Continued from Prior Page: Pipeline Allocation Rules

21.0	24.0	26.0	30.0	36.0	42.0
6.69	9.00	10.56	14.06	20.25	27.56
85.5%	88.9%	90.5%	92.9%	95.1%	96.4%
$185.00	$200.00	$216.67	$250.00	$275.00	$302.50
$175.00	$205.00	n/a	$255.00	$300.00	n/a

Continued from Prior Page: Sewer Pipeline Allocations [c]

						Original Cost Allocated by Function		Replacement Cost Net of Depreciation Allocated by Function		Basis
21.0	24.0	26.0	30.0	36.0	42.0	Collection	Transmission	Collection	Transmission	
2,927	1,405					$ 111,682	$ 26,428	$ 3,729,392	$ 882,514	cost-wghtd LF w. 8 inch capacity excluded
						26,576	6,999	940,540	247,682	cost-wghtd LF w. 8 inch capacity excluded
						224,104	23,151	5,003,688	516,898	cost-wghtd LF w. 8 inch capacity excluded
						203,039	12,396	2,059,672	125,746	cost-wghtd LF w. 8 inch capacity excluded
	783	5,276	2,067			1,117,702	209,618	7,344,215	1,377,363	cost-wghtd LF w. 8 inch capacity excluded
	439		4,948	376	110	2,703,882	436,058	7,174,301	1,157,007	cost-wghtd LF w. 8 inch capacity excluded
						53,170	-	100,270	-	cost-wghtd LF w. 8 inch capacity excluded
						147,110	-	252,053	-	cost-wghtd LF w. 8 inch capacity excluded
						221,423	7,542	348,423	11,868	cost-wghtd LF w. 8 inch capacity excluded
						36,330	-	53,626	-	cost-wghtd LF w. 8 inch capacity excluded
						32,995	-	49,121	-	cost-wghtd LF w. 8 inch capacity excluded
						37,330	-	56,047	-	cost-wghtd LF w. 8 inch capacity excluded
						84,340	-	119,834	-	cost-wghtd LF w. 8 inch capacity excluded
						97,825	-	136,154	-	cost-wghtd LF w. 8 inch capacity excluded
						127,810	43,515	174,350	59,361	cost-wghtd LF w. 8 inch capacity excluded
						106,405	-	143,017	-	cost-wghtd LF w. 8 inch capacity excluded
						434,370	-	572,785	-	cost-wghtd LF w. 8 inch capacity excluded
						110,255	-	143,257	-	cost-wghtd LF w. 8 inch capacity excluded
						239,995	-	304,252	-	cost-wghtd LF w. 8 inch capacity excluded
						245,421	10,439	299,125	12,723	cost-wghtd LF w. 8 inch capacity excluded
						366,525	-	433,062	-	cost-wghtd LF w. 8 inch capacity excluded
					130	84,271	11,279	99,360	13,299	cost-wghtd LF w. 8 inch capacity excluded
						348,540	-	403,358	-	cost-wghtd LF w. 8 inch capacity excluded
						313,982	31,553	353,298	35,505	cost-wghtd LF w. 8 inch capacity excluded
						327,332	24,188	366,124	27,055	cost-wghtd LF w. 8 inch capacity excluded
						613,427	51,668	676,996	57,023	cost-wghtd LF w. 8 inch capacity excluded
						403,343	39,022	437,926	42,368	cost-wghtd LF w. 8 inch capacity excluded
						531,795	41,840	573,287	45,105	cost-wghtd LF w. 8 inch capacity excluded
						83,960	-	88,634	-	cost-wghtd LF w. 8 inch capacity excluded
						1,105,826	40,471	1,141,032	41,760	cost-wghtd LF w. 8 inch capacity excluded
						760,860	-	755,788	-	cost-wghtd LF w. 8 inch capacity excluded
2,927	2,627	5,276	7,015	376	240	4,677	678	4,966	720	as all other
2,927	2,627	5,276	7,015	376	240	98,176	14,241	98,177	14,241	as all other
2,927	2,627	5,276	7,015	376	240	2,707	393	4,431	643	as all other
2,927	2,627	5,276	7,015	376	240	38,498	5,584	23,359	3,388	as all other
2,927	2,627	5,276	7,015	376	240	24,848	3,604	26,384	3,827	as all other
						$ 11,470,529	$ 1,040,669	$ 34,490,306	$ 4,676,095	

Water Pipeline Allocations [d]

	Asset ID	Original Cost	Replacement Cost Net of Depreciation	Lineal Feet by Diameter									
				2.0	4.0	6.0	8.0	10.0	12.0	14.0	15.0	16.0	18.0	20.0
1	0W0001-01	$ -	$ -			1,724								
2	0W0001-02	16,825	560,979		186		1,297	888	342	616		713		
3	0W0002-01	-	-			3,812								
4	0W0002-02	408,555	14,409,902	6,257	444	53,251	33,245	34,999	13,945	755		7,327		6,168
5	0W0003	142,655	3,157,122	1,443	9	18,612	4,048	112	2,224	597		1,086		32
6	0W0004	1,381,725	13,583,341	11,955	840	66,881	25,294	12,762	14,746	1,233		1,442		175
7	0W0005	977,865	6,425,373	6,135	638	25,516	17,657	4,073	8,470			6		1,137
8	0W0006	1,815,885	5,157,417	986	1,027	30,817	13,448	5,578	11,777			325		
9	0W0007	8,992,170	13,500,856	2,547	2,100	12,471	53,519	82,777	20,158	36		22,292		1,590
10	0W0008	11,046,035	13,023,977	2,569	8,227	7,865	93,051	6,992	30,384			7,081		1,961
11	0W0009	2,017,400	2,190,609	178	225	859	7,270		12,562			1,761		565
12	0W0010	2,058,500	2,219,109	179	224	859	7,270	4	12,561			1,761		566
13	0W0011	2,094,800	2,211,286	179	224	859	7,271		12,561			1,761		565
14	0W0012	3,631,599	3,783,535			2,095	28,125		7,765			2,293		5,323
15	0W0013	2,401,926	2,385,913			519	16,605		3,933					
16	Land	180,650	518,570	32,428	14,144	226,140	308,100	148,185	151,428	3,237	0	47,848	0	18,082
17	CWIP	23,458	23,458	32,428	14,144	226,140	308,100	148,185	151,428	3,237	0	47,848	0	18,082
18	CWIP	15,557	15,894	32,428	14,144	226,140	308,100	148,185	151,428	3,237	0	47,848	0	18,082
19	**TOTAL**	**$ 37,205,605**	**$ 83,167,340**											

Data Sources/Notes:

[a] Per Parametrix estimates emailed 3/7/05, and FCS Group extrapolation for diameters not included in Parametrix data.

[b] Per City estimates emailed 3/7/05, and FCS Group estimates from other sources and extrapolation for diameters not included in City data.

[c] City of Grants Pass Accounting Detail Report as of 6/30/2004 for Fund 720, Account 166 - Infrastructure.

[d] City of Grants Pass Accounting Detail Report as of 6/30/2004 for Fund 750, Account 166 - Infrastructure.

Continued from Prior Page: Water Pipeline Allocations [d]

						Original Cost Allocated by Function		Replacement Cost Net of Depreciation Allocated by Function		Basis
21.0	24.0	26.0	30.0	36.0	42.0	Distribution	Transmission	Distribution	Transmission	
						$ -	$ -	$ -	$ -	cost-wghtd LF w. 8 inch capacity excluded
						9,855	6,969	328,603	232,376	cost-wghtd LF w. 8 inch capacity excluded
						-	-	-	-	cost-wghtd LF w. 8 inch capacity excluded
	2,830					288,660	119,895	10,181,169	4,228,733	cost-wghtd LF w. 8 inch capacity excluded
						123,627	19,028	2,736,019	421,103	cost-wghtd LF w. 8 inch capacity excluded
	160		145			1,175,222	206,503	11,553,274	2,030,067	cost-wghtd LF w. 8 inch capacity excluded
	422					815,048	162,817	5,355,534	1,069,839	cost-wghtd LF w. 8 inch capacity excluded
	69					1,502,673	313,212	4,267,843	889,574	cost-wghtd LF w. 8 inch capacity excluded
	1,880		4,804	40		5,485,890	3,506,280	8,236,522	5,264,334	cost-wghtd LF w. 8 inch capacity excluded
	17		37			8,753,183	2,292,852	10,320,558	2,703,418	cost-wghtd LF w. 8 inch capacity excluded
						1,173,849	843,551	1,274,633	915,976	cost-wghtd LF w. 8 inch capacity excluded
						1,197,723	860,777	1,291,172	927,937	cost-wghtd LF w. 8 inch capacity excluded
						1,218,924	875,876	1,286,705	924,581	cost-wghtd LF w. 8 inch capacity excluded
						2,477,828	1,153,771	2,581,494	1,202,041	cost-wghtd LF w. 8 inch capacity excluded
						2,114,688	287,238	2,100,590	285,323	cost-wghtd LF w. 8 inch capacity excluded
0	5,378	0	4,986	40	0	131,482	49,168	377,429	141,141	as all other
0	5,378	0	4,986	40	0	17,073	6,385	17,073	6,385	as all other
0	5,378	0	4,986	40	0	11,323	4,234	11,568	4,326	as all other
						$ 26,497,049	**$ 10,708,556**	**$ 61,920,185**	**$ 21,247,155**	

Summary of Existing Plant-in-Service by Class or Discrete Item

	Utility	Asset Class or Discrete Item	Original Cost	Replacement Cost Net of Depreciation
1	Sewer	Transmission & Collection	$ 12,511,198	$ 39,166,401
2	Sewer	Treatment	20,379,553	28,510,519
3	Sewer	Webster Lift Station #1	15,150	85,131
4	Sewer	Webster Lift Station #2	25,050	63,109
5	Sewer	Bridge Street Lift Station	154,393	148,388
6	Water	Treatment	5,712,233	11,530,578
7	Water	Transmission & Distribution	37,205,605	83,167,340
8	Water	Woodson Drive Reservoir #3	143,050	2,055,412
9	Water	Ridge Road Reservoir #4	56,324	638,620
10	Water	Sherman Reservoir #5	1,276,412	1,979,642
11	Water	Heigland Loop Reservoir #6	1,139,400	1,866,978
12	Water	Ausland Reservoir	37,750	82,905
13	Water	Heigland Reservoir #8	872,270	1,358,129
14	Water	Denton Trail Reservoir #11	2,869,832	3,138,276
15	Water	Sunset Reservoir #13	260,850	510,267
16	Water	Highland Avenue Reservoir #15	1,018,500	1,587,232
17	Water	Hilltop Pump Station	61,195	65,718
18	Water	Williams Highway Pump Station	116,500	136,689
19	Water	Meadow Wood Pump Station	457,100	460,194
20	Water	New Hope Pump Station	521,461	524,324
21	Water	Beacon & Madrone Pump Station	42,192	127,903
22	Water	Beacon & Hefley Pump Station	285,000	281,263
23	Water	Starlite Pump Station	237,358	239,904
24	Water	Champion Pump Station	250,958	260,574
25	Water	Starview Pump Station	94,881	94,675
26	Water	Lawnridge Pump Station	124,500	126,376
27	Water	North Valley Pump Station	54,320	60,570
28	Water	Laurel Ridge Pump Station	98,600	100,804
29	Sewer	Treatment (To Serve Ultimate Capacity)	3,800,000	4,034,981
30	**GRAND TOTAL**		**$ 89,821,634**	**$ 182,402,900**
	Reconciles to Data Entry?		*Yes.*	*Yes.*

	Breakdown of Sewer Pipeline	Original Cost	Replacement Cost Net of Depreciation
31	Total Transmission and Collection Plant-in-Service	$ 12,511,198	$ 39,166,401
32	Subtotal: Transmission Plant-in-Service	$ 1,040,669	$ 4,676,095
33	Subtotal Collection Plant-in-Service	$ 11,470,529	$ 34,490,306

	Breakdown of Water Pipeline	Original Cost	Replacement Cost Net of Depreciation
34	Total Transmission and Distribution Plant-in-Service	$ 37,205,605	$ 83,167,340
35	Subtotal: Transmission Plant-in-Service	$ 10,708,556	$ 21,247,155
36	Subtotal: Distribution Plant-in-Service	$ 26,497,049	$ 61,920,185

Summary of Existing Sewer Plant-in-Service by Functional Category

	Utility	Asset Class or Discrete Item	Original Cost	Replacement Cost Net of Depreciation
37	Sewer	Transmission	$ 1,235,262	$ 4,972,722
38	Sewer	Collection	$ 11,470,529	$ 34,490,306
39	Sewer	Treatment	$ 24,179,553	$ 32,545,500
40	**GRAND TOTAL: SEWER**		**$ 36,885,344**	**$ 72,008,528**
	Subtotal: Sewer, Excluding Collection		*$ 25,414,815*	*$ 37,518,222*

Summary of Existing Water Plant-in-Service by Functional Category

	Utility	Asset Class or Discrete Item	Original Cost	Replacement Cost Net of Depreciation
41	Water	Treatment	$ 5,712,233	$ 11,530,578
42	Water	Transmission	$ 10,708,556	$ 21,247,155
43	Water	Distribution	$ 26,497,049	$ 61,920,185
44	Water	Storage	$ 7,674,388	$ 13,217,461
45	Water	Pumping	$ 2,344,064	$ 2,478,993
46	**GRAND TOTAL: WATER**		**$ 52,936,290**	**$ 110,394,372**
	Subtotal: Water, Excluding Distribution		*$ 26,439,241*	*$ 48,474,187*

Sewer & Water Summaries by Function Category Reconcile to Total Plant-in-Service? *Yes.* *Yes.*

Worksheet for Allocating Existing Plant-in-Service

	Existing Plant-in-Service				Selected Allocation Rule (1, 2, or 3)	Allocation Rule Options: Only Need to Complete One Rule For Each Asset/Class									
						(1) Capacity Basis			(2) Customer Basis [a,b]			(3) Other Basis			
	Utility	Asset Class or Discrete Item	Original Cost	Replacement Cost Net of Depreciation		Total Capacity	Capacity Serving Existing Needs	Capacity Available for Future Needs	Total Equivalent Units That Can Be Served	Existing Equivalent Units	Future Equivalent Units	Percent Used to Meet Existing Needs	Percent Available for Future Needs	Rationale
1	Sewer	Transmission	$ 1,040,669	$ 4,676,095	2			--	15,040	10,011	5,029		--	current vs. ultimate capacity [b]
2	Sewer	Collection	11,470,529	34,490,306	exclude in SDC									
3	Sewer	Treatment	20,379,553	28,510,519	2			--	12,500	11,700	800		--	current capacity only [d]
4	Sewer	Webster Lift Station #1	15,150	85,131	2			--	15,040	10,011	5,029		--	current vs. ultimate capacity [b]
5	Sewer	Webster Lift Station #2	25,050	63,109	2			--	15,040	10,011	5,029		--	current vs. ultimate capacity [b]
6	Sewer	Bridge Street Lift Station	154,393	148,388	2			--	15,040	10,011	5,029		--	current vs. ultimate capacity [b]
7	Water	Treatment	5,712,233	11,530,578	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
8	Water	Transmission	10,708,556	21,247,155	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
9	Water	Distribution	26,497,049	61,920,185	exclude in SDC									
10	Water	Woodson Drive Reservoir #3	143,050	2,055,412	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
11	Water	Ridge Road Reservoir #4	56,324	638,620	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
12	Water	Sherman Reservoir #5	1,276,412	1,979,642	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
13	Water	Heigland Loop Reservoir #6	1,139,400	1,866,978	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
14	Water	Ausland Reservoir	37,750	82,905	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
15	Water	Heigland Reservoir #8	872,270	1,358,129	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
16	Water	Denton Trail Reservoir #11	2,869,832	3,138,276	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
17	Water	Sunset Reservoir #13	260,850	510,267	3	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
18	Water	Highland Avenue Reservoir #15	1,018,500	1,587,232	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
19	Water	Hilltop Pump Station	61,195	65,718	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
20	Water	Williams Highway Pump Station	116,500	136,689	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
21	Water	Meadow Wood Pump Station	457,100	460,194	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
22	Water	New Hope Pump Station	521,461	524,324	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
23	Water	Beacon & Madrone Pump Station	42,192	127,903	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
24	Water	Beacon & Hefley Pump Station	285,000	281,263	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
25	Water	Starlite Pump Station	237,358	239,904	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
26	Water	Champion Pump Station	250,958	260,574	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
27	Water	Starview Pump Station	94,881	94,675	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
28	Water	Lawnridge Pump Station	124,500	126,376	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
29	Water	North Valley Pump Station	54,320	60,570	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
30	Water	Laurel Ridge Pump Station	98,600	100,804	1	18.00	10.50	7.50			--		--	current vs. ultimate capacity [c]
31	Sewer	Treatment (To Serve Ultimate Capacity	3,800,000	4,034,981	2			--	18,800	11,700	7,100		--	current vs. ultimate capacity [a]
GRAND TOTAL, SEWER			**$ 36,885,344**	**$ 72,008,528**										
GRAND TOTAL, WATER			**$ 52,936,290**	**$ 110,394,372**										

Data Sources/Notes:

[a] Accounts are used, as provided in City communications, 2/26/05: Treatment: 11,700 current accounts; 18,800 served at ultimate capacity. >> 62% for existing needs; 38% for future needs and eligible for the SDC.

[b] Accounts are used, as provided in City communications, 2/26/05:

Transmission: 10,011 current accounts (excluding 1,689 RSSD accounts); 15,040 served at ultimate capacity (excluding 3,760 RSSD accounts). >> 67% for existing needs; 33% for future needs and eligible for the SDC.

[c] Per City meeting, 2/18/05: Treatment and Pumping Capacity: 10.5 MGD current demand; 18.0 MGD plant capacity. >> 58% for existing needs; 42% for future needs and eligible for the SDC.

[d] Accounts are used, as provided in City communications, 2/26/05: Treatment: 11,700 current accounts; 12,500 served at ultimate capacity. >> 94% for existing needs; 6% for future needs and eligible for the SDC.

Allocated Plant-in-Service

	Existing Plant-In-Service		Allocation Percentage		Allocated Original Cost		Allocated Replacement Cost Net of Depreciation		Sewer Functions	Water Functions
	Utility	Asset Class or Discrete Item	Existing Needs	Future Needs	Existing Needs	Future Needs	Existing Needs	Future Needs	1 = Treatment 2 = Transmission	1 = Treatment 2 = All Other
1	Sewer	Transmission	67%	33%	$ 692,695	$ 347,974	$ 3,112,526	$ 1,563,569	2	
2	Sewer	Collection								
3	Sewer	Treatment	94%	6%	19,075,262	1,304,291	26,685,845	1,824,673	1	
4	Sewer	Webster Lift Station #1	67%	33%	10,084	5,066	56,665	28,466	2	
5	Sewer	Webster Lift Station #2	67%	33%	16,674	8,376	42,007	21,102	2	
6	Sewer	Bridge Street Lift Station	67%	33%	102,768	51,625	98,771	49,617	2	
7	Water	Treatment	58%	42%	3,332,136	2,380,097	6,726,171	4,804,408		1
8	Water	Transmission	58%	42%	6,246,657	4,461,898	12,394,174	8,852,981		2
9	Water	Distribution								
10	Water	Woodson Drive Reservoir #3	58%	42%	83,446	59,604	1,198,990	856,422		2
11	Water	Ridge Road Reservoir #4	58%	42%	32,856	23,468	372,528	266,092		2
12	Water	Sherman Reservoir #5	58%	42%	744,574	531,838	1,154,791	824,851		2
13	Water	Heigland Loop Reservoir #6	58%	42%	664,650	474,750	1,089,070	777,907		2
14	Water	Ausland Reservoir	58%	42%	22,021	15,729	48,361	34,544		2
15	Water	Heigland Reservoir #8	58%	42%	508,824	363,446	792,242	565,887		2
16	Water	Denton Trail Reservoir #11	58%	42%	1,674,069	1,195,763	1,830,661	1,307,615		2
17	Water	Sunset Reservoir #13	0%	100%	-	260,850	-	510,267		2
18	Water	Highland Avenue Reservoir #15	58%	42%	594,125	424,375	925,885	661,347		2
19	Water	Hilltop Pump Station	58%	42%	35,697	25,498	38,336	27,383		2
20	Water	Williams Highway Pump Station	58%	42%	67,958	48,542	79,735	56,954		2
21	Water	Meadow Wood Pump Station	58%	42%	266,642	190,458	268,446	191,747		2
22	Water	New Hope Pump Station	58%	42%	304,186	217,275	305,856	218,468		2
23	Water	Beacon & Madrone Pump Station	58%	42%	24,612	17,580	74,610	53,293		2
24	Water	Beacon & Hefley Pump Station	58%	42%	166,250	118,750	164,070	117,193		2
25	Water	Starlite Pump Station	58%	42%	138,459	98,899	139,944	99,960		2
26	Water	Champion Pump Station	58%	42%	146,392	104,566	152,002	108,573		2
27	Water	Starview Pump Station	58%	42%	55,347	39,534	55,227	39,448		2
28	Water	Lawnridge Pump Station	58%	42%	72,625	51,875	73,719	52,657		2
29	Water	North Valley Pump Station	58%	42%	31,687	22,633	35,333	25,238		2
30	Water	Laurel Ridge Pump Station	58%	42%	57,517	41,083	58,802	42,002		2
31	Sewer	Treatment (To Serve Ultimate Capacity	62%	38%	2,364,894	1,435,106	2,511,132	1,523,849	1	

	Grand Total Plant-in-Service, Excluding Collection/Distribution:	ORIGINAL COST		REPLACEMENT COST	
		Sewer	Water	Sewer	Water
31	Plant-in-Service Currently In Use	$ 22,262,377	$ 15,270,728	$ 32,506,946	$ 27,978,954
32	Plant-in-Service Available for Future Needs	3,152,439	11,168,513	5,011,277	20,495,234
33	**GRAND TOTAL PLANT-IN-SERVICE**	**25,414,815**	**26,439,241**	**37,518,222**	**48,474,187**

	Breakdown of Sewer Plant-in-Service:	Treatment	Transmission	Treatment	Transmission
34	Plant-in-Service Currently In Use	$ 21,440,155	$ 822,221	$ 29,196,977	$ 3,309,968
35	Plant-in-Service Available for Future Needs	2,739,398	413,041	3,348,523	1,662,754

	Breakdown of Water Plant-in-Service:	Treatment	All Other	Treatment	All Other
36	Plant-in-Service Currently In Use	$ 3,332,136	$ 11,938,592	$ 6,726,171	$ 21,252,783
37	Plant-in-Service Available for Future Needs	2,380,097	8,788,416	4,804,408	15,690,826

Worksheet for Allocating Capital Improvement Projects

	Capital Improvement Plan					Inclusion in SDC	Allocation Rule Options: Only Need to Complete One Rule For Each Project								
							(1) Capacity Basis			(2) Customer Basis [a,b]			(3) Other Basis		
	Utility	Project	Timeframe	Original Estimate (Unadjusted for Future Inflation)	Cost Estimate Revised to 2004 Values [c]	Selected Allocation Rule (1, 2, or 3)	– or – Exclude from SDC? (Yes)	Total Capacity	Capacity Serving Existing Needs or Deficiencies	Capacity Available for Future Needs	Total Equivalent Units That Can Be Served	Existing Equivalent Units	Future Equivalent Units	Percent Used to Meet Existing Needs	Percent Available for Future Needs	Rationale
1	Sewer	Preliminary and Primary Treatment: Influent Pumping	2005-06	$ 560,000	$ 657,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
2	Sewer	Preliminary and Primary Treatment: Raw Sewage Pipeline to Ballasted Sedimentation	2005-06	240,000	282,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
3	Sewer	Preliminary and Primary Treatment: Mechanical Bar Screen No. 2	2005-06	230,000	230,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
4	Sewer	Preliminary and Primary Treatment: Modify Gravity Thickener to Ballasted Sedimentation	2005-06	3,510,000	4,121,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
5	Sewer	Preliminary and Primary Treatment: Modify Existing Primary to Combination Clarifier/Thickener	2005-06	610,000	716,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
6	Sewer	Preliminary and Primary Treatment: Yard Piping	2005-06	270,000	317,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
7	Sewer	Secondary Treatment: Rehabilitate Existing Clarifiers	2001-04	770,000	904,000		Yes			--			--		--	current vs. ultimate capacity [a]
8	Sewer	Aeration Basin Expansion	2007-09	2,400,000	2,400,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
9	Sewer	Effluent Filtrations	2007-09	1,700,000	1,700,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
10	Sewer	JoGro Expansion	2007-09	800,000	800,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
11	Sewer	Plant Biosolids Improvements	2007-09	700,000	700,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
12	Sewer	Secondary Treatment: New Secondary Clarifiers	2010-11	1,200,000	1,409,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
13	Sewer	Secondary Treatment: Yard Piping	2010-11	370,000	434,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
14	Sewer	Other Plant Improvements: SCADA System Expansion	2005-11	420,000	494,000	3				--			--	0%	100%	all for expanded capacity, per City communications 3/17/05
15	Sewer	Other Plant Improvements: Equipment Improvements from Audit Results	2005-11	150,000	313,000	2				--	18,800	11,700	7,100		--	current vs. ultimate capacity [a]
16	Sewer	Other Plant Improvements: Plant Landscaping	2005-11	60,000	90,000	2				--	18,800	11,700	7,100		--	current vs. ultimate capacity [a]
17	Sewer	Other Plant Improvements: Public Education Program	2005-11	30,000	35,000	2				--	18,800	11,700	7,100		--	current vs. ultimate capacity [a]
18	Sewer	Pine Street Sewer	2004-06	2,550,000	2,550,000	1		5.00	2.30	2.70			--		--	per City email 2/26/05
19	Sewer	Western Avenue Sewer	2006-09	1,460,000	1,460,000	1		5.90	0.80	5.10			--		--	per City email 2/26/05
20	Sewer	Pine Street Structural Repair	2009-11	1,110,000	1,110,000		Yes			--			--		--	per City worksheet, 2/25/05
21	Sewer	5th Street Structural Repair	2010-12	2,130,000	2,130,000		Yes			--			--		--	per City worksheet, 2/25/05
22	Sewer	7th Street Stuctural Repair	2013-15	1,460,000	1,460,000		Yes			--			--		--	per City worksheet, 2/25/05
23	Sewer	Lawnridge-Washington Structural Repair	2013-15	1,640,000	1,640,000		Yes			--			--		--	per City worksheet, 2/25/05
24	Sewer	Mill Street Sewer	2016-18	3,080,000	3,080,000	1		5.00	1.50	3.50			--		--	per City email 2/26/05
25	Sewer	Subbasin B/C Structural Repair	2016-18	1,230,000	1,230,000		Yes			--			--		--	per City worksheet, 2/25/05
26	Sewer	7th Street Relief System	2019-21	1,400,000	1,400,000	1		5.90	0.80	5.10			--		--	per City email 2/26/05
27	Sewer	Subbasin H Structural Repair	2019-21	1,210,000	1,210,000		Yes			--			--		--	per City 3/7/05
28	Sewer	Nebraska Avenue Sewer	2022-24	810,000	810,000	1		4.00	3.00	1.00			--		--	per City email 2/26/05

Worksheet for Allocating Capital Improvement Projects

	Capital Improvement Plan					Inclusion in SDC		Allocation Rule Options: Only Need to Complete One Rule For Each Project								
								(1) Capacity Basis			(2) Customer Basis [a,b]			(3) Other Basis		
	Utility	Project	Timeframe	Original Estimate (Unadjusted for Future Inflation)	Cost Estimate Revised to 2004 Values [c]	Selected Allocation Rule (1, 2, or 3)	-- or -- Exclude from SDC? (Yes)	Total Capacity	Capacity Serving Existing Needs or Deficiencies	Capacity Available for Future Needs	Total Equivalent Units That Can Be Served	Existing Equivalent Units	Future Equivalent Units	Percent Used to Meet Existing Needs	Percent Available for Future Needs	Rationale
29	Sewer	Accelerated Maintenance	2006-2024	920,000	920,000		Yes			--			--		--	
30	Water	Pump Stations: Hilltop/Harbeck Heights Fire Pumps	2005	60,000	69,000		Yes			--			--		--	per City worksheet, 2/25/05
31	Water	Pump Stations: Rogue Community College Pump Station	2006	245,000	280,000	3				--			--	0%	100%	per City meeting, 2/18/05
32	Water	Pipelines: Pressure zone boundary modifications	2000-05	100,000	112,076		Yes			--			--		--	per City worksheet, 2/25/05
33	Water	Pipelines: Pressure reduction valves	2000-05	130,000	145,699		Yes			--			--		--	per City worksheet, 2/25/05
34	Water	Pipelines: P-101 West Harbeck to Allen Creek	2005	54,000	62,000		Yes			--			--		--	per City worksheet, 2/25/05
35	Water	Pipelines: P-103 Leonard St Looping	2007	40,000	48,000		Yes			--			--		--	per City worksheet, 2/25/05
36	Water	Pipelines: P-104 Lower River Road	2007	75,000	86,000		Yes			--			--		--	per City worksheet, 2/25/05
37	Water	Pipelines: P-105 Prospect Ave Looping	2005	14,000	16,000		Yes			--			--		--	per City worksheet, 2/25/05
38	Water	Pipelines: P-106 Hawthorne to Crescent	2008	374,000	427,000	3				--			--	56%	44%	per City worksheet, 2/25/05
39	Water	Pipelines: P-107 9th to 10th at Midland	2005	122,000	139,000		Yes			--			--		--	per City worksheet, 2/25/05
40	Water	Pipelines: P-108 Sherman Ln to Tokay Heights	2005	227,000	257,000	3				--			--	56%	44%	per City worksheet, 2/25/05
41	Water	Pipelines: P-109 Marion Ln	2005	115,000	131,000		Yes			--			--		--	per City worksheet, 2/25/05
42	Water	Pipelines: P-110 C St to D St Loop	2005	49,000	156,000		Yes			--			--		--	per City worksheet, 2/25/05
43	Water	Pipelines: P-113 Bridge to Brownwell	2009	254,000	325,000		Yes			--			--		--	per City worksheet, 2/25/05
44	Water	Pipelines: P-114 Lincoln Rd Looping	2005	83,000	95,000	3				--			--	56%	44%	per City worksheet, 2/25/05
45	Water	Pipelines: P-115 10th and Savage Tie-In	2005	7,000	8,000		Yes			--			--		--	per City worksheet, 2/25/05
46	Water	Pipelines: P-202 Redwood Ave Looping North	2006	175,000	200,000	3				--			--	56%	44%	per City worksheet, 2/25/05
47	Water	Pipelines: P-203 Redwood Ave Looping South	2006	177,000	202,000	3				--			--	56%	44%	per City worksheet, 2/25/05
48	Water	Pipelines: P-204 Rogue Community College Ext	2000-05	577,000	646,680	3				--			--	25%	75%	per City worksheet, 2/25/05
49	Water	Pipelines: P-207 Williams Hwy Extension	2005	46,000	53,000	3				--			--	56%	44%	per City worksheet, 2/25/05
50	Water	Pipelines: P-220 Southeast N St Extension	2005	23,000	26,000	3				--			--	56%	44%	per City worksheet, 2/25/05
51	Water	Pipelines: P-221 Shannon Ln Extension	2005	48,000	55,000	3				--			--	56%	44%	per City worksheet, 2/25/05
52	Water	Pipelines: P-222 Lincoln Rd Extension	2007	103,000	118,000	3				--			--	56%	44%	per City worksheet, 2/25/05
53	Water	Pipelines: P-223 Ament Rd Extension	2007	660,000	754,000	3				--			--	56%	44%	per City worksheet, 2/25/05
54	Water	Pipelines: P-208 Williams Hwy Looping	2009	294,000	356,000	3				--			--	56%	44%	per City worksheet, 2/25/05
55	Water	Pipelines: P-214 Rogue River Hwy Extension	2008	655,000	749,000	3				--			--	56%	44%	per City worksheet, 2/25/05
56	Water	Pipelines: P-225 Starlite Extension	2010	100,000	114,000	3				--			--	56%	44%	per City worksheet, 2/25/05
57	Water	Pipeline Replacement: 12,500 feet	2005-10	1,124,000	1,259,738		Yes			--			--		--	per City worksheet, 2/25/05
58	Water	Water Storage: Reservoir No. 12	2011-12	1,710,000	1,955,000	1		18.00	10.50	7.50			--	0%	100%	current vs. ultimate capacity [b]

Worksheet for Allocating Capital Improvement Projects

	Capital Improvement Plan					Inclusion in SDC		Allocation Rule Options: Only Need to Complete One Rule For Each Project								
								(1) Capacity Basis			(2) Customer Basis [a,b]			(3) Other Basis		
	Utility	Project	Timeframe	Original Estimate (Unadjusted for Future Inflation)	Cost Estimate Revised to 2004 Values [c]	Selected Allocation Rule (1, 2, or 3)	– or – Exclude from SDC? (Yes)	Total Capacity	Capacity Serving Existing Needs or Deficiencies	Capacity Available for Future Needs	Total Equivalent Units That Can Be Served	Existing Equivalent Units	Future Equivalent Units	Percent Used to Meet Existing Needs	Percent Available for Future Needs	Rationale
59	Water	Water Storage: Reservoir No. 14	2013	850,000	972,000	1		18.00	10.50	7.50			–	0%	100%	current vs. ultimate capacity [b]
60	Water	Water Storage: Reservoir No. 16	2015	960,000	1,047,000	1		18.00	10.50	7.50			–	0%	100%	current vs. ultimate capacity [b]
61	Water	Water Storage: Reservoir No. 17	2017	1,350,000	1,543,000	1		18.00	10.50	7.50			–	0%	100%	current vs. ultimate capacity [b]
62	Water	Water Storage: Reservoir No. 13 (replacement)	2019	850,000	972,000		Yes			–			–		–	per City worksheet, 2/25/05
63	Water	Pipelines: P-206 Reservoir No. 12 Extension	2010-20	479,000	536,845	3				–			–	15%	85%	per City worksheet, 2/25/05
64	Water	Pipelines: P-209 Reservoir No. 17 Extension	2017	97,000	111,000	3				–			–	25%	75%	per City worksheet, 2/25/05
65	Water	Pipelines: P-215 Fruitdale Dr Extension	2010	780,000	892,000	3				–			–	25%	75%	per City worksheet, 2/25/05
66	Water	Pipelines: P-216 Cloverlawn Loop	2012	56,000	64,000	3				–			–	85%	15%	per City worksheet, 2/25/05
67	Water	Pipelines: P-218 Cloverlawn to Crestview Loop	2014	142,000	162,000	3				–			–	56%	44%	per City worksheet, 2/25/05
68	Water	Pipelines: P-219 Reservoir No. 16 Extension	2015	181,000	207,000	3				–			–	25%	75%	per City worksheet, 2/25/05
69	Water	Pipelines: P-226 Greenfield Rd Loop	2016	239,000	273,000	3				–			–	56%	44%	per City worksheet, 2/25/05
70	Water	Pipelines: P-229 Reservoir No. 14 Extension	2014	68,000	78,000	3				–			–	25%	75%	per City worksheet, 2/25/05
71	Water	Pipeline Replacement: 25,000 ft	2010-20	2,248,000	2,519,475		Yes			–			–		–	per City worksheet, 2/25/05
72	Water	Water Storage: Reservoir No. 10	> 2020	1,560,000	1,748,390	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
73	Water	Pump Stations: Treatment Plant Pumps	2023	400,000	457,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
74	Water	Pipelines: Reservoir No. 10 Extension	> 2020	184,000	206,220		Yes			–			–		–	per City worksheet, 2/25/05
75	Water	Treatment: Intake Modifications	2004-05	400,000	400,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
76	Water	Treatment: Intake Modifications	2005-06	500,000	500,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
77	Water	Treatment: Filter Upgrades	2005-06	200,000	200,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
78	Water	Treatment: Basin Modifications	2005-06	200,000	200,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
79	Water	Treatment: Intake Modifications	2006-07	700,000	700,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
80	Water	Treatment: Filter Upgrades	2006-07	400,000	400,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
81	Water	Treatment: Basin Modifications	2006-07	400,000	400,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
82	Water	Treatment: Filter Gallery Upgrades	2008-09	200,000	200,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
83	Water	Treatment: Filter Gallery Upgrades	2009-10	480,000	480,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
84	Water	Treatment: Chemical System Upgrades	2009-10	50,000	50,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
85	Water	Treatment: Chemical System Upgrades	2010-11	130,000	130,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
86	Water	Treatment: Sludge Removal Systems	2010-11	75,000	75,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
87	Water	Treatment: New Storage Building	2010-11	25,000	25,000		Yes			–			–		–	per City staff 3/7/05
88	Water	Treatment: Sludge Removal Systems	2011-12	225,000	225,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
89	Water	Treatment: New Storage Building	2011-12	50,000	50,000	1		18.00	10.50	7.50			–		–	current vs. ultimate capacity [b]
90	Water	Solids Handling	2008	800,000	800,000	1		18.00	10.50	7.50			–		–	
91	Water	Treatment: Emergency Generator for 5 MGD	2012-13	300,000	300,000		Yes			–			–		–	per City staff 3/7/05
GRAND TOTAL, SEWER				$ 33,020,000	$ 34,602,000											

Worksheet for Allocating Capital Improvement Projects

Capital Improvement Plan					Inclusion in SDC		Allocation Rule Options: Only Need to Complete One Rule For Each Project								
							(1) Capacity Basis			(2) Customer Basis [a,b]			(3) Other Basis		
Utility	Project	Timeframe	Original Estimate (Unadjusted for Future Inflation)	Cost Estimate Revised to 2004 Values [c]	Selected Allocation Rule (1, 2, or 3)	– or – Exclude from SDC? (Yes)	Total Capacity	Capacity Serving Existing Needs or Deficiencies	Capacity Available for Future Needs	Total Equivalent Units That Can Be Served	Existing Equivalent Units	Future Equivalent Units	Percent Used to Meet Existing Needs	Percent Available for Future Needs	Rationale
GRAND TOTAL, WATER			$ 23,220,000	$ 25,767,125											

Data Sources:

Sewer treatment projects: Grants Pass Facilities Plan - Update, Revised April 2000, Preferred Alternative, Table ES-6, including hand-written revisions provided in 2004. Also, City communications dated 2/26/05.

Sewer collection projects: City of Grants pass Collection System Master Plan, September 2004, Table ES-1.

Water distribution projects: Grants Pass Water Distribution System Master Plan, January 2001, Tables 7-4, 7-5, 7-6, and 7-7, including hand-written notes.

Water treatment projects: City of Grants Pass Water Treatment Plan Facility Plan, April 2004, Tables ES-1 and ES-2, including hand-written notes.

>>> Costs entered above for all projects reconcile to totals in the data sources cited. <<<

Notes:

[a] Accounts are used, as provided in City communications, 2/26/05:

Treatment: 11,700 current accounts; 18,800 served at ultimate capacity. >> 62% for existing needs; 38% for future needs and eligible for the SDC.

[b] Per City meeting, 2/18/05:

Treatment and Pumping Capacity: 10.5 MGD current demand; 18.0 MGD plant capacity. >> 58% for existing needs; 42% for future needs and eligible for the SDC.

[c] Original cost estimates have been revised from the year published to June 2004 using *Engineering News Record* Construction Cost Index History, as follows, unless directly entered from current engineering estimates provided by Parametrix 3/11/05:

For 2000 Publication: 2000 ENR Index of:	6221	= Multiplier of: 1.14
For 2001 Publication: 2001 ENR Index of:	6343	= Multiplier of: 1.12
For 2004 Publication: June 2004 ENR Index of:	7109	= Multiplier of: 1.00

Allocated Capital Improvement Projects

	Capital Improvement Plan		Allocation Percentage		Allocated Cost Estimate		Sewer Functions	Water Functions	Excluded Projects
	Utility	Project	Existing Needs	Future Needs	Existing Needs	Future Needs	1 = Treatment 2 = Transmission	1 = Treatment 2 = All Other	Cost Estimate
1	Sewer	Preliminary and Primary Treatment: Influent Pumping	0%	100%	$ -	$ 657,000	1		$ -
2	Sewer	Preliminary and Primary Treatment: Raw Sewage Pipeline to Ballasted Sedimentation	0%	100%	-	282,000	1		$ -
3	Sewer	Preliminary and Primary Treatment: Mechanical Bar Screen No. 2	0%	100%	-	230,000	1		$ -
4	Sewer	Preliminary and Primary Treatment: Modify Gravity Thickener to Ballasted Sedimentation	0%	100%	-	4,121,000	1		$ -
5	Sewer	Preliminary and Primary Treatment: Modify Existing Primary to Combination Clarifier/Thickener	0%	100%	-	716,000	1		$ -
6	Sewer	Preliminary and Primary Treatment: Yard Piping	0%	100%	-	317,000	1		$ -
7	Sewer	Secondary Treatment: Rehabilitate Existing Clarifiers	0%	0%	-	-	1		$ 904,000
8	Sewer	Aeration Basin Expansion	0%	100%	-	2,400,000	1		$ -
9	Sewer	Effluent Filtrations	0%	100%	-	1,700,000	1		$ -
10	Sewer	JoGro Expansion	0%	100%	-	800,000	1		$ -
11	Sewer	Plant Biosolids Improvements	0%	100%	-	700,000	1		$ -
8	Sewer	Secondary Treatment: New Secondary Clarifiers	0%	100%	-	1,409,000	1		$ -
9	Sewer	Secondary Treatment: Yard Piping	0%	100%	-	434,000	1		$ -
10	Sewer	Other Plant Improvements: SCADA System Expansion	0%	100%	-	494,000	1		$ -
11	Sewer	Other Plant Improvements: Equipment Improvements from Audit Results	62%	38%	194,793	118,207	1		$ -
12	Sewer	Other Plant Improvements: Plant Landscaping	62%	38%	56,011	33,989	1		$ -
13	Sewer	Other Plant Improvements: Public Education Program	62%	38%	21,782	13,218	1		$ -
14	Sewer	Pine Street Sewer	46%	54%	1,173,000	1,377,000	2		$ -
15	Sewer	Western Avenue Sewer	14%	86%	197,966	1,262,034	2		$ -
16	Sewer	Pine Street Structural Repair	0%	0%	-	-	2		$ 1,110,000
17	Sewer	5th Street Structural Repair	0%	0%	-	-	2		$ 2,130,000
18	Sewer	7th Street Stuctural Repair	0%	0%	-	-	2		$ 1,460,000
19	Sewer	Lawnridge-Washington Structural Repair	0%	0%	-	-	2		$ 1,640,000
20	Sewer	Mill Street Sewer	30%	70%	924,000	2,156,000	2		$ -
21	Sewer	Subbasin B/C Structural Repair	0%	0%	-	-	2		$ 1,230,000
22	Sewer	7th Street Relief System	14%	86%	189,831	1,210,169	2		$ -
23	Sewer	Subbasin H Structural Repair	0%	0%	-	-	2		$ 1,210,000
24	Sewer	Nebraska Avenue Sewer	75%	25%	607,500	202,500	2		$ -

Allocated Capital Improvement Projects

	Capital Improvement Plan		Allocation Percentage		Allocated Cost Estimate		Sewer Functions	Water Functions	Excluded Projects
	Utility	Project	Existing Needs	Future Needs	Existing Needs	Future Needs	1 = Treatment 2 = Transmission	1 = Treatment 2 = All Other	Cost Estimate
25	Sewer	Accelerated Maintenance	0%	0%	-	-	2		$ 920,000
26	Water	Pump Stations: Hilltop/Harbeck Heights Fire Pumps	0%	0%	-	-		2	$ 69,000
27	Water	Pump Stations: Rogue Community College Pump Station	0%	100%	-	280,000		2	$ -
28	Water	Pipelines: Pressure zone boundary modifications	0%	0%	-	-		2	$ 112,076
29	Water	Pipelines: Pressure reduction valves	0%	0%	-	-		2	$ 145,699
30	Water	Pipelines: P-101 West Harbeck to Allen Creek	0%	0%	-	-		2	$ 62,000
31	Water	Pipelines: P-103 Leonard St Looping	0%	0%	-	-		2	$ 46,000
32	Water	Pipelines: P-104 Lower River Road	0%	0%	-	-		2	$ 86,000
33	Water	Pipelines: P-105 Prospect Ave Looping	0%	0%	-	-		2	$ 16,000
34	Water	Pipelines: P-106 Hawthorne to Crescent	56%	44%	239,120	187,880		2	$ -
35	Water	Pipelines: P-107 9th to 10th at Midland	0%	0%	-	-		2	$ 139,000
36	Water	Pipelines: P-108 Sherman Ln to Tokay Heights	56%	44%	143,920	113,080		2	$ -
37	Water	Pipelines: P-109 Marion Ln	0%	0%	-	-		2	$ 131,000
38	Water	Pipelines: P-110 C St to D St Loop	0%	0%	-	-		2	$ 156,000
39	Water	Pipelines: P-113 Bridge to Brownwell	0%	0%	-	-		2	$ 325,000
40	Water	Pipelines: P-114 Lincoln Rd Looping	56%	44%	53,200	41,800		2	$ -
41	Water	Pipelines: P-115 10th and Savage Tie-In	0%	0%	-	-		2	$ 8,000
42	Water	Pipelines: P-202 Redwood Ave Looping North	56%	44%	112,000	88,000		2	$ -
43	Water	Pipelines: P-203 Redwood Ave Looping South	56%	44%	113,120	88,880		2	$ -
44	Water	Pipelines: P-204 Rogue Community College Ext	25%	75%	161,670	485,010		2	$ -
45	Water	Pipelines: P-207 Williams Hwy Extension	56%	44%	29,680	23,320		2	$ -
46	Water	Pipelines: P-220 Southeast N St Extension	56%	44%	14,560	11,440		2	$ -
47	Water	Pipelines: P-221 Shannon Ln Extension	56%	44%	30,800	24,200		2	$ -
48	Water	Pipelines: P-222 Lincoln Rd Extension	56%	44%	66,080	51,920		2	$ -
49	Water	Pipelines: P-223 Ament Rd Extension	56%	44%	422,240	331,760		2	$ -
50	Water	Pipelines: P-208 Williams Hwy Looping	56%	44%	199,360	156,640		2	$ -
51	Water	Pipelines: P-214 Rogue River Hwy Extension	56%	44%	419,440	329,560		2	$ -
52	Water	Pipelines: P-225 Starlite Extension	56%	44%	63,840	50,160		2	$ -
53	Water	Pipeline Replacement: 12,500 feet	0%	0%	-	-		2	$ 1,259,738
54	Water	Water Storage: Reservoir No. 12	58%	42%	1,140,417	814,583		2	$ -

Allocated Capital Improvement Projects

	Capital Improvement Plan		Allocation Percentage		Allocated Cost Estimate		Sewer Functions	Water Functions	Excluded Projects
	Utility	Project	Existing Needs	Future Needs	Existing Needs	Future Needs	1 = Treatment 2 = Transmission	1 = Treatment 2 = All Other	Cost Estimate
55	Water	Water Storage: Reservoir No. 14	58%	42%	567,000	405,000		2	$ -
56	Water	Water Storage: Reservoir No. 16	58%	42%	610,750	436,250		2	$ -
57	Water	Water Storage: Reservoir No. 17	58%	42%	900,083	642,917		2	$ -
58	Water	Water Storage: Reservoir No. 13 (replacement)	0%	0%	-	-		2	$ 972,000
59	Water	Pipelines: P-206 Reservoir No. 12 Extension	15%	85%	80,527	456,319		2	$ -
60	Water	Pipelines: P-209 Reservoir No. 17 Extension	25%	75%	27,750	83,250		2	$ -
61	Water	Pipelines: P-215 Fruitdale Dr Extension	25%	75%	223,000	669,000		2	$ -
62	Water	Pipelines: P-216 Cloverlawn Loop	85%	15%	54,613	9,387		2	$ -
63	Water	Pipelines: P-218 Cloverlawn to Crestview Loop	56%	44%	90,720	71,280		2	$ -
64	Water	Pipelines: P-219 Reservoir No. 16 Extension	25%	75%	51,750	155,250		2	$ -
65	Water	Pipelines: P-226 Greenfield Rd Loop	56%	44%	152,880	120,120		2	$ -
66	Water	Pipelines: P-229 Reservoir No. 14 Extension	25%	75%	19,500	58,500		2	$ -
67	Water	Pipeline Replacement: 25,000 ft	0%	0%	-	-		2	$ 2,519,475
68	Water	Water Storage: Reservoir No. 10	58%	42%	1,019,894	728,496		2	$ -
69	Water	Pump Stations: Treatment Plant Pumps	58%	42%	266,583	190,417		2	$ -
70	Water	Pipelines: Reservoir No. 10 Extension	0%	0%	-	-		2	$ 206,220
71	Water	Treatment: Intake Modifications	58%	42%	233,333	166,667		1	$ -
72	Water	Treatment: Intake Modifications	58%	42%	291,667	208,333		1	$ -
73	Water	Treatment: Filter Upgrades	58%	42%	116,667	83,333		1	$ -
74	Water	Treatment: Basin Modifications	58%	42%	116,667	83,333		1	$ -
75	Water	Treatment: Intake Modifications	58%	42%	408,333	291,667		1	$ -
76	Water	Treatment: Filter Upgrades	58%	42%	233,333	166,667		1	$ -
77	Water	Treatment: Basin Modifications	58%	42%	233,333	166,667		1	$ -
78	Water	Treatment: Filter Gallery Upgrades	58%	42%	116,667	83,333		1	$ -
79	Water	Treatment: Filter Gallery Upgrades	58%	42%	280,000	200,000		1	$ -
80	Water	Treatment: Chemical System Upgrades	58%	42%	29,167	20,833		1	$ -
81	Water	Treatment: Chemical System Upgrades	58%	42%	75,833	54,167		1	$ -
82	Water	Treatment: Sludge Removal Systems	58%	42%	43,750	31,250		1	$ -
83	Water	Treatment: New Storage Building	0%	0%	-	-		1	$ 25,000
84	Water	Treatment: Sludge Removal Systems	58%	42%	131,250	93,750		1	$ -
85	Water	Treatment: New Storage Building	58%	42%	29,167	20,833		1	$ -
86	Water	Solids Handling	58%	42%	466,667	333,333		1	$ -
87	Water	Treatment: Emergency Generator for 5 MGD	0%	0%	-	-		1	$ 300,000

Allocated Capital Improvement Projects

	Capital Improvement Plan		Allocation Percentage		Allocated Cost Estimate		Sewer Functions	Water Functions	Excluded Projects
	Utility	*Project*	*Existing Needs*	*Future Needs*	Existing Needs	Future Needs	1 = Treatment 2 = Transmission	1 = Treatment 2 = All Other	*Cost Estimate*
	Grand Total Capital Projects, Excluding Replacements, Donations, Etc.:				**Sewer**	**Water**			
88	Capital Projects for Existing Needs				$ 3,364,882	$ 10,080,331			
89	Capital Projects for Future Needs				20,633,118	9,108,585			
90	**GRAND TOTAL CAPITAL PROJECTS**				**23,998,000**	**19,188,916**			
	Breakdown of Sewer Capital Projects:				**Treatment**	**Transmission**			
91	Capital Projects for Existing Needs				$ 272,585	$ 3,092,297			
92	Capital Projects for Future Needs				14,425,415	6,207,703			
	Breakdown of Water Capital Projects:				**Treatment**	**All Other**			
93	Capital Projects for Existing Needs				$ 2,805,833	$ 7,274,498			
94	Capital Projects for Future Needs				$ 2,004,167	$ 7,104,418			
	Excluded Projects:				**Sewer**	**Water**			
95	Total				$ 10,604,000	$ 6,578,209			

Sewer Capital Improvement Program	Timeframe	Cost Estimate (as of 2004)	To Meet Existing Needs	To Meet Future Needs	Replacement Only
1 Preliminary and Primary Treatment:Influent Pumping	2005-06	$ 657,000	$ -	$ 657,000	$ -
2 Preliminary and Primary Treatment:Raw Sewage Pipeline to Ballasted Sedimentation	2005-06	282,000	-	282,000	-
3 Preliminary and Primary Treatment:Mechanical Bar Screen No. 2	2005-06	230,000	-	230,000	-
4 Preliminary and Primary Treatment:Modify Gravity Thickener to Ballasted Sedimentation	2005-06	4,121,000	-	4,121,000	-
5 Preliminary and Primary Treatment:Modify Existing Primary to Combination Clarifier/Thickener	2005-06	716,000	-	716,000	-
6 Preliminary and Primary Treatment:Yard Piping	2005-06	317,000	-	317,000	-
7 Secondary Treatment: Rehabilitate Existing Clarifiers	2001-04	904,000	-	-	904,000
8 Aeration Basin Expansion	2007-09	2,400,000	-	2,400,000	-
9 Effluent Filtrations	2007-09	1,700,000	-	1,700,000	-
10 JoGro Expansion	2007-09	800,000	-	800,000	-
11 Plant Biosolids Improvements	2007-09	700,000	-	700,000	-
12 Secondary Treatment: New Secondary Clarifiers	2010-11	1,409,000	-	1,409,000	-
13 Secondary Treatment: Yard Piping	2010-11	434,000	-	434,000	-
14 Other Plant Improvements: SCADA System Expansion	2005-11	494,000	-	494,000	-
15 Other Plant Improvements: Equipment Improvements from Audit Results	2005-11	313,000	194,793	118,207	-
16 Other Plant Improvements: Plant Landscaping	2005-11	90,000	56,011	33,989	-
17 Other Plant Improvements: Public Education Program	2005-11	35,000	21,782	13,218	-
18 Pine Street Sewer	2004-06	2,550,000	1,173,000	1,377,000	-
19 Western Avenue Sewer	2006-09	1,460,000	197,966	1,262,034	-
20 Pine Street Structural Repair	2009-11	1,110,000	-	-	1,110,000
21 5th Street Structural Repair	2010-12	2,130,000	-	-	2,130,000
22 7th Street Stuctural Repair	2013-15	1,460,000	-	-	1,460,000
23 Lawnridge-Washington Structural Repair	2013-15	1,640,000	-	-	1,640,000
24 Mill Street Sewer	2016-18	3,080,000	924,000	2,156,000	-
25 Subbasin B/C Structural Repair	2016-18	1,230,000	-	-	1,230,000
26 7th Street Relief System	2019-21	1,400,000	189,831	1,210,169	-
27 Subbasin H Structural Repair	2019-21	1,210,000	-	-	1,210,000
28 Nebraska Avenue Sewer	2022-24	810,000	607,500	202,500	-
29 Accelerated Maintenance	2006-2024	920,000	-	-	920,000
TOTAL SEWER CAPITAL IMPROVEMENT PROGRAM		**$ 34,602,000**	**$ 3,364,882**	**$ 20,633,118**	**$ 10,604,000**

Water Capital Improvement Program	Timeframe	Cost Estimate (as of 2004)	To Meet Existing Needs	To Meet Future Needs	Replacement Only
1 Pump Stations: Hilltop/Harbeck Heights Fire Pumps	2005	$ 69,000	$ -	$ -	$ 69,000
2 Pump Stations: Rogue Community College Pump Station	2006	280,000	-	280,000	-
3 Pipelines: Pressure zone boundary modifications	2000-05	112,076	-	-	112,076
4 Pipelines: Pressure reduction valves	2000-05	145,699	-	-	145,699
5 Pipelines: P-101 West Harbeck to Allen Creek	2005	62,000	-	-	62,000
6 Pipelines: P-103 Leonard St Looping	2007	46,000	-	-	46,000
7 Pipelines: P-104 Lower River Road	2007	86,000	-	-	86,000
8 Pipelines: P-105 Prospect Ave Looping	2005	16,000	-	-	16,000
9 Pipelines: P-106 Hawthorne to Crescent	2008	427,000	239,120	187,880	-
10 Pipelines: P-107 9th to 10th at Midland	2005	139,000	-	-	139,000
11 Pipelines: P-108 Sherman Ln to Tokay Heights	2005	257,000	143,920	113,080	-
12 Pipelines: P-109 Marion Ln	2005	131,000	-	-	131,000
13 Pipelines: P-110 C St to D St Loop	2005	156,000	-	-	156,000
14 Pipelines: P-113 Bridge to Brownwell	2009	325,000	-	-	325,000
15 Pipelines: P-114 Lincoln Rd Looping	2005	95,000	53,200	41,800	-
16 Pipelines: P-115 10th and Savage Tie-In	2005	8,000	-	-	8,000
17 Pipelines: P-202 Redwood Ave Looping North	2006	200,000	112,000	88,000	-
18 Pipelines: P-203 Redwood Ave Looping South	2006	202,000	113,120	88,880	-
19 Pipelines: P-204 Rogue Community College Ext	2000-05	646,680	161,670	485,010	-
20 Pipelines: P-207 Williams Hwy Extension	2005	53,000	29,680	23,320	-
21 Pipelines: P-220 Southeast N St Extension	2005	26,000	14,560	11,440	-
22 Pipelines: P-221 Shannon Ln Extension	2005	55,000	30,800	24,200	-
23 Pipelines: P-222 Lincoln Rd Extension	2007	118,000	66,080	51,920	-
24 Pipelines: P-223 Arnent Rd Extension	2007	754,000	422,240	331,760	-
25 Pipelines: P-208 Williams Hwy Looping	2009	356,000	199,360	156,640	-
26 Pipelines: P-214 Rogue River Hwy Extension	2008	749,000	419,440	329,560	-
27 Pipelines: P-225 Starlite Extension	2010	114,000	63,840	50,160	-
28 Pipeline Replacement: 12,500 feet	2005-10	1,259,738	-	-	1,259,738
29 Water Storage: Reservoir No. 12	2011-12	1,955,000	1,140,417	814,583	-
30 Water Storage: Reservoir No. 14	2013	972,000	567,000	405,000	-
31 Water Storage: Reservoir No. 16	2015	1,047,000	610,750	436,250	-
32 Water Storage: Reservoir No. 17	2017	1,543,000	900,083	642,917	-

Continued from Prior Page: Water Capital Improvement Program	Timeframe	Cost Estimate (as of 2004)	To Meet Existing Needs	To Meet Future Needs	Replacement Only
33 Water Storage: Reservoir No. 13 (replacement)	2019	972,000	-	-	972,000
34 Pipelines: P-206 Reservoir No. 12 Extension	2010-20	536,845	80,527	456,319	-
35 Pipelines: P-209 Reservoir No. 17 Extension	2017	111,000	27,750	83,250	-
36 Pipelines: P-215 Fruitdale Dr Extension	2010	892,000	223,000	669,000	-
37 Pipelines: P-216 Cloverlawn Loop	2012	64,000	54,613	9,387	-
38 Pipelines: P-218 Cloverlawn to Crestview Loop	2014	162,000	90,720	71,280	-
39 Pipelines: P-219 Reservoir No. 16 Extension	2015	207,000	51,750	155,250	-
40 Pipelines: P-226 Greenfield Rd Loop	2016	273,000	152,880	120,120	-
41 Pipelines: P-229 Reservoir No. 14 Extension	2014	78,000	19,500	58,500	-
42 Pipeline Replacement: 25,000 ft	2010-20	2,519,475	-	-	2,519,475
43 Water Storage: Reservoir No. 10	> 2020	1,748,390	1,019,894	728,496	-
44 Pump Stations: Treatment Plant Pumps	2023	457,000	266,583	190,417	-
45 Pipelines: Reservoir No. 10 Extension	> 2020	206,220	-	-	206,220
46 Treatment: Intake Modifications	2004-05	400,000	233,333	166,667	-
47 Treatment: Intake Modifications	2005-06	500,000	291,667	208,333	-
48 Treatment: Filter Upgrades	2005-06	200,000	116,667	83,333	-
49 Treatment: Basin Modifications	2005-06	200,000	116,667	83,333	-
50 Treatment: Intake Modifications	2006-07	700,000	408,333	291,667	-
51 Treatment: Filter Upgrades	2006-07	400,000	233,333	166,667	-
52 Treatment: Basin Modifications	2006-07	400,000	233,333	166,667	-
53 Treatment: Filter Gallery Upgrades	2008-09	200,000	116,667	83,333	-
54 Treatment: Filter Gallery Upgrades	2009-10	480,000	280,000	200,000	-
55 Treatment: Chemical System Upgrades	2009-10	50,000	29,167	20,833	-
56 Treatment: Chemical System Upgrades	2010-11	130,000	75,833	54,167	-
57 Treatment: Sludge Removal Systems	2010-11	75,000	43,750	31,250	-
58 Treatment: New Storage Building	2010-11	25,000	-	-	25,000
59 Treatment: Sludge Removal Systems	2011-12	225,000	131,250	93,750	-
60 Treatment: New Storage Building	2011-12	50,000	29,167	20,833	-
61 Solids Handling	2008	800,000	466,667	333,333	-
62 Treatment: Emergency Generator for 5 MGD	2012-13	300,000	-	-	300,000
TOTAL WATER CAPITAL IMPROVEMENT PROGRAM		**$ 25,767,125**	**$ 10,080,331**	**$ 9,108,585**	**$ 6,578,209**

Sewer Capacity Calculations [a]

	Total Service Area		Excluding RSSD	
Current Accounts	11,700	62%	10,011	67%
Accounts Served by Future Expanded Capacity	18,800	38%	15,040	33%
PERCENT GROWTH ACCOMMODATED	**60.7%**	for treatment	**50.2%**	for transmission

Sewer Treatment Plant Capacity Calculations [a]

	Total Service Area	
Current Accounts	11,700	94%
Accounts Served by Existing Treatment Capacity	12,500	6%
PERCENT GROWTH ACCOMMODATED	**6.8%**	for existing treatment

Water Treatment & Pumping Capacity [b]

Current Demand (MGD)	10.5	58%
Plant Capacity (MGD)	18.0	42%
PERCENT GROWTH ACCOMMODATED	**71.4%**	for all

Calculation of Current Sewer Equivalent Service Units

Annual Rate Revenues, City [d]	$ 2,076,653
Residential Volume Rate, City	$ 1.50
Winter Average Water Consumption per Month (ccf) [f]	7.50
Estimated In-City Equivalent Units	15,383
Accounts, City	9,639
Ratio: Equivalent Units to Accounts	1.60
Accounts, RSSD	1,689
Estimated RSSD Equivalent Units	2,695
ESTIMATED EQUIVALENT UNITS (TOTAL)	**18,078**
ESTIMATED EQUIVALENT UNITS (EXCLUDING RSSD)	**15,383**

Calculation of Current Water Equivalent Service Units

Water Meter Size	Total Meters [d]	Fire Standby Meters Only [d]	Applicable Meters for SDC [e]	Flow Factor [c]	Meter Equivalents for SDC
3/4-inch	8,004	-	8,004	1.00	8,004
1-inch	363	-	363	2.50	908
1.5-inch	157	-	157	5.00	785
2-inch	128	5	123	8.00	984
3-inch	35	3	32	16.00	512
4-inch	43	36	7	25.00	175
6-inch	42	40	2	50.00	100
8-inch	22	22	-	80.00	-
10-inch	10	10	-	115.00	-
TOTAL EQUIVALENT UNITS	**8,804**	**116**	**8,688**		**11,468**

Data Sources:

[a] City communications, 2/26/05. RSSD is currently 1,689 accounts; at build-out, RSSD will be 3,760.

[b] Per City meeting, 2/18/05.

[c] American WaterWorks Association meter flow standards.

[d] City customer data worksheet provided 2/25/05.

[e] Table above excludes fire standby lines, which are considered part of Fire Protection, not customer demand.

[f] Utility Billing Information report from City staff, 2/18/05.

APPENDIX B

WATER SDC COMPUTATION

Water System Capacity - Alternative 1: Original Cost of Existing Plant-in-Service

Equivalent Service Units:	Treatment	Transm. & Storage	
Total System Capacity	19,659	19,659	[d]
less: Capacity in Use	(11,468)	(11,468)	
Capacity Available for Growth	**8,191**	**8,191**	

Water Cost Basis - Alternative 1: Original Cost of Existing Plant-in-Service

	Total	Treatment Facilities		Transmission & Storage Facilities		
		For Existing Needs	For Future Needs	For Existing Needs	For Future Needs	
Plant-in-Service:		(EXCLUDED FROM SDC)	(INCLUDED IN THE SDC)	(EXCLUDED FROM SDC)	(INCLUDED IN THE SDC)	
Total Plant-in-Service (Original Cost)	$ 52,936,290					
less: Local Distribution System Assets	(26,497,049)					
Total Plant-in-Service: General Facilities Only	26,439,241	3,332,136	2,380,097	11,938,592	8,788,416	
less: Contributed Capital	-	-	-	-	-	[a]
less: Outstanding Debt in Excess of Cash Reserves:						
Outstanding Debt	2,800,000	352,884	252,060	1,264,335	930,721	[b]
Cash Reserves	1,051,726	132,549	94,678	474,905	349,594	[c]
Deductible Debt Obligation	(1,748,274)	(220,335)	(157,382)	(789,430)	(581,127)	
Allocable Plant-in-Service Cost Basis	**24,690,966**	**3,111,801**	**2,222,715**	**11,149,162**	**8,207,288**	
Future Improvements:						
Total Capital Improvement Plan	$ 25,767,125					
less: Replacement Projects	(6,578,209)					
less: Developer Donations/Local Distribution Projects	-					
Net Future Improvements	19,188,916	2,805,833	2,004,167	7,274,498	7,104,418	
less: SDC Fund Balance	(804,260)	-	(176,962)	-	(627,298)	[e]
Allocable Future Improvements Cost Basis	**18,384,656**	**2,805,833**	**1,827,205**	**7,274,498**	**6,477,120**	

Water System Development Charge Calculation - Alternative 1: Original Cost of Existing Plant-in-Service

		Treatment Facilities		*Transmission & Storage Facilities*	
	Total Fee	Reimbursement Fee	Improvement Fee	Reimbursement Fee	Improvement Fee
Plant-in-Service Available to Serve Future Needs	$ 10,430,003	$ 2,222,715	--	$ 8,207,288	--
Future Improvements to Serve Future Needs	$ 8,304,325	--	$ 1,827,205	--	$ 6,477,120
Future Capacity Served	varies based on function	8,191	8,191	8,191	8,191
TOTAL SDC PER EQUIVALENT UNIT	**$ 2,287**	**$ 271**	**$ 223**	**$ 1,002**	**$ 791**

Water SDCs - Alternative 1: Original Cost of Existing Plant-in-Service

		Treatment Facilities		Transmission & Storage Facilities	
WATER METER SIZE:	Total Fee	Reimbursement Fee	Improvement Fee	Reimbursement Fee	Improvement Fee
3/4-inch	$2,287	$271	$223	$1,002	$791
1-inch	$5,718	$678	$558	$2,505	$1,977
1.5-inch	$11,436	$1,357	$1,115	$5,010	$3,954
2-inch	$18,297	$2,171	$1,785	$8,016	$6,326
3-inch	$36,595	$4,342	$3,569	$16,032	$12,652
4-inch	$57,179	$6,784	$5,577	$25,049	$19,769
6-inch	$114,358	$13,568	$11,154	$50,099	$39,538
8-inch	$182,973	$21,709	$17,846	$80,158	$63,260
10-inch	$263,024	$31,206	$25,653	$115,228	$90,937

Water System Capacity - Alternative 2: Replacement Cost Net of Depreciation of Existing Plant-in-Service

Equivalent Service Units:	Treatment	Transm. & Storage	
Total System Capacity	19,659	19,659	[d]
less: Capacity in Use	(11,468)	(11,468)	
Capacity Available for Growth	**8,191**	**8,191**	

Water Cost Basis - Alternative 2: Replacement Cost Net of Depreciation of Existing Plant-in-Service

			Treatment Facilities		Transmission & Storage Facilities		
		Total	For Existing Needs (EXCLUDED FROM SDC)	For Future Needs (INCLUDED IN THE SDC)	For Existing Needs (EXCLUDED FROM SDC)	For Future Needs (INCLUDED IN THE SDC)	
Plant-in-Service:							
Total Plant-in-Service (Net Replacement Cost)	$	110,394,372					
less: Local Distribution System Assets		(61,920,185)					
Total Plant-in-Service: General Facilities Only		48,474,187	6,726,171	4,804,408	21,252,783	15,690,826	
less: Contributed Capital		-	-	-	-	-	[a]
less: Outstanding Debt in Excess of Cash Reserves:							
Outstanding Debt		2,800,000	388,522	277,516	1,227,618	906,345	[b]
Cash Reserves		1,051,726	145,935	104,239	461,113	340,438	[c]
Deductible Debt Obligation		(1,748,274)	(242,587)	(173,276)	(766,505)	(565,907)	
Allocable Plant-in-Service Cost Basis		**46,725,913**	**6,483,584**	**4,631,131**	**20,486,278**	**15,124,919**	
Future Improvements:							
Total Capital Improvement Plan	$	25,767,125					
less: Replacement Projects		(6,578,209)					
less: Developer Donations/Local Distribution Projects		-					
Net Future Improvements		19,188,916	2,805,833	2,004,167	7,274,498	7,104,418	
less: SDC Fund Balance		(804,260)	-	(176,962)	-	(627,298)	[e]
Allocable Future Improvements Cost Basis		**18,384,656**	**2,805,833**	**1,827,205**	**7,274,498**	**6,477,120**	

Water System Development Charge Calculation - Alternative 2: Replacement Cost Net of Depreciation of Existing Plant-in-Service

		Treatment Facilities		Transmission & Storage Facilities	
	Total Fee	Reimbursement Fee	Improvement Fee	Reimbursement Fee	Improvement Fee
Plant-in-Service Available to Serve Future Needs	$ 19,756,051	$ 4,631,131	--	$ 15,124,919	--
Future Improvements to Serve Future Needs	$ 8,304,325	--	$ 1,827,205	--	$ 6,477,120
Future Capacity Served	varies based on function	8,191	8,191	8,191	8,191
TOTAL SDC PER EQUIVALENT UNIT	**$ 3,426**	**$ 565**	**$ 223**	**$ 1,847**	**$ 791**

Water SDCs - Alternative 2: Replacement Cost Net of Depreciation of Existing Plant-in-Service

		Treatment Facilities		Transmission & Storage Facilities	
WATER METER SIZE:	Total Fee	Reimbursement Fee	Improvement Fee	Reimbursement Fee	Improvement Fee
3/4-inch	$3,426	$565	$223	$1,847	$791
1-inch	$8,564	$1,413	$558	$4,616	$1,977
1.5-inch	$17,129	$2,827	$1,115	$9,233	$3,954
2-inch	$27,406	$4,523	$1,785	$14,772	$6,326
3-inch	$54,812	$9,046	$3,569	$29,544	$12,652
4-inch	$85,643	$14,135	$5,577	$46,163	$19,769
6-inch	$171,286	$28,269	$11,154	$92,326	$39,538
8-inch	$274,058	$45,231	$17,846	$147,721	$63,260
10-inch	$393,959	$65,020	$25,653	$212,349	$90,937

Data Sources/Notes:

[a] FY 1998 Balance Sheet, Fund 750, Fund Balance/Contributed Capital: $5,535,378; may already be deducted through exclusion of local systems.
[b] FY 2004 Balance Sheet, Fund 750, Bonds Payable-Noncurrent/1998 Water Bonds.
[c] FY 2004 Balance Sheet; Funds 750, 753, 755, 758; Current Assets/Cash and Cash/Water Debt 1998.
[d] Extrapolated using growth from current demand (10.5 MGD) to total plant capacity (18.0 MGD).
[e] FY 2004 Balance Sheet; Fund 752 (Water SDC); Current Assets/Cash; applied only to costs allocated for future needs.

Allocation of Water Storage Facilities - Whole System Basis

Storage Facility	Original Cost	Replacement Cost Net of Depreciation	Whole System Allocation			Allocated Original Cost			Allocated Replacement Cost		
			For Existing Needs	For Future Needs	Basis	For Existing Needs	For Future Needs	Excluded	For Existing Needs	For Future Needs	Excluded
Existing Plant-in-Service:											
Woodson Drive Reservoir #3	$ 143,050	$ 2,055,412	58%	42%		$ 83,446	$ 59,604	$ -	$ 1,198,990	$ 856,422	$ -
Ridge Road Reservoir #4	56,324	638,620	58%	42%		32,856	23,468	-	372,528	266,092	-
Sherman Reservoir #5	1,276,412	1,979,642	58%	42%		744,574	531,838	-	1,154,791	824,851	-
Heigland Loop Reservoir #6	1,139,400	1,866,978	58%	42%		664,650	474,750	-	1,089,070	777,907	-
Ausland Reservoir	37,750	82,905	58%	42%	10.5 MGD currently	22,021	15,729	-	48,361	34,544	-
Heigland Reservoir #8	872,270	1,358,129	58%	42%	in use vs. 18.0 MGD	508,824	363,446	-	792,242	565,887	-
Denton Trail Reservoir #11	2,869,832	3,138,276	58%	42%	total system	1,674,069	1,195,763	-	1,830,661	1,307,615	-
Sunset Reservoir #13	260,850	510,267	58%	42%	capacity [a]	152,163	108,688	-	297,656	212,611	-
Highland Avenue Reservoir #15	1,018,500	1,587,232	58%	42%		594,125	424,375	-	925,885	661,347	-
Subtotal: Existing Plant-in-Service	**7,674,388**	**13,217,461**				**4,476,726**	**3,197,662**	**-**	**7,710,185**	**5,507,275**	**-**
Capital Improvement Program:									-	-	-
Water Storage: Reservoir No. 12	1,955,000	1,955,000	58%	42%		1,140,417	814,583	-	1,140,417	814,583	-
Water Storage: Reservoir No. 14	972,000	972,000	58%	42%		567,000	405,000	-	567,000	405,000	-
Water Storage: Reservoir No. 16	1,047,000	1,047,000	58%	42%		610,750	436,250	-	610,750	436,250	-
Water Storage: Reservoir No. 17	1,543,000	1,543,000	58%	42%		900,083	642,917	-	900,083	642,917	-
Water Storage: Reservoir No. 10	1,560,000	1,560,000	58%	42%		910,000	650,000	-	910,000	650,000	-
Water Storage: Reservoir No. 13 (replacement)	972,000	972,000	0%	0%	excluded from SDC [c]	-	-	972,000	-	-	972,000
Subtotal: Capital Improvement Program	**8,049,000**	**8,049,000**				**4,128,250**	**2,948,750**	**972,000**	**4,128,250**	**2,948,750**	**972,000**
GRAND TOTAL: STORAGE COST BASIS	**$ 15,723,388**	**$ 21,266,461**				**$ 8,604,976**	**$ 6,146,412**	**$ 972,000**	**$ 11,838,435**	**$ 8,456,025**	**$ 972,000**

Allocation of Water Storage Facilities - Incremental Basis

Storage Facility	Original Cost	Replacement Cost Net of Depreciation	Incremental Allocation			Allocated Original Cost			Allocated Replacement Cost		
			For Existing Needs	For Future Needs	Basis	For Existing Needs	For Future Needs	Excluded	For Existing Needs	For Future Needs	Excluded
Existing Plant-in-Service:											
Woodson Drive Reservoir #3	$ 143,050	$ 2,055,412	82%	18%	9.4 MGD in use of 11.5 total [b]	$ 116,928	$ 26,122	$ -	$ 1,680,076	$ 375,336	$ -
Ridge Road Reservoir #4	56,324	638,620	81%	19%	3.5 MGD in use of 4.3 total [b]	45,845	10,479	-	519,807	118,813	-
Sherman Reservoir #5	1,276,412	1,979,642	82%	18%	9.4 MGD in use of 11.5 total [b]	1,043,328	233,084	-	1,618,142	361,500	-
Heigland Loop Reservoir #6	1,139,400	1,866,978	81%	19%	3.5 MGD in use of 4.3 total [b]	927,419	211,981	-	1,519,633	347,345	-
Ausland Reservoir	37,750	82,905	82%	18%	9.4 MGD in use of 11.5 total [b]	30,857	6,893	-	67,766	15,139	-
Heigland Reservoir #8	872,270	1,358,129	50%	50%	1.0 MGD in use of 2.0 total [b]	436,135	436,135	-	679,064	679,064	-
Denton Trail Reservoir #11	2,869,832	3,138,276	82%	18%	9.4 MGD in use of 11.5 total [b]	2,345,775	*524,056*	-	*2,565,200*	573,077	-
Sunset Reservoir #13	260,850	510,267	100%	0%	storage available < required amt [b]	260,850	-	-	510,267	-	-
Highland Avenue Reservoir #15	1,018,500	1,587,232	33%	67%	0.4 MGD in use of 1.2 total [b]	339,500	679,000	-	529,077	1,058,155	-
Subtotal: Existing Plant-in-Service	**7,674,388**	**13,217,461**				**5,546,637**	**2,127,751**	**-**	**9,689,032**	**3,528,428**	**-**
Capital Improvement Program:									-	-	-
Water Storage: Reservoir No. 12	1,955,000	1,955,000	0%	100%	all for future growth [c]	-	1,955,000	-	-	1,955,000	-
Water Storage: Reservoir No. 14	972,000	972,000	0%	100%	all for future growth [c]	-	972,000	-	-	972,000	-
Water Storage: Reservoir No. 16	1,047,000	1,047,000	0%	100%	all for future growth [c]	-	1,047,000	-	-	1,047,000	-
Water Storage: Reservoir No. 17	1,543,000	1,543,000	0%	100%	all for future growth [c]	-	1,543,000	-	-	1,543,000	-
Water Storage: Reservoir No. 10	1,560,000	1,560,000	0%	100%	all for future growth [c]	-	1,560,000	-	-	1,560,000	-
Water Storage: Reservoir No. 13 (replacement)	972,000	972,000	0%	0%	excluded from SDC [c]	-	-	972,000	-	-	972,000
Subtotal: Capital Improvement Program	**8,049,000**	**8,049,000**				**-**	**7,077,000**	**972,000**	**-**	**7,077,000**	**972,000**
GRAND TOTAL: STORAGE COST BASIS	**$ 15,723,388**	**$ 21,266,461**				**$ 5,546,637**	**$ 9,204,751**	**$ 972,000**	**$ 9,689,032**	**$ 10,605,428**	**$ 972,000**

Calculation of Water SDC Surcharge for Zones 4 and Higher	Original Cost		Replacement Cost Net of Depreciation	
	Reimbursement	Improvement	Reimbursement	Improvement
A. Whole System Allocation Basis:				
Total Storage Costs Eligible for the SDC	$ 3,197,662	2,948,750	$ 5,507,275	2,948,750
Future Equivalent Units Served	8,191	8,191	8,191	8,191
Storage Cost per Equivalent Unit	**$ 390**	**$ 360**	**$ 672**	**$ 360**
B. Incremental Allocation Basis:				
Total Storage Costs Eligible for the SDC	$ 2,127,751	$ 7,077,000	$ 3,528,428	$ 7,077,000
Future Equivalent Units Served	8,191	8,191	8,191	8,191
Storage Cost per Equivalent Unit	**$ 260**	**$ 864**	**$ 431**	**$ 864**
SURCHARGE FOR ZONES 4, 5, AND HIGHER	**$ (131)**	**$ 504**	**$ (242)**	**$ 504**

Summary of Water SDC Surcharges for Zones 4 and over

Meter Size	Original Cost		Replacement Cost Net of Depreciation			Original Cost	Replacement Cost Net...
	Reimbursement	Improvement	Reimbursement	Improvement		Total Fee	Total Fee
3/4-inch	($131)	$504	($242)	$504		$373	$262
1-inch	($327)	$1,260	($604)	$1,260		$933	$656
1.5-inch	($653)	$2,520	($1,208)	$2,520		$1,867	$1,312
2-inch	($1,045)	$4,032	($1,933)	$4,032		$2,987	$2,099
3-inch	($2,090)	$8,064	($3,865)	$8,064		$5,974	$4,199
4-inch	($3,265)	$12,600	($6,040)	$12,600		$9,334	$6,560
6-inch	($6,531)	$25,200	($12,079)	$25,200		$18,669	$13,120
8-inch	($10,450)	$40,320	($19,327)	$40,320		$29,870	$20,993
10-inch	($15,021)	$57,959	($27,782)	$57,959		$42,938	$30,177

Data Sources/Notes:

[a] Per City meeting, 2/18/05.
[b] Tables 2-4 and 6-2, Water Master Plan
[c] City meeting, 2/18/05

APPENDIX C

SEWER SDC COMPUTATION

Sewer System Capacity - Alternative 1: Original Cost of Existing Plant-in-Service

Equivalent Service Units:	Treatment	Transmission	
Total System Capacity	29,048	23,110	[e]
less: Capacity in Use	(18,078)	(15,383)	
Capacity Available for Growth	**10,970**	**7,727**	

Sewer Cost Basis - Alternative 1: Original Cost of Existing Plant-in-Service

		Total	Treatment Facilities		Transmission Facilities		
			For Existing Needs	For Future Needs	For Existing Needs	For Future Needs	
Plant-in-Service:			(EXCLUDED FROM SDC)	(INCLUDED IN THE SDC)	(EXCLUDED FROM SDC)	(INCLUDED IN THE SDC)	
Total Plant-in-Service (Original Cost)	$	36,885,344					
less: Local Collection System Assets		(11,470,529)					
Total Plant-in-Service: General Facilities Only		25,414,815	21,440,155	2,739,398	822,221	413,041	
less: Contributed Capital		-	-	-	-	-	[a]
less: Outstanding Debt in Excess of Cash Reserves:							
Outstanding Debt		6,874,938	5,799,756	741,032	222,418	111,731	[b]
Cash Reserves		3,557,488	3,001,127	383,453	115,092	57,816	[c]
Deductible Debt Obligation		(3,317,450)	(2,798,629)	(357,579)	(107,326)	(53,915)	
Allocable Plant-in-Service Cost Basis		**22,097,365**	**18,641,526**	**2,381,818**	**714,895**	**359,126**	
Future Improvements:							
Total Capital Improvement Plan	$	34,602,000					
less: Replacement Projects		(10,604,000)					
less: Developer Donations/Local Collection Projects		-					
Net Future Improvements		23,998,000	272,585	14,425,415	3,092,297	6,207,703	
less: SDC Fund Balance		-	-	-	-	-	[f]
Allocable Future Improvements Cost Basis		**23,998,000**	**272,585**	**14,425,415**	**3,092,297**	**6,207,703**	

Sewer System Development Charge Calculation - Alternative 1: Original Cost of Existing Plant-in-Service

		Treatment Facilities		Transmission Facilities	
	Total Fee	Reimbursement Fee	Improvement Fee	Reimbursement Fee	Improvement Fee
Plant-in-Service Available to Serve Future Needs	$ 2,740,944	$ 2,381,818	--	$ 359,126	--
Future Improvements to Serve Future Needs	$ 20,633,118	--	$ 14,425,415	--	$ 6,207,703
Future Capacity Served	varies based on function	10,970	10,970	7,727	7,727
TOTAL SDC PER EQUIVALENT UNIT	**$ 2,382**	**$ 217**	**$ 1,315**	**$ 46**	**$ 803**
HIGH-STRENGTH SDC PER EQUIVALENT UNIT	**$ 3,301**	**$ 347**	**$ 2,104**	**$ 46**	**$ 803** [d]

Sewer SDCs - Alternative 1: Original Cost of Existing Plant-in-Service

		Treatment Facilities		Transmission Facilities	
DOMESTIC-STRENGTH CUSTOMER:	Total Fee	Reimbursement Fee	Improvement Fee	Reimbursement Fee	Improvement Fee
1 equivalent unit	$2,382	$217	$1,315	$46	$803
2 equivalent units	$4,764	$434	$2,630	$93	$1,607
3 equivalent units	$7,146	$651	$3,945	$139	$2,410
HIGH-STRENGTH CUSTOMER:					
1 equivalent unit	$3,301	$347	$2,104	$46	$803
2 equivalent units	$6,602	$695	$4,208	$93	$1,607
3 equivalent units	$9,903	$1,042	$6,312	$139	$2,410

(Multiply total number of equivalent units by the Domestic- or High-Strength SDC shown above for one unit.)

Sewer System Capacity - Alternative 2: Replacement Cost Net of Depreciation of Existing Plant-in-Service

Equivalent Service Units:	Treatment	Transmission	
Total System Capacity	29,048	23,110	[e]
less: Capacity in Use	(18,078)	(15,383)	
Capacity Available for Growth	**10,970**	**7,727**	

Sewer Cost Basis - Alternative 2: Replacement Cost Net of Depreciation of Existing Plant-in-Service

			Treatment Facilities		Transmission Facilities		
	Total		For Existing Needs (EXCLUDED FROM SDC)	For Future Needs (INCLUDED IN THE SDC)	For Existing Needs (EXCLUDED FROM SDC)	For Future Needs (INCLUDED IN THE SDC)	
Plant-in-Service:							
Total Plant-in-Service (Net Replacement Cost)	$ 72,008,528						
less: Local Collection System Assets	(34,490,306)						
Total Plant-in-Service: General Facilities Only	37,518,222		29,196,977	3,348,523	3,309,968	1,662,754	
less: Contributed Capital	-		-	-	-	-	[a]
less: Outstanding Debt in Excess of Cash Reserves:							
Outstanding Debt	6,874,938		5,350,131	613,592	606,527	304,687	[b]
Cash Reserves	3,557,488		2,768,465	317,508	313,852	157,663	[c]
Deductible Debt Obligation	(3,317,450)		(2,581,666)	(296,084)	(292,675)	(147,025)	
Allocable Plant-in-Service Cost Basis	**34,200,772**		**26,615,312**	**3,052,438**	**3,017,293**	**1,515,729**	
Future Improvements:							
Total Capital Improvement Plan	$ 34,602,000						
less: Replacement Projects	(10,604,000)						
less: Developer Donations/Local Collection Projects	-						
Net Future Improvements	23,998,000		272,585	14,425,415	3,092,297	6,207,703	
less: SDC Fund Balance	-		-	-	-	-	[f]
Allocable Future Improvements Cost Basis	**23,998,000**		**272,585**	**14,425,415**	**3,092,297**	**6,207,703**	

Sewer System Development Charge Calculation - Alternative 2: Replacement Cost Net of Depreciation of Existing Plant-in-Service

		Treatment Facilities		Transmission Facilities	
	Total Fee	Reimbursement Fee	Improvement Fee	Reimbursement Fee	Improvement Fee
Plant-in-Service Available to Serve Future Needs	$ 4,568,168	$ 3,052,438	--	$ 1,515,729	--
Future Improvements to Serve Future Needs	$ 20,633,118	--	$ 14,425,415	--	$ 6,207,703
Future Capacity Served	varies based on function	10,970	10,970	7,727	7,727
TOTAL SDC PER EQUIVALENT UNIT	**$ 2,593**	**$ 278**	**$ 1,315**	**$ 196**	**$ 803**
HIGH-STRENGTH SDC PER EQUIVALENT UNIT	**$ 3,549**	**$ 445**	**$ 2,104**	**$ 196**	**$ 803** [d]

Sewer SDCs - Alternative 2: Replacement Cost Net of Depreciation of Existing Plant-in-Service

		Treatment Facilities		Transmission Facilities	
DOMESTIC-STRENGTH CUSTOMER:	Total Fee	Reimbursement Fee	Improvement Fee	Reimbursement Fee	Improvement Fee
1 equivalent unit	$2,593	$278	$1,315	$196	$803
2 equivalent units	$5,185	$556	$2,630	$392	$1,607
3 equivalent units	$7,778	$835	$3,945	$588	$2,410
HIGH-STRENGTH CUSTOMER:					
1 equivalent unit	$3,549	$445	$2,104	$196	$803
2 equivalent units	$7,097	$890	$4,208	$392	$1,607
3 equivalent units	$10,646	$1,336	$6,312	$588	$2,410

(Multiply total number of equivalent units by the Domestic- or High-Strength SDC shown above for one unit.)

Data Sources/Notes:

[a] FY 1998 Balance Sheet, Fund 720, Fund Balance/Contributed Capital: $3,155,214; may already be deducted through exclusion of local systems.

[b] FY 2004 Balance Sheet, Fund 720, Long Term Liabilities/DEQ Loan.

[c] FY 2004 Balance Sheets; Funds 720, 722, 723, 725, and 728; Current Assets/Cash

[d] High-Strength Multiplier (per CA SWRCB standards) 1.60

Percent for Flow:	40%
Percent for Strength (BOD):	30%
Percent for Strength (SS):	30%

(Applied to Treatment component of the SDC only.)

[e] Extrapolated using growth from current accounts (11,700) to expansion capacity (18,000 accounts).

[f] FY 2004 Balance Sheet; Fund 722; Current Assets/Cash; applied only to costs allocated for future needs.

APPENDIX D

SDC SUMMARIES

SEWER SYSTEM DEVELOPMENT CHARGES
Alternative 1: *Original Cost of* Existing Plant-in-Service

Customer Class and Number of Equivalent Service Units	Total Fee	Fee Components						
		Sewer Treatment		Sewer Transmission		Total		
		REIMBURSEMENT	IMPROVEMENT	REIMBURSEMENT	IMPROVEMENT	REIMBURSEMENT	IMPROVEMENT	ADMINISTRATION*
DOMESTIC-STRENGTH CLASS								
1 equivalent unit	$2,418	$217	$1,315	$46	$803	$264	$2,118	$36
2 equivalent units	$4,835	$434	$2,630	$93	$1,607	$527	$4,237	$71
3 equivalent units	$7,253	$651	$3,945	$139	$2,410	$791	$6,355	$107
HIGH-STRENGTH CLASS								
1 equivalent unit	$3,351	$347	$2,104	$46	$803	$394	$2,907	$50
2 equivalent units	$6,701	$695	$4,208	$93	$1,607	$788	$5,814	$99
3 equivalent units	$10,052	$1,042	$6,312	$139	$2,410	$1,182	$8,722	$149
(Multiply the total number of equivalent units by the Normal- or High-Strength SDC shown above for one unit.)								

* *The administrative charge* equals 1.5% of the total reimbursement and improvement fees.

SEWER SYSTEM DEVELOPMENT CHARGES
Alternative 2: Replacement Cost Net of Depreciation of Existing Plant-in-Service

Customer Class and Number of Equivalent Service Units	Total Fee	Fee Components						
		Sewer Treatment		Sewer Transmission		Total		
		REIMBURSEMENT	IMPROVEMENT	REIMBURSEMENT	IMPROVEMENT	REIMBURSEMENT	IMPROVEMENT	ADMINISTRATION*
DOMESTIC-STRENGTH CLASS								
1 equivalent unit	$2,593	$278	$1,315	$196	$803	$474	$2,118	$39
2 equivalent units	$5,185	$556	$2,630	$392	$1,607	$949	$4,237	$78
3 equivalent units	$7,778	$835	$3,945	$588	$2,410	$1,423	$6,355	$117
HIGH-STRENGTH CLASS								
1 equivalent unit	$3,549	$445	$2,104	$196	$803	$641	$2,907	$53
2 equivalent units	$7,097	$890	$4,208	$392	$1,607	$1,283	$5,814	$106
3 equivalent units	$10,646	$1,336	$6,312	$588	$2,410	$1,924	$8,722	$160
(Multiply the total number of equivalent units by the Normal- or High-Strength SDC shown above for one unit.)								

* The administrative charge equals 1.5% of the total reimbursement and improvement fees.

WATER SYSTEM DEVELOPMENT CHARGES
Alternative 1: Original Cost of Existing Plant-in-Service

Customer Class and Meter Size	Total Fee	Fee Components						
		Water Treatment		Water Transmission & Storage		Total		
		REIMBURSEMENT	IMPROVEMENT	REIMBURSEMENT	IMPROVEMENT	REIMBURSEMENT	IMPROVEMENT	ADMINISTRATION*
ZONES 1, 2, AND 3								
3/4-inch	$2,321	$271	$223	$1,002	$791	$1,273	$1,014	$34
1-inch	$5,804	$678	$558	$2,505	$1,977	$3,183	$2,535	$86
1.5-inch	$11,607	$1,357	$1,115	$5,010	$3,954	$6,367	$5,069	$172
2-inch	$18,572	$2,171	$1,785	$8,016	$6,326	$10,187	$8,111	$274
3-inch	$37,144	$4,342	$3,569	$16,032	$12,652	$20,373	$16,221	$549
4-inch	$58,037	$6,784	$5,577	$25,049	$19,769	$31,833	$25,346	$858
6-inch	$116,074	$13,568	$11,154	$50,099	$39,538	$63,667	$50,691	$1,715
8-inch	$185,718	$21,709	$17,846	$80,158	$63,260	$101,867	$81,106	$2,745
10-inch	$266,969	$31,206	$25,653	$115,228	$90,937	$146,434	$116,590	$3,945
ZONES 4, 5, AND HIGHER								
3/4-inch	$2,700	$271	$223	$871	$1,295	$1,143	$1,518	$40
1-inch	$6,751	$678	$558	$2,178	$3,237	$2,857	$3,795	$100
1.5-inch	$13,502	$1,357	$1,115	$4,357	$6,474	$5,714	$7,589	$200
2-inch	$21,604	$2,171	$1,785	$6,971	$10,358	$9,142	$12,143	$319
3-inch	$43,207	$4,342	$3,569	$13,942	$20,716	$18,284	$24,285	$639
4-inch	$67,511	$6,784	$5,577	$21,784	$32,369	$28,568	$37,946	$998
6-inch	$135,022	$13,568	$11,154	$43,568	$64,737	$57,136	$75,891	$1,995
8-inch	$216,036	$21,709	$17,846	$69,709	$103,580	$91,418	$121,426	$3,193
10-inch	$310,551	$31,206	$25,653	$100,206	$148,896	$131,413	$174,549	$4,589

* The administrative charge equals 1.5% of the total reimbursement and improvement fees.

WATER SYSTEM DEVELOPMENT CHARGES
Alternative 2: Replacement Cost Net of Depreciation of Existing Plant-in-Service

Customer Class and Meter Size	Total Fee	Fee Components						
		Water Treatment		Water Transmission & Storage		Total		
		REIMBURSEMENT	IMPROVEMENT	REIMBURSEMENT	IMPROVEMENT	REIMBURSEMENT	IMPROVEMENT	ADMINISTRATION*
ZONES 1, 2, AND 3								
3/4-inch	$3,477	$565	$223	$1,847	$791	$2,412	$1,014	$51
1-inch	$8,693	$1,413	$558	$4,616	$1,977	$6,030	$2,535	$128
1.5-inch	$17,386	$2,827	$1,115	$9,233	$3,954	$12,060	$5,069	$257
2-inch	$27,817	$4,523	$1,785	$14,772	$6,326	$19,295	$8,111	$411
3-inch	$55,634	$9,046	$3,569	$29,544	$12,652	$38,590	$16,221	$822
4-inch	$86,928	$14,135	$5,577	$46,163	$19,769	$60,298	$25,346	$1,285
6-inch	$173,856	$28,269	$11,154	$92,326	$39,538	$120,595	$50,691	$2,569
8-inch	$278,169	$45,231	$17,846	$147,721	$63,260	$192,952	$81,106	$4,111
10-inch	$399,868	$65,020	$25,653	$212,349	$90,937	$277,369	$116,590	$5,909
ZONES 4, 5, AND HIGHER								
3/4-inch	$3,743	$565	$223	$1,605	$1,295	$2,170	$1,518	$55
1-inch	$9,359	$1,413	$558	$4,012	$3,237	$5,426	$3,795	$138
1.5-inch	$18,717	$2,827	$1,115	$8,025	$6,474	$10,852	$7,589	$277
2-inch	$29,948	$4,523	$1,785	$12,839	$10,358	$17,363	$12,143	$443
3-inch	$59,895	$9,046	$3,569	$25,679	$20,716	$34,725	$24,285	$885
4-inch	$93,586	$14,135	$5,577	$40,123	$32,369	$54,258	$37,946	$1,383
6-inch	$187,173	$28,269	$11,154	$80,246	$64,737	$108,516	$75,891	$2,766
8-inch	$299,477	$45,231	$17,846	$128,394	$103,580	$173,625	$121,426	$4,426
10-inch	$430,498	$65,020	$25,653	$184,567	$148,896	$249,586	$174,549	$6,362

* The administrative charge equals 1.5% of the total reimbursement and improvement fees.

WATER SYSTEM DEVELOPMENT CHARGES
Alternative 1: Original Cost of Existing Plant-in-Service

Customer Class and Meter Size	Current SDC	Updated SDCs	
		ZONES 1, 2, AND 3	ZONES 4, 5, AND HIGHER
3/4-inch	$821	$2,321	$2,700
1-inch	$1,370	$5,804	$6,751
1.5-inch	$2,741	$11,607	$13,502
2-inch	$4,385	$18,572	$21,604
3-inch	$8,770	$37,144	$43,207
4-inch	$13,703	$58,037	$67,511
6-inch	$27,407	$116,074	$135,022
8-inch	$43,850	$185,718	$216,036

WATER SYSTEM DEVELOPMENT CHARGES
Alternative 2: Replacement Cost Net of Depreciation of Existing Plant-in-Service

Customer Class and Meter Size	Current SDC	Updated SDCs	
		ZONES 1, 2, AND 3	ZONES 4, 5, AND HIGHER
3/4-inch	$821	$3,477	$3,743
1-inch	$1,370	$8,693	$9,359
1.5-inch	$2,741	$17,386	$18,717
2-inch	$4,385	$27,817	$29,948
3-inch	$8,770	$55,634	$59,895
4-inch	$13,703	$86,928	$93,586
6-inch	$27,407	$173,856	$187,173
8-inch	$43,850	$278,169	$299,477

SAMPLE SEWER & WATER SYSTEM DEVELOPMENT CHARGES
Alternative 1: Original Cost of Existing Plant-in-Service

Example Customer Type		Water SDC	Sewer SDC	Total SDC
1) Single Family Residence: 2 toilets, 3/4-inch meter, Zone 2	Current SDC	$821	$1,096	$1,917
	Recommended SDC	$2,321	$2,416	$4,737
	Net Increase	*$1,500*	*$1,320*	*$2,820*
2) Single Family Residence: 3 toilets, 1-inch meter, Zone 5	Current SDC	$821	$1,424	$2,245
	Recommended SDC	$6,751	$2,416	$9,167
	Net Increase	*$5,930*	*$992*	*$6,922*
3) Commercial Normal Strength: 5 ERUs, 1.5-inch meter, Zone 3	Current SDC	$2,741	$4,384	$7,125
	Recommended SDC	$11,607	$12,080	$23,687
	Net Increase	*$8,866*	*$7,696*	*$16,562*
3) Commercial High Strength: 5 ERUs, 1.5-inch meter, Zone 3	Current SDC	$2,741	$4,384	$7,125
	Recommended SDC	$11,607	$16,912	$28,519
	Net Increase	*$8,866*	*$12,528*	*$21,394*

APPENDIX E

SAMPLE ERU WORKSHEETS

CITY OF GRANTS PASS

Non-Residential Sewer Use Certification (Use Also For Affordable Housing)

To be completed for all new sewer connections, reconnections, or change-of-use of existing connections. This form does not apply to repairs or replacements of existing sewer connections.

Pursuant to City Ordinance No. ___, all sewer customers who establish a new service which uses City-owned sewage facilities shall be subject to a System Development Charge. The City Council has established the amount of the charge at $__ per equivalent residential unit. The purpose of the charge is to recover costs of providing sewage system capacity for new sewer customers. The charge is collected at the time of connection to the system. Questions regarding the charge or this form can be referred to the City __ Department at __[number]__.

(Please print or type)

Owner's Name (Last, First, Middle Initial):

Property Legal Address:

Subdivision: Plat:

Street Address:

City, State, Zip:

Owner's Contact Information:

Phone Number:

Mailing Address (if different from above):

Date of Connection:

Sewer Connection Permit #:

For City Use Only:

Account #:

Monthly Rate Class:

Other:

A. Fixture Units

Number of Fixtures x Fixture Units = Total Fixture Units (Public or Private)

Kind of Fixture	Fixture Units		No. of Fixtures		Total Fixture Units
	Public	Private	Public	Private	
Bathtubs and/or shower	4	2			
Dental units or lavatory	1	0			
Dishwasher, commercial	4	0			
Drinking fountain (each head)	1	0			
Hose bibb or sill cock	5	3			
Laundry tub or clotheswasher	4	2			
Sink, bar, or lavatory	2	1			
Sink, clinic, flushing	10	0			
Sink, kitchen	4	2			
Sink, other	4	2			
Sink wash, circle spray	4	0			
Urinal, flush tank	3	0			
Urinal, pedestal	10	0			
Urinal, wall or stall	5	0			
Water closet tank	5	3			
Water close, flush valve	10	6			
				Total Fixture Units:	

Equivalent Residential Unit (ERU): 20 Fixture Units equals 1.0 ERU

$$\frac{\text{Total No. of Fixture Units}}{20} = \text{A:} \quad \text{ERU}$$

B. Other Wastewater Flow (In Addition to Section A)

Type of Facility/Process:

Estimated Wastewater Discharge (Gallons per Day):

Equivalent Residential Unit (ERU): 187 gallons per day equals 1.0 ERU

$$\frac{\text{Total Discharge (gal/day)}}{187} = \text{B:} \quad \text{ERU}$$

C. Strength Factor (Circle the appropriate class)

Domestic: 1.00 High: 1.40

D. Total Equivalent Residential Units (Use Sections A,B,C)

A: + B: = D:

D: x C: = **ERUs:**

I certify that the information given is correct. I understand that the System Development Charge levied will be based on this information and any deviation will require resubmission of corrected data for determination of revised charge.

Owner's Signature:

Name of Owner: Date:

CITY OF GRANTS PASS

Residential Sewer Use Certification

To be completed for all new sewer connections, reconnections, or change-of-use of existing connections. This form does not apply to repairs or replacements of existing sewer connections.

Pursuant to City Ordinance No. ___, all sewer customers who establish a new service which uses City-owned sewage facilities shall be subject to a System Development Charge. The City Council has established the amount of the charge at $__ per equivalent residential unit. The purpose of the charge is to recover costs of providing sewage system capacity for nev sewer customers. The charge is collected at the time of connection to the system. Questions regarding the charge or this form can be referred to the City __ Department at __[number]__.

(Please print or type)

Owner's Name (Last, First, Middle Initial):	Date of Connection:
Property Legal Address:	Sewer Connection Permit #:
Subdivision: Plat:	
Street Address:	
City, State, Zip:	
Owner's Contact Information:	
Phone Number:	
Mailing Address (if different from above):	

For City Use Only:

Account #:

Monthly Rate Class:

Other:

Please check the appropriate box:

☐	Single Family			1.0	Equivalent Residential Unit (ERU)
☐	Duplex (0.8 ERU per unit)			1.6	Equivalent Residential Unit (ERU)
☐	3-Plex (0.8 ERU per unit)			2.4	Equivalent Residential Unit (ERU)
☐	4-Plex (0.8 ERU per unit)			3.2	Equivalent Residential Unit (ERU)
☐	5 or more (0.64 ERU per unit)	No. of Units:	x 0.64 =		Equivalent Residential Unit (ERU)
☐	Mobile Home (1.0 ERU per space)	No. of Spaces:	x 1.0 =		Equivalent Residential Unit (ERU)
☐	Accessory Dwelling Unit (0.64 per unit)	No. of Units:	x 0.64 =		Equivalent Residential Unit (ERU)

I certify that the information given is correct. I understand that the System Development Charge levied will be based on this information and any deviation will require resubmission of corrected data for determination of revised charge.

Owner's Signature:	Date:
Name of Owner:	