

Agency: Otter Rock Water District
 Worksheet: Water System SDC
 Worksheet No.: C

Project No.	Project Description	Project Cost	Project Cost Date	ENR Index of Estimate	Current ENR Index	Adjusted Cost Estimate (current)	Reimbursement SDC Eligible (Y/N)	Improvement SDC Eligible (Y/N)	% SDC Eligible	SDC Eligible Cost	Comments
1	Replace Existing Distribution Piping and Valving	\$2,227,000.00	Aug-19	1	1	\$2,227,000.00	N	Y	12.80%	\$285,056.00	
2	Installation of Distribution System Water Meters	\$398,000.00	Aug-19	1	1	\$398,000.00	N	N	0.00%	\$0.00	
3	Rehabilitation of Springs and Appurtenances	\$37,000.00	Aug-19	1	1	\$37,000.00	N	Y	12.80%	\$4,736.00	
4	Replacement of both Tanks	\$372,000.00	Aug-19	1	1	\$372,000.00	N	Y	12.80%	\$47,616.00	
5	Upgrade to Tank Valving and Piping	\$236,000.00	Aug-19	1	1	\$236,000.00	N	Y	12.80%	\$30,208.00	
6	Installation of Booster Pump Station	\$90,000.00	Aug-19	1	1	\$90,000.00	N	Y	12.80%	\$11,520.00	
7	Project Interim Financing	\$150,000.00	Aug-19	1	1	\$150,000.00	N	Y	12.80%	\$19,200.00	
Totals		\$3,510,000.00				\$3,510,000.00				\$398,336.00	

Table 3.4.1 From Methodology - CIP Summary

Project No.	Project Description	Project Cost	Project Cost Date	ENR Index of Estimate	Current ENR Index	Adjusted Cost Estimate (current)
1	Replace Existing Distribution Piping and Valving	\$2,227,000.00	Aug-19	1	1	\$2,227,000.00
2	Installation of Distribution System Water Meters	\$398,000.00	Aug-19	1	1	\$398,000.00
3	Rehabilitation of Springs and Appurtenances	\$37,000.00	Aug-19	1	1	\$37,000.00
4	Replacement of both Tanks	\$372,000.00	Aug-19	1	1	\$372,000.00
5	Upgrade to Tank Valving and Piping	\$236,000.00	Aug-19	1	1	\$236,000.00
6	Installation of Booster Pump Station	\$90,000.00	Aug-19	1	1	\$90,000.00
7	Project Interim Financing	\$150,000.00	Aug-19	1	1	\$150,000.00
Totals		\$3,510,000.00				

Table 3.5.1 From Methodology - Eligibility Summary

Project No.	Project Description	Adjusted Cost Estimate (current)	Reimbursement SDC Eligible (Y/N)	Improvement SDC Eligible (Y/N)	% SDC Eligible	SDC Eligible Cost
1	Replace Existing Distribution Piping and Valving	\$2,227,000.00	N	Y	12.80%	\$285,056.00
2	Installation of Distribution System Water Meters	\$398,000.00	N	N	0.00%	\$0.00
3	Rehabilitation of Springs and Appurtenances	\$37,000.00	N	Y	12.80%	\$4,736.00
4	Replacement of both Tanks	\$372,000.00	N	Y	12.80%	\$47,616.00
5	Upgrade to Tank Valving and Piping	\$236,000.00	N	Y	12.80%	\$30,208.00
6	Installation of Booster Pump Station	\$90,000.00	N	Y	12.80%	\$11,520.00
7	Project Interim Financing	\$150,000.00	N	Y	12.80%	\$19,200.00
Totals		\$3,510,000.00				\$398,336.00

Table 3.6.1 From Methodology - Water Reimbursement SDC

Project No.	Project Description	SDC Eligible Cost
	Total Reimbursement Eligible Costs (A)	\$0.00
	Total Growth EDU's per Section 3.3 (B)	26
	Maximum Reimbursement Water SDC (A/B)	\$0.00

Table 3.7.1 From Methodology - Water Improvement SDC

Project No.	Project Description	SDC Eligible Cost
1	Replace Existing Distribution Piping and Valving	\$285,056.00
2	Installation of Distribution System Water Meters	\$0.00
3	Rehabilitation of Springs and Appurtenances	\$4,736.00
4	Replacement of both Tanks	\$47,616.00
5	Upgrade to Tank Valving and Piping	\$30,208.00
6	Installation of Booster Pump Station	\$11,520.00
7	Project Interim Financing	\$19,200.00
	Total Improvement Eligible Costs (A)	\$398,336.00
	Total Growth EDU's per Section 3.3 (B)	26
	Maximum Improvement Water SDC (A/B) per EDU	\$15,183.00

This column is the total loan required to pay the SDC eligible portion of the project. This credit is to offset the double-dip effect of paying an SDC plus paying increased user rates for a loan to pay for the same capital costs. Only offered to new customers.

Table 1.2.1 From Methodology - Water SDC Summary

Table 3.9.1 From Methodology - Water SDC Summary

SDC Component	SDC Amount
Improvement Fee	
Per Section 3.7	\$15,183.00
Reimbursement Fee	
Per Section 3.6	\$0.00
Subtotal of Water SDC Fees per EDU	\$15,183.00
Credit Summary	
Upper Range Credit (100% Financing Credit)	\$2,273
Mid Range Credit (75% Financing Credit)	\$1,705
Mid Range Credit (50% Financing Credit)	\$1,136
Low Range Credit (25% Financing Credit)	\$568

Table 3.8.2 From Methodology - Potential Rate Increases to Fund Projects

% Project Cost Paid by Loan	Total Loan Required	Monthly User Rate Increase per EDU
100	\$398,336	\$15.00
75	\$298,752	\$11.25
50	\$199,168	\$7.50
25	\$99,584	\$3.75

Table 3.8.3.a From Methodology - Present Worth SDC Table A

New User Connects to System in Year No.	Rounded Time Paying New Rate (yrs)	Present Worth	Rounded SDC Credit
0-5	20	\$2,272.98	\$2,273
6-10	15	\$1,896.92	\$1,897
11-15	10	\$1,414.29	\$1,414
16-20	5	\$794.90	\$795

Table 3.8.3.b From Methodology - Present Worth SDC Table B

New User Connects to System in Year No.	Rounded Time Paying New Rate (yrs)	Present Worth	Rounded SDC Credit
0-5	20	\$1,704.74	\$1,705
6-10	15	\$1,422.69	\$1,423
11-15	10	\$1,060.71	\$1,061
16-20	5	\$596.17	\$596

Table 3.8.3.c From Methodology - Present Worth SDC Table C

New User Connects to System in Year No.	Rounded Time Paying New Rate (yrs)	Present Worth	Rounded SDC Credit
0-5	20	\$1,136.49	\$1,136
6-10	15	\$948.46	\$948
11-15	10	\$707.14	\$707
16-20	5	\$397.45	\$397

Table 3.8.3.d From Methodology - Present Worth SDC Table D

New User Connects to System in Year No.	Rounded Time Paying New Rate (yrs)	Present Worth	Rounded SDC Credit
0-5	20	\$568.25	\$568
6-10	15	\$474.23	\$474
11-15	10	\$353.57	\$354
16-20	5	\$198.72	\$199

Agency:	Otter Rock Water District				
Worksheet:	EDU Worksheet				
Worksheet No.:	B				

Table 1A: Water EDU Worksheet					
(A)	Total residential connections in UGB			147	147
(B)	Total water sold to residential connections within Urban Growth Boundary (UGB)			10,407,810	617,841
(C)	Water use per residential EDU per year (B/A) in gal per year per EDU			70,801	4,203
(D)	System-wide water sales (inside and outside UGB) in gallons			12,407,810	1,117,841
(E)	System wide EDU count (D/C)			175	266
(F)	Persons per household per Census inside UGB			1.29	1.29
(H)	The estimated population within the UGB (FxA)			190	190
(I)	Average growth rate within the UGB for residential and nonresidential sectors			0.70%	0.70%
(J)	Projected population within the UGB for 2026			218	218
(N)	Total water used inside UGB, gal			12,407,810	1,117,841
(O)	Total nonresidential EDU's inside UGB (N-B/C)			28	119
(P)	Total EDU's inside UGB (O+A)			175	266
(S)	Projected EDU's inside UGB (P projected at .7% for 20 yrs)			201	306
(T)	Projected EDU's outside UGB (R projected at .7%)			0	0
(U)	Total future EDU's (S+T)			201	306
(V)	Total Growth EDU's (U-E)			26	40

Table 1F - Meter Size to EDU Conversion Table		
Meter Size	Hydraulic Capacity Factor	No. of EDU's
3/4"	1	1.0
1"	1.67	1.7
1-1/2"	3.33	3.3
2"	5.33	5.3
3"	10.67	10.7
4"	16.67	16.7
6"	33.33	33.3
8"	53.33	53.3
10"	76.67	76.7

Agency:	Otter Rock V
Worksheet:	SDC Compli
Worksheet No.:	D
Table 1.2.2a: SDC Compliance Expense Worksheet	
Table 4.2.5: SDC Compliance Expense Worksheet	
Compliance Activity	Estimated Cost
General Accounting/Administration Costs	
Auditing/Accounting	\$2,000
SDC Methodology Administration & Annual Adjustments	\$2,000
SDC Methodology Update	\$6,000
Water System Compliance Costs	
Water Master Planning	\$24,000
Water Conservation and Management Planning	\$8,000
Subtotal of Annual Costs	\$42,000
Table 1.2.2b: SDC Compliance Revenue Worksheet	
Table 4.2.6: SDC Compliance Revenue Worksheet	
Estimates of SDC Revenues	Added EDU's EDU's/yr
Estimated Annual Water SDC Revenues	1.31
Compliance Cost Charge (Annual cost/Annual Revenue)	
Table 1.2.3: Summary of SDC	
Summary	SDC Amount per EDU
Improvement Fee	\$15,183
Reimbursement Fee	\$0

	Compliance Surcharge per EDU	\$230
	Compliance Cost Charge (Annual cost/Annual Revenue)	\$15,413

Agency:	Otter Rock Water District		
Worksheet:	EDU Worksheet		
Worksheet No.:	A		

Table 3.3.1 Population and EDU Current and Future

	<u>Current</u>	<u>Future</u>	
Population	190	218	
Connections			27434
Residential	147	168	2929
Commercial	7	8	6786
EDUs			54375
Residential	147	168	317188
Commercial	28	33	
Total EDU	175	201	
Usage (gpd)	33,994	38,989	
Usagae (gpd) per EDU	194	194	

Water usage per email from Barbara Bradley 3/2/2018

1,149,000.00	July		
1,110,000.00	August		
649,000.00	september		
649,000.00	October		
535,000.00	November		
714,000.00	December		
910,000.00	January		
910,000.00	February		
910,000.00	March		
255,000.00	April		
938,000.00	May		
850,000.00	June		
798,250.00	July		

10,377,250.00					

\$ 1,000,000.00	160	5%	20				
			10				previous exam
			5				\$ 1,000,000.00
		(\$80,242.59)					
		(\$41.79)					
		(\$20.90)	(\$250.76)				
		\$3,125.00					
		\$1,936.29					
		\$1,085.65					

640	5%	20
		10
		5
	(\$80,242.59)	
	(\$10.45)	
	(\$5.22)	(\$62.69)
	\$781.25	
	\$484.07	
	\$271.41	