

**SQUAW VALLEY PUBLIC SERVICE DISTRICT
BOARD OF DIRECTORS MEETING MINUTES #826
April 25, 2017**

A. Call to Order, Roll Call and Pledge of Allegiance. Chairman Dale Cox called the meeting to order at 8:30 A.M.

Directors Present: Directors: Dale Cox, Carl Gustafson, Bill Hudson and Eric Poulsen

Directors Absent: Fred Ilfeld

Staff Present: Mike Geary, General Manager; Kathryn Obayashi-Bartsch, Secretary to the Board; Pete Bansen, Fire Chief; Allen Riley, Incoming Fire Chief; Danielle Grindle, Finance & Administration Manager; Dave Hunt, District Engineer; Josh Wilson, Operations Specialist III; John O'Neal Operations Technical Specialist/Inspector and Thomas Archer, District Counsel.

Others Present: Stacy Caldwell, Brent Farr, Matt Van Dyne and John Wilcox.

Chairman Cox asked Carl Gustafson to lead the Pledge of Allegiance.

B. Community Informational Items.

B-1 Friends of Squaw Creek – none

B-2 Friends of Squaw Valley – none

B-3 Squaw Valley Design Review Committee (SVDRC) – none

B-4 Squaw Valley Municipal Advisory Council (SVMAC) – none

B-5 Squaw Valley Mutual Water Company (SVMWC) – Mike Geary said Well #2 was not pumping water but was pumping caustic soda. The problem was identified early and appropriate steps were taken. Electrical damage was identified as the cause of the problem and has been repaired.

B-6 Squaw Valley Ski Holdings – none

B-7 Squaw Valley Property Owners Association – none

B-8 Tahoe-Truckee Sanitation Agency – Dale Cox provided an update on the Truckee River Interceptor project which includes an excavation contract award and an update on the Tahoe City/Fanny Bridge roundabout project.

C. Public Comment/Presentation.

Public Comment –

Brent Farr of Farr West Engineering introduced himself and Matt Van Dyne. Mr. Van Dyne has been assigned as the primary engineer for the District's work. He thanked the Board for the opportunity to work on the District's projects.

Mike Geary said the District submitted a sample for the "Best Tasting Water in California" contest at the annual California Rural Water Association Exposition. The results should be known later today.

C-1 Recognition of Service – 15 years – John O'Neal, Operations Specialist/Inspector
The Board recognized John O'Neal's excellent service to the District.

C-2 Recognition of Service – 5 years – Kathryn Obayashi-Bartsch, Secretary to the Board
The Board recognized Kathryn Obayashi-Bartsch’s outstanding service to the District.

D. Financial Consent Agenda Items.

Directors Poulsen and Cox met with staff on April 24th from approximately 3:00 – 5:00 P.M. to review items D-1 through D-11 as well as other finance related items on this agenda.

Director Poulsen said Chairman Cox attended in Director Ilfeld’s absence. Director Ilfeld is attending the California Special Districts Association’s Leadership Academy.

The committee reviewed all finance related items on the agenda including the budget. All items appear to be in order with wages and benefits running slightly over budget due to the exceptional winter weather. Staff submitted a request along with Placer County to the Federal Emergency Management Agency (FEMA) for reimbursement of some of the expenses.

Public Comment – none

A motion to approve the financial consent agenda was made by Directors Hudson/Gustafson as submitted; vote was unanimous with the exception of Director Ilfeld.

Cox-yes

Gustafson- yes

Hudson-yes

Ilfeld- absent

Poulsen-yes

E. Approve Minutes.

E-1 Minutes for the Board of Directors meeting of March 28, 2017.

Director Poulsen asked that on page 4, revisions be made under “Medium Priority” and “Lower Priority” recommendations to better reflect the Powerpoint presentation made by Derrik Williams.

Public Comment – none

A motion to approve the minutes for the Board of Directors meeting of March 28, 2017 with revisions was made by Directors Hudson/Poulsen; vote was unanimous with the exception of Director Ilfeld.

Cox-yes

Gustafson-yes

Hudson-yes

Ilfeld-absent

Poulsen-yes

F. Old & New Business.

F-1 Affordable Housing Impacts – Mountain Housing Council of Tahoe Truckee.

The Board received the presentation and accepted public comment.

Stacy Caldwell of the Tahoe Truckee Community Foundation provided a presentation about Community Housing (Attachment A).

Ms. Caldwell said North Tahoe – Truckee has been focused on identifying regional housing issues and potential solutions. Stakeholders from across the region, representing individuals, businesses, and public agencies, have supported and engaged in this work. Community members and families have shared their stories about the realities of living in the area. Now, provided with a framework and recommendations to move forward, the community is ready to work together to accelerate solutions.

On Saturday, April 29th, community partners come together for the first time as The Mountain Housing Council and will be celebrating the efforts undergone thus far as a community, and will be co-creating a regional housing agenda that will guide local leaders towards making measurable impact. The event is an opportunity to make public the commitments of local stakeholders and to involve our community members in the short and long-term vision of solving housing issues. The event is scheduled for Saturday, April 29th at Truckee High School auditorium from 8:00 - 11:00 am.

Mr. Geary said Director Ilfeld indicated that he will attend the meeting.

Chairman Cox commented on the area's rental shortage. He is aware that some property owners have had very bad experiences with irresponsible renters and are unwilling to rent their properties.

Director Gustafson commented on the lack of senior housing which has resulted in many seniors moving out of the area.

Public Comment –

John Wilcox said some public agencies have joined this group and he suggested having a District representative attend the meetings.

The Board thanked Ms. Caldwell for the presentation and sharing this important information with the District. The Board directed staff to put this item on the next agenda as an action item to possibly identify a representative, an alternate and a monetary contribution.

F-4 Truckee River Siphon Project – Contract Approvals.

This item was taken out of order.

The Board reviewed the items, accepted public comment, approved three contracts in support of the Truckee River Siphon Project and authorized the General Manager to execute the necessary contractual documents.

Mr. Hunt reviewed the item (Attachment B). The Truckee River siphon is the single most critical asset in the District's sewer collection system. The siphon is currently a single pipeline and the final segment of the interceptor that conveys all sewage out of the Valley. Unlike other sewer pipelines in the Valley, maintenance and repair of the Truckee River siphon poses major challenges to the District's operations staff, specifically for sewer bypass operations and access for repair in the event of pipeline failure. Other critical implications include the consequences of failure of the existing pipeline. These consequences present themselves in the form of a sanitary sewer overflow (SSO) into the Truckee River and include impacts to human health and the environment, damage to public and private property, and civil monetary penalties levied by the Regional Water Quality Control Board.

Based on the condition of the siphon pipeline, and the consequences of its failure, staff continues to recommend replacement of the siphon in the summer of 2018. The replacement siphon system will include two parallel pipelines which will provide an increased level of service and provide the necessary redundancy for operation and maintenance (O&M) activities.

Replacement of the siphon is a highly technical project requiring a high level of environmental analysis and permitting, as well as specialized design and construction related considerations.

Based on this, the District has put together a team of consultants to assist in the design and permitting of the project that have extensive experience with this type of project as well as a long track record of successful project completion in this area. The project team includes:

- Andregg Geomatics – Survey and Easements
- Holdrege & Kull – Geotechnical Investigation and Construction Support
- Farr West Engineering – Design and Construction Support
- Stantec – Environmental Permitting and Construction Support

At this time, staff is requesting Board approval of three contracts with Andregg Geomatics, Holdrege & Kull and Farr West Engineering. Staff anticipates bringing the Stantec proposal for contract approval at a future meeting.

F-4a Andregg Geomatics for Boundary and Easement Surveys.

Public Comment – none

Directors Hudson/Poulsen made a motion to approve the Andregg Geomatics proposal and authorize the General Manager to execute the necessary contractual documents; vote was unanimous with the exception of Director Ilfeld.

Cox-yes

Gustafson-yes

Hudson- yes

Ilfeld-absent

Poulsen-yes

F-4c Farr West Engineering for Phase 1 Design.

This item was taken out of order.

Public Comment –

Matt Van Dyne provided a brief summary of their work with similar projects and thanked the Board for their consideration of their project proposal.

Directors Hudson/Poulsen made a motion to approve the Farr West proposal and authorize the General Manager to execute the necessary contractual documents; vote was unanimous with the exception of Director Ilfeld.

Cox-yes

Gustafson-yes

Hudson- yes

Ilfeld-absent

Poulsen-yes

F-4b Holdrege & Kull for Geotechnical Engineering Services.

Director Hudson left the room due to a familial conflict of interest. Director Hudson's brother works for Holdrege & Kull.

Public Comment – none

Directors Poulsen/Cox made a motion to approve the Holdrege & Kull proposal and authorize the General Manager to execute the necessary contractual documents; vote was unanimous with the exception of Directors Hudson and Ilfeld.

Cox-yes

Gustafson-yes

Hudson- abstain

Ilfeld-absent

Poulsen-yes

F-2 Village at Squaw Valley Project Update.

Director Hudson returned to the meeting room.

Director Poulsen left the meeting room due to a conflict of interest from an ownership interest.

Mr. Archer indicated there was no new information to share and there was no discussion of this item.

F-3 Operations & Fleet Annual Report.

Director Poulsen returned to the meeting room.

The Board reviewed the item and accepted public comment.

Mr. Wilson reviewed the item. The 2016 Annual Operations Report includes equipment capital replacement projects for 2018-2022, water and sewer capital projects for 2018-2022, utilities report for 2016, year-end charts and graphs, SCADA telemetry data and fleet information.

The water production total is 104.93 MG which is 9.73 more than in 2015. The sewer collection total is 87.15 MG which is 7.45 MG more than in 2015. Water production increased 11% over the previous year. Sewer collection increased 9% over the previous year.

The aquifer level for 2016 was at the maximum level for the year on December 16th at 6,191.2' and was at the minimum level on October 3rd at 6,180.9'. The precipitation total for the 15/16 water year is 64.09" and the 53 – year average is 51.85". The 15/16 precipitation total is 123.61% compared to the 53 – year average.

Director Poulsen commented on historical water production trends and future implications.

Chairman Cox commented on water production trends and the cost of service. He asked if water production is down, would the cost of service also be reduced. Mr. Geary said water production and cost of service is not necessarily a linear relationship. There are some costs that are not impacted by the amount of water pumped.

Public Comment – none

The Board commended the entire Operations Department staff for their outstanding work and service to the community.

F-5 Records Destruction Request # 15 – Fire Department.

The Board reviewed the item, accepted public comment and authorized destruction of records by adoption of Resolution 2017-02.

Chief Bansen reviewed the item which includes Fire Department records that are no longer necessary to retain including the following items:

- Patient Care Reports
- Continuing Education Classes
- Narcotic Inventory & Administration Logs
- Daily Emergency Medical Services Equipment Logs

Public Comment – none

Directors Hudson/Poulsen made a motion to authorize the destruction of records by adoption of Resolution 2017-02; motion carried with a vote of three yes and one no. Director Ilfeld was absent.

Cox-yes

Gustafson-no

Hudson- yes

Ilfeld-absent

Poulsen-yes

G-3 Engineering Report.

This item was taken out of order.

Mr. Hunt reviewed the report. There was discussion about a new proposed development “The Shirley” which is also known as the Carville property near the District’s west end water tank.

Public Comment – none

F-6 McClintock Accountancy Contract – Audit Services.

The Board reviewed the item, accepted public comment, approved the proposal from McClintock Accountancy for audit services and authorized the General Manager to execute all necessary contractual documents.

Ms. Grindle said McClintock Accountancy provided an engagement letter to audit the District’s compiled financial statements for FY2017-2019. The proposed agreement for three years is as follows:

- June 30, 2017 audit and all reports, \$16,900/ GASB 68 \$2,600
- June 30, 2018 audit and all reports, \$17,400/GASB 68 \$2,700
- June 30, 2019 audit and all reports, \$17,900/GASB 68 \$2,800

These fees are based on the actual time spent, plus out-of-pocket costs. If significant additional time is necessary, this will be discussed and a new fee estimate will be determined before additional costs are incurred.

Public Comment – none

Directors Hudson/Poulsen made a motion to approve the proposal from McClintock Accountancy for audit services and authorize the General Manager to execute all necessary contractual documents; vote was unanimous with the exception of Director Ilfeld.

Cox-yes

Gustafson-yes

Hudson- yes

Ilfeld-absent

Poulsen-yes

F-7 Federal Emergency Management Agency (FEMA) – Designate District Contacts.

The Board reviewed the item, accepted public comment and designated District contacts for all FEMA related activities by adoption of Resolution 2017-03.

Chief Bansen reviewed the item. It is necessary to designate positions within the District that may act as a contact for all FEMA related activities. The designation form must be updated every three years.

Public Comment – none

Directors Hudson/Cox made a motion to adopt Resolution 2017-03 which designates District contacts for all FEMA related activities; vote was unanimous with the exception of Director Ilfeld.

Cox-yes

Gustafson-yes

Hudson- yes

Ilfeld-absent

Poulsen-yes

F-8 2nd Review of 2017-18 Fiscal Year Budget and Rate Structures.

The Board reviewed the item and accepted public comment.

Ms. Grindle reviewed the item. The proposed budget was prepared with a focus on establishing adequate reserves of the District's Fixed Asset Replacement Funds (FARF's) while supporting the required resources to provide consistent and quality utility and fire services to the community.

For 2017-18, staff is proposing contributions to the Water FARF in the amount of \$380,000; to the Sewer FARF in the amount of \$475,000. As a comparison, the 2016-17 FARF contributions are projected to be \$520,000 and \$337,000, respectively. Staff anticipates growing the Water FARF to \$708,000 in the coming budget year, which is about 47% of what it was at its peak in 2009.

Operations: Alternative sources of revenue from reimbursable activities and development projects are estimated conservatively at \$80,000. Reimbursable expenses are typically for staff time and administrative expenses associated with services and projects including the Mutual Water Company Operations & Maintenance services contract, the Bike Trail Snow Removal Program and proposed development projects

Payroll and benefits are increasing about 20% and 14% respectively from fiscal year 2016-17. These increases are primarily due to an increase in salaries resulting from performing an overdue Operations Department salary survey. The budget also includes funds for a new Operations Specialist and a Part-Time Engineering Intern staff position.

Staff in the Administration Department are scheduled to receive a cost of living adjustment (COLA) equal to the Consumer Price Index (CPI).

Staff in both the Operations and Administration Departments will receive a one-time 6.5% increase to offset an increase in employee contributions to their pension expenses. This increase is equal to the reduction in the District's cost to provide pension benefits to the same employees.

CalPERS Unfunded Pension Liability payment increased by \$19,000 to \$118,000. CalPERS is undergoing a "smoothing" process as they consolidate their pooled plans to further reduce

risks and assure adequate growth in the pension plans. Lastly, Workers Compensation rates are increasing by approximately 5%.

Rates: The proposed 2017-18 rate increases provide funding to achieve revenue requirements of 5% for water, 7% for sewer, and 3% for garbage. The increases in revenue were allocated to each customer class based on their use of the systems. As such, some customer classes will see a greater increase in rates than others.

Staff hired a third-party consulting firm to perform the Cost of Service Analysis and Rate Study that considered a 100-year Capital Replacement Plan to determine proper funding levels to perform capital replacement projects without relying on debt financing. The analyses revealed that the Water and Sewer FARFs require annual contributions in the amount of around \$600,000 to remain fully-funded.

Fire Department

Capital: The Fire Department is planning on \$450,000 in Capital projects for FY 2017-18. The Type 3 Engine is a new addition to the department's fleet and will deplete the entire balance in the Fire Capital account as well as some funds from the Fire FARF. We anticipate the Capital account to have a zero balance at year-end and the Fire FARF to be at \$246,000.

Operations: Fire operating expenses are expected to decrease by \$91,000, or 3%, because strike teams are not included in the budget. In FY 2016-17, the Fire Department experienced a higher than average year for strike teams. Strike teams are reimbursable expenses.

Fire Department payroll increased in benefits by \$64,000, mostly attributed to compensating and providing benefits to two Fire Chiefs for 6-months of the fiscal year, annual salary survey adjustments as well as an increase in the unfunded accrued liability with CalPERS of \$24,000, for a total of \$117,000.

Other material changes in fire operating expenses include field expenses, which are increasing by \$45,000. We anticipate a \$6,000 increase in equipment repairs & maintenance, an \$8,000 increase in facilities repairs & maintenance, a \$15,000 increase in training for new staff members, and a \$13,000 increase in vehicle operations & maintenance.

Other Items

Ad Valorem property tax revenue is estimated to increase 0.67% from last year, which is considered to be conservative.

Ms. Grindle said she received two comments from condominium owners in support of the proposed rate structure as they will no longer be in the single family residential classification.

Public Comment – none

F-9 Property Lease of District Facility to Squaw Valley Institute – 1810 Squaw Valley Road.

The Board reviewed the item, accepted public comment, approved lease of space at 1810 Squaw Valley Road to the Squaw Valley Institute and authorized the General Manager to execute the agreement.

Chief Bansen reviewed the item. Staff is requesting retroactive approval of a lease to the Squaw Valley Institute. This lease is for a portion of the former Squaw Valley Public Service District Board Room (northern upstairs room) consisting of approximately 446 square feet±, located at 1810 Squaw Valley Road. Lease of this space allows the Institute to have the entire upstairs floor for their activities.

Staff proposes the following terms for the northern upstairs room:

Duration: April 1, 2017-March 31, 2018

Rent: \$735.00/month

Utilities: \$30/month

The Institute currently rents the southern upstairs room. The terms of the lease for the southern upstairs room consisting of approximately 713 square feet±:

Duration: January 1, 2017-March 31, 2018

Rent: \$400.00/month

Utilities: \$80/month

Public Comment – none

Directors Hudson/Poulsen made a motion to approve the lease of space at 1810 Squaw Valley Road to the Squaw Valley Institute effective April 1, 2017 and authorized the General Manager to execute the agreement; vote was unanimous with the exception of Director Ilfeld.

Cox-yes

Gustafson-yes

Hudson- yes

Ilfeld-absent

Poulsen-yes

Status Reports.

G-1 Fire Department Operations/Capital Projects Report.

Chief Bansen introduced Allen Riley as the incoming Fire Chief. With this change, a Fire Captain position will need to be filled which in turn leaves other positions open. The net effect is that there are advancement opportunities for staff and most Fire Department staff are or will be engaged in testing for these positions.

Chief Riley demonstrated how the defibrillator works as this apparatus is available in the meeting room.

Chief Bansen reviewed the report and Fire Operations. He said the surplus Fire Engine may be sold to Sierraville Fire & Rescue Service. They offered \$35,000 for the engine which is slightly below market rate but Sierraville is a potential mutual aid partner.

Chairman Cox thanked Chief Bansen for reaching out to local fire agencies. The Board expressed their support in selling the surplus engine to Sierraville Fire & Rescue Service.

Public Comment –

John Wilcox said he recommends taking the community CPR training.

Tom Archer thanked the District for their support of the Sierraville community. He serves on the Sierra County Fire Protection District Board of Directors.

G-2 Water & Sewer Operations Report.

Mr. Wilson reviewed the report.

Public Comment – none

G-4 Administration Report.

Ms. Obayashi-Bartsch reviewed the report.

Public Comment – none

G-5 Manager's Comments.

Mr. Geary reviewed the report.

Public Comment – none

G-6 Legal Report (verbal).

Mr. Archer had no comments.

Public Comment – none

G-7 Director's Comments.

Director Poulsen said after this severe winter there are many damaged and/or felled trees and shrubs and suggested having a chipper available for the community. Chief Bansen said staff will look into providing this service.

Director Gustafson thanked the staff and board members that visited him at the hospital and those that sent get-well cards.

Chairman Cox thanked Ms. Obayashi-Bartsch for her assistance and support.

Directors Poulsen/Hudson made a motion to adjourn the open session and reconvene in closed session; vote was unanimous, with the exception of Director Ilfeld.

Cox-yes

Gustafson-yes

Hudson-yes

Ilfeld-absent

Poulsen-yes

H. Closed Session – District Labor Negotiations, Public Employment of Fire Chief and Performance Evaluation of General Manager.

The Board met in Closed Session pursuant to Government Code 54957 et al regarding District labor negotiations and public employment of Fire Chief and the performance evaluation of the General Manager.

H-1 Conference with District Labor Negotiator: Michael Geary
Employee Organization: IUOE Stationary Engineers Local 39 for Operations Department field personnel to discuss salaries, salary schedules, or compensation paid in the form of fringe benefits.

H-2 Public employment of Fire Chief.

H-3 Performance Evaluation of General Manager.

Directors Poulsen/Hudson made a motion to adjourn the closed session and reconvene in open session; vote was unanimous with the exception of Director Ilfeld.

Cox-yes

Gustafson-yes

Hudson-yes

Ilfeld-absent

Poulsen-yes

I. Possible Action Resulting from Closed Session.

Mr. Archer said no actions or decisions were made in closed session and only items on the closed session agenda were discussed.

J. Adjourn.

Directors Gustafson/Poulsen made a motion to adjourn at 12:40 P.M.; vote was unanimous with the exception of Director Ilfeld.

Cox-yes

Gustafson-yes

Hudson-yes

Ilfeld-absent

Poulsen-yes

By, K. Obayashi-Bartsch

Olympic Valley Groundwater Management Plan Implementation Group

March 28, 2017

Water Year 2011-2015 Quinquennial Review and Report



Background of Annual Reporting

- Olympic Valley Groundwater Management Plan (GMP) requires regular reporting by the Implementation Group's consulting hydrologist.
- HydroMetrics WRI prepared ARR documents for Water Years 2007, 2008, and a Biennial Review and Report (BRR) for Water Years 2009 and 2010.



Background of Annual Reporting

- Quinquennial Review and Report (QRR) covers Water Years (WY) 2011-2015.
 - Summary of groundwater conditions in the basin.
 - Highlight groundwater management accomplishments.
 - Make recommendations for amendments to the GMP and for future management efforts.
 - Summary and status of Basin Management Objectives (BMOs).



Overview of some new components of the QRR

- More comprehensive record of production from primary groundwater pumpers.
 - Inclusion of Squaw Valley Resort (SVR) production data starting in WY 2011.
 - Complete record of horizontal well production.
- High-resolution groundwater level data available for entire reporting period.
 - Transducer/data loggers record water levels at regular intervals at SVPSD, SVMWC, SVR, RSC, and PlumpJack wells.
- New aquifer recharge mapping.



Summary of Groundwater Conditions

Summary of Groundwater Production

- Annual average production was less than historical averages.
- Demonstrates success of conservation efforts and infrastructure improvements including leak detection, pipeline replacement, and additional metering.

Entity	Average Pumping Water Year 1993-2015 (Million Gal. per year)	Average Pumping Water Year 2011-2015 (Million Gal. per year)
SVPSD	126	110
SVMWC	33	24
RSC ¹	73	69
SVR ²	N/A	22

¹Includes incomplete data for Water Year 2011
²SVR pumping began in 2010



Summary of Groundwater Production

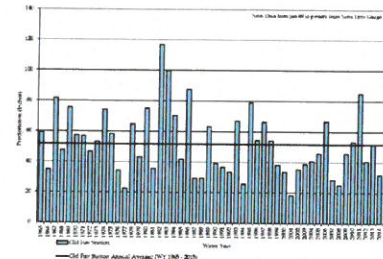
- Downward trend in 15-year SVPD Pumping per WY
- Similar trend in SVMWC pumping

SVPD 15 Year Water Production Trend
(in millions of gallons per year, 1998-2015)



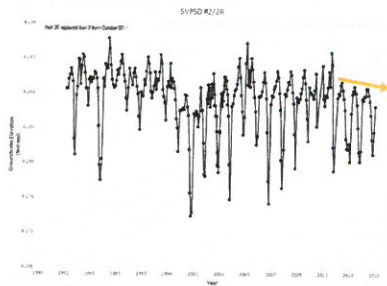
Summary of Precipitation Data

- Below average precipitation during WY 2012-2015.
- Not the lowest observed precipitation



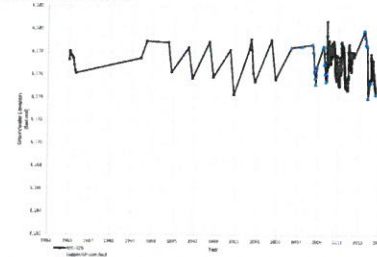
Groundwater Elevation Trends – Western Basin

- Consistent seasonal fluctuations, slight decline in peak GW elevations during recent dry period



Groundwater Elevation Trends – Meadow Area

- No strong trend observed in long-term GW elevation data.



Summary of Groundwater Quality

- Water from all municipal wells met drinking water standards
- CHAMP monitoring
 - No drinking water standards
 - No clear trends
- No contamination sites

Groundwater Management Accomplishments

Significant progress was made on a number of groundwater management activities during WY 2011 through 2015

GW Management Accomplishments and BMO Status

- Overall successful groundwater data collection and sharing effort during WY 2011 through 2015.
 - Coordination of multiple entities and stakeholders.
 - Maintenance of Groundwater Data Logger Network.
 - Database updates and maintenance.
- Creek/Aquifer Interaction Study.
- Replaced Well SVPD#2
- Water Supply Assessment (WSA).
 - Simulations indicate adequate supplies within Basin to meet projected future demand.



GW Management Accomplishments and BMO Status

- Updates to Basin Groundwater Model
- Governor's Water Conservation Requirements.
 - SVPD required to meet 25% reduction vs. 2013, implemented emergency irrigation restriction.
- Squaw Creek Restoration Project
- Proposed PlumpJack Well Impact Evaluation.
- Maximum Supply Analysis.
 - Investigated maximum supply available from current municipal wells.
 - Supported Capacity and Reliability Study.



GW Management Accomplishments and BMO Status

- Aquifer Monitoring Program.
 - SVPD currently investigating grant funding opportunities to finance the remainder of the monitoring effort.
- Water Supply Feasibility study.
 - Olympic Valley aquifer would not provide redundant supply source for SVPD.
- Water Management Action Plan.
 - Update to 1991 plan underway in 2016.
 - Non legally-binding agreement among GW pumpers.



Other Hydrology-Related Items

- Truckee River Operating Agreement
 - Management of Take Tahoe, Truckee River, and Carson River.
 - Implementation began in December 2015.
 - Olympic Valley is a Special Zone of the Truckee River Basin.
 - Wells constructed in the Basin required to be drilled >500 ft. from centerline of Truckee River.
- Well 18-3R Rehabilitation.
 - Improved well efficiency.



GMP Additions



Aquifer Recharge Mapping

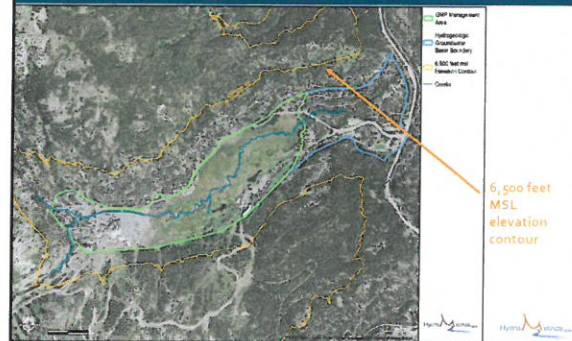
- California Water Code section 10753.7(a)(4)(A) requires that a GMP include a map identifying recharge areas that "substantially contribute to the replenishment of the groundwater basin".
 - Mapping requirement is non-prescriptive as to how the recharge mapping is completed.
- A general mapping methodology was employed for the entirety of Olympic Valley – not intended for site-specific planning documents.



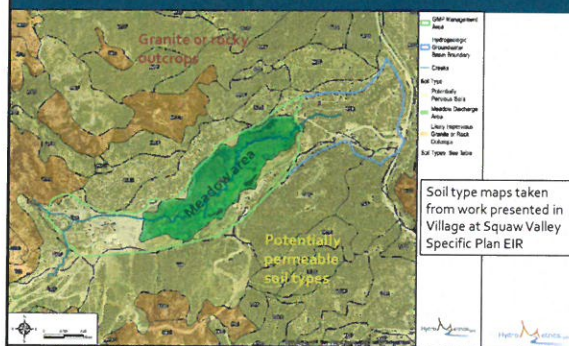
Aquifer Recharge Mapping

- Recharge mapping effort supported by work by Jean Moran (CSUEB) and LLNL.
- Recharge areas in Olympic Valley identified via three criteria:
 - Areas below 6,500 feet MSL elevation.
 - Not underlain by granitic or rock outcrops that are likely less permeable than soil cover.
 - Areas outside of the meadow, which has been identified as a groundwater discharge area.

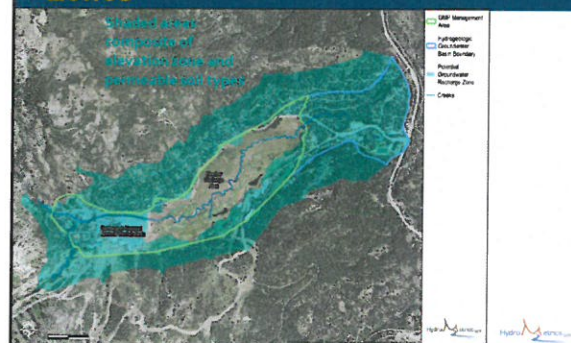
Elevation Zones in Olympic Valley



Soil Type Zones in Olympic Valley



Potential Groundwater Recharge Zones

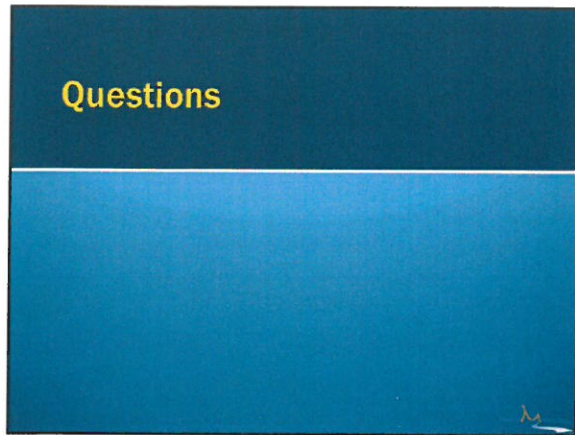



Summary of Conclusions

- Downward trend in pumping reflects successful infrastructure improvement and conservation efforts.
- Groundwater elevations and seasonal patterns generally consistent with previous monitoring periods.
- Water quality remains good.
- Groundwater management continued to advance BMOs.

Summary of Recommendations

- Higher Priority – within next WY
 - Continue the implementation of the aquifer monitoring program.
- Medium Priority – 1-2 years
 - Complete and implement WMAP.
 - Develop and implement pumping management plan.
 - Support creek restoration program.
- Lower Priority – 2+ years
 - Continue encouragement of residential conservation and water audits.
 - Investigate establishment of subsidence monitoring program – avoiding subsidence is a BMO.





Squaw Valley PSD 

Water & Sewer Rate and Connection Fee Study

March 27, 2017


Presented by:
Shawn Koorn
Associate Vice President
HDR Engineering, Inc.





Purpose of the Study

- Provide sufficient revenue to operate and maintain the water and sewer utilities
- Review rate structures based on industry standard approaches
- Develop equitable, cost-based, and legally defensible rates
- Review and develop equitable and cost-based connection fees



Overview of the Rate Setting Process

Revenue Requirement


Cost of Service

Rate Design


Compares the revenues of the utility to its expenses to determine the overall level of rate adjustment

Equitably allocates the revenue requirements between the various customer classes of service

Design rates for each class of service to meet the revenue needs of the utility, along with any other rate design goals and objectives




Water Rate Study




Water Revenue Requirement – Key Assumptions

- Starting point was the adopted FY 2017 Budget
- Developed a 5-year financial plan
 - Rate revenues were calculated based on current rates, customer counts, consumption levels, and growth estimates
 - O&M was escalated annually by inflationary factors for each line item
- Capital funding plan was developed based on current capital improvement and replacement plan
 - Adequately fund renewal and replacement of the existing system



Water Revenue Requirement – Results (\$000s)

	Budgeted FY 2017	FY 2018	FY 2019	Projected FY 2020	FY 2021	FY 2022
Revenues						
Rate Revenues	\$1,650	\$1,658	\$1,666	\$1,675	\$1,687	\$1,700
Non-Operating Revenues	208	208	211	216	218	212
Total Revenues	\$1,854	\$1,866	\$1,877	\$1,891	\$1,905	\$1,912
Expenses						
Total Water Department Expenses	\$647	\$720	\$749	\$779	\$811	\$843
Total Administration Expenses	409	504	518	533	548	564
Net Annual Debt Service	128	80	80	80	80	80
Rate Funded Capital (ICRF)	350	400	450	500	550	600
Transfer To / (From) Reserves	321	228	216	205	203	201
Total Expenses	\$1,854	\$1,932	\$2,013	\$2,098	\$2,192	\$2,287
Bal/(Def.) of Funds	\$0	(\$66)	(\$136)	(\$209)	(\$287)	(\$368)
Rate Adj. as a % of Rate Rev.	0.0%	4.0%	8.2%	12.5%	17.0%	21.7%
Proposed Rate Adjustment	0.0%	4.0%	8.0%	4.0%	4.0%	4.0%
Add'l Revenue from Adj.	\$0	\$66	\$136	\$209	\$287	\$368
Total Bal/(Def.) of Funds	(\$0)	\$0	\$0	\$0	\$0	\$0



Summary of the Water Revenue Requirement

- Rate adjustments are required in order to adequately fund the water utility (FY 2018 – FY 2022)
 - Sufficiently fund O&M expenses
 - Provide adequate funds for the capital replacement and improvement projects
 - Maintain prudent ending reserve fund levels
- Assumes a "pay as you go" approach to funding capital replacement projects
 - No long-term debt issues over the time period reviewed



7

Water Cost of Service – Key Assumptions

- Equitably allocate the revenue requirement (costs) for FY 2018
- Classify costs into the appropriate component (commodity, capacity, customer, etc.)
- Proportionally allocate costs to the District's customer classes of service and tiers
 - Requirement of Prop 218



8

Water Cost of Service – Average Unit Costs

	Residential (SFR)				Multi-Family	Commercial	Commercial Irrigation
	Tier 1	Tier 2	Tier 3	Tier 4			
Fixed (\$/Acct./L.U.)	\$939	\$939	\$939	\$939	\$453	\$935	\$935
Variable (\$/1,000 gal)	\$4.54	\$9.24	\$14.45	\$31.99	\$7.87	\$6.02	\$10.91

- Unit costs are used to develop the pricing (rates) for each class of service
- Cost differences between the various customer classes of service reflects the proportional allocation
- Bill impacts will not be the same for all customers
 - Even within the same customer class



9

Water Rate Design – Key Assumptions

- Maintain current rate structure
 - Exception is multi-family customers
- Fixed meter charge
 - Single Family Residential based on account (1" Eqv.)
 - Plus accessory dwelling unit if applicable
 - Multi-Family Residential based on living units
 - Commercial & Irrigation based on meter size
- Volumetric component on a per 1,000 gallon basis
 - Single Family Residential: 4-tiered rate
 - Basis of the tier pricing is the cost of service unit costs
 - Multi-Family Residential: Move from 4-tiered rate to a uniform rate
 - Commercial & Irrigation: Uniform rate



10

Proposed Water Rates – Fixed Charges

	Present Rates	FY 2018 4.0%	FY 2019 4.0%	FY 2020 4.0%	FY 2021 4.0%	FY 2022 4.0%
Fixed Charge \$/Acct or LU/Year						
Residential (SFR)	\$836.00	\$934.50	\$971.90	\$1,010.80	\$1,051.25	\$1,093.30
Condo/Apt./Duplex/Second Unit (MFR)	\$418.00	\$453.00	\$471.15	\$490.00	\$509.60	\$530.00
Commercial / Commercial Irrigation						
5/8"	\$285.00	\$767.53	\$798.25	\$830.20	\$863.42	\$897.96
3/4"	\$11.00	\$37.55	\$71.07	\$95.93	\$942.19	\$979.87
1"	\$47.00	\$94.50	\$97.90	\$100.80	\$1,051.25	\$1,093.30
1 1/2"	\$97.00	\$1,877.08	\$1,952.20	\$2,030.34	\$2,111.59	\$2,196.05
2"	\$112.00	\$2,994.71	\$3,114.56	\$3,239.22	\$3,368.85	\$3,503.60
3"	\$2,088.00	\$5,623.16	\$5,848.21	\$6,082.28	\$6,325.68	\$6,578.70
4"	\$3,483.00	\$9,380.01	\$9,755.41	\$10,145.87	\$10,551.88	\$10,973.96
6"	\$6,967.00	\$18,762.71	\$19,513.62	\$20,294.65	\$21,106.80	\$21,951.07



11

Proposed Water Rates – Consumption Charges

	Present Rates	FY 2018 4.0%	FY 2019 4.0%	FY 2020 4.0%	FY 2021 4.0%	FY 2022 4.0%
Consumption Charge \$ / 1,000 gal						
Residential (SFR)						
0 - 120	\$3.04	\$4.54	\$4.72	\$4.91	\$5.11	\$5.31
120 - 220	10.38	9.24	9.61	9.99	10.40	10.81
220 - 280	15.13	14.45	15.02	15.63	16.26	16.90
280 +	31.74	31.99	33.26	34.60	36.01	37.42
Condo/Apt./Duplex/Second Unit (MFR)						
0 - 120	\$3.04	N/A	N/A	N/A	N/A	N/A
120 - 220	10.38	N/A	N/A	N/A	N/A	N/A
220 - 280	15.13	N/A	N/A	N/A	N/A	N/A
280 +	31.74	N/A	N/A	N/A	N/A	N/A
All Usage	N/A	\$7.87	\$8.18	\$8.51	\$8.85	\$9.20
Commercial	\$11.08	\$6.02	\$6.26	\$6.51	\$6.77	\$7.04
Commercial Irrigation	\$12.41	\$10.91	\$11.35	\$11.80	\$12.27	\$12.76



12

Summary of the Water Rate Study

- Revenue requirement shows a need for rate adjustments from FY 2018 – FY 2022
 - 4.0% per year to adequately fund operating and capital needs
- Cost of service provides the pricing for the fixed and consumption charges
 - Provides year 1 (FY 2018) rates, future years are adjusted by overall rate adjustment
- Maintained the rate structure for residential, commercial, and irrigation
 - Proposed multi-family rate is a uniform rate structure
- Bill impacts will vary from overall revenue adjustment for the utility (e.g., 4.0%)



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Sewer Rate Study



Sewer Revenue Requirement – Key Assumptions

- The starting point was the adopted FY 2017 Budget
- Developed a 5-year financial plan
 - Rate revenues were calculated based on current rates and customer counts plus growth estimates
 - O&M was escalated by inflationary factors for each line item
- Developed capital funding plan
 - Based on the District's current CIP & CRP
 - Adequately funds renewal and replacement of the existing system



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Sewer Revenue Requirement – Results (\$000s)

	Budgeted	Projected				
	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Revenues						
Rate Revenues	\$1,097	\$1,103	\$1,108	\$1,114	\$1,122	\$1,131
Non-Operating Revenues	66	221	220	222	225	222
Total Revenues	\$1,141	\$1,324	\$1,328	\$1,336	\$1,347	\$1,353
Expenses						
Total Sewer Department Expenses	5359	\$401	\$416	\$432	\$448	\$465
Total Administration Expenses	320	412	424	436	449	461
Net Annual Debt Service	131	83	83	59	58	58
Rate Funded Capital (CRP)	325	400	450	500	550	600
Transfer To / (From) Reserves	2	83	80	85	86	85
Total Expenses	\$1,141	\$1,379	\$1,442	\$1,512	\$1,589	\$1,670
Bal/(Def) of Funds	\$0	(\$55)	(\$114)	(\$174)	(\$242)	(\$312)
Rate Adj. as a % of Rate Rev.	0.0%	5.0%	10.3%	15.8%	21.6%	27.6%
Proposed Rate Adjustment	0.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Add'l Revenue from Adj.	\$0	\$55	\$114	\$174	\$242	\$312
Total Bal/(Def) of Funds	\$0	\$0	\$0	\$0	\$0	(\$0)



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Summary of the Sewer Revenue Requirement

- Rate adjustments are required in order to adequately fund the water utility (FY 2018 – FY 2022)
 - Provide adequate funds for the capital replacement and improvement projects
 - Sufficiently fund O&M expenses
 - Maintain prudent ending reserve fund levels
- Assumes a "pay as you go" approach to funding capital replacement projects
 - No long-term debt issues over the time period reviewed



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Sewer Cost of Service – Key Assumptions

- Equitably allocate the revenue requirement for FY 2018
- Classify costs into the appropriate component (volume, customer)
- Proportionally allocate costs to the District's customer classes of service
 - Requirement of Prop 218



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Sewer Cost of Service – Average Unit Costs

	Residential (SFR)	Multi-Family	Commercial
Fixed (\$/Acct./L.U.)	\$616	\$485	N/A
Variable (\$/1,000 gal)	N/A	N/A	\$14.55

- Cost differences between the various customer classes of service reflects the proportional allocation
- Cost of service provides the basis for the fixed and volume charge (commercial only)
- Bill impacts will not be the same for all customers
 - Even within the same customer class



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Sewer Rate Design – Key Assumptions

- Maintain current rate structure
 - Exception is multi-family customers
- Fixed charge
 - Single Family Residential based on account
 - Plus accessory dwelling (MFR) unit if applicable
 - Multi-Family Residential based on living units
 - Commercial based on account
- Volumetric component on a per 1,000 gallon basis
 - Commercial customers only
 - >75,000 gallons annually



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Proposed Sewer Rates

	Present Rates	FY 2018 5.0%	FY 2019 5.0%	FY 2020 5.0%	FY 2021 5.0%	FY 2022 5.0%
Fixed Charge						
\$/Year						
Residential (SFR)	\$540.00	\$616.45	\$647.25	\$679.60	\$713.60	\$749.30
Condo/Apt./Duplex/Second Unit (MFR)	\$466.00	\$485.00	\$509.25	\$534.70	\$561.45	\$589.50
Commercial	\$954.00	\$1,091.25	\$1,145.80	\$1,203.10	\$1,263.25	\$1,326.40
Residential - Pool / Spa	\$767.00	\$805.35	\$845.60	\$887.90	\$932.30	\$978.90
Consumption Charge						
\$/1,000 gal						
Commercial						
> 75,000	\$12.74	\$14.55	\$15.30	\$16.05	\$16.85	\$17.70



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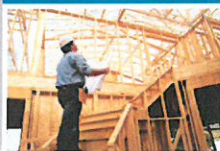
Summary of the Sewer Rate Study

- Revenue requirement shows a need for rate adjustments from FY 2018 – FY 2022
 - 5.0% per year to adequately fund operating and capital needs
- Cost of service provides the pricing for the fixed and volumetric charges
 - Provides year 1 (FY 2018) rates, future years are adjusted by rate transition plan
- Maintained the rate structure for residential and commercial customers
 - Multi-family will depend on current billed method
- Bill impacts will vary from overall revenue adjustment for the utility (e.g., 5.0%)



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Connection Fees



Definition of a Connection Fee

- A connection fee is defined as a:
 - A one-time fee for new customer demand only
 - Fee required of all new customers desiring water or sewer service or existing customers requesting increased water or sewer service capacity.
 - Charge based on the value of the utility's capacity and the amount of capacity needed by the new customer.
 - Capacity can be defined in different ways (e.g., MGD, EDU)



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Connection Fee Methodology

- Buy-In (Existing assets)
 - Asset replacement costs from District's Capital Replacement Plan model
 - Used costs that are connection fee eligible
 - Reduced by outstanding debt principal and contributed capital
- Incremental (Future assets)
 - Used current capital improvement plan
 - Included on connection fee eligible projects
 - Excludes developer agreement projects
- Revising the assessment of the fee



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Water Connection Fee by Meter Size

Meter Size	Ratio	Cost
1" Meter	1.00	\$10,414
1.5" Meter	2.00	20,828
2" Meter	3.20	33,325
3" Meter	6.00	62,484
4" Meter	10.00	104,140
6" Meter	20.00	208,280

*Connection Fee for meters > 2" may be calculated by the District on a case by case basis



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Sewer Connection Fee by Meter Size

Meter Size	Ratio	Cost
1" Meter	1.00	\$5,627
1.5" Meter	2.00	11,254
2" Meter	3.20	18,006
3" Meter	6.00	33,762
4" Meter	10.00	56,270
6" Meter	20.00	112,540

*Connection Fee for meters > 2" may be calculated by the District on a case by case basis



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Summary of the Connection Fee Study

- Basis of the connection fee is the existing system and future improvements necessary to meet new growth on the systems
 - Excludes projects not funded by the District
- Maintains equity between existing and future customers
- Study provides the basis for the maximum allowable connection fee
 - Board policy decision on the final level
- Fee can be adjusted annually
 - Engineering News Record Construction Cost Index (ENR CCI)



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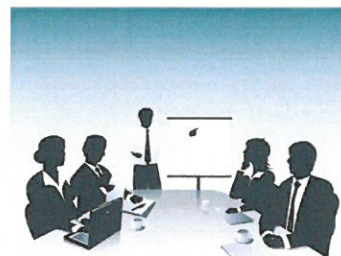
Next Steps...

- Acceptance of the rate and connection fee studies
- Begin the Proposition 218 process
 - Set public hearing dates
 - Mail customer notice
- Hold public hearings
- If no majority protest, the Board may adopt the proposed rates for a five-year period



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Questions and Discussion



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Squaw Valley Public Service District

Water and Sewer Capital Improvement and Capital Replacement Plans

Board of Directors Meeting
March 27, 2017



Purpose

- Capital Replacement Plan (CRP) and Capital Improvement Plan (CIP) inform the Rate Study and Cost of Service Analysis by identifying costs of capital projects to be funded by fees collected by the District
- CRP - Fixed asset replacement plan aimed at developing funding mechanism to replace infrastructure as assets reach the end of their useful life
- CIP - Identifies projects that increase the size or capacity of the water and sewer systems



Why Fund the Asset Replacement Program?

- Develop funding to replace infrastructure as assets reach the end of their useful life
- Promote rate stability and avoid rate shock
- Avoid debt financing and paying interest
- Promote rate equity by spreading burden of replacement cost between existing customers and future customers.



CRP and CIP Funding Mechanisms

- Projects in Capital Replacement Plans (CRP's)
 - User Fees – for operating expenses; asset replacements.
 - Cannot use Connection Fees to fund CRP projects (Government Code §66000)
- Projects in Capital Improvement Plans (CIP's)
 - Connection Fees – for system expansions; new assets; capacity increases.
 - Developer Funded – for system expansions to support future development projects
 - Fixed Asset Replacement Funds (FARF)



CRP Workflow

- Inventory of Assets
 - Age, Design Life, Original Cost
- Unit Cost Estimates for Maintenance and Replacement
- ViewWorks Budget Forecast for GIS Assets
- Higher Cost Maintenance Activities for Facilities
- Replacement Cost for Facilities and Equipment
- **Develop 100-Year Capital Replacement Plan**



Why a 100-Year CRP?

- The District's CRP focusses on capital infrastructure, facilities and equipment to be renewed, replaced or purchased during the next one hundred years.
- Long life expectancies of the assets required to deliver the services and the high costs associated with their replacement.
- Shorter term planning efforts invariably result in sharp increases in rates, assessments, and/or reactionary debt financing.
- The CRP is a rolling document and will be amended periodically (every five years or less) as projects are completed and new ones are added.

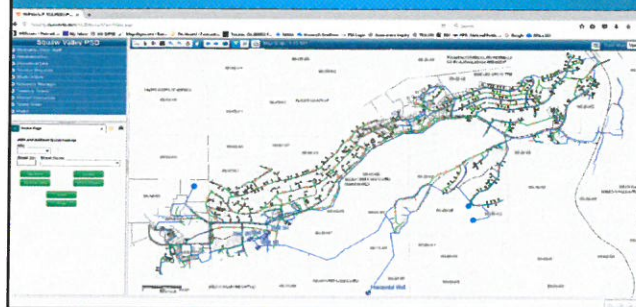


Assets in the CRP

- Water & Sewer Infrastructure (e.g., buried assets)
 - VUEWorks & GIS – Asset Management
 - Sewer pipes, manholes, service laterals, cleanouts
 - Water pipes, valves, meters, service laterals, hydrants, tanks
- Equipment
 - Rolling Stock (Fleet and Equipment)
 - Small Tools and Equipment
- Facilities
 - Wells and Pump Stations
- Shared Facilities
 - 305 and 1810 Squaw Valley Road



Water & Sewer Infrastructure



Unit Replacement Costs

Main - On Road						
Diameter (in.)	Replacement Pipe Type	Main Replacement \$/ft (excl. AC)	Main Replacement AC \$/ft (excl. AC)	Main AC Patch \$/ft	Main AC Patch \$/ft	Total Replacement \$/ft (adjusted for 2% Sub Costs)
4	C900 PVC	\$75.00	\$2	\$9.00	\$10.50	\$115.00
6	C900 PVC	\$83.00	\$4	\$9.00	\$11.00	\$125.50
8	C900 PVC	\$95.00	\$6	\$9.00	\$12.50	\$134.50
10	C900 PVC	\$97.00	\$8	\$9.00	\$12.00	\$137.50
12	C900 PVC	\$106.00	\$9	\$9.00	\$12.50	\$138.50
16	Ductile Iron	\$110.00	\$20	\$9.00	\$16.50	\$155.50
20	Ductile Iron	\$120.00	\$28	\$9.00	\$21.00	\$178.50
24	Ductile Iron	\$140.00	\$35	\$9.00	\$25.50	\$209.50

Main - Off Road						
Diameter (in.)	Replacement Pipe Type	Main Replacement \$/ft (excl. AC)	Main Replacement AC \$/ft (excl. AC)	Main AC Patch \$/ft	Main AC Patch \$/ft	Total Replacement \$/ft (adjusted for 2% Sub Costs)
4	C900 PVC	\$75.00	N/A	N/A	N/A	\$75.00
6	C900 PVC	\$83.00	N/A	N/A	N/A	\$83.00
8	C900 PVC	\$95.00	N/A	N/A	N/A	\$95.00
10	C900 PVC	\$97.00	N/A	N/A	N/A	\$97.00
12	C900 PVC	\$106.00	N/A	N/A	N/A	\$106.00
16	Ductile Iron	\$110.00	N/A	N/A	N/A	\$110.00
20	Ductile Iron	\$120.00	N/A	N/A	N/A	\$120.00
24	Ductile Iron	\$140.00	N/A	N/A	N/A	\$140.00



Equipment

Equipment	Purchase Year	Economic Life (Years)	Purchase Price	Cost 2016 (\$2.5% Inflation)
Ford F-150	1999	10	\$ 30,522.00	\$ 46,351.88
Ford F-150	2007	10	\$ 34,395.00	\$ 42,952.14
Dodge Ram 2500	2004	10	\$ 30,749.00	\$ 32,305.67
Ford F-150 Service Truck	2003	10	\$ 26,953.00	\$ 27,565.89
Ford Explorer PI	2004	10	\$ 27,544.00	\$ 27,544.00
Equipment - Rolling Stock				
JCB Backhoe	1994	25	\$ 43,571.00	\$ 85,340.02
JD Loader	1998	25	\$ 45,663.00	\$ 71,218.70
Ford Dump Truck	2007	30	\$ 67,734.00	\$ 84,615.46
Snoquip Tracked MT Snow Blower	2004	15	\$ 107,822.00	\$ 133,268.98
Vulcan	2000	20	\$ 236,550.30	\$ 304,960.91
Truck 4" Bypass Pump	2000	20	\$ 21,098.00	\$ 31,321.58
Proctor & Kitchen Machine	2000	20	\$ 34,982.37	\$ 59,875.01
New Holland Snow Blower	2007	15	\$ 65,134.00	\$ 78,870.71
Small Tools and Equipment				
Air Compressor	1998	20	\$ 12,658.00	\$ 19,709.17
SCA	1999	15	\$ 4,220.00	\$ 9,484.47
Miller Trailblazer Welder	2009	15	\$ 6,126.00	\$ 7,281.89
Ditch Digger	2009	30	\$ 8,593.00	\$ 10,141.06
Care Sewer Lateral Camera	2008	30	\$ 12,944.00	\$ 15,395.10
Hydraulic Trench Shoring	2002	15	\$ 3,749.00	\$ 6,945.62
Trimble GPS	2003	10	\$ 2,240.00	\$ 3,959.70
Confined Space Harness	2003	15	\$ 4,145.00	\$ 6,206.45



Facilities

Wells 20 Maintenance & Replacement Summary				
Maintenance Activity	Initial Year	Frequency (Years)	Cost (2011)	Cost (2016) w/ Sub Costs (2%)
Exterior - AC Repaving	2011	15	\$11,000.00	\$15,269.76
Interior/Exterior - Painting	2011	15	\$24,300.00	\$32,771.17
Exterior - Storm Drains	2011	20	\$24,000.00	\$31,536.25
Exterior - Replace Roof (Asphalt Shingles)	2011	25	\$17,000.00	\$24,269.79
Interior/Exterior - Replace Doors/Windows	2011	25	\$25,500.00	\$32,237.10
Interior/Exterior - Replace Overhead Door	2011	25	\$8,000.00	\$9,465.16
Mechanical - HVAC	2011	20	\$20,000.00	\$22,670.14
Mechanical - Replace Submersible Pump	2011	20	\$60,000.00	\$66,011.08
Mechanical - Replace Fire Suppression System	2011	20	\$10,000.00	\$11,405.11
Mechanical - Replace Churn Feed Equipment	2011	25	\$45,000.00	\$54,340.84
Interior - Seal Concrete Flooring	2011	20	\$4,500.00	\$5,267.84
Electrical - Replace Light Fixtures and Controls	2011	20	\$8,000.00	\$10,201.83
Electrical - Replace Primary Power	2011	30	\$140,000.00	\$172,044.10
Electrical - Replace Instrumentation and Controls	2011	30	\$50,000.00	\$56,675.82
Electrical - Replace Generator	2011	30	\$100,000.00	\$113,331.71
Buildings	2011	30	\$200,000.00	\$226,709.40
Buildings	2011	200	\$1,300,000.00	\$1,479,572.22
Demolition and Reconstruction Building (including Rebuild wells)	2011	200	\$1,300,000.00	\$1,481,363.17



Shared Assets

NYS 50 Road Maintenance & Replacement Summary				
Maintenance Activity	Initial Year	Frequency (Years)	Cost	
Exterior - AC Repaving	2014	4	\$5,000.00	\$5,000.00
Exterior - AC Repaving	2015	16	\$147,000.00	\$147,000.00
Exterior - Replace Concrete Curb and Gutter, Sidewalk	2015	30	\$128,000.00	\$128,000.00
Exterior - Paint Exterior Wood Surfaces	2015	10	\$18,000.00	\$18,000.00
Exterior - Replace Roof (Low Slope Roofing Systems)	2015	25	\$270,000.00	\$270,000.00
Interior - Replace Appliances (Common Area Kitchens)	2015	15	\$1,000.00	\$1,000.00
Interior - Replace Appliances (JO Kitchens)	2015	15	\$10,000.00	\$10,000.00
Interior - Replace Water Heater	2016	10	\$11,000.00	\$11,000.00
Interior - Replace HVAC Equipment	2015	10	\$24,000.00	\$24,000.00
Interior - Replace Elevator	2015	25	\$50,000.00	\$50,000.00
Interior - Replace Windows	2015	25	\$15,000.00	\$15,000.00
Interior - Replace Windows Coverings	2015	20	\$15,000.00	\$15,000.00
Interior - Kitchen Remodel (Common Area Kitchens)	2015	20	\$15,000.00	\$15,000.00
Interior - Kitchen Remodel (JO Kitchens)	2015	20	\$20,000.00	\$20,000.00
Interior - Replace Fire Suppression System	2015	30	\$112,000.00	\$112,000.00
Interior - Replace Carpet	2015	15	\$80,000.00	\$80,000.00
Interior - Replace Linoleum	2015	15	\$50,000.00	\$50,000.00
Interior - Replace Tile	2015	25	\$45,000.00	\$45,000.00
Interior - Paint Walls	2015	15	\$60,000.00	\$60,000.00
Interior/Exterior - Replace Doors	2015	30	\$155,000.00	\$155,000.00
Interior/Exterior - Replace Rolling Doors	2015	25	\$48,000.00	\$48,000.00
Electrical - Replace Light Fixtures	2015	20	\$75,000.00	\$75,000.00
Electrical - Replace Phone System	2015	15	\$10,000.00	\$10,000.00
Electrical - Replace IT Hardware	2015	8	\$40,000.00	\$40,000.00
Demolition and Reconstruction Building	2015	200	\$10,800,000.00	\$10,800,000.00



Capital Improvement Plan (CIP)

- CIP Projects (District Funded)
 - Water
 - Zone 1A PRV Station
 - East Booster Pump Station Replacement
 - SVSPD/SVMWC Interlie
 - Fire Service Line Detector Check
 - Sewer
 - Truckee River Siphon Replacement
 - Sewer Flow Meter
 - Sewer Cleanout (Point of Service Line Cleanouts)
- Future System Expansion and Capacity Projects (Developer-Funded)
 - Sewer Interceptor Replacement
 - Sewer Flow Meters
 - RSC Phase 2 PRV Station and Well 18-3R
 - VSVSP New Water Sources and Tank

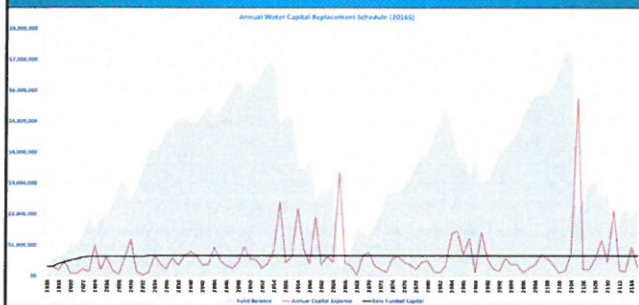


Capital Project Summary FY 18-FY 22

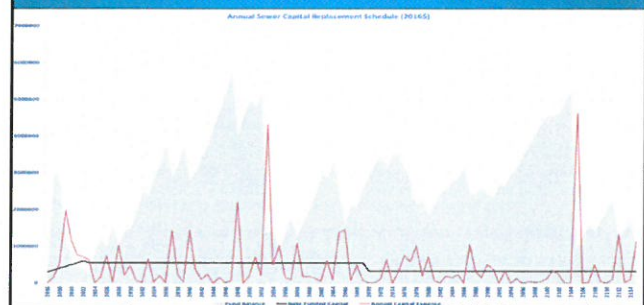
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
WATER FARF	\$ 410,583	\$ 303,933	\$ 270,317	\$ 230,694	\$ 596,838	\$ 1,812,365
WATER CIP	\$ 3,500	\$ 50,000	\$ 236,400	\$ 108,339	\$ 473,729	\$ 871,968
Subtotal Water	\$ 414,083	\$ 353,933	\$ 506,717	\$ 339,033	\$ 1,070,567	\$ 2,684,333
SEWER FARF	\$ 277,938	\$ 870,078	\$ 782,317	\$ 560,433	\$ 404,067	\$ 2,894,833
SEWER CIP	\$ 192,545	\$ 941,855	\$ 221,700	\$ 253,400	\$ 256,300	\$ 1,865,800
Subtotal Sewer	\$ 470,483	\$ 1,811,933	\$ 1,004,017	\$ 813,833	\$ 660,367	\$ 4,760,633
GRAND TOTAL	\$ 884,567	\$ 2,165,867	\$ 1,510,733	\$ 1,152,867	\$ 1,730,933	\$ 7,444,967



Water CRP – 100 Year



Sewer CRP – 100 Year



Water Capital Projects

WATER CAPITAL PROJECTS		Funding Source					
Budget Year 2018-2022		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Project Total
CAPITAL REPLACEMENTS							
East Booster Replacement Project	25% WBF CIP			\$ 55,539	\$ 208,129		\$ 263,668
Proposed Zone 1A Project	25% WBF CIP				\$ 191,450		\$ 191,450
SVSPD/SVMWC Interlie	Water CIP			\$ 185,000			\$ 185,000
Fire Service Line Detector Check Installation Project	Water CIP	\$ 50,000	\$ 51,400	\$ 52,800	\$ 54,200		\$ 208,400
Subtotal Water Capital		\$ -	\$ 50,000	\$ 208,400	\$ 109,339	\$ 473,729	\$ 871,968
MAINTENANCE REPLACEMENTS							
East Booster Replacement Project	35% Water CIP				\$ 112,781	\$ 403,171	\$ 515,952
Victor/Hidden Lake 2" Waterline Replacement Project	35% Water CIP	\$ 15,000	\$ 152,700				\$ 167,700
Zone 3 Booster Pump Station Upgrade Project	Water FARF		\$ 27,800				\$ 27,800
West 1" Line Replacement Project	Water FARF		\$ 211,000				\$ 211,000
Zone 3 Line Replacement Project	Water FARF		\$ 54,300				\$ 54,300
Residential Meter Replacement Project	Water FARF		\$ 85,400	\$ 87,000	\$ 88,800	\$ 70,300	\$ 311,500
Victor/Hidden Lake 2" Waterline Replacement Project	Water FARF	\$ 31,900	\$ 32,800	\$ 33,600	\$ 34,500	\$ 35,500	\$ 168,300
Fire Hazard Replacement Project	Water FARF	\$ 285,000	\$ 295,400	\$ 305,800	\$ 316,200	\$ 326,600	\$ 1,550,000
Subtotal Water FARF		\$ -	\$ 285,000	\$ 295,400	\$ 305,800	\$ 316,200	\$ 1,206,400
GRAND TOTAL		\$ -	\$ 285,000	\$ 295,400	\$ 305,800	\$ 316,200	\$ 1,206,400



Sewer Capital Projects



SEWER CAPITAL PROJECTS		Funding Source					
Budget Year 2018-2022		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Project Total
CAPITAL REPLACEMENTS							
Truckee River Siphon Project	50% Sewer CIP	\$ 144,045	\$ 620,750				\$ 764,795
Sewer Flow Meter Project	Sewer CIP		\$ 21,100	\$ 102,100			\$ 123,200
Sewer Cleanout Installation Project (Point of Service Line Cleanouts)	Sewer CIP		\$ 116,900	\$ 255,400	\$ 256,300		\$ 628,600
Subtotal		\$ 144,045	\$ 848,850	\$ 357,500	\$ 256,300		\$ 1,506,695
MAINTENANCE REPLACEMENTS							
Truckee River Siphon Project	45% Sewer CIP		\$ 753,345				\$ 753,345
Manhole Inspection Project	Sewer FARF	\$ 40,000					\$ 40,000
Manhole Replacement/Rehabilitation Program	Sewer FARF		\$ 218,000	\$ 238,100			\$ 456,100
Sewer System CCTV	Sewer FARF		\$ 88,200	\$ 88,200	\$ 37,700		\$ 214,100
Sewer Cleanout Replacement Project	Sewer FARF		\$ 81,300	\$ 83,500	\$ 81,300		\$ 246,100
Backflow Prevention Sewer Replacement Projects	Sewer FARF		\$ 243,800	\$ 257,200			\$ 501,000
Subtotal Sewer FARF		\$ -	\$ 1,084,445	\$ 467,000	\$ 257,000		\$ 1,808,445
GRAND TOTAL		\$ -	\$ 1,084,445	\$ 824,500	\$ 513,300		\$ 2,422,245



Equipment CRP

EQUIPMENT CRP - CP 2018 - 2022



Account Name	Funding Source	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Project Total
Plant							
Pump F-250	Water/Sewer FARE			\$ 49,900			\$ 49,900
Pump F-320	Water/Sewer FARE				\$ 49,900		\$ 49,900
Equipment							
Sewer Bypass Trailer and Hose	Sewer CIP	\$ 45,000					\$ 45,000
Transfer @ Sewer Bypass Pump	Sewer FARE			\$ 35,000			\$ 35,000
Booster	Water/Sewer FARE	\$ 150,000					\$ 150,000
Small Tools and Equipment							
Air Compressor	Water/Sewer FARE		\$ 21,500				\$ 21,500
SCBA Cans	Water/Sewer FARE	\$ 9,500					\$ 9,500
Traffic Control Equipment	Water/Sewer FARE	\$ 15,000					\$ 15,000
Rebar	Water/Sewer FARE	\$ 15,000					\$ 15,000
Generators	Water/Sewer FARE	\$ 9,000					\$ 9,000
Power Pumps K&C Computers	Water FARE	\$ 5,000					\$ 5,000
Lifting Devices	Water/Sewer FARE	\$ 8,000					\$ 8,000
Excavating Cuts	Water/Sewer CIP	\$ 8,000					\$ 8,000
New 5.5 kW Portable Generator	Water/Sewer CIP	\$ 4,000					\$ 4,000
TOTAL		\$ 291,800	\$ -	\$ 77,400	\$ 35,000	\$ 49,200	\$ 413,100

Shared Facilities CRP – 305 SV Rd.

FACILITY/CAPITAL PROJECTS
Budget Year 2018 - 2022
305 SQUAW VALLEY ROAD
CAPITAL REVENUE MINUTE FARE



Funding Source	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Project Total
Water FARE						
AC Supply Steel	WUSP FARE	\$ 2,833				\$ 2,833
Replace Power System	WUSP FARE		\$ 19,887			\$ 19,887
Replace 11 Handbars	WUSP FARE			\$ 14,835		\$ 14,835
Replace 11 Handbars - Pave	WUSP FARE				\$ 6,333	\$ 6,333
Replace Carpet	WUSP FARE			\$ 30,720		\$ 30,720
Subtotal Water FARE	\$ 2,833	\$ 6,333	\$ 50,647	\$ 14,835	\$ 3,267	\$ 77,853
Sewer FARE						
AC Supply Steel	WUSP FARE	\$ 2,833				\$ 2,833
Replace Power System	WUSP FARE		\$ 19,887			\$ 19,887
Replace 11 Handbars	WUSP FARE			\$ 14,835		\$ 14,835
Replace 11 Handbars - Pave	WUSP FARE				\$ 6,333	\$ 6,333
Replace Carpet	WUSP FARE			\$ 30,720		\$ 30,720
Subtotal Sewer FARE	\$ 2,833	\$ 6,333	\$ 50,647	\$ 14,835	\$ 3,267	\$ 77,853
SUBTOTAL 305 SQUAW VALLEY ROAD	\$ 5,667	\$ 12,667	\$ 101,433	\$ 29,670	\$ 6,533	\$ 156,867

Shared Facilities CRP – 1810 SV Rd.

1810 SQUAW VALLEY ROAD
CAPITAL REVENUE MINUTE FARE

Funding Source	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Project Total
Water FARE						
AC Supply Steel	Water/Sewer FARE	\$ 7,500				\$ 7,500
AC Handbars	Water/Sewer FARE		\$ 75,450			\$ 75,450
Replace Roof (Admin Bldg)	Water/Sewer FARE	\$ 21,100				\$ 21,100
Replace Roof (Fire Station)	Water/Sewer FARE	\$ 21,100				\$ 21,100
Public Open Area Station	Water/Sewer FARE		\$ 10,000			\$ 10,000
Crushage Improvements	Water/Sewer FARE	\$ 12,500				\$ 12,500
Subtotal Water FARE	\$ 20,000	\$ 43,200	\$ 80,450	\$ -	\$ -	\$ 143,650
Sewer FARE						
AC Supply Steel	Water/Sewer FARE	\$ 7,500				\$ 7,500
AC Handbars	Water/Sewer FARE		\$ 75,450			\$ 75,450
Replace Roof (Admin Bldg)	Water/Sewer FARE	\$ 21,100				\$ 21,100
Replace Roof (Fire Station)	Water/Sewer FARE	\$ 21,100				\$ 21,100
Public Open Area Station	Water/Sewer FARE		\$ 10,000			\$ 10,000
Crushage Improvements	Water/Sewer FARE	\$ 12,500				\$ 12,500
Subtotal Sewer FARE	\$ 20,000	\$ 43,200	\$ 80,450	\$ -	\$ -	\$ 143,650
SUBTOTAL 1810 SQUAW VALLEY ROAD	\$ 40,000	\$ 86,400	\$ 160,900	\$ -	\$ -	\$ 287,300

Questions / Comments

