

### Southwood Park Water District

PRELIMINARY CIP Planning - Alternatives Analysis

### **Overview**

Southwood Park Water District (SPWD, the District) asked SDAO Consulting Services to conduct a preliminary review of alternatives for the District's Capital Improvement Program (CIP). Specific questions to considered in this analysis:

- 1. Are the costs of the CIP projects identified in 2010 still valid?
- 2. Would it be possible to phase in CIP projects over time to limit near-term rate impacts?
- 3. What are the potential rate impacts of the proposed projects?
- 4. Are there financing options available and how might loans be used to help limit rate impacts?
- 5. How would SPWD's resulting rates compare with other water providers in the region?

### **Summary of Analysis and Observations**

The SPWD Board Chair provided SDAO Consulting Services with extensive background material including: Background Information (December 2018), Infrastructure Rate Review email (April 30, 2019), correspondence from Highland Water (April 30, 2019), Capital Improvement Plan (TVWD, October 2010), and budget documents for the 2019-20 fiscal year.

Based on this information, SDAO Consulting Services updated cost estimates for the CIP project list using published inflation rates from 2010 to 2020. In addition, five CIP implementation scenarios were developed, with project costs spread over a five-year planning horizon. Costs were compiled, and annual debt service costs were estimated for assumed loans in an amount approximately equal to the anticipated costs of each scenario (assumed term of 20 years and interest rate of 2.5%). A preliminary calculation of rate impacts was prepared for each scenario and resulting typical monthly bills were compared to other water providers in the Portland region based on available published data.

SDAO Consulting Services offers the following observations:

1. Other than replacing the well pump about 10 years ago, SPWD has made limited capital investments in renewal and replacement of water system assets since construction of the water system over 60 years ago. While SPWD's customers have realized the benefits of low rates for many years, SPWD's critical assets are at or near the end of their economic lives. Further, the SPWD distribution system may have potential deficiencies in available fire flow based on existing pipe sizes and fire hydrant spacing. In the absence of significant capital investments, the District faces a significant risk of failure of one or more critical water system assets within the next decade. Such failures may result in prolonged interruption of water service and/or unplanned costs for emergency repairs.



- 2. Significant rate increases on the order of a doubling of current water rates will be required to fund the needed capital improvements.
- 3. Low-interest loans are likely available to help fund the needed improvements; however, further planning and analysis will be required to identify a preferred capital plan, prepare a financial plan and prepare documentation needed to qualify for such funding. SPWD will also need to make significant near-term rate increases to qualify for a loan.
- 4. The resulting typical monthly water bills for SPWD customers would be comparable to several other water providers in the Portland region particularly those water providers who have invested in ongoing renewal and replacement programs or have recently made significant capital investments.
- 5. In light of the significant capital investments the District is facing, SPWD is strongly encouraged to actively investigate possible consolidation and/or merger with another water provider. Such as consolidation will not avoid the need for capital investments the acquiring system will likely require extensive updates to the SPWD system prior to consolidation but consolidation will likely result in operating and maintenance cost savings that would help offset the rate impact of needed capital improvements.

### **Limitations of Analysis**

This analysis by SDAO Consulting Services is subject to the following:

- 1. This analysis is based on information furnished by SPWD and has not been further researched or verified.
- 2. Cost estimates are based on work published by TVWD in 2010; new cost estimates and/or further research into required improvements has not been prepared.
- 3. Cost analysis was limited to capital costs; further analysis of rate impacts resulting from changes in future operation and maintenance costs would be needed to prepare a comprehensive economic evaluation of the alternatives. For example, no attempt was made to quantify costs and savings of the following:
  - a. Reduced maintenance and repair costs to distribution piping that is replaced,
  - b. Reduced water leakage and associated reductions in non-revenue water,
  - c. Improved revenue recovery resulting from implementation of the proposed meter replacement program, and
  - d. Changes in operating costs for well operations versus purchased water.
- 4. SDAO Consulting Services does not provide engineering services and, as such, all findings and recommendations presented herein are subject to further analysis and verification.



### **CIP Update & New Project List**

10-yr Escalation Multiplier: 1.21

			on Multiplier:	-	
	Project	Pr	eliminary Cos	st Es	stimate (\$)
No.	Description	2	2010 Plan	20	20 Update
ELA (new)	Financial Plan / Master Plan / Legal			\$	20,000
P1.a	Building Modifications	\$	50,000	\$	60,336
P3	Pump Station Piping	\$	5,000	\$	6,034
P4.a	SCADA Upgrades	\$	3,600	\$	4,344
P5	Backup Power Analysis (analysis only)	\$	3,000	\$	3,620
P6 (new)	Pump Replacement			\$	40,000
R0 (new)	Reservoir Cleaning			\$	5,000
R1	Reservoir Structural Assessment (analysis only)	\$	50,000	\$	60,336
R2	Reservoir Options Planning (analysis only)	\$	10,000	\$	12,067
R3	Reservoir Lining - new interior coating	\$	60,000	\$	72,403
R4	Reservoir Coating - new exterior painting	\$	200,000	\$	241,344
R5	Property Line Adjustment	\$	10,000	\$	12,067
R6 (new)	Reservoir Structural Upgrades			\$	350,000
S1	Portland Connection Upgrade (existing 2")	\$	50,000	\$	60,336
S2	Portland Connection (new 6")	\$	125,000	\$	150,840
S3	Water Softening	\$	380,000	\$	458,554
D1	New Pipe on SW Pamela between 63rd & 64th	\$	24,000	\$	28,961
D2	Repair Broken Valve at SW 62nd & 63rd	\$	3,500	\$	4,224
D3	Repair Broken Valve at SW 62nd & Southwood	\$	3,500	\$	4,224
D4	Repair Broken Valve at SW 63rd & 63rd Place	\$	3,500	\$	4,224
D5	Locate & Repair Valve at SW 61st & 62nd	\$	3,500	\$	4,224
D6	Repair Leaking Valve at SW 61st & 62nd	\$	3,500	\$	4,224
U1	Install New Pipe Sw 62nd & Southwood	\$	15,000	\$	18,101
U2 *	Install 4 Fire Hydrants	\$	16,000	\$	19,308
Replace	Replace Distribution System	\$	1,622,000	\$	1,957,300
M1	Replace Plastic Service Lines (include new meters)	\$	443,000	\$	534,577
M2	Install Residential Regulators	\$	28,000	\$	33,788



### Summary of Planning Scenarios

	Scen Portl	Scen to Pc	Scen	Scen	Scen		
Scenario 6 - Consolidate with other district	Scenario 5 - Replace distribution system, convert to Portland supply, maintain tank but not well	Scenario 4 - Maintain existing distribution assets, convert to Portland supply, maintain tank but not well	Scenario 3 - Maintain existing assets; stay on well but tank upgrades required in 5 years, no softening	Scenario 2 - Maintain existing assets; stay on well, no tank upgrades, no softening	Scenario 1 - Do Nothing	Scenarios	
`	`	•	<	<		Financial, Engr & Legal	
	1	<	<	<		Tank Struct Analysis	
	`	<		<		Maintain Tank	
			<	<		Maintain Well & Pump	
			<	•		Maintain Bldg	
		•	`	<		Dist Syst Maint	Featur
	′					Dist Syst Replace	Features & Improvements
						Tank Struct U/G	ements
			•	1		PDX Vault U/G	
	•	•				PDX Vault New PDX Meters & U/G Connect Services	
	<	•	<	•		Meters & Services	
						PRVs	
						Water Softening	
Projects & costs will depend on consolidation agreement	Replace distribution system; assume DI pipe but lower cost options may be viable.	Changes in operating cost of wells vs purchased water; must verify compatibility of AC pipe w/PDX water	Tank upgrade; existing operating cost	Best case 'as is' scenario; existing operating cost	High potential for critical system failure within 10 years	Other / Notes	

### Helpful Comparisons

- 1 vs any scenario: do nothing vs system investments 2 vs 3: effect of tank upgrade

- 2 vs 4: effect of moving to Portland supply 4 vs 5: effect of replacing distribution system

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## Scenario 2 - Maintain existing assets; stay on well, no tank upgrades, no softening

	<del>69</del>	Install Residential Regulators	M2
534,577	€9	Replace Plastic Service Lines (include new meters)	M1
1,957,300	69	Replace Distribution System	Replace
19,308	69	Install 4 Fire Hydrants	U2
18,101	59	Install New Pipe Sw 62nd & Southwood	U1
4,224	69	Repair Leaking Valve at SW 61st & 62nd	D6
4,224	69	Locate & Repair Valve at SW 61st & 62nd	D5
4,224	69	Repair Broken Valve at SW 63rd & 63rd Place	D4
4,224	60	Repair Broken Valve at SW 62nd & Southwood	D3
4,224	69	Repair Broken Valve at SW 62nd & 63rd	D2
28,961	69	New Pipe on SW Pamela between 63rd & 64th	D1
458,554	55	Water Softening	S3
150,840	69	Portland Connection (new 6")	S2
60,336	69	Portland Connection Upgrade (existing 2")	S1
350,000	69	Reservoir Structural Upgrades	R6 (new)
12,067	69	Property Line Adjustment	R5
241,344	59	Reservoir Coating - new exterior painting	R4
72,403	69	Reservoir Lining - new interior coating	R3
12,067	69	Reservoir Options Planning (analysis only)	R2
60,336	69	Reservoir Structural Assessment (analysis only)	R1
5,000	69	Reservoir Cleaning	R0 (new)
40,000	69	Pump Replacement	P6 (new)
3,620	69	Backup Power Analysis (analysis only)	P5
4,344	69	SCADA Upgrades	P4.a
6,034	69	Pump Station Piping	P3
60,336	69	Building Modifications	P1.a
20,000	<del>69</del>	Financial Plan / Master Plan / Legal	ELA (new)
2020 Cost (\$)	2(	Description	No.
		Project	

\$1,409,00	\$419,000	\$ 258,000	\$289,000	\$ 280,000	\$ 163,000	Suggested Budget
\$1,280,83	\$ 380,363	\$ 234,412	\$ 203,1//	\$ 254,651		With Escalation
\$1,216,33	\$348,259	\$219,319	\$251,722	\$248,999	\$ 148,033	Total by Year
	\$106,915	\$106,915	\$106,915	\$106,915	\$106,915	
				\$ 19,308		
				\$ 18,101		
					\$ 4,224	
					\$ 4,224	
					\$ 4,224	
					\$ 4,224	
			8		\$ 4,224	
				\$ 28,961		
			\$ 60,336			
			\$ 12,067			
	\$241,344		780			
		\$ 72,403				
			\$ 12,067			
			\$ 60,336			
				\$ 5,000		
		\$ 40,000				
				\$ 4,344		
				\$ 6,034		
				\$ 60,336		
					\$ 20,000	
Plan	FY 24-25	FY 23-24	FY 22-23	FY 21-22	FY20-21	
Total 5-yr		n	Five Year Plan	H		

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Scenario 3 - Maintain existing assets; stay on well but tank upgrades required in 5 years, no softening

33,788	59	Install Residential Regulators	M2
534,577	69	Replace Plastic Service Lines (include new meters)	M1
1,957,300	69	Replace Distribution System	Replace
19,308	69	Install 4 Fire Hydrants	U2
18,101	<del>\$</del>	Install New Pipe Sw 62nd & Southwood	U1
4,224	<del>50</del>	Repair Leaking Valve at SW 61st & 62nd	D6
4,224	69	Locate & Repair Valve at SW 61st & 62nd	D5
4,224	69	Repair Broken Valve at SW 63rd & 63rd Place	D4
4,224	69	Repair Broken Valve at SW 62nd & Southwood	D3
4,224	69	Repair Broken Valve at SW 62nd & 63rd	D2
28,961	69	New Pipe on SW Pamela between 63rd & 64th	D1
458,554	<del>\$</del>	Water Softening	S3
150,840	<del>60</del>	Portland Connection (new 6")	S2
60,336	65	Portland Connection Upgrade (existing 2")	S1
350,000	69	Reservoir Structural Upgrades	R6 (new)
12,067	60	Property Line Adjustment	R5
241,344	69	Reservoir Coating - new exterior painting	R4
72,403	€9	Reservoir Lining - new interior coating	R3
12,067	<del>69</del>	Reservoir Options Planning (analysis only)	R2
60,336	<del>69</del>	Reservoir Structural Assessment (analysis only)	R1
5,000	<del>69</del>	Reservoir Cleaning	R0 (new)
40,000	69	Pump Replacement	P6 (new)
3,620	69	Backup Power Analysis (analysis only)	P5
4,344	€9	SCADA Upgrades	P4.a
6,034	59	Pump Station Piping	P3
60,336	\$	Building Modifications	P1.a
20,000	<del>59</del>	Financial Plan / Master Plan / Legal	ELA (new)
20 Cost (\$)	2020	Description	No.
		Project	

Suggested Budget	With Escalation	Total by Year	Transport (THE ART OF THE																										
\$ 163,000	\$148,033	\$ 148,033		\$106,915				\$ 4,224	\$ 4,224	\$ 4,224	\$ 4,224	\$ 4,224															\$ 20,000	FY20-21	
\$ 280,000	\$254,651	\$248,999		\$106,915		\$ 19,308	\$ 18,101						\$ 28,961									\$ 5,000		\$ 4,344	\$ 6,034	\$ 60,336		FY 21-22	H
\$289,000	\$263,177	\$251,722		\$106,915	ar.							*		3	\$ 60,336		\$ 12,067	100		\$ 12,067	\$ 60,336							FY 22-23	Five Year Plan
\$ 173,000	\$157,026	\$146,915		\$106,915																			\$ 40,000					FY 23-24	n
\$926,000	\$842,151	\$770,663		\$106,915												\$350,000		\$241,344	\$ 72,403									FY 24-25	
\$1,831,000	\$1,665,039	\$1,566,332																										Plan	Total 5-yr

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# Scenario 4 - Maintain existing distribution assets, convert to Portland supply, maintain tank but not well

tion         2020 Cost (\$)           Il Plan / Master Plan / Legal         \$ 20,000           Modifications         \$ 60,336           tation Piping         \$ 6,034           Upgrades         \$ 4,344           Power Analysis (analysis only)         \$ 4,344           Power Analysis (analysis only)         \$ 40,000           ir Cleaning         \$ 40,000           ir Cleaning         \$ 60,336           ir Options Planning (analysis only)         \$ 60,336           ir Options Planning (analysis only)         \$ 72,403           ir Coating - new interior coating         \$ 72,403           ir Coating - new exterior painting         \$ 241,344           Line Adjustment         \$ 72,403           ir Structural Upgrades         \$ 12,067           Connection (new 6")         \$ 60,336           Connection (new 6")         \$ 5,000           Sol,336         \$ 150,840           Oftening         \$ 4,224           Broken Valve at SW 62nd & 63rd & 64th         \$ 28,961           Froken Valve at SW 61st & 62nd         \$ 4,224           E	33,788	\$	Install Residential Regulators	M2
/ Legal \$  / Legal \$  \$  \$  \$  \$  alysis only) \$  ment (analysis only) \$  (analysis only) \$  ior coating \$  el (existing 2") \$  tween 63rd & 64th \$  62nd & 63rd Place \$  63rd & 62nd & 5  61st & 62nd \$  5 Southwood \$  61st & 62nd \$  5 Southwood \$  61st & 62nd \$  5 Southwood \$  61st & 62nd \$  62nd & 62nd \$	534,577	<del>59</del>	Replace Plastic Service Lines (include new meters)	M1
2020 ( \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ only) \$ \$ \$ \$ \$ \$ \$ \$  only) \$ \$ \$ \$ \$ \$  Iwood \$ \$  Iwood \$ \$ \$  \$  \$  \$  \$  \$  \$  \$  \$  \$  \$  \$	1,957,300	69	Replace Distribution System	Replace
2020 ( \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ only) \$ \$ \$ \$ \$ \$ \$ \$ 1 1ace \$ \$  1 18ce \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	19,308	<del>69</del>	Install 4 Fire Hydrants	U2
2020 ( \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18,101	69	Install New Pipe Sw 62nd & Southwood	U1
2020 ( \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4,224	<del>69</del>	Repair Leaking Valve at SW 61st & 62nd	D6
2020 o	4,224	69	Locate & Repair Valve at SW 61st & 62nd	D5
2020 (  \$   \$   \$   \$   \$   \$   \$   \$   \$	4,224	<del>69</del>	Repair Broken Valve at SW 63rd & 63rd Place	D4
2020 (  \$   \$   \$   \$   \$   \$   \$   \$   \$	4,224	69	Repair Broken Valve at SW 62nd & Southwood	D3
2020 (	4,224	<del>59</del>	Repair Broken Valve at SW 62nd & 63rd	D2
2020 (	28,961	€9	New Pipe on SW Pamela between 63rd & 64th	D1
2020 (  \$   \$   \$   \$   \$   \$   \$   \$   \$	458,554	<del>69</del>	Water Softening	S3
2020 (  \$   \$   \$   \$   \$   \$   \$   \$   \$	150,840	<del>69</del>	Portland Connection (new 6")	S2
2020 (  \$   \$   \$   \$   \$   \$   \$   \$   \$	60,336	65	Portland Connection Upgrade (existing 2")	S1
2020 (  \$   \$   \$   \$   \$   \$   \$   \$   \$	350,000	89	Reservoir Structural Upgrades	R6 (new)
2020 (  \$   \$   \$   \$   \$   \$   \$   \$   \$	12,067	€9	Property Line Adjustment	R5
2020 (  \$   \$   \$   \$   \$   \$   \$   \$   \$	241,344	\$	Reservoir Coating - new exterior painting	R4
2020 (  \$   \$   \$   \$   \$   \$   \$   \$   \$	72,403	\$	Reservoir Lining - new interior coating	R3
2020 (  \$   \$   \$   \$   \$   \$   \$   \$   \$	12,067	\$	Reservoir Options Planning (analysis only)	R2
2020 (  \$   \$   \$   \$   \$   \$   \$   \$   \$	60,336	<del>69</del>	Reservoir Structural Assessment (analysis only)	R1
2020 (   \$   \$   \$   \$   \$   \$   \$   \$   \$	5,000	69	Reservoir Cleaning	R0 (new)
2020 (   \$   \$   \$   \$   \$   \$   \$   \$   \$	40,000	€9	Pump Replacement	P6 (new)
2020 (  \$   \$   \$   \$   \$   \$   \$   \$   \$	3,620	69	Backup Power Analysis (analysis only)	P5
2020 (   \$   \$   \$   \$   \$   \$   \$   \$   \$	4,344	\$	SCADA Upgrades	P4.a
2020 (   Legal	6,034	\$	Pump Station Piping	P3
Legal 2020 (	60,336	<del>69</del>	Building Modifications	P1.a
	20,000	<del>59</del>	Financial Plan / Master Plan / Legal	ELA (new)
	)20 Cost (\$	20	Description	No.
Project			Project	

\$1,388,000	\$419,000	\$211,000	\$394,000	\$ 201,000	\$ 163,000	Suggested Budget \$ 163,000
\$1,260,389	\$380,565	\$191,660	\$357,799	\$182,332	\$148,033	With Escalation
\$1,196,122	\$348,259	\$179,319	\$ 342,226	\$178,285	\$148,033	Total by Year
	\$106,915	\$106,915	\$106,915	\$106,915	\$106,915	
				\$ 19,308		
				\$ 18,101		
					\$ 4,224	
					\$ 4,224	
					\$ 4,224	
					\$ 4,224	
					\$ 4,224	
				\$ 28,961		
			\$150,840			
			\$ 12,067			
	\$241,344					
		\$ 72,403				
			\$ 12,067			
			\$ 60,336			
				\$ 5,000		
					\$ 20,000	
Plan	FY 24-25	FY 23-24	FY 22-23	FY 21-22	FY20-21	
Total 5-yr		Ħ	Five Year Plan	-		

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Scenario 5 - Replace distribution system, convert to Portland supply, maintain tank but not well

4	1		
No.	Description	202	2020 Cost (\$)
ELA (new)	Financial Plan / Master Plan / Legal	\$	20,000
P1.a	Building Modifications	69	60,336
P3	Pump Station Piping	69	6,034
P4.a	SCADA Upgrades	€9	4,344
P5	Backup Power Analysis (analysis only)	\$	3,620
P6 (new)	Pump Replacement	S	40,000
R0 (new)	Reservoir Cleaning	\$	5,000
R1	Reservoir Structural Assessment (analysis only)	<del>\$</del>	60,336
R2	Reservoir Options Planning (analysis only)	<del>59</del>	12,067
R3	Reservoir Lining - new interior coating	8	72,403
R4	Reservoir Coating - new exterior painting	\$	241,344
R5	Property Line Adjustment	\$	12,067
R6 (new)	Reservoir Structural Upgrades	\$	350,000
S1	Portland Connection Upgrade (existing 2")	<del>59</del>	60,336
S2	Portland Connection (new 6")	\$	150,840
S3	Water Softening	\$	458,554
D1	New Pipe on SW Pamela between 63rd & 64th	\$	28,961
D2	Repair Broken Valve at SW 62nd & 63rd	S	4,224
D3	Repair Broken Valve at SW 62nd & Southwood	89	4,224
D4	Repair Broken Valve at SW 63rd & 63rd Place	\$	4,224
D5	Locate & Repair Valve at SW 61st & 62nd	\$9	4,224
D6	Repair Leaking Valve at SW 61st & 62nd	€9	4,224
U1	Install New Pipe Sw 62nd & Southwood	\$	18,101
U2	Install 4 Fire Hydrants	\$	19,308
Replace	Replace Distribution System	S	1,957,300
M1	Replace Plastic Service Lines (include new meters)	€9	534,577
M2	Install Residential Regulators	€9	33,788

\$3,540,000	\$889,000	\$671,000	\$ 844,000	\$ 566,000	\$570,000	Suggested Budget
\$3,218,049	\$808,338	\$610,060	\$ /6/,0/3	\$514,802		Wim Escalation
\$3,065,935	\$739,720	\$ 570,779	\$ 733,686	\$ 503,375	\$518,375	Total by Year
	\$106,915	\$106,915	\$106,915	\$106,915	\$106,915	
	\$391,460	\$391,460	\$391,460	\$391,460	\$391,460	
			5			
		si				
			\$150,840			
,			\$ 12,067			
	\$241,344					
		\$ 72,403				
			\$ 12,067			
			\$ 60,336			
				\$ 5,000		
					\$ 20,000	
Plan	FY 24-25	FY 23-24	FY 22-23	FY 21-22	FY20-21	
Total 5-yr		n	Five Year Plan	H		

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## S D A O Special Districts A Seciation of Oregon

## Loan Costs and New Bills

Loan Costs

Term (yrs): 20

Interest Rate (%): 2.50%

5-yr Capital Loan Amount	0	\$1,409,000 \$ 1,400,000	\$ 1,800,000	\$ 1,350,000	\$ 3,500,000
5-yr Capital	· \$	\$1,409,000	\$1,831,000	\$1,388,000	\$3,540,000
Scenario	1	2	3	4	5
•	3	10 xx 10	822	(A)	

\$301.36

\$89,805.98

800,000 \$115,464.83

Connection/yr Cost per

Annual Debt Service (\$/yr)

\$290.60 \$387.47

> \$86,598.62 \$224,514.95

\$753.41

## New Typical Bill by Scenario

320.47 Per Year 5 Existing Typical Bill:

0 -	200	%	200	%	%	%0
Required Rate Increase (%)	0,0	94%	121%	91%	235%	0.0
Total Typical Total Typical New Bill (\$/yr) Bill (\$/month)	\$ 26.71	\$ 51.82	\$ 58.99	\$ 50.92	\$ 89.49	\$ 26.71
Total Typical Bill (\$/yr)	\$ 320.47	\$ 621.83	\$ 707.94	\$ 611.07	\$ 1,073.88	\$ 320.47
New Debt (\$/yr)	- \$	\$ 301.36	\$ 387.47	\$ 290.60	\$ 753.41	. \$
Existing Bill (\$/yr)	\$ 320.47	\$ 320.47	\$ 320.47	\$ 320.47	\$ 320.47	\$ 320.47
Scenario	1	2	3	4	5	9

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### Comparison to Typical Monthly Bill of Other Water Providers

assumes 5/8" residential meter, based on 2018-19 rates

Juristiction	Typical Monthly Bill (\$/mo)	
Raleigh	\$	22.92
Rockwood	\$	23.58
Tualatin	\$	24.78
Troutdale	\$	24.84
SPWD Existing	\$	26.71
Oak Lodge	\$	27.08
Hillsboro	\$	32.12
Milwaukie	\$	32.33
Gladstone	\$	36.44
Sunrise	\$	38.00
Portland	\$	39.24
Forest Grove	\$	40.41
Sandy	\$	41.33
Beaverton	\$	41.36
CRW	\$	47.92
Gresham	\$	47.92
Cornelius	\$	49.62
SPWD Scenario 4	\$	50.92
SPWD Scenario 2	\$	51.82
TVWD	\$	52.44
Lake Oswego	\$	53.96
West Slope WD	\$	54.40
Tigard	\$	57.70
SPWD Scenario 3	\$	58.99
SPWD Scenario 5	\$	89.49