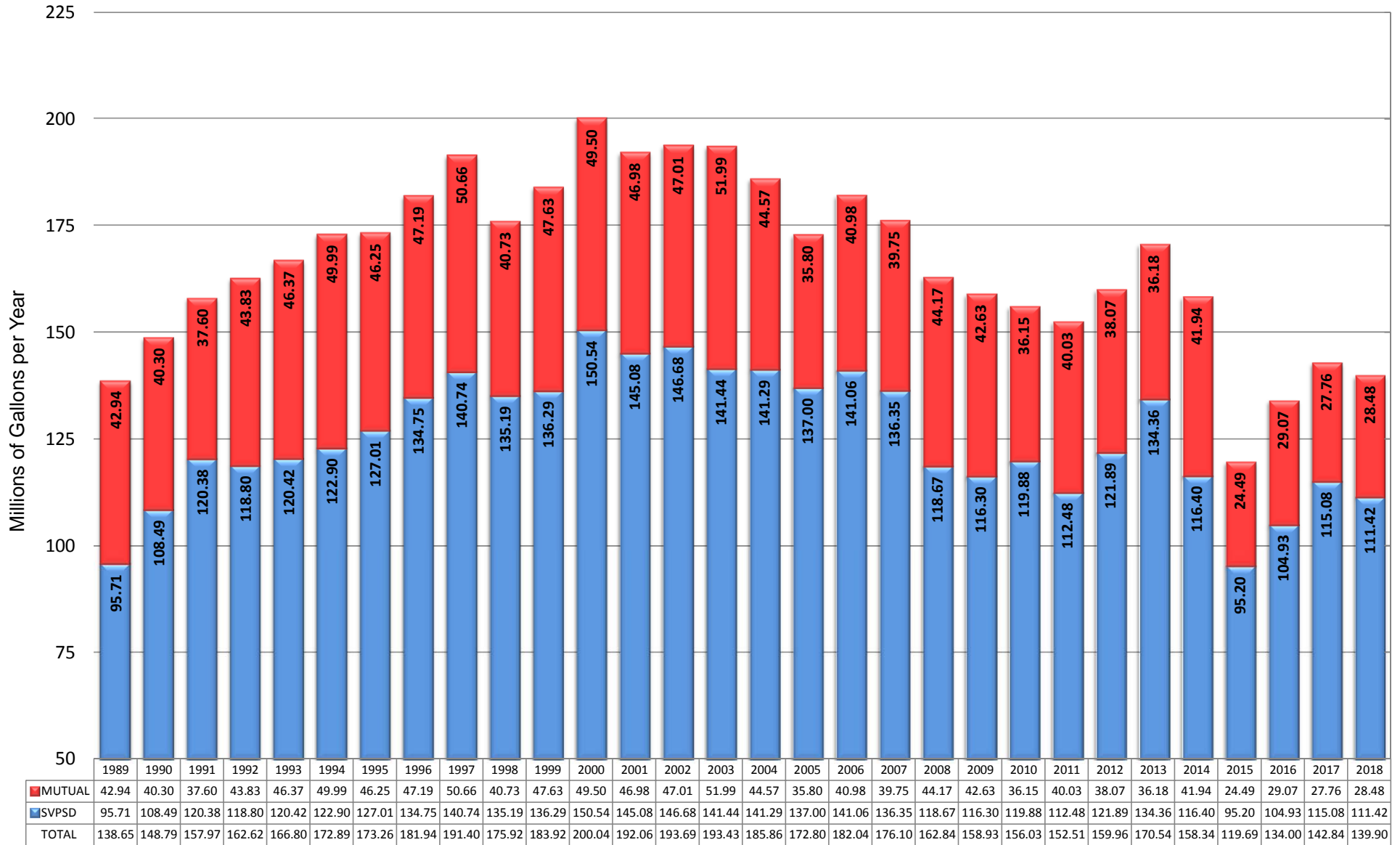


Compares Total Monthly Water Production to Total Sewer Collection

Water information comes from well logs  
Water total includes SVPSP and SVMWC  
Sewer information comes from SCADA

<b>Water and Sewer Production 2018</b>					
	<b>WATER</b>	<b>WATER</b>	<b>WATER</b>	<b>SEWER</b>	
	<b>SVPSD</b>	<b>SVMWC</b>	<b>TOTAL</b>	<b>TOTAL</b>	
JAN	6.94	1.43	8.37	7.97	
FEB	6.63	1.49	8.12	6.94	
MAR	7.96	1.93	9.89	10.25	
APR	6.20	1.39	7.59	9.34	
MAY	8.33	1.81	10.14	5.21	
JUNE	12.45	3.30	15.75	5.18	
JULY	15.82	4.37	20.19	6.85	
AUG	14.53	3.84	18.37	5.68	
SEPT	12.47	3.20	15.68	4.67	
OCT	7.00	2.61	9.61	3.99	
NOV	5.35	1.29	6.64	4.18	
DEC	7.75	1.82	9.57	7.34	
	111.42	28.48	139.91	77.60	Million Gallons
Water information comes from well logs					
Sewer information comes from SCADA					

# 30 Year SVPD and SVMWC Combined Water Production Trend



Information comes from from well logs

## SEWER SYSTEM INVENTORY – 2018

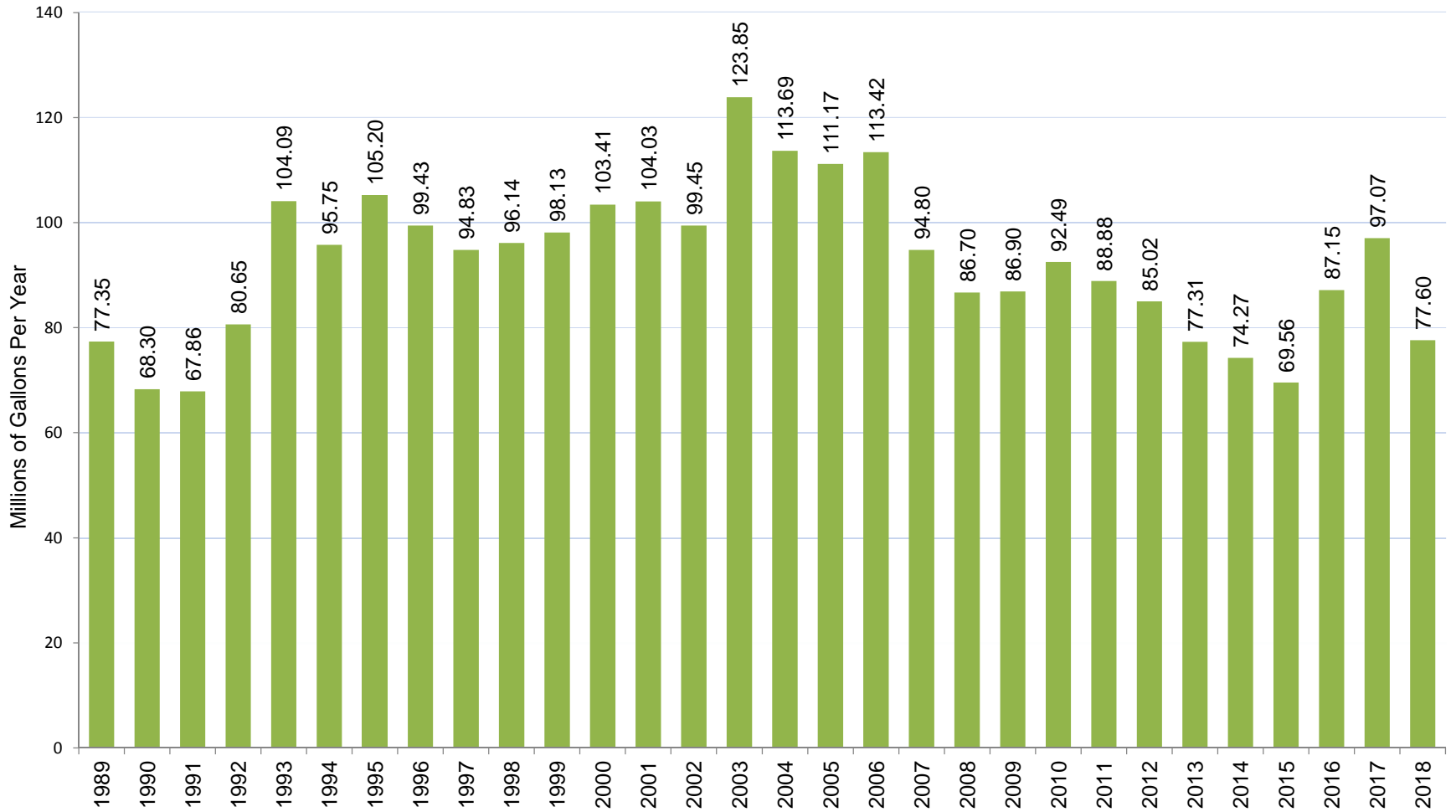
1. 453 Sanitary Manholes
2. 2 Siphons (6"-10")
3. 4 Sewer Flow Meters
  - Mag Meter, Painted Rock Siphon T-45A - District owned
  - Mag Meter, Mountain Run - Ski Corp owned
  - Mag Meter, HWY 89 - T-TSA owned
  - Flume Meter, HWY 89 - T-TSA owned (Not in Service)
4. 172 Feet 16" Sewer Main
5. 11,791 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. 54,115 Feet 6" Sewer Main
10. 6,687 Feet 4" Sewer Main
11. 45,052 Feet 4" Sewer Lateral
12. 971 Sewer Connections per Billing
13. 2 Remote Terminal Units (RTU)

Total Sewer Main = 102,941 Feet = 19.496 Miles

Total Sewer Laterals = 44,152 Feet = 8.532 Miles

Combined Totals = 147,093 Feet = 27.858 Miles

# SVPSD 30 YEAR SEWER FLOW TREND



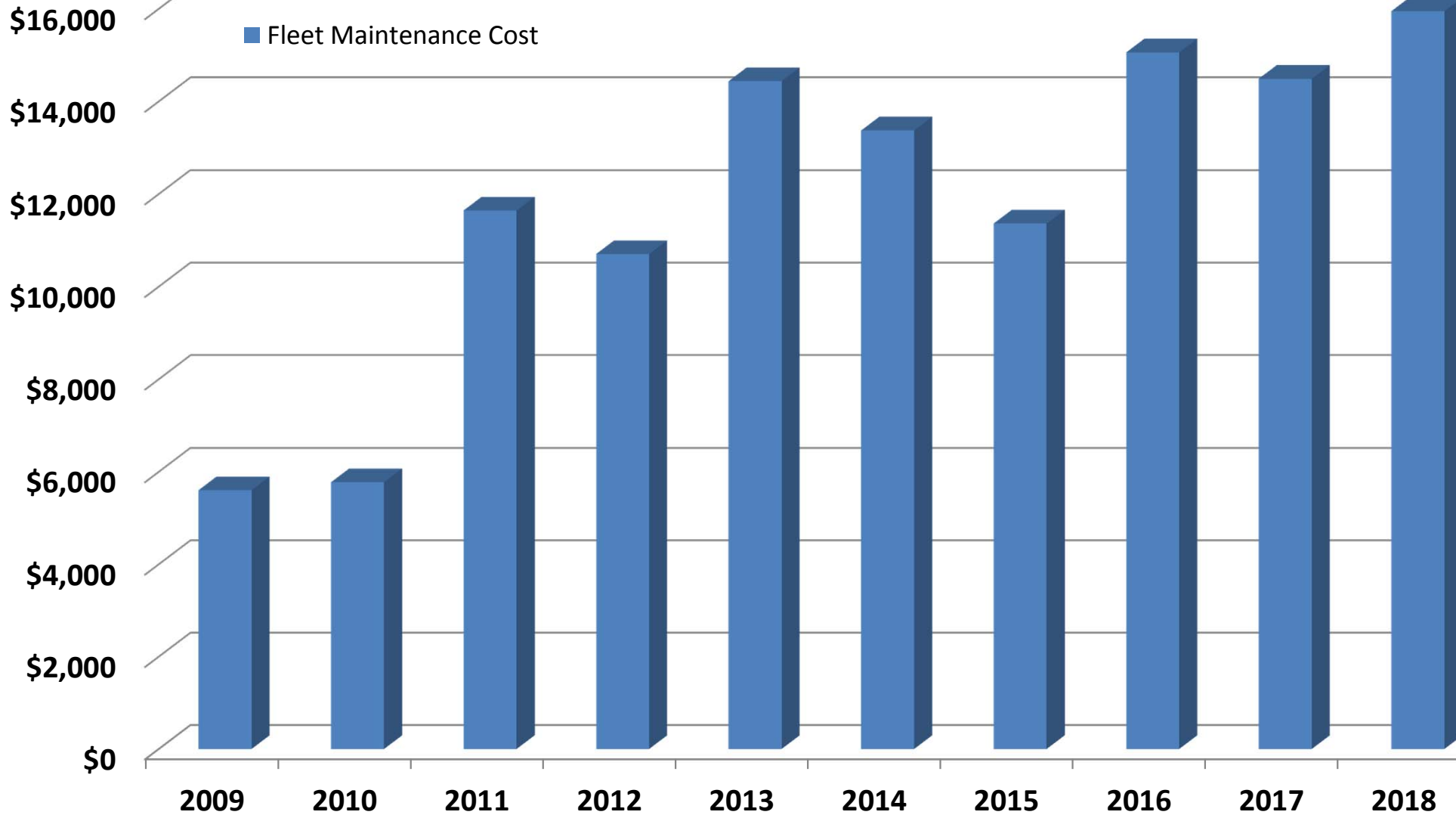
Information from SCADA



## Annual Report on District Fleet

2019									
Vehicle/Equipment	Mileage	Age	Replacement	Service	Annual	Maintenance	2018	Maintenance	2019
	Hours		Schedule	Life	Use	Performed	2019	Due	2020
2008 Ford 1 Ton 4x4 Flat	38,234	11	15	4	2,724	Annual Service	\$49	Annual Service	\$350
								Seat Covers	\$300
1999 Ford Utility 4x4	66,216	20	15	-5	3,829	Annual Service	\$49	Annual Service	\$350
								Seat Covers	\$300
2014 Dodge Ram 4x4	39,341	5	15	10	3,873	Annual Service	\$49	Annual Service	\$300
						New Tires/Fix Horn	\$1,028		
1997 Ford Explorer	125,283	22	15	-7	1,222	Annual Service	\$49	Annual Service	\$300
2014 F-150 4x4	93,637	5	15	10	26,500	2x Annual Service	\$98	2x Annual Service	\$300
						New Tires/100,000mil Service	\$1,691		
2008 F-750 Dump Truck	9,787	11	30	19	1,330	Annual Service	\$49	Annual Service	\$300
1998 JD 444H Loader	3,761	21	30	9	184	Annual Service	\$49	Annual Service	\$350
						Fuel System Repair	\$3,364	New Blade	\$1,000
JD Backhoe	281	1	30	29	251	Annual Service	\$49	Annual Service	\$300
1998 JD Air Compressor	387	21	20	-1	12	Annual Service	\$49	Annual Service	\$300
2007 New Holland Westa Sno Blower	497	12	30	18	30	Annual Service	\$49	Annual Service	\$300
		12	20	8		New Steps/Clutch rebuild	\$1,000	New Blade	\$1,000
						Hydrolic repairs	\$2,000		
2009 Vac-Con Hydro-Vac	8,369	10	30	20	314	Annual Service	\$49	Annual Service	\$400
Power Take Off (PTO)	250	10	30	20	5			Hydrolic Filters	\$500
2009 Duetz Rear Engine	744	10	30	20	59	Annual Service	\$49	Annual Service	\$400
						Parts/Transmission Service	\$1,097		
2016 Ford Interceptor	18,819	3	15	12	7,174	2x Annual Service	\$98	2x Annual Service	\$300
								New tires	\$1,500
6" Trash Pump (2000)	48	19	30	11	3	Annual Service	\$49	Annual Service	\$300
2010 Prowler Easement	215	9	20	11	148	Annual Service	\$49	Annual Service	\$300
Well House Generator (1993)	246.7	26	40	14	6	Annual Service	\$49	Annual Service	\$300
1810 Generator (1991)	802.1	28	40	12	6	Annual Service	\$49	Annual Service	\$300
305 Generator (2004)	173.1	15	40	25	4	Annual Service	\$49	Annual Service	\$300
Equipment/Old Vehicles								Equipment	\$450
Miscellaneous Shop Supplies						Rags,Cleaning supp. Ect.	\$49	Rags, Cleaning Supp. Ect.	\$500
<b>Total</b>	<b>Fleet Ave.</b>	<b>13.55</b>					<b>\$11,209</b>		<b>\$ 11,300</b>

# 10 Year Vehicle Maintenance Costs



# SVPSD Operation Department 10 Year Fuel Usage Trend

