

MUNICIPALITY OF ANCHORAGE — CIP - 1
DEPARTMENT CAPITAL NEEDS ANALYSIS

Department	ANCHORAGE SEWER UTILITY
Program Category	ANCHORAGE SEWER UTILITY

POLICY GOALS

The policy goals of the Sewer Utility is to provide high level, reasonable cost service to all existing and future customers through reasonable and responsible development in the Anchorage, Eagle River and Girdwood/Alyeska areas in accordance with the Comprehensive Development Plan and the Sewer Master Plan.

SIX-YEAR DEPARTMENT GOALS AND STRATEGY

The long term goals of the Sewer Utility emphasize realistic and orderly development and expansion of sewage collection and treatment systems only where normal and/or planned development has generated an identifiable public need; repair or replacement of existing sewer lines and manholes, in an ongoing program to reduce and control inflow and infiltration to the systems; upgrading existing treatment facilities for greater operating efficiency and to insure compliance with state and federal regulatory agency requirements; upgrading and expanding collection system pumping stations for improved operating efficiency and to fully serve those areas that cannot be served by a gravity flow system alone; upgrade and expansion of a computerized monitoring and control system for improved operation and maintenance of all treatment facilities and satellite pumping stations; and further development of a Continuous Property Records Management Information System.

PRIORITY CRITERIA

Priority criteria revolve around a systematic preventive maintenance and rehabilitation program and progressive development of the collection system based on need/demand for public wastewater collection. The work will be in accordance with the Comprehensive Development Plan and the Sewer Master Plan, and State and Federal regulations.

MUNICIPALITY OF ANCHORAGE — CIP - 2
EXISTING CAPITAL BUDGET SUMMARY

Department	ANCHORAGE SEWER UTILITY
Project Category	ANCHORAGE SEWER UTILITY - TREATMENT

EXISTING CAPITAL IMPROVEMENT BUDGET/PROJECTS COMPLETED DURING PRIOR YEAR			
PROJECT TITLE/COST CENTER	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
Sewer Treatment Facility (1977 p. 246) (9679-7501)	2,000	2,000	Proceeding as described. Construction is underway and scheduled for completion during 1981/1982.
Solids Processing- Sludge Incineration (1978 p. 751)	1,083	1,083	Proceeding as described. This project is a portion of the Point Woronzof Wastewater Treatment Plant upgrade the design of which was completed in 1981. Construction is currently scheduled for 1981/1982.
Solids Processing- Heat Recovery (1978 p. 753)	268	268	Proceeding as described. This project is a portion of the Point Woronzof Wastewater Treatment Plant upgrade the design of which was completed in 1981. Construction is currently scheduled for 1981/1982.
Sewer Treatment Plant Upgrade (1979 p. 93; 1980 p. 289) (9400-5010)	3,500	2,975	Proceeding as described. Project designed in 1981 with construction scheduled for 1981/1982. Additional funding will be appropriated as state and federal grant offers are received.
Asphalt Paving-Sewer Treatment Plant Shop Area (1980 p. 289)	59	59	Project delayed pending installation of the flammable storage area as a part of the overall plant upgrade.
Plant Air Compressor (1980 p. 289)	19	19	Proceeding as described. Equipment to be purchased during 1981.
Maintenance Shop Building (1980 p. 289)	55	55	Proceeding as described. Design scheduled for 1981 with construction in 1983.
Treatment Plant Outfall (1980 p. 289)	870	155	Design scheduled for 1983 with construction scheduled for 1984. Additional funding will be appropriated as state and federal grant offers are received.
Pumper Truck Dump Station (1980 p. 289)	253	253	Proceeding as described. Design and site acquisition underway. Construction scheduled for 1983.
Storage Building (1980 p. 336)	12	12	Proceeding as described.
Replace Screening Equipment (1981 p. 350)	422	422	Proceeding as described.

MUNICIPALITY OF ANCHORAGE
CAPITAL PROJECT CATEGORY SUMMARY

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DEPARTMENT: SEWER UTILITY

PROJECT CATEGORY: TREATMENT

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1982	1983	1984	1985	1986	1987			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	107	1,319	1,150	0	0	0	2,576		
LAND AND R.O.W.	0	0	0	0	0	0	0		
CONSTRUCTION	252	2,483	25,472	0	0	0	28,207		
EQUIPMENT	30	0	1,226	0	0	0	1,256		
INTERFUND CHARGES	31	221	3,045	0	0	0	3,297		
OTHER	38	440	1,919	0	0	0	2,397		
TOTAL	458	4,463	32,812	0	0	0	37,733	0	37,733
SOURCE OF FUNDS							TOTAL FUNDS	REIMBUR SABLES	NON-REIM BURSABLES
G.O. BONDS AUTH.									
G.O. BONDS UNAUTH.	0	1,816	8,000	0	0	0	9,816	0	
REVENUE BONDS	0	0	0	0	0	0	0		
FEDERAL GRANT	0	837	20,795	0	0	0	21,632	21,632	
STATE GRANT	420	1,082	3,198	0	0	0	4,700	4,700	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	38	728	819	0	0	0	1,585		
OTHER	0	0	0	0	0	0	0		
TOTAL	458	4,463	32,812	0	0	0	37,733	26,332	11,401

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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Department ANCHORAGE SEWER UTILITY		Account Code 551-8008-9400							
Program Category ANCHORAGE SEWER UTILITY		Project Category TREATMENT							
PROJECT TITLE	TOTAL PROJECT COST						BONDS <input checked="" type="checkbox"/> G.O. <input type="checkbox"/> REV	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1982	1983	1984	1985	1986	1987	THOUSANDS OF DOLLARS		
Chlorine Sample Pump Power Cable Replacement	23							23	
Lagoon Cover	25	266					160		131
Wet Well Access Ladder	2							2	
Maintenance Shop Building	55	2,121					1,273		903
TOTALS	105	2,387					1,433	25	1,034

MUNICIPALITY OF ANCHORAGE – CIP - 5
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

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Department ANCHORAGE SEWER UTILITY	Account Code 551-8008-9400
Program Category ANCHORAGE SEWER UTILITY	Project Category TREATMENT
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
Chlorine Sample Pump Power Cable Replacement	<p>Project provides for replacement of the frequently broken underground power cable serving the Pt. Woronzof Wastewater Treatment Plant chlorine tower sample pump with a highline power cable. Breaks to the existing cable have been caused by frost heaves due to location along embankment, previous underlying Chugach cable trenches, and embankment slippage. This pump delivers representative samples from the chlorine tower to the Pt. Woronzof Wastewater Treatment Plant for analysis. Since 1971 this cable had broken on the average of twice a year and inoperable for an average of 30 working days per year. Operational loss of the pump requires the expenditures of man hours, frequently during hazardous weather conditions, gathering samples used for discharge standard analysis. Samples need to be gathered daily and requires two man hours per day at an average wage of \$8.00 per hour or \$480.00 per year for a total since 1971 of \$4800.00. The new high-line cable will eliminate the frequent breaks, man hours expended gathering grab samples, and insure representative samples for these critical tests. The last cost for repairing a break to this cable was \$6000.00.</p>
Lagoon Cover	<p>Provide an enclosure over aeration lagoon for the purpose of maintaining above freezing temperatures. During the winter season heavy ice forms preventing the normal treatment process and severely damages major components of the facility resulting in unanticipated high maintenance costs.</p>
Wet Well Access Ladder	<p>Construct and install a 33 foot ladder and safety cage in the influent wet well tank at the Girdwood/Alyeska Westewater Treatment Facility. This will permit the safe entrance and exit of personnel who perform maintenance and inspection of equipment located in the wet well.</p>
Maintenance Shop Building	<p>This project will construct a new maintenance shop and warehouse facility on the Pt. Woronzof Wastewater Treatment Plant site North of the sludge/incinerator building in order to take advantage of available waste heat generated by the sludge incinerator as a source for structural heat. The existing shop was originally designed and constructed to facilitate maintenance requirements of the Pt. Woronzof Plant only. Since that time, maintenance requirements of this facility have grown to include the Anchorage Water Treatment Plant, the Girdwood Wastewater Treatment Plant and the Eagle River Wastewater Treatment Plant, 23 wastewater lift stations and 15 fresh water satellites. With this additional work the current facility is entirely inadequate and has created proven personnel safety hazards. The construction and utilization of this new facility will effect a minimum annual savings of \$163,000 by the Treatment Division Maintenance Section.</p>

**MUNICIPALITY OF ANCHORAGE - CIP - 4
CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY**

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Department ANCHORAGE SEWER UTILITY				Account Code 551-8008-9400					
Program Category ANCHORAGE SEWER UTILITY				Project Category TREATMENT					
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1982	1983	1984	1985	1986	1987	<input checked="" type="checkbox"/> G.O. <input type="checkbox"/> REV		
	THOUSANDS OF DOLLARS								
Sludge Incinerator Pre-Cool Stack	340								340
P.A. - Audio Alarm System	13							13	

MUNICIPALITY OF ANCHORAGE - CIP - 5
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

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Department ANCHORAGE SEWER UTILITY		Account Code 551-8008-9400	
Program Category ANCHORAGE SEWER UTILITY		Project Category TREATMENT	
PROJECT TITLE		SUMMARY OF PROJECT SCOPE	
Sludge Incinerator Pre-Cool Stack		<p>Replacement of the sludge incinerator pre-cool stack will allow continued incineration of sludge produced at the Pt. Woronzof Wastewater Treatment Plant. After 1982 the pre-cool stack will be worn so badly that no further repairs can be made. This will shut down sludge incineration and necessitate disposing of approximately 35,000 dry pounds of sludge per day at the landfill. This material is potentially disease producing and will create an odor problem. Adding water heat exchange capabilities and apparatus will provide for scavenging waste heat. Sufficient waste heat is available to serve all existing plant structures to an outside ambient temperature of 0°F after which existing plant boilers will be needed for supplemental heat. Addition of this capability will reduce natural gas consumption at the plant for building heat by 95% at a dollar savings of \$19,000 per year.</p>	
P.A. Audio Alarm System		<p>Upgrading by relocating and expanding the existing public address system at the Pt. Woronzof Wastewater Treatment Plant Project is necessary in order to meet current electric codes, service properly, dissipate excessive equipment heat; provide amplification power requirements for adequate coverage, and compatible location with existing communication equipment. The system has been added to since it was initially installed during plant construction and due to location and limited access, further expansion is not possible. By completing this project, the Pt. Woronzof Wastewater Treatment Plant is projecting a savings of four to six man hours per week or an annual savings of \$5,200.00 per year. By having a multiple tone system from the treatment and satellite facilities, the operators will be able to do work throughout the plant and still monitor for different audio alarms.</p>	

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Department ANCHORAGE SEWER UTILITY				Account Code 551-8008-9400					
Program Category ANCHORAGE SEWER UTILITY				Project Category TREATMENT					
PROJECT TITLE	TOTAL PROJECT COST						BONDS <input checked="" type="checkbox"/> G.O. <input type="checkbox"/> REV	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1982	1983	1984	1985	1986	1987			
	THOUSANDS OF DOLLARS								
Sludge Incinerator No. 1 Overhaul		570						570	
Convert Shop Area to Plant Laboratory		32	315					347	
Control Room Relocation		126	504					630	

MUNICIPALITY OF ANCHORAGE - CIP - 5
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

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Department ANCHORAGE SEWER UTILITY	Account Code 551-8006-9400
Program Category ANCHORAGE SEWER UTILITY	Project Category TREATMENT
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
Sludge Incinerator #1 Overhaul	<p>Sludge Incinerator #1 was installed at the Pt. Woronzof Wastewater Treatment Plant during construction in 1971. The manufacturer's specifications and operating manuals estimate the average life to this incinerator before major overhaul is seven years. This incinerator had been operating 11 years, 4 years beyond its estimated life without major overhaul. Because of the magnitude and complexity of this overhaul, a long lead time is needed in preparation. The condition of the incinerator now suggests overhaul must be completed in 1983 in order to preclude shutdown through failure in 1984. Unscheduled repairs will take approximately six to eight months to accomplish during which alternate disposal sites will need to be found and additional costs will be incurred. This project includes replacing all the firebrick inside the Pt. Woronzof Wastewater Treatment Plants incinerator, rebuilding center shaft, and rehabilitation of the six hearths.</p>
Convert Shop Area to Plant Laboratory	<p>This project will expand laboratory capabilities to handle quantities and varieties of samples, made necessary by increasing use and generation of water and sewage in the Anchorage area, and increased governmental regulation. Will allow expansion of industrial analysis, addition of potable water testing, and increase capabilities to test wastewater plants in Anchorage. Will decrease the number of samples currently sent out for analysis and increase reliability of some work by having areas designed for specific analysis. The current space provided for the Pt. Woronzof Wastewater Control Room is inadequate to meet the needs planned after 1982. The space now utilized by the Lab will be used to expand and upgrade the Control Room. Yearly cost if move not made: Overtime required due to inefficiency from crowding: \$5,000.00. Increase in quality control to ensure test reliability under nonoptimum condition: \$500.00. Increase in materials cost due to inability to buy and store in bulk: \$500.00. Cost of yearly coliform analysis contract-drinking water: \$16,900.00. Total: \$22,900.00/year.</p>
Control Room Relocation	<p>Available space in the existing control room is not adequate for full utilization of the new computer system. Modification and relocation of the Control Room to the vacated Laboratory space will allow centralization of control and monitoring functions for the Pt. Woronzof, Eagle River, Girdwood Wastewater Treatment Plants and satellite pump stations. Centralization will allow full utilization of the new computer system presently being installed at Pt. Woronzof in conjunction with the Eagle River Wastewater Treatment Plant.</p>

MUNICIPALITY OF ANCHORAGE – CIP - 4
CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

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Department ANCHORAGE SEWER UTILITY				Account Code 551-8008-9400					
Program Category ANCHORAGE SEWER UTILITY				Project Category TREATMENT					
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1982	1983	1984	1985	1986	1987	<input checked="" type="checkbox"/> G.O. <input type="checkbox"/> REV		
	THOUSANDS OF DOLLARS								
Pt. Woronzof Wastewater Treatment Plant Expansion		1,288	12,879				3,544		10,623
Update Facility Plan		60					60		
Sludge Incinerator No. 2			4,154				1,039		3,115
Pt. Woronzof Outfall Extension			13,600				3,400		10,200

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CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

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Department ANCHORAGE SEWER UTILITY	Account Code 551-8008-9400
Program Category ANCHORAGE SEWER UTILITY	Project Category TREATMENT
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
Pt. Woronzof Wastewater Treatment Plant Expansion	<p>This project expands capacity of the Pt. Woronzof Wastewater Treatment Plant from 34 MGD to 75 MGD. The plant is presently 77% of its capacity and is expected to reach 100% by 1986. Construction of the added capacity will take approximately two years to complete and coincide with projected maximum capacity. If design does not begin in 1983 followed by start of construction in 1984, the plant may begin failing to meet its discharge standards. Furthermore, overload conditions on existing equipment will promote frequent equipment failure and increased maintenance costs. This project is contingent on State and Federal financial assistance.</p>
Update Facility Plan	<p>The existing facility plan covers the Alyeska area only. This project would enlarge the existing plan to cover the Upper Crow Creek Valley and the Girdwood Townsite. In addition, other areas along Turnagain Arm such as Indian and Bird Creek need to be evaluated in a current Facility Plan.</p>
Sludge Incinerator #2	<p>This project provides a second incinerator at the Pt. Woronzof Wastewater Treatment Plant. The present incinerator #1 is at 124% of its capacity while the plant's hydraulic loading is at 77% of design capacity. Incinerator #2 will reduce the stress on the incinerator #1, reducing maintenance costs, and provide backup capabilities in the event of complete incinerator failure. Approximately 15 yards/day of excess sludge will have to be disposed off plant site by 1985 if sludge incinerator #2 is not built in 1984. This will require additional manpower, vehicles costs, and disposal charges. Other costs will include law suites against the Municipality brought by local residents concerning odors.</p>
Pt. Woronzof Outfall Extension	<p>Project extends the Pt. Woronzof effluent outfall, discharge line in order to provide additional effluent dispersion and eliminate the need for effluent chlorination. Dye tests indicate effluent dispersion in Cook Inlet is such that the effluent washes back to the beach and is not carried out with the tide. This extension will eliminate hazardous material washing back on the beach and save \$150,000.00 per year in chlorination costs. This project is contingent upon 75% EPA funding.</p>

**MUNICIPALITY OF ANCHORAGE – CIP - 4
CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY**

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Department ANCHORAGE SEWER UTILITY				Account Code 551-8008-9400					
Program Category ANCHORAGE SEWER UTILITY				Project Category TREATMENT					
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1982	1983	1984	1985	1986	1987	<input checked="" type="checkbox"/> G.O. <input type="checkbox"/> REV		
	THOUSANDS OF DOLLARS								
Covers for Clarifiers, Thickeners, and Distribution Boxes			1,360				340		1,020
TOTALS			1,360				340		1,020

MUNICIPALITY OF ANCHORAGE -- CIP - 5
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

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Department ANCHORAGE SEWER UTILITY		Account Code 551-8008-9400
Program Category ANCHORAGE SEWER UTILITY		Project Category TREATMENT
PROJECT TITLE	SUMMARY OF PROJECT SCOPE	
Covers for Clarifiers, Thickener and Distribution Boxes	<p>This project provides all weather protection for equipment and treatment processes at the Pt. Woronzof Wastewater Treatment Plant. Prolonged freezing conditions have resulted in unnecessary equipment and process failure. During failure conditions, major structural damage to clarifiers and thickener can occur costing several hundreds of thousands of dollars to repair and could possibly result in complete failure of the Pt. Woronzof Wastewater Treatment Plant. Covers will reduce failures and provide a safe working environment for operations and maintenance personnel. Approximately twice a year each clarifier must be drained due to failure which increses the opportunity for structural failure and failure of the entire plant.</p>	

MUNICIPALITY OF ANCHORAGE — CIP - 2
EXISTING CAPITAL BUDGET SUMMARY

Department	ANCHORAGE SEWER UTILITY
Project Category	ANCHORAGE SEWER UTILITY - PUMP STATIONS/FORCE

EXISTING CAPITAL IMPROVEMENT BUDGET/PROJECTS COMPLETED DURING PRIOR YEAR			MAINS
PROJECT TITLE/COST CENTER	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
Chester Creek Pump Station No. 4 (1980 p. 296)	330	188	Project will provide a fourth pump for this pump station. Design scheduled for 1982 with construction scheduled for 1983. Additional funding will be appropriated as state and federal grant offers are received.
Vibration Monitoring for Chester Creek and Campbell Creek Pump Stations (1980 p. 296)	23	23	Proceeding as described.
Fish Creek Force Main No. 2 (1980 p. 296)	1,064	1,153	Project scheduled for 1984. Total current funding includes state grant offer which has been appropriated.
36th Avenue/Turnagain Pump Station and Force Main (1980 p. 296; 1981 p. 354) (9480-3049)	1,450	433	This pump station and force main will intercept a substantial portion of the flow into the Chester Creek pumping station, indefinitely delaying the need for further expansion of that facility. The force main will direct a large portion of Fish Creek's trunk flow direct to interceptor in Wisconsin Street. Design scheduled for 1981 with construction scheduled for 1982. Additional funding will be appropriated as state and federal grant offers are received.
Chester Creek Pump Station Emergency Generator (1981 p. 354)	50	50	This project will provide emergency electrical generation facilities to maintain the pumps in this station during periods of power failure and other heavy use requirements.

MUNICIPALITY OF ANCHORAGE
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT: SEWER UTILITY

PROJECT CATEGORY: PUMP STATIONS AND FORCE MAINS

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1982	1983	1984	1985	1986	1987			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	20	0	40	65	0	0	125		
LAND AND R.O.W.	0	0	0	35	0	0	35		
CONSTRUCTION	185	0	344	485	0	0	1,014		
EQUIPMENT	50	30	3	0	0	0	83		
INTERFUND CHARGES	26	1	20	30	0	0	77		
OTHER	17	1	20	35	0	0	73		
TOTAL	298	32	427	650	0	0	1,407	0	1,407
SOURCE OF FUNDS							TOTAL FUNDS	REIMBUR SABLES	NON-REIM BURSABLES
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	20	257	163	0	0	440	0	
REVENUE BONDS	0	0	0	0	0	0	0		
FEDERAL GRANT	0	0	0	422	0	0	422	422	
STATE GRANT	298	12	170	65	0	0	545	545	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
TOTAL	298	32	427	650	0	0	1,407	967	440

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

MUNICIPALITY OF ANCHORAGE – CIP - 4
CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

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Department ANCHORAGE SEWER UTILITY				Account Code 551-8008-9400					
Program Category ANCHORAGE SEWER UTILITY				Project Category PUMP STATIONS AND FORCE MAINS					
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1982	1983	1984	1985	1986	1987	<input checked="" type="checkbox"/> G.O. <input type="checkbox"/> REV		
	THOUSANDS OF DOLLARS								
Campbell Creek Pump Station Emergency Generator	244								244
Telemetry - Low Capacity Pump Stations	54								54
Telemetry - Campbell and Chester Creek Pump Stations		32					20		12
Chester Creek Pump Station Emergency Generator			427				257		170
Rabbit Creek Pump Station and Force Main				650			163		487
TOTALS	298	32	427	650			440		967

MUNICIPALITY OF ANCHORAGE -- CIP - 5
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

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Department ANCHORAGE SEWER UTILITY	Account Code 551-8008-9400
Program Category ANCHORAGE SEWER UTILITY	Project Category PUMP STATIONS AND FORCE MAINS
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
Campbell Creek Pump Station Emergency Generator	This project will provide for the purchase and installation of a 650 KW generator at the Campbell Creek lift station. Due to the increasing flow through this station and the need for additional pumping equipment to handle the flow, the existing power generation capacity must be increased with a larger unit. The existing system is not large enough to handle the current as well as the projected power requirements.
Telemetry - Low Capacity Pump Stations	This project will provide for the purchase and installation of new telemetry equipment to monitor the smaller pump stations, increasing the number of stations being monitored from eight to eighteen. This new equipment will increase operating reliability by monitoring several additional and necessary alarm functions from all of the stations.
Telemetry - Campbell and Chester Creek Pump Stations	This project will purchase new tone transmission equipment and annunciator panels for the Campbell and Chester Creek lift stations, plus new annunciator panels and receiving units at the Pt. Woronzof Wastewater Treatment Plant which will be adequate to serve all stations being monitored. This proposed system modification then will permit the monitoring of the several additional and necessary alarm functions from each of the stations, which is not possible with the present equipment.
Chester Creek Pump Station Emergency Generator	This project will provide for the purchase and installation of a second power generation unit at the Chester Creek lift station. Due to the increasing flow through this station and the need for additional pumping equipment to handle the flow, the existing power generation capability must be augmented by the addition of a second generator. The existing system is not large enough to handle the projected power requirements.
Rabbit Creek Pump Station and Force Main	This project will provide service to an area south of Rabbit Creek Road. The force main will discharge into the Southeast Interceptor.

MUNICIPALITY OF ANCHORAGE – CIP - 2
EXISTING CAPITAL BUDGET SUMMARY

Department
ANCHORAGE SEWER UTILITY
Project Category
ANCHORAGE SEWER UTILITY - TRUNKS AND INTERCEPTORS

EXISTING CAPITAL IMPROVEMENT BUDGET/PROJECTS COMPLETED DURING PRIOR YEAR			
PROJECT TITLE/COST CENTER	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
Eagle River Road Interceptor (1977 p. 247; 1979 p. 102; 1980 p. 324) (9679-4030)	1,769	1,769	Proceeding as described. Design completed during 1981 with construction scheduled for the 1981/1982 construction season. Total current funding includes state and federal grant offers which have been appropriated.
Southeast Interceptor, E-2 to O'Malley (1978 p. 765; 1979 p. 83) (9478-4028)	1,818	1,818	This project has been divided into two segments. The first segment from E-2 to E-3 trunk is proceeding as described with design completed and construction scheduled for 1981. The second segment from E-3 Trunk to O'Malley is scheduled for construction during 1983.
E-1 Trunk, Lake Otis to Abbott (1979 p. 83; 1981 p. 358) (9478-3037)	350	440	Proceeding as described. Construction scheduled for completion during 1981.
Southeast Interceptor, New Seward Highway-Huffman Interchange (1979 p. 83) (9479-4027)	60	60	Proceeding as described. Construction scheduled for completion during 1981/1982.
E-3 Trunk (1979 p. 85; 1981 p. 358) (9478-3044)	1,193	958	Proceeding as described. Construction scheduled for completion during 1981.
CBD-1 Trunk (1979 p. 85) (9478-3041)	570	570	Proceeding as described. Design and construction scheduled for completion during 1981/1982. Additional funding will be appropriated as state grant offers are received.
CBD-2 Trunk (1979 p. 85) (9478-3042)	975	975	Proceeding as described. Design scheduled for completion in 1981 with construction scheduled for 1982. Additional funding will be appropriated as state grant offers are received.

MUNICIPALITY OF ANCHORAGE – CIP - 2
EXISTING CAPITAL BUDGET SUMMARY

Department
ANCHORAGE SEWER UTILITY
Project Category
ANCHORAGE SEWER UTILITY - TRUNKS AND

EXISTING CAPITAL IMPROVEMENT BUDGET/PROJECTS COMPLETED DURING PRIOR YEAR			INTERCEPTORS
PROJECT TITLE/COST CENTER	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
Fire Lake Interceptor first 5,280 feet (1979 p. 102; 1980 p. 324) (9510-1200; 9510-1201)	1,569	905	Proceeding as described. Project to be designed in 1981 with construction scheduled for the 1981/1982 construction season. Additional funding will be appropriated as state and federal grant offers are received.
North Valley Trunk, one mile with pump station and force main (1979 p. 102)	2,172	2,172	Construction planned for 1982 pending availability of bond funds. Additional funds will be appropriated as state grant offers are received.
78-Inch West Interceptor, Phase II (design) (1980 p. 300)	550	200	Construction planned for 1983. Additional funding will be appropriated as state and federal grant offers are received.
Southeast Interceptor, O'Malley to Huffman (1980 p. 300; 1981 p. 358) (9479-4031)	2,920	569	Construction planned for 1983. Additional funding will be appropriated as state and federal grant offers are received.
C-3 Trunk South (1980 p. 302)	558	317	Proceeding as described. Construction scheduled for 1982. Additional funding will be appropriated as state grant offers are received.
Abbott Loop Road Trunk (1980 p. 302)	18	11	Construction planned for 1982. Additional funding will be appropriated as state grant offers are received.
C-5-2 Trunk, Phase I (1980 p. 304)	85	49	Construction planned for 1981/1982. Additional funding will be appropriated as state grant offers are received.
Eagle River Road Trunk (1980 p. 324)	70	49	Proceeding as described. Project scheduled for design and construction during 1981/1982. Additional funds will be appropriated as state grant offers are received.

**MUNICIPALITY OF ANCHORAGE – CIP - 2
EXISTING CAPITAL BUDGET SUMMARY**

Department
ANCHORAGE SEWER UTILITY
Project Category
ANCHORAGE SEWER UTILITY – TRUNKS AND

INTERCEPTORS

EXISTING CAPITAL IMPROVEMENT BUDGET/PROJECTS COMPLETED DURING PRIOR YEAR

PROJECT TITLE/COST CENTER	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
State D.O.T.P.F. Projects (1981 p. 358)	335	201	Proceeding as described. Additional funding will be appropriated as state grant offers are received.
Private Development Oversizing (1981 p. 358)	50	50	Proceeding as described.
Public Works Related Projects (1981 p. 358)	150	90	Proceeding as described. Additional funding will be appropriated as state grant offers are received.

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CAPITAL PROJECT CATEGORY SUMMARY

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DEPARTMENT: SEWER UTILITY

PROJECT CATEGORY: TRUNKS AND INTERCEPTORS

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1982	1983	1984	1985	1986	1987			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	180	451	1,389	313	380	335	3,048		
LAND AND R.O.W.	107	269	517	211	227	200	1,531		
CONSTRUCTION	1,289	3,056	9,675	2,271	2,709	2,413	21,413		
EQUIPMENT	0	0	0	0	0	0	0		
INTERFUND CHARGES	144	384	1,074	178	304	268	2,352		
OTHER	180	450	1,385	297	380	334	3,026		
TOTAL	1,900	4,610	14,040	3,270	4,000	3,550	31,370	0	31,370
SOURCE OF FUNDS							TOTAL FUNDS	REIMBUR SABLES	NON-REIM BURSABLES
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	2,176	5,258	1,872	2,480	2,210	13,996	0	
REVENUE BONDS	0	0	0	0	0	0	0		
FEDERAL GRANT	0	1,170	6,883	279	0	0	8,332	8,332	
STATE GRANT	1,900	1,264	1,899	1,119	1,520	1,340	9,042	9,042	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
TOTAL	1,900	4,610	14,040	3,270	4,000	3,550	31,370	17,374	13,996

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

MUNICIPALITY OF ANCHORAGE -- CIP - 4
CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY

PAGE 337

Department ANCHORAGE SEWER UTILITY				Account Code 551-8008-9400					
Program Category ANCHORAGE SEWER UTILITY				Project Category TRUNKS AND INTERCEPTORS					
PROJECT TITLE	TOTAL PROJECT COST						BONDS <input checked="" type="checkbox"/> G.O. <input type="checkbox"/> REV	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1982	1983	1984	1985	1986	1987			
	THOUSANDS OF DOLLARS								
State DOTPF Highway Related Projects	500	500	450	450	400	400	1,320		1,380
Private Development Oversizing	100	100	150	150	200	200	800		100
Public Works Road Related Project	500	500	500	500	500	500	1,500		1,500
Gambell Street Trunk	800								800
C-3 Trunk-North		700					420		280
Southeast Interceptor		1,800	390	430			656		1,964
C-5-2 Trunk, Phase II		660					396		264
Miscellaneous Trunk Improvements		350	500	500	500	500	1,410		940
Malaspina Street Trunk			650				390		260
TOTALS	1,900	4,610	2,640	2,030	1,600	1,600	6,892		7,488

MUNICIPALITY OF ANCHORAGE — CIP - 5
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

PAGE 338

Department ANCHORAGE SEWER UTILITY	Account Code 551-8008-9400
Program Category ANCHORAGE SEWER UTILITY	Project Category TRUNKS AND INTERCEPTORS
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
State DOTPF Highway Related Projects	Reimbursement to the State of Alaska Department of Transportation for installation of sewer improvements in junction with State projects.
Private Development Oversizing	Reimbursement to developers for oversizing of systems designed to serve the entire service area.
Public Works Road Related Projects	Miscellaneous projects that occur as a result of various Public Works paving projects that require relocation or construction of new facilities prior to paving. These projects are designed and constructed as planned.
Gambell Street Trunk	Project consists of construction of a sewer trunk paralleling Gambell Street from 15th Avenue to 21st Avenue.
C-3 Trunk-North	Project will serve an area north of 80th Avenue and west of Jewel Lake Road around Sand Lake.
Southeast Interceptor	Connects E-1, E-2, E-3, E-4, E-5, E-6, and E-7 trunks with the 78-inch West Interceptor. Interceptor will be located for the most part along the Alaska Railroad Right-of-Way and New Seward Highway for a distance of seven miles. Construction schedule of the interceptor to be as follows: 1983 - From Huffman to DeArmoun Road 1984 - Crossing of DeArmoun and New Seward Highway Interchange 1985 - From DeArmoun to E-7 Trunk
C-5-2 Trunk Phase II	Extension of trunk system from approximate vicinity of 96th Avenue and Victor Road east for about 3/4 of a mile.
Miscellaneous Trunk Improvements	Project consists of miscellaneous trunk improvements pending approval of trunk improvement districts in the Anchorage Bowl.
Malaspina Street Trunk	This project provides for the planned expansion of the sewer trunk system along Malaspina Street.

**MUNICIPALITY OF ANCHORAGE – CIP - 4
CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY**

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Department ANCHORAGE SEWER UTILITY				Account Code 551-8008-9400					
Program Category ANCHORAGE SEWER UTILITY				Project Category TRUNKS AND INTERCEPTORS					
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1982	1983	1984	1985	1986	1987	<input checked="" type="checkbox"/> G.O. <input type="checkbox"/> REV		
	THOUSANDS OF DOLLARS								
78-Inch West Interceptor (Phase II)			10,200				2,550		7,650
Southeast Interceptor (72nd Avenue North to 78-Inch West Interceptor)			1,200				1,200		
North Valley Trunk				1,240			744		496
C-6 Trunk					2,400		1,440		960
A-4 Trunk (International Airport Road South to Raspberry)						750	450		300
C-7 Trunk						1,200	720		480

MUNICIPALITY OF ANCHORAGE -- CIP - 5
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

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Department ANCHORAGE SEWER UTILITY	Account Code 551-8008-9400
Program Category ANCHORAGE SEWER UTILITY	Project Category TRUNKS AND INTERCEPTORS
PROJECT TITLE	SUMMARY OF PROJECT SCOPE
78-Inch West Interceptor (Phase II)	Project to connect Northeast and Southeast Interceptors with Phase I of 78" West Interceptor (construct in 1980), thereby diverting flow via gravity away from Campbell Creek Pump Station and avoiding overflow into Campbell Lake during peak periods of infiltration and inflow. Project is 6,000 linear feet long. Construction of this project is contingent upon receipt of Federal funding or Special State Legislative Appropriations.
Southeast Interceptor (72nd Avenue North to 78-Inch West Interceptor)	This project will relay approximately 1,500 feet of the Southeast Interceptor so that the Southeast Interceptor will discharge into the new 78-inch West Interceptor, relieving an already overloaded Campbell Creek Force Main.
North Valley Trunk	This project will provide sewer service to an area on the south side of Eagle River Road north of the River for a distance of approximately two miles East of the New Glenn Highway.
C-6 Trunk	Project consists of extensin of the trunk system from the projected intersection of Victor Road and 104th Avenue, east along 104th Avenue projected a distance of approximately 1 1/2 miles.
A-4 Trunk (International Airport Road South to Raspberry Road)	This project will provide sanitary sewer service to the area east of the Minnesota extension to Arctic Boulevard between International Airport Road and Raspberry Road. Will also reduce the volume of wastewater pumped through the Chester Creek Pump Station.
C-7 Trunk	Project consists of construction of trunk system from Turnagain Interceptor near Klatt Road in an easterly direction for approximately 1 1/2 miles along projected 115th Avenue.

MUNICIPALITY OF ANCHORAGE – CIP - 2
EXISTING CAPITAL BUDGET SUMMARY

Department
ANCHORAGE SEWER UTILITY
Project Category
ANCHORAGE SEWER UTILITY - LATERALS

EXISTING CAPITAL IMPROVEMENT BUDGET/PROJECTS COMPLETED DURING PRIOR YEAR

PROJECT TITLE/COST CENTER	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
LID 60-1 Girdwood/Alyeska (1977 p. 252; 1980 p. 340) (9800-6501)	3,360	4,303	Proceeding as described. Current funding includes state grant offers. Construction of final segment of LID 60-1 scheduled for completion during 1981.
LID 85 Zodiak Manor (1979 p. 95)	100	100	Project postponed indefinitely.
LID 86 Campbell Heights North (1980 p. 312) (9479- 2106)	437	482	Proceeding as described. Construction scheduled for 1981. Total current funding includes state grant offer which has been appropriated.
LID 101 Turnagain Heights (1980 p. 312) (9479-2104)	368	209	Project delayed pending replatting of area. Currently scheduled for design in 1981 and construction in 1981/1982.
LID 103 Tudor Corners (1980 p. 312) (9480-2109)	178	1982	Proceeding as described. Construction scheduled for 1981. Total current funding includes state grant offer which has been appropriated.
Anticipated Laterals (1981 p. 364)	2,142	1,285	Proceeding as described. Additional funding will be appropriated as state grant offers are received.

MUNICIPALITY OF ANCHORAGE
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT: SEWER UTILITY

PROJECT CATEGORY: LATERALS

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1982	1983	1984	1985	1986	1987			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	300	400	420	450	470	470	2,510		
LAND AND R.O.W.	45	60	63	67	70	70	375		
CONSTRUCTION	1,995	2,660	2,793	2,993	3,126	3,126	16,693		
EQUIPMENT	0	0	0	0	0	0	0		
INTERFUND CHARGES	360	480	504	540	564	564	3,012		
OTHER	300	400	420	450	470	470	2,510		
TOTAL	3,000	4,000	4,200	4,500	4,700	4,700	25,100	0	25,100
SOURCE OF FUNDS							TOTAL FUNDS	REIMBUR SABLES	NON-REIM BURSABLES
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	2,400	2,520	2,700	2,820	2,820	13,260	0	
REVENUE BONDS	0	0	0	0	0	0	0		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	3,000	1,600	1,680	1,800	1,880	1,880	11,840	11,840	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	0	0	0	0	0	0	0		
OTHER	0	0	0	0	0	0	0		
TOTAL	3,000	4,000	4,200	4,500	4,700	4,700	25,100	11,840	13,260

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

**MUNICIPALITY OF ANCHORAGE – CIP - 4
CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY**

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Department ANCHORAGE SEWER UTILITY					Account Code 551-8008-9400				
Program Category ANCHORAGE SEWER UTILITY					Project Category LATERALS				
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER	STATE OR
	1982	1983	1984	1985	1986	1987	<input checked="" type="checkbox"/> G.O. <input type="checkbox"/> REV	LOCAL	FEDERAL
	THOUSANDS OF DOLLARS								
Anticipated LID'S	3,000	4,000	4,200	4,500	4,700	4,700	13,260		11,840
TOTALS	3,000	4,000	4,200	4,500	4,700	4,700	13,260		11,840

MUNICIPALITY OF ANCHORAGE – CIP - 5
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

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Department ANCHORAGE SEWER UTILITY		Account Code 551-8008-9400	
Program Category ANCHORAGE SEWER UTILITY		Project Category LATERALS	
PROJECT TITLE		SUMMARY OF PROJECT SCOPE	
Anticipated LID's		This project consists of the design and construction of anticipated lateral sewer extensions based upon petitions submitted and approved by area residents. Anticipated lateral sewers would be constructed on a first come, first served basis as approved by the Municipal Assembly.	

MUNICIPALITY OF ANCHORAGE – CIP - 2
EXISTING CAPITAL BUDGET SUMMARY

Department	ANCHORAGE SEWER UTILITY
Project Category	ANCHORAGE SEWER UTILITY - REPAIR AND REHABILITATION

EXISTING CAPITAL IMPROVEMENT BUDGET/PROJECTS COMPLETED DURING PRIOR YEAR

PROJECT TITLE/COST CENTER	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
Sewer System Evaluation Survey (1977 p. 243) (9478- 1019)	300	300	Proceeding as described.
R & R South Side Campbell Lake (1977 p. 239; 1979 p. 97)	571	571	Design scheduled for 1981 with construction scheduled for 1982/1983.
International Airport R & R (1981 p. 368) (9481-3051)	500	500	Project is to be constructed in three phases; Phase I and II will be completed in 1981; Phase III will be completed in 1982 with the appropriation of \$850,00 additional funds.
CMP on Tidal Flats (Knik Interceptor) (1979 p. 97)	595	595	This project will require an additional \$2,000,000 for completion. Project scheduled for design in 1982 and construction in 1983.
R & R Fish Creek Trunk (1979 p. 97) (9480-3049)	405	405	Project scheduled for design and construction in 1981/1982 pending completion of feasibility study.
Implementation of SSES Recommendations (1979 p. 97; 1970 p. 316; 1981 p. 368)	1,660	712	Proceeding as described. Additional funding will be appropriated as state and federal grant offers are received.
R & R Emergency (1981 p. 368)	215	215	Proceeding as described.
R & R Planned (1981 p. 368)	100	100	Proceeding as described.

MUNICIPALITY OF ANCHORAGE
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT: SEWER UTILITY

PROJECT CATEGORY: REPAIR AND REHABILITATION

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1982	1983	1984	1985	1986	1987			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	201	67	68	40	41	42	459		
LAND AND R.O.W.	5	85	8	0	0	0	98		
CONSTRUCTION	1,431	3,198	1,125	707	728	759	7,948		
EQUIPMENT	0	0	0	0	0	0	0		
INTERFUND CHARGES	134	215	75	24	25	26	499		
OTHER	130	295	89	49	51	53	667		
TOTAL	1,901	3,860	1,365	820	845	880	9,671	0	9,671
SOURCE OF FUNDS							TOTAL FUNDS	REIMBUR SABLES	NON-REIM BURSABLES
G.O. BONDS AUTH.									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	0	0	0	0	0	0	0		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	850	0	0	0	0	0	850	850	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	1,051	3,860	1,365	820	845	880	8,821		
OTHER	0	0	0	0	0	0	0		
TOTAL	1,901	3,860	1,365	820	845	880	9,671	850	8,821

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

**MUNICIPALITY OF ANCHORAGE – CIP - 4
CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY**

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Department ANCHORAGE SEWER UTILITY				Account Code 551-8008-9400					
Program Category ANCHORAGE SEWER UTILITY				Project Category REPAIR AND REHABILITATION					
PROJECT TITLE	TOTAL PROJECT COST						BONDS	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1982	1983	1984	1985	1986	1987	<input checked="" type="checkbox"/> G.O. <input type="checkbox"/> REV		
	THOUSANDS OF DOLLARS								
R & R Public Works Road Related Projects	450	470	515	520	520	530		3,005	
R & R Emergencies	215	250	275	300	325	350		1,715	
R & R C-9 Trunk	116							116	
R & R International Airport	850								850
R & R Potter at "C" Street	70							70	
R & R Alaska Industrial	100							100	
R & R CMP on Tidal Flats (Knik Interceptor)	100	1,900						2,000	
TOTALS	1,901	2,620	790	820	845	880		7,006	850

MUNICIPALITY OF ANCHORAGE – CIP - 5
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

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Department ANCHORAGE SEWER UTILITY		Account Code 551-8008-9400	
Program Category ANCHORAGE SEWER UTILITY		Project Category REPAIR AND REHABILITATION	
PROJECT TITLE		SUMMARY OF PROJECT SCOPE	
R & R Public Works Road Related Projects		This project is for the Repair and Rehabilitation of Sanitary Sewer lines that are within the boundaries of Public Works Road Improvement Projects. There are approximately 19,025 feet of pipe involved in this project for 1982.	
R&R Emergencies		This project is for emergency repairs to the sewer system that might result from line failures or other malfunctions that make the system inoperable.	
R & R C-9 Trunk		Project consists of the design and rehabilitation of the C-9 Trunk so it will be capable of accepting additional flow from development on the East side of the New Seward Highway in the area of Hamilton Park. There is approximately 1139 linear feet of sewer mains involved in this project.	
R & R International Airport		This project runs along the south side of Old International Road from Jewel Lake Road to the Airport Terminal Parking lot. Phases I and II are to be constructed in 1981. The remainder will be constructed in 1982 and will provide customers with a more reliable gravity sewer system. Additionally, this project will eliminate three pump stations and all costs associated with them. It will also provide for future expansion within existing facilities and take into consideration future development in the area.	
R & R Potter at "C" Street		Project consists of design and reconstruction of the gravity sewer line along Potter Drive west of "C" Street. The users in the area served by this portion of line are predominately commercial and industrial. Because of the poor condition the line is presently in, flow capacities are greatly restricted. Future development in the industrial area east of "C" Street will be restricted if this project is not completed.	
R & R Alaska Industrial		This project is to insulate the shallow gravity sewer lines in the Chipperfield and East 4th Avenue area. This line has frozen every year during the winter months for the last ten years, causing problems with the commercial users on the line and burdening the Utility with additional maintenance expenses.	
R & R CMP on Tidal Flats (Knik Interceptor)		Project consists of the design in 1982 and reconstruction in 1983 of 5,805 feet of 36" CMP that lies within the area affected by tidal action both north and south of the Chester Creek Pump Station #2. This line is badly deteriorated. A major failure could put the line out of operation for months.	

**MUNICIPALITY OF ANCHORAGE – CIP - 4
CAPITAL IMPROVEMENT PROJECT FINANCIAL SUMMARY**

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Department ANCHORAGE SEWER UTILITY				Account Code 551-8008-9400					
Program Category ANCHORAGE SEWER UTILITY				Project Category REPAIR AND REHABILITATION					
PROJECT TITLE	TOTAL PROJECT COST						BONDS <input checked="" type="checkbox"/> G.O. <input type="checkbox"/> REV	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1982	1983	1984	1985	1986	1987			
	THOUSANDS OF DOLLARS								
R & R Fish Creek Interceptor		1,000						1,000	
R & R 29th to 34th Avenue Between Wisconsin and Turnagain		240	160					400	
R & R 5th and 6th Avenue/ "I" and "K" Alley			80					80	
Windemere R & R (Phase I)			150					150	
R & R Scenic Park			185					185	

MUNICIPALITY OF ANCHORAGE -- CIP - 5
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

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Department ANCHORAGE SEWER UTILITY		Account Code 551-8008-9400	
Program Category ANCHORAGE SEWER UTILITY		Project Category REPAIR AND REHABILITATION	
PROJECT TITLE		SUMMARY OF PROJECT SCOPE	
R & R Fish Creek Interceptor		Project is for planned design and rehabilitation of the portion of the Fish Creek Interceptor that lies between Chugiak Way and Minnesota Drive. There is approximately 1300 feet of pipe involved in this project. The pipe in this area is deteriorating rapidly possibly due to the poor soil conditions.	
R & R 29th to 34th Avenue Between Wisconsin and Turnagain		Project consists of design and rehabilitation of the gravity sewer line between Wisconsin Street and Turnagain Boulevard, east, and the project title streets. This project is needed to bring the sewer service in this residential area up to acceptable standards and to cut down on maintenance costs and damage claims incurred by the Utility.	
R & R 5th and 6th Avenue/ "I" and "K" Alley		This project is for the design and rehabilitation of the gravity sewer at this location. The project will eliminate excessive maintenance costs and recurring customer flooding.	
Windemere R & R (Phase I)		Project is for survey and design of Windemere Subdivision. The project will determine the extent of repairs needed to reduce the excessive amount of sewer backups and complaints.	
Scenic Park R & R		This project is for design and construction of approximately 1,850 feet of pipe in Scenic Park, predominately on James Drive and Irene Drive. This project will reduce maintenance costs and costs associated with sewage backups and complaints.	

MUNICIPALITY OF ANCHORAGE – CIP - 2
EXISTING CAPITAL BUDGET SUMMARY

Department
ANCHORAGE SEWER UTILITY
Project Category
ANCHORAGE SEWER UTILITY - NEW EQUIPMENT

EXISTING CAPITAL IMPROVEMENT BUDGET/PROJECTS COMPLETED DURING PRIOR YEAR

PROJECT TITLE/COST CENTER	Original CIB Cost Est.	Total Current Funding	EXPLANATION/STATUS
Continuing Property Records, Management Information System (1981 p. 372) (9380- 8043)	2,970	800	Proceeding as described. This is a four year project begun during 1981 and programmed for complete implementation by 1984. When complete the system will provide for a continuous property records system for both the Water and Sewer Utilities--both of which will share in the cost of the system.
Vehicles (1981 p. 372) (9381-8151)	150	150	Proceeding as described.
Miscellaneous Equipment (1981 p. 372) (9381-8150)	90	90	Proceeding as described.

MUNICIPALITY OF ANCHORAGE
CAPITAL PROJECT CATEGORY SUMMARY

DEPARTMENT: SEWER UTILITY

PROJECT CATEGORY: NEW EQUIPMENT

	THOUSANDS OF DOLLARS						FUTURE PROJECT COST	PRIOR YEARS APPROP	TOTAL PROJECT COST
	1982	1983	1984	1985	1986	1987			
CAPITAL INVESTMENT COSTS									
PLANNING AND DESIGN	0	0	0	0	0	0	0		
LAND AND R.O.W.	0	0	0	0	0	0	0		
CONSTRUCTION	766	757	230	0	0	0	1,753		
EQUIPMENT	427	370	320	243	267	243	1,870		
INTERFUND CHARGES	44	57	42	11	11	11	176		
OTHER	152	149	65	21	22	21	430		
TOTAL	1,389	1,333	657	275	300	275	4,229	0	4,229
SOURCE OF FUNDS							TOTAL FUNDS	REIMBUR SABLES	NON-REIM BURSABLES
G.O. BONDS AUTH									
G.O. BONDS UNAUTH.	0	0	0	0	0	0	0	0	
REVENUE BONDS	0	0	0	0	0	0	0		
FEDERAL GRANT	0	0	0	0	0	0	0	0	
STATE GRANT	0	0	0	0	0	0	0	0	
CONTRIBUTIONS	0	0	0	0	0	0	0		
OPERATING REV	1,389	1,333	657	275	300	275	4,229		
OTHER	0	0	0	0	0	0	0		
TOTAL	1,389	1,333	657	275	300	275	4,229	0	4,229

THIS CATEGORY CAUSES NO SIGNIFICANT INCREASE IN TAX SUPPORTED OPERATING COSTS

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Department ANCHORAGE SEWER UTILITY				Account Code 551-8008-9400					
Program Category ANCHORAGE SEWER UTILITY				Project Category NEW EQUIPMENT					
PROJECT TITLE	TOTAL PROJECT COST						BONDS <input checked="" type="checkbox"/> G.O. <input type="checkbox"/> REV	OTHER LOCAL	STATE OR FEDERAL FUNDS
	1982	1983	1984	1985	1986	1987			
	THOUSANDS OF DOLLARS								
Vehicles	300	200	235	175	200	175		1,285	
Continuing Property Record Management Information System	939	925	308					2,172	
Miscellaneous Equipment	150	208	114	100	100	100		772	

MUNICIPALITY OF ANCHORAGE - CIP - 5
CAPITAL IMPROVEMENT PROJECT SCOPE SUMMARY

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Department ANCHORAGE SEWER UTILITY		Account Code 551-8008-9400
Program Category ANCHORAGE SEWER UTILITY		Project Category NEW EQUIPMENT
PROJECT TITLE	SUMMARY OF PROJECT SCOPE	
Vehicles	<p>This project includes the purchase of new vehicles as well as the planned replacement of worn out or wrecked vehicles and equipment as indicated below:</p> <p>1982 - 1 1969 Case Loader (0103) 1 1973 Michigan Loader (0718) 4 1976 Toyota 1/2 ton Pickups (2256, 2266, 2268, 2269) 1 1977 Dodge Kary Van (2944) 2 1977 Ford Sedan (2014, 2018) 2 1977 Toyota 1/2 Ton Pickups (2280, 2281) Purchase new maintenance van for electrician Purchase New Tractor/Trailer Purchase new maintenance van for Mechanical Maintenance Purchase three new economy pickups for pool</p> <p>1983 - 1 1973 Flat Bed Truck (0739) 1 1973 Sewer Jet (0724) 1 1975 Dump Truck (2328) 3 1976 Toyota 1/2 ton Pickups (2255, 2267, 2271) 2 1977 Sedans (1838, 2017) 2 1977 Toyota 1/2 ton Pickups (2276, 2279)</p> <p>1984 - 1 1970 Hose Truck (0728) 1 1972 Dump Truck (0723) 1 1976 Sewer Jet (0730) 2 1976 Toyota 1/2 ton Pickups (2257, 2270) 1 1977 Sedan (2015) 2 1977 Toyota 1/2 ton Pickups (2277, 2278) 1 1977 3/4 ton Pickup (2333) 1 1978 3/4 ton Pickup (2738) 2 1978 3/4 ton 4x4 Pickups with snow plow (2643, 2741)</p>	
Continuing Property Record Management Information System	<p>This project will provide an automated continuous property record account system as required by state directives. When completed the system will serve both the Water and Sewer Utilities. Both Utilities are participating in the cost of purchasing this system.</p>	
Miscellaneous Equipment	<p>This project is the orderly replacement of worn or damaged miscellaneous small equipment beyond the economic feasibility of being repaired. It also includes funding to purchase some new, more efficient items as technology progresses.</p>	