#### **AGENDA ITEM # 4**

#### CITY COUNCIL COMMUNICATION FORM

FROM: Joe Zimmerman, Utility Systems Superintendent

(970) 871-8209

**THROUGH:** Philo Shelton, Public Works Director (x204)

**DATE:** August 3, 2010

ITEM: Water and Wastewater Rate Study. The first draft of

the rate study is being presented to City Council by

Red Oak Consulting for review and comment.

**NEXT STEP:** Adoption via ordinance with first and second readings

on 9/7 and 9/21/2010.

X DIRECTION

X INFORMATION

\_\_\_ ORDINANCE

\_\_\_ MOTION

RESOLUTION

#### I. REQUEST OR ISSUE:

Review the rate study and provide feed back on the proposal.

#### II. RECOMMENDED ACTION

Provide comments allowing Red Oak Consulting to finalize the rate study.

#### **III. FISCAL IMPACTS:**

This study will provide the path to provide sustainable revenues for the water and wastewater operating and capital improvements funds.

#### IV. BACKGROUND INFORMATION:

Red Oak Consulting was hired to study the City's water and wastewater rates, and to provide a plan to sustain rates which will put the water and wastewater funds on a sound financial basis now and into the future.

#### V. <u>LEGAL ISSUES:</u>

None.

#### VI. CONFLICTS OR ENVIRONMENTAL ISSUES:

None.

#### VII. SUMMARY AND ALTERNATIVES:

There will be alternatives presented in the rate study that will require Council's direction.

#### **LIST OF ATTACHMENTS**

Attachment 1. Memo from Red Oak Consulting.

Attachment 2. Water and wastewater rate study presentation.



#### **MEMORANDUM**

**Date:** July 27, 2010

To: Philo Shelton, Public Works Director

City of Steamboat Springs, Colorado

From: Andrew Rheem, Project Manager

Red Oak Consulting

**Re:** August 3, 2010 City Council Presentation – 2010 Rate and Fee Draft Study Findings

The City of Steamboat Springs (City) retained Red Oak Consulting (Red Oak) in 2010 to complete a comprehensive rate and fee study of the City's water and wastewater utility operations.

The study included the following four main components which were completed separately for each utility:

- Prepare 10-year financial plan
- Review and update of tap fees
- Complete cost of service analysis for a single test-year 2013
- Develop rates for service for 2011 through 2013
  - o Two alternatives for City customers
  - o Single alternative for wholesale customers

During the August 3, 2010 City Council meeting, Red Oak and City staff will present the study findings, for each of the components previously listed:

#### 10-Year Financial Plan

Working with City staff, Red Oak developed separate water and wastewater 10-year financial planning models. The financial plans evaluate the adequacy of system revenues, adjusted for growth, to:

- Fund annual operation and maintenance (O&M) expenses, debt service and capital costs
- Maintain established financial performance requirements
  - o Debt service coverage ratio targets<sup>1</sup>
  - o End-of-year reserve requirements<sup>2</sup>

<sup>&</sup>lt;sup>1</sup> Debt service coverage ratio is the ratio of total system revenues less operating expenditures divided by the annual debt service. The City's targeted debt service coverage ratio is 1.50 times annual debt service with a legal requirement of 1.10 times annual debt service.

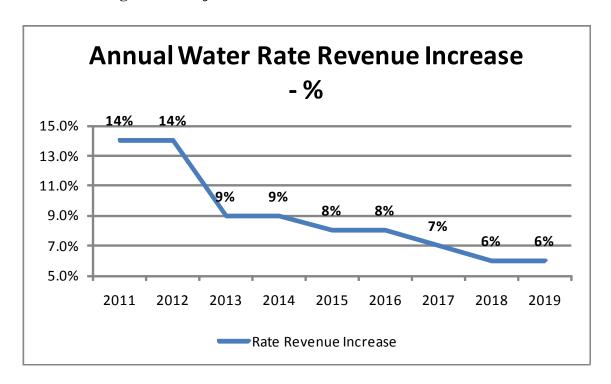
<sup>&</sup>lt;sup>2</sup> The City's end-of-year cash requirement is 20% or approximately 75 days of annual O&M expenses.

If system revenues are not adequate to fund annual expenditures while exceeding financial performance requirements, the following three variables are used to balance the financial plan:

- Draw down accumulated reserves to fund annual expenditures
- Issue debt to fund a portion of annual capital improvements
- Increase user charges

The summary of key financial plan results and inputs is summarized on pages 1 and 2 of attachment A. Figures 1 and 2 summarize the projected annual increases in rate revenues necessary to fund annual expenditures and meet financial performance thresholds through level annual increases.

Figure 1 – Projected Annual Water Rate Revenue Increases



**Annual Wastewater Rate Revenue** Increase - % 13% 14.0% 12.0% 10.0% 7% 7% **7**% 7% 7% 8.0% 6% 5% 6.0% 4.0% 2011 2012 2013 2014 2015 2016 2017 2018 2019 Rate Revenue Increase

**Figure 2 – Projected Annual Wastewater Rate Revenue Increases** 

A major driver of the financial plan requirements and overall results is the capital improvement plan. City staff developed the 10-year capital improvement plan for each utility. Attachment A, pages 3 through 6 summarize the projected annual growth-related (expansionary) and non-growth related (repair and replacement) capital improvement project listing for water and wastewater respectively.

#### Tap / Development Fees

Red Oak worked with City staff to evaluate the existing water and wastewater tap fees assessed by the City. Tap fees are one-time capital recovery fees assessed to new development to recover the cost of system capacity to serve new customers.

The City currently assesses three different tap fees; a water system tap fee, a wastewater treatment plant (WWTP) and interceptor tap fee to city, and wholesale customers and a wastewater collection tap fee to only City customers.

Red Oak also worked with City staff to calculate a new water rights tap fee that would be assessed only to new development within the City.

Table 1 summarizes the current and updated water and wastewater tap fees and overall change.

Table 1 – Current and Updated Water and Wastewater Tap Fees per Residential Equivalent

Description	Current	Calculated	Change
Water System (1)	\$3,640	\$4,064	\$424
Water Rights	0	5,223	5,223
Total Water	3,640	9,287	5,647
WWTP & Interceptor	\$3,424	\$4,313	\$889
Collection System	371	590	219
Total Wastewater	3,795	4,903	1,108
<b>Total Water and Wastewater</b>	\$7,435	\$14,190	\$6,755
	_	_	_

<sup>(1)</sup> Fee assessed per fixture unit. Assumes 140 water fixture units and 130 wastewater fixture units per equivalent residential connection.

A survey of ten comparable communities summarizes the water, wastewater and combined tap fees and will be discussed during the presentation on August 3<sup>rd</sup>.

#### **Cost of Service Analysis**

Red Oak completed separate water and wastewater cost of service analyses for a 2013 test-year.

#### Water

The City provides water service to retail customers throughout the water service territory and to one wholesale customer (Steamboat II) that purchases treated water from the City.

Table 2 summarizes the 2013 water cost of service analysis that reflects a 42% cumulative overall system rate revenue increase by 2013 as developed during the financial plan analysis.

4-6

Table 2 – 2013 Water Cost of Service Analysis

	2013 Test Year	Revenue at	Indicated
	Cost of	Existing	Revenue
Customer Class	Service	Rates	Increase
City			
Residential	\$1,621,584	\$1,058,003	53.27%
Commercial	676,625	572,990	18.09%
Combined	69,850	88,711	-21.26%
Total	2,368,060	1,719,704	37.70%
Wholesale			
Steamboat II	131,614	44,814	193.69%
Total	131,614	44,814	193.69%
Total System	\$2,499,674	\$1,764,518	41.66%

#### Wastewater

The City provides wastewater service to retail customers throughout the sewer service territory and to three wholesale customers that discharge sewer flows for conveyance and treatment at the City's wastewater treatment plant.

Table 3 summarizes the system components that each customer type uses reflected in the cost of service analysis.

Table 3 – Wastewater System Components by Customer Type

Cost Type	City	Mt Werner	Steamboat II	Tree Haus
Treatment	Х	Х	Х	Х
Interceptor	Х	Х		Х
Collection	Х			
Steamboat II Lift Station			Х	
Meters & Services	Х	Х	Х	Х
Administration	Х	Х	X	Х

Table 4 summarizes the 2013 wastewater cost of service analysis for all wastewater customers that generate a 29% cumulative overall rate revenue increase.

Table 4 – 2013 Wastewater Cost of Service Analysis

	2013 Test Year	Revenue at	Indicated
	Cost of	Existing	Revenue
Customer Class	Service	Rates	Increase
City			
Residential	\$1,280,686	\$940,585	36.16%
Commercial	465,173	454,954	2.25%
Combined	1,712	1,844	-7.16%
Total City	1,747,571	1,397,383	25.06%
Wholesale			
Steamboat II - Residential	148,975	34,396	333.12%
Steamboat II - Commercial	1,316	716	83.80%
Steamboat II - Combined	0	0	#N/A
Total Steamboat II	150,291	35,112	328.03%
Mt Werner - Residential	810,427	781,161	3.75%
Mt Werner - Commercial	296,539	152,620	94.30%
Mt Werner - Combined	143,696	78,495	83.06%
Total Mt Werner	1,250,662	1,012,276	23.55%
Tree Haus	32,450	13,979	132.13%
Total Wholesale	1,433,403	1,061,367	35.05%
Total System	\$3,180,974	\$2,458,750	29.37%

#### 2011, 2012 and 2013 Rates for Service

Red Oak developed 2011 through 2013 rates for service. The rates include two alternatives for City customers and a single alternative for wholesale customers. The existing rate structure for each customer class was not modified, but service charge per unit and the rate per unit or 1,000 gallons was modified.

#### Water

For City water customers, Alternative 1 reflects a uniform annual increase to user charges necessary to generate required system revenues. Alternative 2 reflects cost-of-service results phased in over the three-year period while generating sufficient system revenue in each year.

Tables 5 and 6 summarize water rate Alternatives 1 and 2.

Table 5 – 2011 through 2013 Water User Charges - Alternative 1

	Existing	Phas	sed Rates - A	lt. 1
	2010	2011	2012	2013
Monthly Service Charge - City				
Residential	\$15.00	\$17.10	\$19.49	\$21.25
Commercial	19.50	22.23	25.34	27.62
Combined	19.50	22.23	25.34	27.62
Residential Volume Rate per 1,000 gallons				
0 - 4,000 gallons	\$1.58	\$1.80	\$2.05	\$2.28
4,001 - 12,000 gallons	2.37	2.70	3.08	3.42
12,001 - 20,000 gallons	3.63	4.14	4.72	5.24
20,001 - 28,000 gallons	4.73	5.39	6.15	6.83
> 28,000 gallons	7.10	8.09	9.23	10.25
Commercial Volume Rate per 1,000 gallons	\$4.17	\$4.75	\$5.42	\$5.91
Combined Volume Rate per 1,000 gallons	\$4.17	\$4.75	\$5.42	\$5.91

Table 6 – 2011 through 2013 Water User Charges - Alternative 2

	Existing	Phas	ed Rates - Al	t. 2
	2010	2011	2012	2013
Monthly Service Charge - City				
Residential	\$15.00	\$18.92	\$23.40	\$26.66
Commercial	19.50	23.95	29.20	32.70
Combined	19.50	18.92	23.40	26.66
Residential Volume Rate per 1,000 gallons				
0 - 4,000 gallons	\$1.58	\$1.80	\$2.05	\$2.22
4,001 - 12,000 gallons	2.37	2.70	3.08	3.33
12,001 - 20,000 gallons	3.63	4.14	4.71	5.10
20,001 - 28,000 gallons	4.73	5.39	6.14	6.65
> 28,000 gallons	7.10	8.09	9.21	9.98
Commercial Volume Rate per 1,000 gallons	\$4.17	\$4.28	\$4.41	\$4.50
Combined Volume Rate per 1,000 gallons	\$4.17	\$4.28	\$4.41	\$4.50

The contract with the City's only wholesale water customer, Steamboat II, specifies a the method for determining the assessed purchased water rate that the City has followed based on treated water costs. Based on inflation assumptions, the City's treated water costs are anticipated to increase approximately 4% per year equating to a similar increase to Steamboat II's volume water charge per 1,000 gallons of treated water. The rate will be set annually as has been the City's historic practice.

#### Wastewater

For City wastewater customers, Alternative 1 reflects class cost-of-service phased in over the three-year period while generating sufficient system revenue in each year. Alternative 2 rates maintain some subsidy between City commercial and residential customer classifications, but recover the same total revenue from City customers as under Alternative 1.

Tables 7 and 8 summarize the wastewater rate Alternatives 1 and 2 for City customers.

Table 7 – 2011 through 2013 City Wastewater User Charges - Alternative 1

	Existing	Phas	ed Rates - Al	t. 1
	2010	2011	2012	2013
Monthly Service Charge - City				
Residential	\$26.88	\$31.18	\$33.80	\$36.60
Commercial	23.61	24.53	25.09	25.70
Combined	23.61	24.53	25.09	25.70
Volume Rate per 1,000 gallons				
Residential	0.00	0.00	0.00	0.00
Commercial	4.97	4.98	4.99	5.00
Combined	4.97	4.98	4.99	5.00

Table 8 – 2011 through 2013 City Wastewater User Charges - Alternative 2

	Existing	Phas	sed Rates - A	lt. 2
	2010	2011	2012	2013
Monthly Service Charge - City				
Residential	\$26.88	\$31.26	\$33.92	\$36.00
Commercial	23.61	27.46	29.80	31.62
Combined	23.61	27.46	29.80	31.62
Volume Rate per 1,000 gallons				
Residential	0.00	0.00	0.00	0.00
Commercial	4.97	4.97	4.97	4.97
Combined	4.97	4.97	4.97	4.97

For wholesale wastewater customers, phase-in rates (for 2011 through 2013) were calculated so as to reflect cost of service in 2013. Tables 9 through 11 summarize the rates by customer type and classification for the three wholesale customers.

**Table 9 – 2011 through 2013 Steamboat II Wastewater User Charges** 

	Existing	g Wholesale Customer Rates		
	2010	2011	2012	2013
Monthly Service Charge - Steamboat II				
Residential	\$7.06	\$17.48	\$23.82	\$30.60
Commercial	0.00	0.00	0.00	0.00
Volume Rate per 1,000 gallons				
Residential	0.00	0.00	0.00	0.00
Commercial	\$2.67	\$3.66	\$4.26	\$4.91

Table 10 – 2011 through 2013 Mt Werner Wastewater User Charges

	Existing Wholesale Customer Rate			Rates
	2010	2011	2012	2013
Monthly Service Charge - Mt Werner				
Residential	\$10.59	\$10.77	\$10.88	\$11.00
Commercial	0.00	0.00	0.00	0.00
Combined	10.59	10.77	10.88	11.00
Volume Rate per 1,000 gallons				
Residential	0.00	0.00	0.00	0.00
Commercial	2.67	3.74	4.39	5.08
Combined	\$2.67	\$3.74	\$4.39	\$5.08

Table 11 – 2011 through 2013 Tree Haus Wastewater User Charges

	Existing	g Wholesale Customer Rates		
	2010	2011	2012	2013
Monthly Service Charge - Tree Haus				
Residential	\$10.59	\$16.77	\$20.53	\$24.55

During the August 3<sup>rd</sup> presentation, Red Oak will present impacts to customer bills for each of the rate structure alternatives as well as results of a survey of the water and wastewater rates and monthly bills of ten comparable communities'.

### City of Steamboat Springs, Colorado 2010 Rate and Fee Study – City Council Presentation Attachment A

	Page
Water Decision Criteria	1
Wastewater Decision Criteria	2
Water Growth-Related Capital Projects – 2010 through 2019	3
Water Non-Growth Related Capital Projects – 2010 through 2019	4
Wastewater Growth-Related Capital Projects – 2010 through 2019	5
Wastewater Non-Growth Related Capital Projects – 2010 through 2019	6

FILE: Stmboat\_W SCHEDULE: Dec\_Crit DATE: 07/27/10 RANGE: DECCRIT1

Line No. DESCRIPTION 2010 2011 2012 2013 2014 20	2016 8.0% 8.0%	2017	2018	2019
	8.0% 8.0%			
	8.0% 8.0%			
1 Rate Revenue Increase 0.0% 14.0% 14.0% 9.0% 9.0%		7.0%	6.0%	6.0%
2 Effective Month of Rate Increase 1 1 1 1 1 1 1	1 1	1.0%	0.0%	0.0 %
(effective 1st day of month: 1–Jan 12=Dec)		•	•	•
(choose for any of month. 1-ban 12-bee)	A			
3 Typical Residential Bill (1 unit and 7 kgals per mont \$28.43 \$32.41 \$36.95 \$40.27 \$43.90	\$47.41 \$51.20	\$54.79	\$58.07	\$61.56
4 Water System Fee Increase 0.0% 11.7% 2.0% 2.0% 2.0%	2.0% 2.0%	2.0%	2.0%	2.0%
5 Effective Month of Fee Increase	-	-	-	-
(effective 1st day of month: 1=Jan 12=Dec)				
6 Water System Fee per Fixture \$26.00 \$29.03 \$29.61 \$30.20 \$30.81	\$31.42 \$32.05	\$32.69	\$33.35	\$34.01
<b>7</b> Water Resource Fee per ERU \$0 \$5,223 \$5,327 \$5,434 \$5,543	\$5,654 \$5,767	\$5,882	\$6,000	\$6,120
Down Marco Proceeds				
Bond/Loan Proceeds	200.000	¢0,000,000	¢o.	¢4 500 000
	300,000 \$0	\$2,900,000	\$0 0	\$1,500,000 0
	500,000 0 800,000 \$0	1,800,000 \$4,700,000	\$0	\$1,500,000
10 Total	500,000 40	\$4,700,000	Φ0	\$1,500,000
Loans (to) Development Fee Subfund				
from Operations Subfund				
11 Annual (\$250,000) \$0 \$0 \$265,302 \$0	\$0 \$0	\$0	\$0	\$0
12 Payments		Ψ0	Ψ0	Ψ0
13 Cumulative Loan Balance \$250,000 \$255,000 \$260,100 \$0 \$0	\$0 \$0	\$0	\$0	\$0
14 (Principal & Accrued Int)	**	**	**	**
Cash Balances - End of Year				
<b>15</b> Operations Subfund \$420,407 \$2,843,219 \$249,846 \$2,554,209 \$278,051 \$1,5	590,728 \$299,364	\$1,617,796	\$288,521	\$344,055
	603,093 171,377	49,701	610,350	1,103,834
<b>17</b> Total Fund \$439,195 \$3,415,287 \$265,962 \$2,628,873 \$980,996 \$3,1	193,820 \$470,741	\$1,667,498	\$898,871	\$1,447,889
<b>18 Debt Service Coverage Includes Dev. Fees [1]</b> 9.17 2.13 1.79 2.06 2.01	1.92 1.91	1.80	1.75	1.81
<b>19 Debt Service Coverage Excludes Dev. Fees [1]</b> 8.98 1.77 1.36 1.26 1.29	1.26 1.30	1.24	1.23	1.28
20 Oct Date 101 Oct 10	100.00/	440 ===	00.424	00.557
20 Cash Reserve Ratio [2] - Operations Subfund 44.3% 272.8% 22.3% 219.3% 23.0%	126.3% 22.9%	118.7%	20.4%	23.3%
<b>21 Cash Reserve Ratio [2] - Total Fund</b> 46.3% 327.7% 23.7% 225.7% 81.0%	253.5% 35.9%	122.4%	63.4%	98.3%
22 Cumulative Debt Issued \$0 \$10.800,000 \$10,800,000 \$14,700,000 \$18,5	EOO OOO	¢33 300 000	¢22 200 000	£24.700.000
22         Cumulative Debt Issued         \$0         \$10,800,000         \$10,800,000         \$14,700,000         \$14,700,000         \$18,5           23         Cumulative % of CIP Funded by Debt         0.0%         113.8%         81.2%         94.2%         79.6%	500,000 \$18,500,000 88.3% 73.8%	\$23,200,000 78.6%	\$23,200,000 73.1%	\$24,700,000 72.4%
23 Cumulative % of Cir Funded by Debt 0.0% 113.0% 01.2% 94.2% 79.0%	00.3% /3.8%	10.0%	13.1%	12.4%
Funded CIP - Inflated \$				
· ····································	236,583 \$1,935,827	\$2,031,424	\$2,131,766	\$2,237,087
	260,605 2,168,697	2,429,849	63,339	182,185
	497,188 4,104,524	4,461,273	2,195,104	2,419,272
	956,937 \$25,061,461	\$29,522,734	\$31,717,838	\$34,137,110

<sup>[1]</sup> Target debt service coverage including development fees: 1.5 Legal requirement of 1.1 [2] Target ending cash balance as a percent of O&M expenditures: 20%

FILE: Stmboat\_WW SCHEDULE: 07/27/10 DATE: RANGE: DECCRIT1

	-	Estimated					Projected				
Line No.	DESCRIPTION	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
1	Rate Revenue Increase	0.0%	13.0%	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	6.0%	5.0%
2	Effective Month of Rate Increase	1	1	1	1	1	1	1	1	1	1
	(effective 1st day of month: 1=Jan 12=Dec)										
3	Typical Residential Bill	\$26.88	\$30.37	\$32.50	\$34.78	\$37.21	\$39.81	\$42.60	\$45.58	\$48.32	\$50.73
4	Wastewater Treatment Development Fee Increase	0.0%	26.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
5	Wastewater Collection Development Fee Increase	0.0%	59.3%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
6	Effective Month of Fee Increase	1	1	1	1	1	1	1	1	1	1
	(effective 1st day of month: 1=Jan 12=Dec)										
7	Wastewater Treatment Development Fee per Fixture U	\$26.34	\$33.18	\$33.84	\$34.52	\$35.21	\$35.92	\$36.63	\$37.37	\$38.11	\$38.88
8	Wastewater Collection Fee per Fixture Unit	\$2.85	\$4.54	\$4.63	\$4.72	\$4.82	\$4.91	\$5.01	\$5.11	\$5.22	\$5.32
	Bond/Loan Proceeds										
9	Operations Subfund Revenue Bonds	\$0	\$4,000,000	\$0	\$3,000,000	\$0	\$3,000,000	\$0	\$3,750,000	\$0	\$2,500,000
10	Development Fee Subfund Revenue Bonds	0	600,000	0	750,000	0	750,000	0	5,125,000	0	2,000,000
11	Total	\$0	\$4,600,000	\$0	\$3,750,000	\$0	\$3,750,000	\$0	\$8,875,000	\$0	\$4,500,000
	Loan (to) Development Fee Subfund from Operations Subfund					>					
12	Annual	(\$650,000)	(\$580,000)	(\$225,000)	\$225,000	\$175,000	\$500,000	\$0	\$0	(\$325,000)	(\$250,000)
13	Payments	-	-		-	-	-	-	-	-	-
14 15	Cumulative Loan Balance	\$650,000	\$1,243,000	\$1,492,860	\$1,297,717	\$1,148,672	\$671,645	\$685,078	\$698,779	\$1,037,755	\$1,308,510
15	(Principal & Accrued Int)										
	Cash Balances - End of Year										
16	Operations Subfund	\$1,643,960	\$2,783,956	\$993,403	\$2,238,104	\$1,176,912	\$3,171,641	\$1,256,387	\$2,767,139	\$441,132	\$446,569
17	Development Fee Subfund	14,901	49,915	14,657	9,524	23,165	516,693	27,279	3,777,658	24,206	13,002
18	Total Fund	\$1,658,861	\$2,833,870	\$1,008,060	\$2,247,628	\$1,200,077	\$3,688,335	\$1,283,666	\$6,544,797	\$465,338	\$459,571
19	Debt Service Coverage Including Dev. Fees [1]	1.38	1.51	1.57	1.94	1.88	1.88	1.98	1.82	1.61	1.60
20	Debt Service Coverage Excluding Dev. Fees [1]	1.32	1.28	1.16	1.17	1.17	1.22	1.32	1.26	1.12	1.13
21	Cash Reserve Ratio [2] - Operations Subfund	113.1%	178.2%	61.1%	132.4%	67.0%	173.5%	66.1%	140.0%	21.5%	20.9%
22	Cash Reserve Ratio [2] - Total Fund	114.1%	181.4%	62.0%	133.0%	68.3%	201.8%	67.5%	331.0%	22.6%	21.5%
22	Consulative Debt leaved	<b>C</b> O	£4.000.000	£4.000.000	<b>©0.050.000</b>	<b>#0.250.000</b>	£40,400,000	£40,400,000	\$00.07F.000	\$00.07F.000	COE 475 000
23 24	Cumulative Debt Issued Cumulative % of CIP Funded by Debt	\$0 0.0%	\$4,600,000 78.1%	\$4,600,000 56.1%	\$8,350,000 72.9%	\$8,350,000 61.3%	\$12,100,000 76.4%	\$12,100,000 61.4%	\$20,975,000 87.2%	\$20,975,000 66.7%	\$25,475,000 68.7%
24	Cumulative // Of CIF Fullued by Debt	0.0%	10.170	30.1%	12.970	01.3%	10.4%	01.4%	01.2%	00.7%	00.7%
	Funded CIP - Inflated \$									•	
25	Operations Subfund	\$2,516,390	\$2,699,161	\$2,270,907	\$2,495,892	\$2,065,895	\$2,201,643	\$3,077,139	\$3,213,560	\$3,356,280	\$3,505,598
26	Development Fee Subfund	32,500	644,800	36,823	754,406	109,273	0	802,218	1,124,797	4,024,147	2,168,710
27	Total Annual CIP	2,548,890	3,343,961	2,307,729	3,250,298	2,175,167	2,201,643	3,879,357	4,338,358	7,380,427	5,674,308
28	Cumulative CIP Amount	\$2,548,890	\$5,892,851	\$8,200,580	\$11,450,878	\$13,626,046	\$15,827,689	\$19,707,046	\$24,045,403	\$31,425,830	\$37,100,138

<sup>[1]</sup> Target debt service coverage including development fee: 1.5. Legal requirement of 1.1 [2] Target ending cash balance as a percent of O&M expenditures: 20%

FILE: Stmboat\_W
SCHEDULE: CIP
DATE: 07/27/10
RANGE: CIP\_INFL

													Growth	
Line			Estimated					Projected					Percent	Total
No.	DESCRIPTION	Function	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Allocation	
	Growth Related CIP													
1	Airport Water Redundancy	4	\$69,000	\$104,947	\$256,207	\$0	\$0	\$0	\$0	\$0	\$0	\$0	23%	\$430,154
2	Water Distribution System Expansion (Fairview area)	4	5,875	378,525	389,881	-	-	-	-	-	-	-	50%	774,281
3	Fish Creek Reservoir Capacity Options	3	-	-	-	-	-	-	-	-	-	-	0%	-
4	Water Main Replacement	4	-	-	-	-	-	-	-	-	-	-	0%	-
5	Land Acquisition Costs	2	32,660	33,758	34,771	-	-	-	-	-	-	-	23%	101,189
6	1.0 MG West City Tank Including 16-inch main	1	51,750	479,723	-	-	-	- 4		-	-	-	23%	531,473
7	Yampa River Infiltration Gallary Expansion	3	90,000	1,036,695	-	-	-		-	-	-	-	50%	1,126,695
8	Street Shop Expansion	5	-	-	-	-	-	-)	)	-	-	-	0%	-
9	Meter Reading Conversion	5	-	-	-	-	-	-	-	-	-	-	0%	-
10	Water Rights Firming	2	-	51,500	53,045	54,636	56,275	57,964	59,703	61,494	63,339	65,239	50%	523,194
11	Rate Study	5	-	-	-	-	-		-	-	-	-	0%	-
12	Booster Pump Station & PRV - W of Overlook	4	-	-	-	-	- 1	106,653	-	-	-	-	23%	106,653
13	12-inch Main - 12th Street to Indian Trails	4	-	-	-	-		- 1	-	-	-	-	0%	-
14	Fish Creek Water Filtration Plant Expansion	3	-	-	-	-	-	95,988	2,017,053	1,412,744	-	116,947	100%	3,642,731
15	Skyline Tank Zone Redundancy	1	-	-	-	270,996	-	-	-	-	-	-	62%	270,996
16	Water Distribution System Expansion (West Lincoln area)	4	-	-	-	-		-	91,942	955,612	-	-	100%	1,047,554
	Total Growth Related CIP		\$249,285	\$2,085,147	\$733,904	\$325,633	\$56,275	\$260,605	\$2,168,697	\$2,429,849	\$63,339	\$182,185		\$8,554,920

FILE: Stmboat\_W
SCHEDULE: CIP
DATE: 07/27/10
RANGE: CIP\_INFL2

													Non-Growth	
Line			Estimated					Projected					Percent	Total
No.	DESCRIPTION	Function	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Allocation	
	Non-Growth Related CIP													
1	Airport Water Redundancy	4	\$231,000	\$351,343	\$857,738	\$0	\$0	\$0	\$0	\$0	\$0	\$0	77%	\$1,440,081
2	Water Distribution System Expansion (Fairview area)	4	5,875	378,525	389,881	-	-	-	· -	-	-	-	50%	774,281
3	Fish Creek Reservoir Capacity Options	3	175,000	180,250	_	-	-	-	-	-	-	-	100%	355,250
4	Water Main Replacement	4	803,574	1,470,000	1,543,500	1,620,675	1,701,700	1,786,785	1,876,124	1,969,930	2,068,427	2,171,848	100%	17,012,563
5	Land Acquisition Costs	2	109,340	113,017	116,407	-	-	-	-	-	-	-	77%	338,764
6	1.0 MG West City Tank Including 16-inch main	1	173,250	1,606,028	-	-	-	- 4	-	-	-	-	77%	1,779,278
7	Yampa River Infiltration Gallary Expansion	3	90,000	1,036,695	-	-	-		-	-	-	-	50%	1,126,695
8	Street Shop Expansion	5	157,999	-	-	-	-	-)	)	-	-	-	100%	157,999
9	Meter Reading Conversion	5	-	168,920	120,943	124,571	-	-	-	-	-	-	100%	414,433
10	Water Rights Firming	2	-	51,500	53,045	54,636	56,275	57,964	59,703	61,494	63,339	65,239	50%	523,194
11	Rate Study	5	55,000	-	-	-	-	34,778	-	-	-	-	100%	89,778
12	Booster Pump Station & PRV - W of Overlook	4	-	-	-	-	- 1	357,056	-	-	-	-	77%	357,056
13	12-inch Main - 12th Street to Indian Trails	4	-	-	-	-	1,046,723	- 1	-	-	-	-	100%	1,046,723
14	Fish Creek Water Filtration Plant Expansion	3	-	-	-	-		-	-	-	-	-	0%	-
15	Skyline Tank Zone Redundancy	1	-	-	-	166,095	-	-	-	-	-	-	38%	166,095
16	Water Distribution System Expansion (West Lincoln area)	4	-	-	-	-		-	-	-	-	-	0%	-
	Total Non-Growth Related CIP		\$1,801,038	\$5,356,278	\$3,081,513	\$1,965,977	\$2,804,699	\$2,236,583	\$1,935,827	\$2,031,424	\$2,131,766	\$2,237,087		\$25,582,190

													Growth	
Line			Estimated					Projected					Percent	Total
No.	DESCRIPTION	Function	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Allocation	
	Growth Related CIP													
	Wastewater Collection System													
1	Collection Main Replacement	3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0%	\$0
2	Riverwalk Sewer Cost Sharing	3	-	-	-	-	-	-	, -	-	-	-	0%	-
3	Meter Conversion	5	-	-	-	-	-	-		-	-	-	0%	-
4	Dream Island Interceptor Replacement	2	32,500	644,800	36,823	754,406	-	-		-	-	-	65%	1,468,528
5	Mt Werner Interceptor Replacement	2	-	-	-	-	-		802,218	826,284	851,073	876,605	50%	3,356,179
6	I&I Reduction	2	-	-	-	-	-	-	-	-	-	-	0%	-
7	Lagoon Reclaimation	5	-	-	-	-	-	-	-	-	-	-	0%	-
8	Shop Expansion	5	-	-	-	-	-	-	-	-	-	-	0%	-
9	Rate Study	5	-	-	-	-	-		-	-	-	-	0%	-
	WWTP		_	_	_		_			_	_	_	0%	
10	Bar Screen Replacement	1								_			0%	
11	Polishing Pond Liner	1								_			0%	
12	Payment Maintenance	1				-						-	0%	
13	UV Modules (addition)	1	_	_	_	_	109,273	-	_	_	_	_	100%	109,273
14	Digestor #4	1	_	-	_	_	.00,2.0		_	298,513	3,074,685	_	100%	3,373,198
15	Blower Addition	1	_	-	_	-		_	_		98,390	_	100%	98,390
16	Administration/Lunch Room Addition	1	_	_	_			_	_	_	-	443,370	100%	443,370
17	Major Capital Maintenance Projects	1	_	-	-			-	_	_	_	-	0%	-
18	Steamboat II Lift Station Rebuild	4	-	-	-			-	_	-	-	-	0%	-
19	Lower Field Improvements	1	-	-	-	-	-	-	-	-	-	-	0%	-
	WSSAP		-	-			-	-	-	-	-		0%	<del>.</del>
20	New WSSA Lift Station	6	-	-		<b>7</b>	-	-	-	-	-	848,736	100%	848,736
	Total Growth Related CIP		\$32,500	\$644,800	\$36,823	\$754,406	\$109,273	\$0	\$802,218	\$1,124,797	\$4,024,147	\$2,168,710		\$9,697,674

FILE: Stmboat\_WW
SCHEDULE: CIP
DATE: 07/27/10
RANGE: CIP\_INFL2

													Non-Growth	
Line			Estimated					Projected					Percent	Total
No.	DESCRIPTION	Function	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Allocation	
	Non-Growth Related CIP													
	Wastewater Collection System													
1	Collection Main Replacement	3	\$1,084,450	\$1,526,699	\$1,603,034	\$1,683,185	\$1,767,345	\$1,855,713	\$1,948,498	\$2,045,922	\$2,148,218	\$2,255,630	100%	\$17,918,695
2	Riverwalk Sewer Cost Sharing	3	230,000	-	-	-	-	-		-	-	-	100%	230,000
3	Meter Conversion	5	-	164,000	117,420	120,943	-	-		-	-	-	100%	402,363
4	Dream Island Interceptor Replacement	2	17,500	347,200	19,828	406,219	-	-	-	-	-	-	35%	790,746
5	Mt Werner Interceptor Replacement	2	-	-	-	-	-	-	802,218	826,284	851,073	876,605	50%	3,356,179
6	I&I Reduction	2	-	60,000	61,800	63,654	65,564	67,531	69,556	71,643	73,792	76,006	100%	609,546
7	Lagoon Reclaimation	5	125,433	-	-	-	-	-	-	-	-	-	100%	125,433
8	Shop Expansion	5	158,407	-	-	-	-	-		-	-	-	100%	158,407
9	Rate Study	5	15,600	-	-	-	-	33,765	-	-	-	-	100%	49,365
	<u>WWTP</u>		-	-	-	-	-	-	-	-	-	-	100%	-
10	Bar Screen Replacement	1	500,000	-	-	-			-	-	-	-	100%	500,000
11	Polishing Pond Liner	1	275,000	-	-	-	-		-	-	-	-	100%	275,000
12	Payment Maintenance	1	-	400,000	-	-	-		-	-	-	-	100%	400,000
13	UV Modules (addition)	1	-	-	-	-			-	-	-	-	0%	-
14	Digestor #4	1	-	-	-	-	- 1	-	-	-	-	-	0%	-
15	Blower Addition	1	-	-	-	-		-	-	-	-	-	0%	-
16	Administration/Lunch Room Addition	1	-	-	-	-	-	-	-	-	-	-	0%	-
17	Major Capital Maintenance Projects	1	-	201,262	211,325	221,891	232,986	244,635	256,867	269,711	283,196	297,356	100%	2,219,230
18	Steamboat II Lift Station Rebuild	4	-	-	257,500	-	-	-	-	-	-	-	100%	257,500
19	Lower Field Improvements	1	110,000	-	-	-	-	-	-	-	-	-	100%	110,000
	WSSAP		-	-	-		-	-	-	-	-	-	100%	-
20	New WSSA Lift Station	6	-	-		<b>)</b> .	-	-	-	-	-	-	0%	-
	Total Non-Growth Related CIP		\$2,516,390	\$2,699,161	\$2,270,907	\$2,495,892	\$2,065,895	\$2,201,643	\$3,077,139	\$3,213,560	\$3,356,280	\$3,505,598	_	\$27,402,465

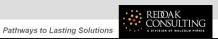
# City of Steamboat Springs

# 2010 Water and Wastewater Rate and Fee Study

City Council Briefing
Draft Study Findings
August 3, 2010

### **Agenda**

- Overview of Rate and Fee Study
- Review 10-Year Financial Plan
- Review Calculated Tap Fees
- Discuss Water and Wastewater Cost of Service Analysis
  - Results
  - 2011 through 2013 Rates for Service
  - Customer Bill Impacts and Rate Survey
- Discussion / Next Steps



Notes:

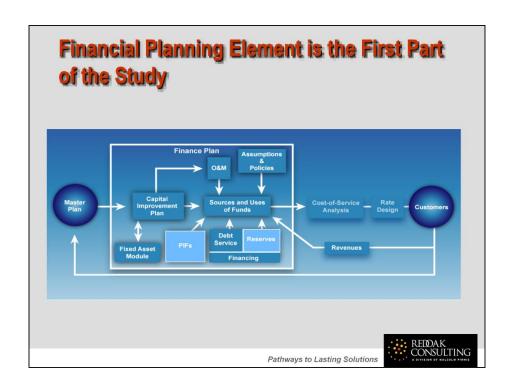
## **Rate and Fee Study**

- Four Major Components
  - 10-year Financial Plan
  - Cost of Service Analysis for Single, 2013 Test-Year
  - Rate and Fees for 2011, 2012 and 2013
    - City
    - Wholesale Customers
    - Updated Tap Fees for January 1, 2011
  - Presentation of Preliminary Recommendations
    - Finalization of Study and Issuance of Report
    - Delivery of Model, User Manual and Training Session

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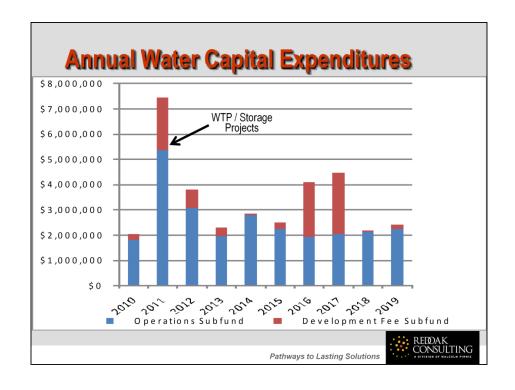
### **Prudent Financial Planning**

- Total System Revenue Must Be Sufficient To Meet:
  - O&M, Debt Service, And Capital Requirements
  - End-of-Year Cash Reserve Target
    - 20% of Annual O&M Expenses
  - Debt Service Coverage Requirements
    - Target of 1.50 times annual debt service
    - Legal requirement is 1.10 times
- Segment each Utility into Operations (Rate) and Tap Fee (Growth) Funds
- Variables to "Balance" Financial Plan
  - Draw Down Reserves
  - Debt Issuance to Fund Capital Improvements
  - Increases in Rate Revenues

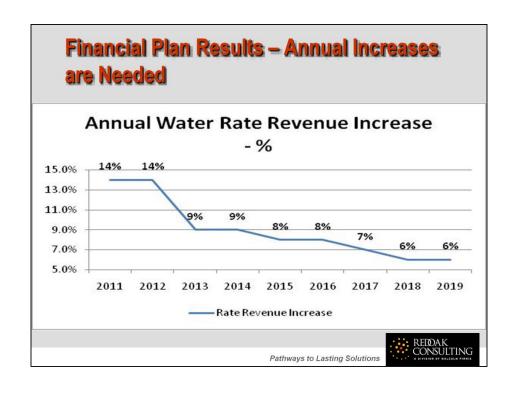


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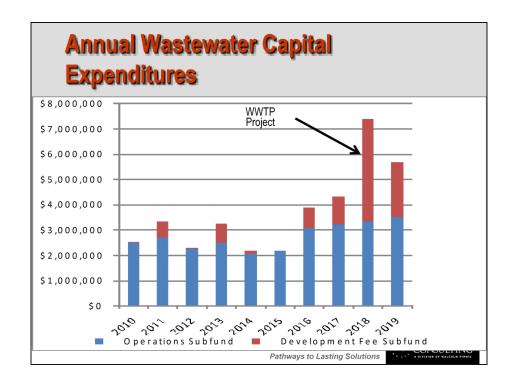
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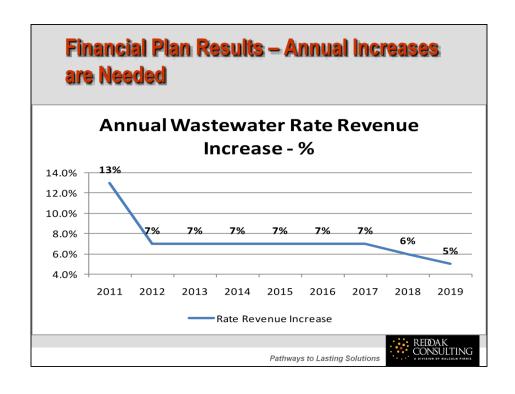
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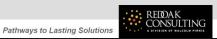
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### **Update Tap Fees**

- Water System
- WWTP and Interceptor
  - Applies to all City and Wholesale Customers
- Wastewater Collection System
  - Applies only to City Customers
- New Tap Fee
  - Water Rights per Equivalent Residential Connection
    - ½ acre-foot of water rights per equivalent connection
    - · Based on most recent City water resource project
      - 1996 Reservoir Expansion



Notes:

# Updated Tap Fees – City Only Customers

Description	Current	Updated	Change
Water System (1)	\$ 3,640	\$ 4,064	\$ 424
Water Rights	<u>0</u>	<u>5,223</u>	5,223
Total Water	3,640	9,287	5,647
WWTP & Interceptor (1)	3,424	4,313	889
Collection System (1)	<u>371</u>	<u>590</u>	<u>219</u>
Total Wastewater	<u>3,795</u>	<u>4,903</u>	<u>1,108</u>
Total Water and Wastewater	\$ 7,435	\$ 14,190	\$ 6,755

<sup>(1)</sup> Fee assessed per fixture unit. Assumes 140 water fixture units and 130 wastewater fixture units per equivalent residential connection.

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# **Updated Tap Fees – Wholesale Customers**

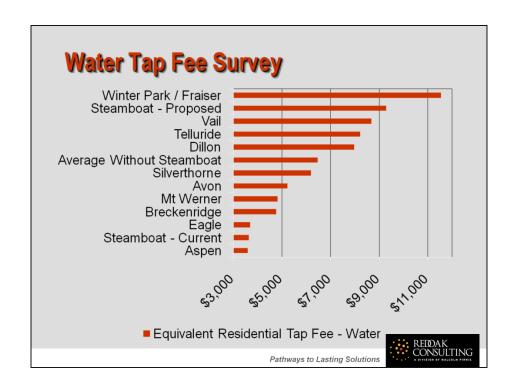
Description	Current	Updated	Change
Water System (1)	\$ 1,820	\$ 2,032	\$ 212
WWTP & Interceptor (1)	3,424	4,313	889

(1) Steamboat II remits 50% of City's water system tap fee for each residential equivalent. Water rights tap fee only applies to City development. Fee assessed per fixture unit. WWTP & Interceptor Tap Fee assessed to development within Steamboat II, Mt Werner and Tree Haus. Assumes 140 water fixture units and 130 wastewater fixture units per equivalent residential connection.

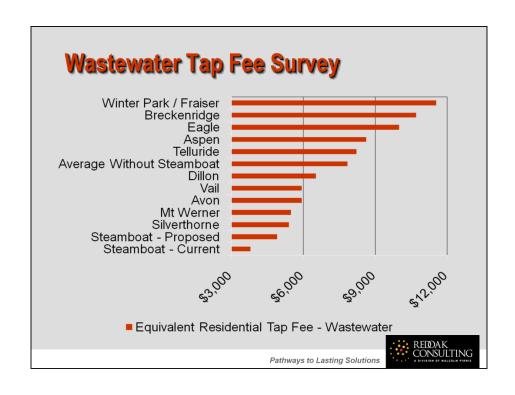
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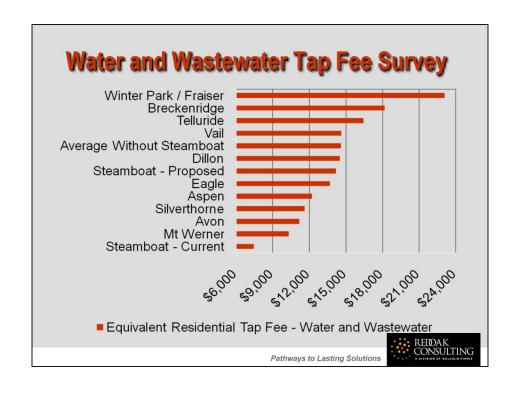
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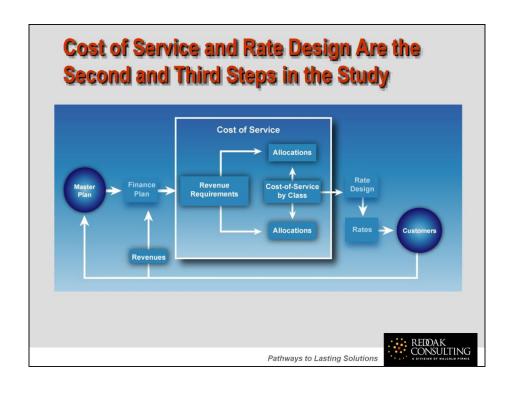
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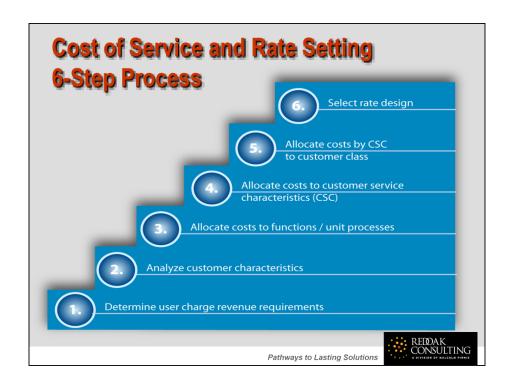
# **Cost of Service and Rate Design Completed for Retail and Wholesale Customer Groups**

- 2013 Test-Year for Cost-of-Service Analysis
  - Water
    - City
    - Steamboat II
  - Wastewater
    - City
    - · Steamboat II
    - Mt Werner
    - Tree Haus



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Notes:			



Notes:			

	2013 Test Year	Revenue at	Indicated
	Cost of	Existing	Revenue
Customer Class	Service	Rates	Increase
City			
Residential	\$1,621,584	\$1,058,003	53.27%
Commercial	676,625	572,990	18.09%
Combined	69,850	88,711	-21.26%
Total	2,368,060	1,719,704	37.70%
Wholesale			
Steamboat II	131,614	44,814	193.69%
Total	131,614	44,814	193.69%
Total System	\$2,499,674	\$1,764,518	41.66%

Notes:			

## **Water Rate Alternatives**

- Alternative 1
  - Uniform increases applied to existing water rates; existing cost relationships maintained
- Alternative 2
  - Phase-in to cost of service based rates by 2013
- Steamboat II
  - Rate governed by contract
    - Assessed a treated water rate per 1,000 gallons
  - Anticipated to increase for inflation



Notes:			

	Existing	Phas	ed Rates - Alt	t. 1
	2010	2011	2012	2013
Monthly Service Charge - City				
Residential	\$15.00	\$17.10	\$19.49	\$21.25
Commercial	19.50	22.23	25.34	27.62
Combined	19.50	22.23	25.34	27.62
Residential Volume Rate per 1,000 gallons				
0 - 4,000 gallons	\$1.58	\$1.80	\$2.05	\$2.28
4,001 - 12,000 gallons	2.37	2.70	3.08	3.42
12,001 - 20,000 gallons	3.63	4.14	4.72	5.24
20,001 - 28,000 gallons	4.73	5.39	6.15	6.83
> 28,000 gallons	7.10	8.09	9.23	10.25
Commercial Volume Rate per 1,000 gallons	\$4.17	\$4.75	\$5.42	\$5.91
Combined Volume Rate per 1,000 gallons	\$4.17	\$4.75	\$5.42	\$5.91

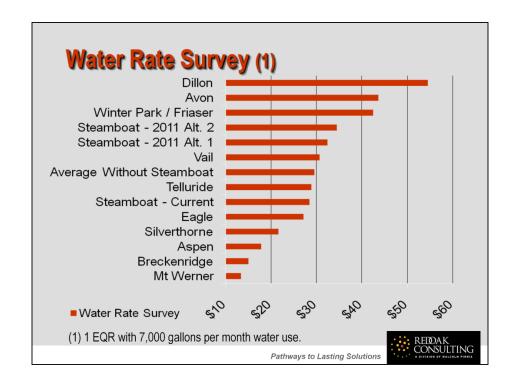
Notes:			

	Existing	Phas	ed Rates - Alt	t. <b>2</b>
	2010	2011	2012	2013
Monthly Service Charge - City				
Residential	\$15.00	\$18.92	\$23.40	\$26.66
Commercial	19.50	23.95	29.20	32.70
Combined	19.50	18.92	23.40	26.66
Residential Volume Rate per 1,000 gallons				
0 - 4,000 gallons	\$1.58	\$1.80	\$2.05	\$2.22
4,001 - 12,000 gallons	2.37	2.70	3.08	3.33
12,001 - 20,000 gallons	3.63	4.14	4.71	5.10
20,001 - 28,000 gallons	4.73	5.39	6.14	6.65
> 28,000 gallons	7.10	8.09	9.21	9.98
Commercial Volume Rate per 1,000 gallons	\$4.17	\$4.28	\$4.41	\$4.50
Combined Volume Rate per 1,000 gallons	\$4.17	\$4.28	\$4.41	\$4.50

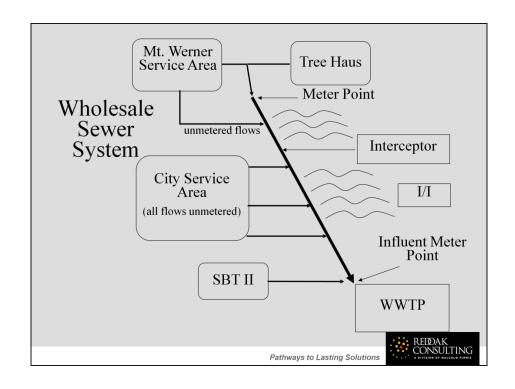
Notes:			

Customer Classification	Monthly Use	Current		2011			2012			2013	
	kgal		\$	\$	%	\$	\$	%	\$	\$	%
Alternative 1											
Inside City - Residential	7	\$28.43	\$32.41	\$3.98	14.0%	\$36.95	\$4.54	14.0%	40.63	\$3.68	10.0%
Inside City - Residential	15	51.17	58.33	7.16	14.0%	66.50	8.17	14.0%	73.44	6.94	10.4%
Inside City - Residential	20	69.32	79.02	9.70	14.0%	90.09	11.06	14.0%	99.63	9.55	10.6%
Inside City - Commercial	28	136.26	155.34	19.08	14.0%	177.08	21.75	14.0%	193.02	15.94	9.0%
Alternative 2											
Inside City - Residential	7	28.43	34.22	5.79	20.4%	40.83	6.61	19.3%	45.53	4.71	11.5%
Inside City - Residential	15	51.17	60.13	8.96	17.5%	70.33	10.20	17.0%	77.48	7.15	10.2%
Inside City - Residential	20	69.32	80.80	11.48	16.6%	93.88	13.07	16.2%	102.98	9.11	9.7%
Inside City - Commercial	28	136.26	143.79	7.53	5.5%	152.68	8.89	6.2%	158.70	6.02	3.9%
Steamboat II - Residential (1)	3651	3,734.97	3,884.37	149.40	4.0%	4,039.75	155.37	4.0%	4,201.34	161.59	4.0%

Notes:			



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Notes:			

	2013 Test Year	Revenue at	Indicated	
	Cost of	Existing	Revenue	
Customer Class	Service	Rates	Increase	
City				
Residential	\$1,280,686	\$940,585	36.16%	
Commercial	465,173	454,954	2.25%	
Combined	1,712	1,844	-7.16%	
Total City	\$1,747,571	\$1,397,383	25.06%	

Notes:			

## Cost of Service to Existing Revenue Wastewater 2013 Test Year Revenue at Indicated Revenue Cost of Existing Revenue

Customer Class	Cost of Service	Existing Rates	Revenue Increase
Customer Class	Service	Nates	IIICIease
Wholesale			
Steamboat II - Residential	\$148,975	\$34,396	333.12%
Steamboat II - Commercial	1,316	716	83.80%
Steamboat II - Combined	0	0	#N/A
Total Steamboat II	\$150,291	\$35,112	328.03%

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Notes:

## **Cost of Service to Existing Revenue - Wastewater**

	2013 Test Year	Revenue at	Indicated
	Cost of	Existing	Revenue
Customer Class	Service	Rates	Increase
Wholesale			
Mt Werner - Residential	\$810,427	\$781,161	3.75%
Mt Werner - Commercial	296,539	152,620	94.30%
Mt Werner - Combined	143,696	78,495	83.06%
Total Mt Werner	\$1,250,662	\$1,012,276	23.55%

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Notes:

## Cost of Service to Existing Revenue -**Wastewater** 2013 Test Year Revenue at Indicated Cost of Existing Revenue **Customer Class** Service Rates Increase Wholesale Tree Haus \$32,450 \$13,979 132.13%

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Notes:

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## **Wastewater Rate Alternatives**

- Alternative 1
  - Phase-in to cost of service based rates by 2013
- Alternative 2
  - Approaches cost of service based rates by 2013
    - Some subsidy from Commercial to Residential customers continues to exist
- Wholesale customers
  - Phase-in to cost of service by 2013

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CONSULTING

Notes:			

	Existing	Phas	ed Rates - Al	t. 1
	2010	2011	2012	2013
Monthly Service Charge - City				
Residential	\$26.88	\$31.18	\$33.80	\$36.60
Commercial	23.61	24.53	25.09	25.70
Combined	23.61	24.53	25.09	25.70
Volume Rate per 1,000 gallons				
Residential	0.00	0.00	0.00	0.00
Commercial	4.97	4.98	4.99	5.00
Combined	4.97	4.98	4.99	5.00

Notes:			

	Existing	Existing Phased Rates -		Alt. 2	
	2010	2011	2012	2013	
Monthly Service Charge - City					
Residential	\$26.88	\$31.26	\$33.92	\$36.00	
Commercial	23.61	27.46	29.80	31.62	
Combined	23.61	27.46	29.80	31.62	
Volume Rate per 1,000 gallons					
Residential	0.00	0.00	0.00	0.00	
Commercial	4.97	4.97	4.97	4.97	
Combined	4.97	4.97	4.97	4.97	

Notes:			

Customer Classification	Avg Use / Bill	Current	t 2011		2012			2013			
	Dill	\$	\$	\$	%	\$	\$	%	\$	\$	%
Alternative 1											
Inside City - Residential		\$26.88	\$31.18	\$4.30	16.0%	\$33.80	\$2.62	8.4%	\$36.60	\$2.80	8.3%
Inside City - Commercial	18	\$113.07	\$114.17	\$1.10	1.0%	\$114.91	\$0.74	0.6%	\$115.70	\$0.79	0.7%
Alternative 2											
Inside City - Residential		\$26.88	\$31.26	\$4.38	16.3%	\$33.92	\$2.66	8.5%	\$36.00	\$2.08	6.19
Inside City - Commercial	18	\$113.07	\$116.92	\$3.85	3.4%	\$119.26	\$2.34	2.0%	\$121.08	\$1.82	1.5%

Notes:			

### Wastewater Rates - Steamboat II Existing **Wholesale Customer Rates** 2010 2011 2012 2013 Monthly Service Charge - Steamboat II \$23.82 Residential \$30.60 \$7.06 \$17.48 Commercial 0.00 0.00 0.00 0.00 Volume Rate per 1,000 gallons Residential 0.00 0.00 0.00 0.00 Commercial \$2.67 \$3.66 \$4.26 \$4.91 reidak Consulting Pathways to Lasting Solutions

Notes:			

	Existing	Wholesa	le Customer	Rates
	2010	2011	2012	2013
Monthly Service Charge - Mt Werner				
Residential	\$10.59	\$10.77	\$10.88	\$11.00
Commercial	0.00	0.00	0.00	0.00
Combined	10.59	10.77	10.88	11.00
Volume Rate per 1,000 gallons				
Residential	0.00	0.00	0.00	0.00
Commercial	2.67	3.74	4.39	5.08
Combined	\$2.67	\$3.74	\$4.39	\$5.08

Notes:			

# Wastewater Rates — Tree Haus Existing Wholesale Customer Rates 2010 2011 2012 2013 Monthly Service Charge - Tree Haus Residential \$10.59 \$16.77 \$20.53 \$24.55

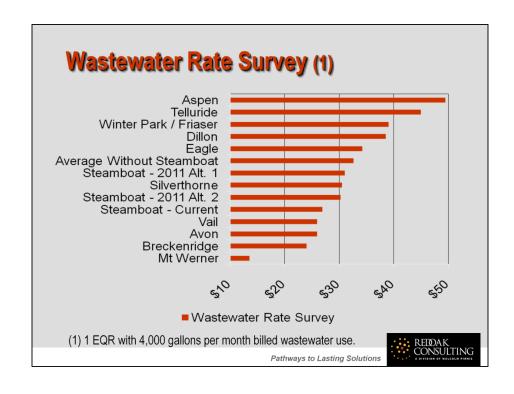
Notes:			

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ustomer Classification	Avg Use / Bill	Current	2011		2012			20
		\$	\$ \$	%	\$ \$	%	\$	9

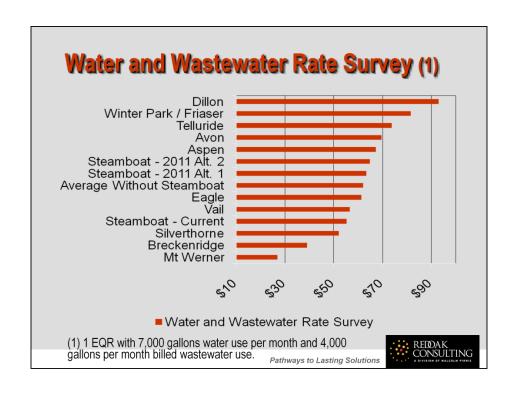
	Avg Use /										
<b>Customer Classification</b>	Bill	Current		2011		2012		2013			
		\$	\$	\$	%	\$	\$	%	\$	\$	%
Wholesale Customers											
Steamboat II - Residential		\$7.06	\$17.48	\$10.42	147.6%	\$23.82	\$6.34	36.3%	\$30.60	\$6.78	28.5%
Steamboat II - Commercial	20	\$53.40	\$73.20	\$19.80	37.1%	\$85.20	\$12.00	16.4%	\$98.20	\$13.00	15.3%
Mt Werner - Residential		\$10.59	\$10.77	\$0.18	1.7%	\$10.88	\$0.11	1.0%	\$11.00	\$0.12	1.1%
Mt Werner - Commercial	52	\$48.06	\$194.48	\$146.42	304.7%	\$228.28	\$33.80	17.4%	\$264.16	\$35.88	15.7%
Tree Haus - Residential		\$10.59	\$16.77	\$6.18	58.4%	\$20.53	\$3.76	22.4%	\$24.55	\$4.02	19.6%



Notes:				
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Notes:			



Notes:			

## **Discussion**

- Discuss Recommendations and Rate Alternatives
- Next Steps
  - Finalize Study and Rate and Fees Proposed for Adoption by City Council
    - January 1, 2011 Effective Date Assumed
  - Special Connectors Agreement Expires in November 2010
    - · Update to reflect rate study



Notes:			

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Notes:			