

ANCHORAGE WATER UTILITY

Public Utilities	Unit No.	Utility	Unit No.	Division	Unit No.	
	8700	ANCHORAGE WATER UTILITY				
<u>RESOURCE IMPACTS</u>						
	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>
Growth Factors - Population	241,300	237,800	240,200	243,100	245,500	249,200
Bond Sales (000)	20,000	21,550	11,131	8,996	8,342	9,704
Grants Anticipated (000)	15,000	898	700	800	800	960
<u>Total Water/Wastewater Personnel Increases</u>						
Program:						
Operations & Maintenance	-	3	5	2	4	4
Treatment Plant	-	4	4	2	3	4
Administrative & General	<u>11</u>	<u>4</u>	<u>3</u>	<u>1</u>	<u>1</u>	<u>1</u>
	11	11	12	5	8	9
Total Personnel	338	349	361	366	374	383
Possible Rate Increases (Year Requested)	30%	55%	08%	20%	04%	0

MUNICIPALITY OF ANCHORAGE

PAGE

Public Utilities	Unit No.	Utility	Unit No.	Division	Unit No.
	8700	ANCHORAGE WATER UTILITY			

MISCELLANEOUS STATISTICAL DATA

	<u>1984 ACTUAL</u>	<u>1985 ACTUAL</u>	<u>1986 ESTIMATED</u>	<u>1987 ESTIMATED</u>
Number of Customers	36,514	38,740	41,000	44,000
Average Treatment Plant Production (GPD)	9,718,658	9,997,698	10,500,000	11,000,000
Average Well Production (GPD)				
Anchorage Bowl Wells	12,702,653	13,699,224	15,300,000	16,000,000
Eagle River Wells	478,066	646,991	450,000	300,000
Miles of Water Mains	593	613	628	640
Number of Fire Hydrants	4,685	4,920	5,087	5,233

Public Utilities	Unit No	Utility	Unit No	Division	Unit No
		ANCHORAGE WATER UTILITY	8700		

1987 Budget Impacts

Operating

1. The polyphosphate treatment program for control of manganese in our deep wells will be fully in place by 1987. This program will result in higher operation and maintenance costs because of the intricate mechanical monitoring requirements and chemical costs.
2. The completion of the Ship Creek Water Treatment Facility expansion will result in higher operation and maintenance costs since the project will more than double the amount of mechanical, process, and control equipment presently in service.

Capital

1. Construction of the Eklutna Water Project is projected to remain as AWWU's largest funding requirement during 1987. This phase is providing for construction of the Water Treatment Plant, Clearwell, Tunnel, P-4 and Energy Recovery Station.
2. Continued construction of the South Anchorage large diameter transmission main will take place during 1987. Phases III and IV will provide the major transmission main across the Seward Highway to connect the southwest portion.
3. Southwest Anchorage 30-inch design construction will take place in 1987. This line will serve southwest Anchorage with 17 MGD of water. Phases III and IV of the Abbott 30-inch project must be constructed before the Southwest 30-inch can become operational.
4. Site acquisition and design in 1987 and construction in 1988 of a .3 million gallon reservoir to serve the 780-foot pressure zone in Eagle River. This reservoir will provide adequate operational, fire, and emergency storage for the Eagle River Area. 1987/\$800,000; 1988/\$1,400,000.
5. Design in 1987 (\$2,900,000) and construction in 1988 (\$8,300,000) of a 48" transmission main from Ship Creek ERS to the Reservoir on Tudor Road. This project is needed to transport an adequate supply to serve projected demands south and west of the Tudor Road Reservoir and the higher elevation areas of Muldoon.

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No.	Utility	Unit No.	Division
	8700	ANCHORAGE WATER UTILITY		
MUNICIPALITY OF ANCHORAGE FINANCIAL DATA				
LINE ITEM DESCRIPTION	1985	1986	1987	1987
	ACTUAL	PRO-FORMA	PROPOSED	ADOPTED
<u>OPERATING BUDGET</u>				
Revenue	18,209,330	20,493,700	27,031,890	
Expense	19,280,680	25,383,670	29,325,020	
Net Income for Governmental Financial Reporting	(1,071,350)	(4,889,970)	(2,293,130)	
Adjustment for Regulatory Reporting	2,989,990	3,690,190	3,364,650	
Net Income (Regulatory)	1,918,640	(1,199,780)	1,071,520	
<u>Capital Budget</u>				
Project Category				
◦ Resource Development	69,140,000	55,200,000	20,000	
◦ Treatment	1,480,000	750,000	950,000	
◦ Distribution Reservoirs	900,000	2,655,000	1,550,000	
◦ Distribution	3,128,000	2,119,000	2,670,000	
◦ Transmission	10,240,000	7,963,000	5,900,000	
◦ Upgrade Transmission	5,827,000	950,000	337,000	
◦ Repair & Rehabilitation	1,570,000	4,060,000	1,223,000	
◦ New Equipment	3,580,000	3,122,000	1,307,000	
◦ Buildings	19,395,000	300,000	0	
Total	115,260,000	77,619,000	13,957,000	

MUNICIPALITY OF ANCHORAGE

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	8700	ANCHORAGE WATER UTILITY		
MUNICIPALITY OF ANCHORAGE FINANCIAL DATA				
LINE ITEM DESCRIPTION	1985 ACTUAL	1986 PRO-FORMA	1987	1987
			PROPOSED	ADOPTED
STATEMENT OF REVENUE & EXPENSE				
<u>OPERATING REVENUE</u>				
4601 Residential Sales	8,525,840	10,190,180	13,762,120	
4602 Commercial Sales	3,548,110	4,121,720	5,646,600	
4603 Industrial Sales	121,290	33,320	44,860	
4630 Public Fire Protection	1,643,110	1,153,740	1,153,740	
4710 Miscellaneous Service Revenue	101,760	120,150	159,780	
Total Operating Revenue	13,940,110	15,619,110	20,767,100	
<u>OPERATING EXPENSE</u>				
6000 Source of Supply	1,400,880	1,765,370	1,972,510	
6400 Treatment	987,420	1,240,620	1,341,120	
6600 Transmission	3,332,780	4,139,190	4,437,140	
9000 Customer Accounts	1,216,450	1,425,300	1,507,030	
9200 Administrative & General	3,098,520	3,742,080	4,177,540	
4030 Depreciation	1,648,700	1,904,340	1,791,530	
4080 Service Assessment Taxes	887,750	1,206,080	1,714,550	
*Total Operating Expense	12,572,500	15,422,980	16,941,420	
Operating Income	1,367,610	196,130	3,825,680	
*Depreciation of Contributed plant not included				

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No.	Utility	Unit No.	Division
	8700	ANCHORAGE WATER UTILITY		
MUNICIPALITY OF ANCHORAGE FINANCIAL DATA				
LINE ITEM DESCRIPTION	1985 ACTUAL	1986 PRO-FORMA	1987	1987
			PROPOSED	ADOPTED
STATEMENT OF REVENUE & EXPENSE				
<u>NON-OPERATING REVENUE</u>				
4180 Rental Income	273,460	311,000	311,000	
4190 Interest Revenue - Construction	1,750,260	3,286,800	2,392,510	
4191 Interest - Short-Term Investment	2,245,500	803,100	850,000	
4192 AFDC	0	473,690	2,711,280	
4210 Miscellaneous Income	0	0	0	
Total Non-Operating Revenue	4,269,220	4,874,590	6,264,790	
<u>NON-OPERATING EXPENSE</u>				
4250 Loss on Refunding Issue	102,630	100,000	100,000	
4270 Interest - Long-Term Debt	3,557,870	6,170,500	8,918,950	
4300 Interest Expense - General Cash Pool	57,690	0	0	
Total Non-Operating Expense	3,718,190	6,270,500	9,018,950	
Non-Operating Income	551,030	(1,395,910)	(2,754,160)	
Net Income	1,918,640	(1,199,780)	1,071,520	
Net Income - Regulatory	1,918,640	(1,199,780)	1,071,520	
Less: 4031 - Depreciation of Contributed plant	2,989,990	3,690,190	3,364,650	
Net Income for Governmental Financial Reporting	(1,071,350)	(4,889,970)	(2,293,130)	

MUNICIPALITY OF ANCHORAGE

Public Utilities	Unit No.	Utility	Unit No.	Division
	8700	ANCHORAGE WATER UTILITY		
MUNICIPALITY OF ANCHORAGE FINANCIAL DATA				
LINE ITEM DESCRIPTION	1985	1986	1987	1987
	ACTUAL	PRO-FORMA	PROPOSED	ADOPTED
STATEMENT OF SOURCES AND USES OF CASH FUNDS				
SOURCES OF CASH FUNDS:				
Net Income (Loss)	(1,071,350)	(4,889,970)	(2,293,130)	
Depreciation	4,638,690	5,594,530	5,156,180	
Bond Proceeds	20,000,000	53,743,550	19,500,000	
Grants	32,710,027	19,384,268	15,000,000	
Assessments	884,617	910,818	500,000	
Other	<u>(288,057)</u>	<u>250,000</u>	<u>250,000</u>	
Total Sources of Cash Funds	\$ <u>56,873,927</u>	\$ <u>74,993,196</u>	\$ <u>38,113,050</u>	
USES OF CASH FUNDS:				
Additions to Plant	37,500,608	56,003,170	65,753,134	
Bond Principal Payment	15,892	241,413	1,606,673	
Other	<u>0</u>	<u>1,643,889</u>	<u>1,647,915</u>	
Total Uses of Cash Funds	<u>37,516,500</u>	<u>57,888,472</u>	<u>69,007,722</u>	
Net Increase (Decrease) in Cash Funds	<u>19,357,427</u>	<u>17,104,724</u>	<u>(30,894,672)</u>	
Cash Balance January 1,	\$ <u>20,215,382</u>	\$ <u>39,572,809</u>	\$ <u>56,677,533</u>	
Cash Balance December 31,	\$ <u>39,572,809</u>	\$ <u>56,677,533</u>	\$ <u>25,782,861</u>	
DETAIL OF CASH BALANCE:				
Equity in General Cash Pool	\$ 3,834,752	\$ 1,505,769	\$ 1,516,904	
Equity in Construction Cash Pool	30,346,086	50,356,664	17,451,037	
Revenue Bond Reserve Cash	<u>5,391,971</u>	<u>4,814,920</u>	<u>6,814,920</u>	
Total Cash Balance December 31,	\$ <u>39,572,809</u>	\$ <u>56,677,353</u>	\$ <u>25,782,861</u>	

MUNICIPALITY OF ANCHORAGE

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	8700	ANCHORAGE WATER UTILITY		
MUNICIPALITY OF ANCHORAGE FINANCIAL DATA				
LINE ITEM DESCRIPTION	1985	1986	1987	1987
	ACTUAL	PRO-FORMA	PROPOSED	ADOPTED
STATEMENT OF CHANGES IN FUND EQUITY				
Balance January 1	\$116,317,287	\$150,939,583	\$176,495,628	
Net Income (Loss)	(1,071,350)	(4,889,970)	(2,293,130)	
Contributions Received	35,693,646	30,446,015	15,000,000	
Deduct Residual Transfers	<u>0</u>	<u>0</u>	<u>0</u>	
Balance December 31,	<u>\$150,939,583</u>	<u>\$176,495,628</u>	<u>\$189,202,498</u>	
Detail of Fund Equity:				
Retained Earnings	\$ 16,451,762	\$ 11,561,792	\$ 9,268,662	
Contributed Capital	<u>134,487,821</u>	<u>164,933,836</u>	<u>179,933,836</u>	
Total Fund Equity December 31,	<u>\$150,939,583</u>	<u>\$176,495,628</u>	<u>\$189,202,498</u>	

MUNICIPALITY OF ANCHORAGE				
Public Utilities	Unit No.	Utility	Unit No.	Division
	8700	ANCHORAGE WATER UTILITY		
MUNICIPALITY OF ANCHORAGE FINANCIAL DATA				
LINE ITEM DESCRIPTION	1985 ACTUAL	1986 PRO-FORMA	1987	1987
			PROPOSED	ADOPTED
<u>STATEMENT OF DEBT SERVICE COVERAGE</u>				
Income Available For Debt Service	5,361,577	4,723,560	8,673,770	
Debt Service Requirement	2,955,129	2,662,000	4,810,900	
Debt Coverage	1.81	1.80	1.80	

MUNICIPALITY OF ANCHORAGE

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MUNICIPALITY OF ANCHORAGE FINANCIAL DATA				
LINE ITEM DESCRIPTION	1985 ACTUAL	1986 PRO-FORMA	1987	1987
			PROPOSED	ADOPTED
<u>NET PROFIT MARGIN</u>				
Net Income Governmental Reporting	(1,071,350)	(4,889,970)	(2,293,130)	
Operating Revenues	13,940,110	15,619,110	20,767,100	
Net Profit Margin Governmental Reporting	(7.69)%	(31.31)%	(11.04)%	
Net Income Regulatory	1,918,640	(1,199,780)	1,071,520	
Operating Revenues	13,940,110	15,619,110	20,767,100	
Net Profit Margin Regulatory	13.76%	(7.68)%	5.16%	

Public Utilities	Unit No	Utility	Unit No.	Division	Unit No.
		ANCHORAGE WATER UTILITY			

1987 CAPITAL IMPROVEMENT BUDGET FINANCIAL SUMMARY

<u>PROJECT TITLE</u>	<u>TOTAL PROJECT COST 1987</u>	<u>REVENUE BONDS</u>	<u>G.O. BONDS</u>	<u>OPERATIONS</u>	<u>STATE GRANTS</u>	<u>FEDERAL GRANTS</u>
Resource Development	20	20	0	0	0	0
Treatment	950	950	0	0	0	0
Distribution Reservoir	1,550	1,550	0	0	0	0
Transmission	5,900	5,300	0	0	600	0
Distribution	2,670	1,520	0	350	800	0
Upgrade Transmission	337	337	0	0	0	0
Repair/Rehabilitation	1,223	1,223	0	0	0	0
New Equipment	1,307	130	0	1,177	0	0
<u>Buildings</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total (000)	13,957	11,030	0	1,527	1,400	0

MUNICIPALITY OF ANCHORAGE

CARRYOVER CAPITAL PROJECTS

1987

Utility Water

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET AMOUNT	REVISION AMOUNT	REVISED BUDGET
Upgrade Transmission	"I" Street/4th to 7th Woodstave R&R	Downtown		R 125	R 125
	"I" Street/7th to 15th Woodstave R&R	Downtown		R 140	R 140
Treatment	Restore/Upgrade Well #1	Merrill Field		R 200	R 200

Source of Funding

G.O. BONDS

REVENUE BONDS

OPERATIONS

STATE GRANTS

FEDERAL GRANTS

TOTAL

	465	465
	465	465

PREPARED BY R.C. Bishope DATE 05-15-86

BUDGET YEAR PROJECTS

Utility Water

1987

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G - G O BONDS R - REV BONDS	OPERATIONS	GRANTS F - FEDERAL S - STATE	TOTAL
Resource Development	Water Master Plan	Areawide	R 20			20
PREPARED BY <u>R.C. Bishop</u> DATE <u>05-15-86</u> TOTAL			20			20

MUNICIPALITY OF ANCHORAGE

BUDGET YEAR PROJECTS

1987

Utility Water

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G-G.O.BONDS R-REV BONDS	OPERATIONS	GRANTS F-FEDERAL S-STATE	TOTAL
Treatment	Miscellaneous Well Upgrades/R&R Emergency	Areawide	R 450			450
	Miscellaneous New Well Acquisitions/Upgrades	Areawide	R 300			300
PREPARED BY <u>R.C. Bishope</u> DATE <u>05-15-86</u> TOTAL			G 750 R		F S	750

BUDGET YEAR PROJECTS

1987

Utility Water

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G - G O BONDS R - REV BONDS	OPERATIONS	GRANTS F - FEDERAL S - STATE	TOTAL
Transmission	Private Development Oversizing	Areawide	R 230			230
	Eagle River Transmission System Interties	Eagle River/Chugiak	R 200			200
	New Pressure Reducing Valves & Vaults	Areawide	R 75			75
	Turnagain View East 24" (Design/ROW Acq.)	Hillside	R 75			75
	Raspberry Road 12" (D) Betterment (D)	Sand Lake	R 100			100
	16" Reservoir Intertie (Design)	Eagle River/Chugiak	R 50			50
	Old Glenn Highway 24" (Design)	Eagle River/Chugiak	R 400			400
	DeBarr/15th 16" Main (Construction)	Merrill Field	R 720			720
	ERS to Tudor Tanks 48" (Design)	Muldoon	R 2,900			2,900
Muldoon Area Connections and Upgrades (Design)	Muldoon	R 200			200	
PREPARED BY <u>R.C. Bishope</u> DATE <u>05-15-86</u> TOTAL			G R		F S	con't.

BUDGET YEAR PROJECTS

1987

(000)

Utility Water

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G GO BONDS R REV BONDS	OPERATIONS	GRANTS F FEDERAL S STATE	TOTAL
Transmission (continued)	Eagle River Main Improvements (Design)	Eagle River/Chugiak	R 50			50
	War Admiral Road 12"	Eagle River/Chugiak	R 200			200
	MOA Capital Projects/ 36th Avenue Imps. (Construction)	Spenard			S 600	600
	Raspberry Road 12" Intertie (D/C)	Sand Lake	R 100			100
PREPARED BY <u>R.C. Bishope</u> DATE <u>05-15-86</u> TOTAL			5,300		F 600 S	5,900

BUDGET YEAR PROJECTS

Utility Water

1987

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G-G O BONDS R-REV BONDS	OPERATIONS	GRANTS F-FEDERAL S-STATE	TOTAL
Distribution Reservoirs	Distribution Reservoir Site Acquisition	Eagle River/Chugiak	R 450			450
	Reservoir Painting	Areawide	R 300			300
	Eagle River 780' Zone Reservoir (Design)	Eagle River/Chugiak	R 800			800
PREPARED BY <u>R.C. Bishope</u> DATE <u>05-15-86</u> TOTAL			G 1,550 R		F S	1,550

BUDGET YEAR PROJECTS

1987

Utility Water

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G-G.O BONDS R-REV BONDS	OPERATIONS	GRANTS F-FEDERAL S-STATE	TOTAL
Distribution	Anticipated Water Improvement Districts (WID's)	Areawide	R 1,200		S 800	2,000
	Service Connects	Areawide		350		350
	Bonnie Way Intertie & Booster Station	Eagle River/Chugiak	R 170			170
	Crestview Booster Station (D/C)	Eagle River/Chugiak	R 150			150
PREPARED BY <u>R.C. Bishop</u> DATE <u>05-15-86</u> TOTAL			1,520	350	800	2,670

G
R

F
S

BUDGET YEAR PROJECTS

1987

Utility Water

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G - G O BONDS R - REV BONDS	OPERATIONS	GRANTS F - FEDERAL S - STATE	TOTAL
Upgrade Transmission	Replace 15th Ave./10" "C" to "L" Street (D)	Inlet View	R 72			72
PREPARED BY <u>R.C. Bishope</u> DATE <u>05-15-86</u> TOTAL			G 72 R		F S	72

BUDGET YEAR PROJECTS

1987

Utility Water

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G: G.O BONDS R: REV BONDS	OPERATIONS	GRANTS F: FEDERAL S: STATE	TOTAL
Repair & Rehabilitation	State DOTPF Highway Related Projects	Areawide	R 100			100
	Municipality of Anch. Road Related Projects	Areawide	R 100			100
	Woodstave Line Replacement	Downtown/Government Hill	R 400			400
	R&R Emergency Lines	Areawide	R 300			300
	Pressure Reducing Vaults R&R	Areawide	R 210			210
	Cassius Court/Rosemary to Thunderbird	Lake Otis	R 98			98
	Heritage Estates Reservoir Booster Sta.	Eagle River/Chugiak	R 15			15
PREPARED BY <u>R.C. Bishope</u> DATE <u>05-15-86</u>			1,223			1,223
TOTAL			G R		F S	

BUDGET YEAR PROJECTS

1987

Utility Water

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	FUNDING			
			BONDS G: G.O BONDS R: REV BONDS	OPERATIONS	GRANTS F: FEDERAL S: STATE	TOTAL
New Equipment	Miscellaneous Equipment	Areawide		600		600
	Water Meters	Areawide		275		275
	Vehicles	Areawide		302		302
	Miscellaneous Computer Software	Areawide	R 130			130
PREPARED BY <u>R.C. Bishope</u> DATE <u>05-15-85</u> TOTAL			G 130 R	1,177	F S	1,307

Public Utilities	Unit No	Utility	Unit No	Division	Unit No							
ANCHORAGE WATER UTILITY												
CIB/CIP 1987 - 1992												
<u>PROJECT TITLE</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>REVENUE BONDS</u>	<u>G.O. BONDS</u>	<u>OPERA- TIONS</u>	<u>STATE GRANTS</u>	<u>FEDERAL GRANTS</u>	<u>TOTAL</u>
Resource Development	20	0	220	1,000	200	0	1,440	0	0	0	0	1,440
Treatment	950	550	550	550	550	550	3,700	0	0	0	0	3,700
Distribution Reservoir	1,550	3,950	300	300	800	4,300	11,200	0	0	0	0	11,200
Transmission	5,900	13,676	4,815	4,065	3,850	1,750	33,456	0	0	600	0	34,056
Distribution	2,670	2,118	2,100	2,350	2,350	2,750	7,280	0	2,100	4,958	0	14,338
Upgrade Transmission	337	506	890	50	50	50	1,883	0	0	0	0	1,883
Repair/Rehabilitation	1,223	1,398	1,396	1,426	1,387	1,309	8,139	0	0	0	0	8,139
New Equipment	1,307	1,580	3,080	1,605	1,480	1,705	3,455	0	7,302	0	0	10,757
<u>Buildings</u>	<u>0</u>	<u>120</u>	<u>80</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>200</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>200</u>
Total Program	13,957	23,898	13,431	11,346	10,667	12,414	70,753	0	9,402	5,558	0	85,713
<u>SOURCE OF FUNDING</u>												
Revenue Bonds	11,030	21,550	11,131	8,996	8,342	9,704	70,753					70,753
G.O. Bonds	0	0	0	0	0	0		0				0
Operational	1,527	1,450	1,600	1,550	1,525	1,750			9,402			9,402
State Grant	1,400	898	700	800	800	960				5,558		5,558
<u>Federal Grant</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					<u>0</u>	<u>0</u>
Total Funding	13,957	23,898	13,431	11,346	10,667	12,414						85,713

FUTURE CAPITAL PROJECTS

Utility Water

1988 - 1992

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR					
			1988	1989	1990	1991	1992	
Resource Development	Production Well #16	Areawide		200	1,000			
	Water Master Plan	Areawide		20				
	Test Wells	Areawide				200		
Source of Funding			G.O. BONDS	_____	_____	_____	_____	_____
			REVENUE BONDS	_____	220	1,000	200	_____
			OPERATIONS	_____	_____	_____	_____	_____
			STATE GRANTS	_____	_____	_____	_____	_____
			FEDERAL GRANTS	_____	_____	_____	_____	_____
			TOTAL	_____	220	1,000	200	0

PREPARED BY R.C. Bishope DATE 05-15-86

FUTURE CAPITAL PROJECTS

Utility Water

1988 - 1992

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR				
			1988	1989	1990	1991	1992
Treatment	Miscellaneous Well Upgrades/R & R Emergency	Areawide	R 250	R 250	R 250	R 250	R 250
	Miscellaneous New Well Acquisitions/Upgrades	Areawide	R 300	R 300	R 300	R 300	R 300
Source of Funding			G.O. BONDS				
			REVENUE BONDS	550	550	550	550
			OPERATIONS				
			STATE GRANTS				
			FEDERAL GRANTS				
			TOTAL	550	550	550	550

PREPARED BY R.C. Bishope DATE 05-15-86

FUTURE CAPITAL PROJECTS

Utility Water

1988 - 1992

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR					
			1988	1989	1990	1991	1992	
Distribution Reservoirs	Distribution Reservoir Turnagain View/Doc Hines (Const.)	Hillside	R 2,250					
	Reservoir Painting	Areawide	R 300	R 300	R 300	R 300	R 300	
	Eagle River 780' Zone Reservoir (Const.)	Eagle River/Chugiak	R 1,400					
	Distribution Reservoir Service Hanshew	Hillside				R 500	R 4,000	
Source of Funding			G.O. BONDS					
			REVENUE BONDS	<u>3,950</u>	<u>300</u>	<u>300</u>	<u>800</u>	<u>4,300</u>
			OPERATIONS					
			STATE GRANTS					
			FEDERAL GRANTS					
			TOTAL	<u>3,950</u>	<u>300</u>	<u>300</u>	<u>800</u>	<u>4,300</u>

PREPARED BY R.C. Bishop DATE 05-15-86

FUTURE CAPITAL PROJECTS

1988 - 1992

Utility Water

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR					
			1988	1989	1990	1991	1992	
Transmission	Private Development Oversizing	Areawide	R 250	R 250	R 250	R 250	R 250	
	Eagle River Transmission System Interties	Eagle River, Chugiak	R 100	R 300				
	New Pressure Reducing Valves & Vaults	Areawide	R 75	R 75	R 75			
	Turnagain View East 24" (Construction)	Hillside	R 575					
	Raspberry Road 12" (C) Betterment (Const.)	Sand Lake	R 300					
	16" Reservoir Intertie (Construction)	Eagle River/Chugiak	R 150					
	Old Glenn Highway 24" (Construction)	Eagle River/Chugiak	R 1,100					
	ERS to Tudor Tanks 48" (Construction)	Muldoon	R 8,300					
Muldoon Area Connects & Upgrades (Const.)	Muldoon	R 500						
Source of Funding			G.O. BONDS	_____	_____	_____	_____	_____
			REVENUE BONDS	_____	_____	_____	_____	_____
			OPERATIONS	_____	_____	_____	_____	_____
			STATE GRANTS	_____	_____	_____	_____	_____
			FEDERAL GRANTS	_____	_____	_____	_____	_____
			TOTAL	_____	_____	_____	_____	_____
PREPARED BY	<u>R.C. Bishope</u>	DATE	<u>05-15-86</u>					

FUTURE CAPITAL PROJECTS

Utility Water

1988 - 1992

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR				
			1988	1989	1990	1991	1992
Transmission (continued)	Eagle River Main Improvements (Const.)	Eagle River/Chugiak	R 150				
	War Admiral 12" (Con.)	Eagle River/Chugiak	R 500				
	Spenard Road Phase II (Design & Const.)	Spenard/International Airport	R 216				
	Denali/40th to Tudor	Spenard	R 160				
	6th & 32nd Ave. Mains	Muldoon	R 300	R 900			
	Fire Lake School Main	Eagle River/Chugiak	R 100	R 400			
	Jewel Lake Main	Sand Lake	R 700	R 1,900			
	South Eagle River Loop	Eagle River/Chugiak	R 200	R 500			
	92nd/Diamond to King St. (Southwest Anchorage)	Campbell Lake/Klatt		R 330	R 1,000		
	Tudor 16"/Arctic to Minnesota	Spenard		R 80	R 220		
	Timber Lane 16"	Campbell Lake/Klatt		R 80	R 220		
	Misc. New Transmission Mains	Areawide			R 1,500	R 1,500	R 1,500
Source of Funding			G.O. BONDS	_____	_____	_____	_____
			REVENUE BONDS	_____	_____	_____	_____
			OPERATIONS	_____	_____	_____	_____
			STATE GRANTS	_____	_____	_____	_____
			FEDERAL GRANTS	_____	_____	_____	_____
			TOTAL	_____	_____	_____	(cont'd)

PREPARED BY R.C. Bishop

DATE 05-15-86

FUTURE CAPITAL PROJECTS

Utility Water

1988 - 1992

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR					
			1988	1989	1990	1991	1992	
Transmission (continued)	South Birchwood Loop Mains	Eagle River/Chugiak			R 200	R 500		
	West Dimond/Sand Lake Mains	Sand Lake/Campbell Lake/Klatt			R 600	R 1,600		
Source of Funding								
			G.O. BONDS					
			REVENUE BONDS	<u>13,676</u>	<u>4,815</u>	<u>4,065</u>	<u>3,850</u>	<u>1,750</u>
			OPERATIONS					
			STATE GRANTS					
			FEDERAL GRANTS					
			TOTAL	<u>13,676</u>	<u>4,815</u>	<u>4,065</u>	<u>3,850</u>	<u>1,750</u>

PREPARED BY R.C. Bishope

DATE 05-15-86

FUTURE CAPITAL PROJECTS

1988 - 1992

Utility Water

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR					
			1988	1989	1990	1991	1992	
Distribution	Anticipated Water Improvement Districts (WID's)	Areawide	R 870	R 1,050	R 1,200	R 1,200	R 1,440	
			S 580	S 700	S 800	S 800	S 960	
	Service Connects	Areawide	O 350	O 350	O 350	O 350	O 350	
	Capital Projects/Lake Otis Water Improvements	Abbott Loop	S 318					
Source of Funding			G.O. BONDS					
			REVENUE BONDS	870	1,050	1,200	1,200	1,440
			OPERATIONS	350	350	350	350	350
			STATE GRANTS	898	700	800	800	960
			FEDERAL GRANTS					
			TOTAL	2,118	2,100	2,350	2,350	2,750
PREPARED BY <u>R.C. Bishop</u>			DATE <u>05-15-86</u>					

FUTURE CAPITAL PROJECTS

Utility Water

1988 - 1992

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR				
			1988	1989	1990	1991	1992
Upgrade Transmission	Eagle River Hydrants	Eagle River/Chugiak		R 50	R 50	R 50	R 50
	Replace 15th Avenue/ 10-inch/"C" to "L" St.	Inlet View	R 506				
	Sunny Slopes Phase II	Eagle River/Chugiak		R 840			
Source of Funding			G.O. BONDS				
			REVENUE BONDS	506	890	50	50
			OPERATIONS				
			STATE GRANTS				
			FEDERAL GRANTS				
			TOTAL	506	890	50	50

PREPARED BY R.C. Bishope DATE 05-15-86

FUTURE CAPITAL PROJECTS

Utility Water

1988 - 1992

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR				
			1988	1989	1990	1991	1992
Repair and Rehabilitation	State DOTPF Highway Related Projects	Areawide	R 100	R 100	R 100	R 100	R 100
	Municipality of Anch. Road Related Projects	Areawide	R 100	R 100	R 100	R 100	R 100
	Woodstave Line Replacement	Downtown, Government Hill	R 475	R 400	R 400	R 400	R 400
	R & R Emergency-Lines	Areawide	R 300	R 300	R 300	R 300	R 300
	Pressure Reducing Vaults R&R	Areawide	R 220	R 230	R 240	R 240	R 240
	Park Strip/7th to 10th between "N" & "M"	Inlet View	R 113				
	Heritage Estates Reservoir Booster Station	Eagle River/Chugiak	R 90				
	10/11 Alley - "G" to "H" Street	Inlet View		R 56			
	"G" Street/9th-11th & 11th East & West of "G"	Inlet View		R 210			
"G"/"H" Alley - 11th to 14th & 14th/"E" to "H"	Inlet View			R 286			
Source of Funding		G.O. BONDS	_____	_____	_____	_____	_____
		REVENUE BONDS	_____	_____	_____	_____	_____
		OPERATIONS	_____	_____	_____	_____	_____
		STATE GRANTS	_____	_____	_____	_____	_____
		FEDERAL GRANTS	_____	_____	_____	_____	_____
		TOTAL	_____	_____	_____	_____	_____

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DATE 05-15-86

(cont'd)

FUTURE CAPITAL PROJECTS

Utility Water

1988 - 1992

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR				
			1988	1989	1990	1991	1992
Repair and Rehabilitation (continued)	Manor/Harvard Alley between Brown & Erickson Street	Ship Creek				R 247	
	"K" - 13th to 16th	Inlet View					R 169
Source of Funding							
G.O. BONDS							
REVENUE BONDS			<u>1,398</u>	<u>1,396</u>	<u>1,426</u>	<u>1,387</u>	<u>1,309</u>
OPERATIONS							
STATE GRANTS							
FEDERAL GRANTS							
TOTAL			<u>1,398</u>	<u>1,396</u>	<u>1,426</u>	<u>1,387</u>	<u>1,309</u>

PREPARED BY R.C. Bishop DATE 05-15-86

FUTURE CAPITAL PROJECTS

1988 - 1992

Utility Water

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR				
			1988	1989	1990	1991	1992
New Equipment	Miscellaneous Equipment	Areawide	0 600	0 600	0 600	0 600	0 600
	Water Meters	Areawide	0 300	0 325	0 350	0 375	0 400
	Vehicles	Areawide	0 200	0 325	0 250	0 200	0 400
	Remote meter reading program	Areawide		R 1,500	R 75	R 75	R 75
	Graphics Information System (GIS)	Areawide	R 350	R 200	R 200	R 100	R 100
	Miscellaneous Computer Software	Areawide	R 130	R 130	R 130	R 130	R 130
Source of Funding							
		G.O. BONDS					
		REVENUE BONDS	480	1,830	405	305	305
		OPERATIONS	1,100	1,250	1,200	1,175	1,400
		STATE GRANTS					
		FEDERAL GRANTS					
		TOTAL	1,580	3,080	1,605	1,480	1,705

PREPARED BY R.C. Bishop DATE 05-15-86

FUTURE CAPITAL PROJECTS

1988 - 1992

Utility Water

(000)

PROJECT CATEGORY	PROJECT TITLE	LOCATION	BUDGET BY YEAR				
			1988	1989	1990	1991	1992
Buildings	Administration Building Improvements	Spenard	R 120	R 80			

Source of Funding

G.O. BONDS				
REVENUE BONDS	120	80		
OPERATIONS				
STATE GRANTS				
FEDERAL GRANTS				
TOTAL	120	80		

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