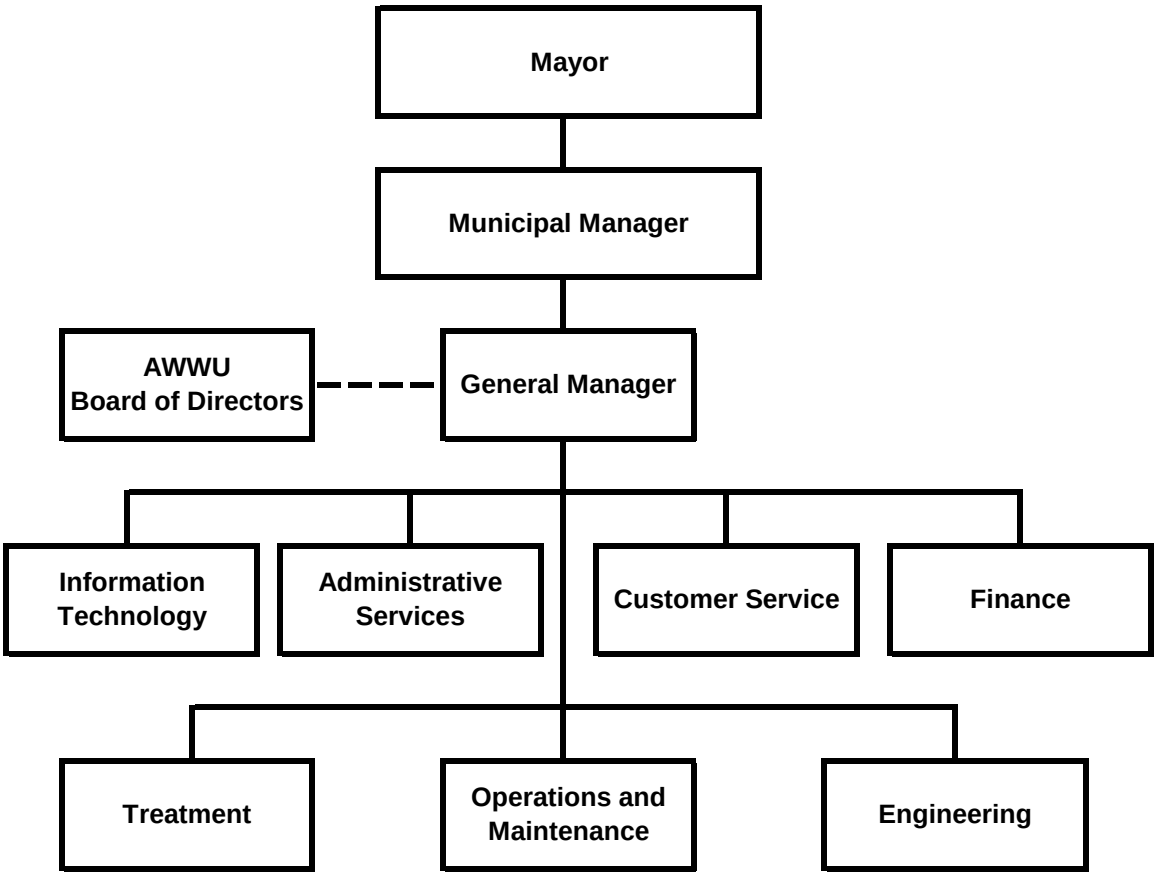
Anchorage Water & Wastewater Utility



Anchorage Water & Wastewater Utility
Organizational Overview

Overview

The Anchorage Water and Wastewater Utility (AWWU) is the largest water and wastewater utility in Alaska. AWWU currently serves the Municipality of Anchorage (Municipality) extending from Eklutna to as far south as Girdwood. Although they share one workforce, AWWU operates as two separate economic and regulated entities: the Anchorage Water Utility (AWU) and the Anchorage Wastewater Utility (ASU).

AWWU Headquarters

System Description

To provide water and sewer services, AWWU owns and operates five Treatment Facilities (2 water and 3 wastewater), approximately 1,600 miles of pipe, and over 325,000 square feet of facility space distributed throughout the Municipality. The certificated water service area covers 130.4 square miles in three distinct geographic areas, Northern Communities, the Anchorage Bowl, and Girdwood Valley. Estimates place the water service population at approximately 240,000 people via nearly 57,000 customer accounts. The certificated sewer service area is larger, encompassing nearly all of the Municipality. ASU currently provides sewer service to approximately 250,000 people via over 57,000 customer accounts. Additionally, AWWU receives septage pumped from on-site wastewater systems on lots in areas not directly connected to the sewer system.

Ship Creek Water Treatment Facility

AWU's three sources of water are Eklutna Lake, Ship Creek, and groundwater accessed through a system of wells in the Northern Communities, the Anchorage Bowl, and Girdwood Valley. Eklutna Water Treatment Facility (WTF) and the wells which supply Girdwood are operated year-round and serve as the primary supply source for the Anchorage and Girdwood water systems. The Ship Creek Water Treatment Facility and the remainder of the water wells are used to augment the primary water supply, mainly in times of peak demand, as well as provide redundancy to the Eklutna source for Eagle River and the Anchorage Bowl. Of these sources, the Eklutna WTF now provides approximately 86% of total water production for the Northern Communities/Eagle River and the Anchorage Bowl. In Girdwood, where system demand constitutes less than 2 percent of AWWU's total water production, all water produced and distributed is from two municipally-owned and managed wells.

ASU operates three wastewater treatment facilities to treat wastewater collected in three geographically separate but commonly managed sewer systems. The largest of these is the John M. Asplund Wastewater Treatment Facility (WWTF) located at Point Woronzof. The

Asplund Facility

Asplund WWTF was constructed in the early 1970's when Anchorage eliminated direct ocean discharges. It services the wastewater treatment needs of the Anchorage Bowl. The Asplund facility has received silver, gold, and platinum awards from the National Association of Clean Water Agencies for efficiency and environmental compliance. ASU is continually at work to maintain and enhance the facility. The Asplund facility operates in accordance with a National Pollution Discharge Elimination System (NPDES) permit administered by the U.S. Environmental Protection Agency (EPA). The permit, which expired in 2005 but has been administratively extended by EPA, allows discharge of effluent receiving primary treatment, in accordance with Section 301(h) of the Clean Water Act.

The Eagle River WWTF was originally built in the 1960's and upgraded several times. It services the public wastewater treatment and disposal needs within Eagle River and Chugiak. The Eagle River facility provides biological secondary treatment and discharges treated effluent to Eagle River. The Eagle River WWTF Permit has been administratively extended. The existing permit continues to be effective and enforceable until a new permit is issued by Alaska Department of Environmental Conservation (ADEC), which has assumed primacy from EPA over permits for wastewater discharge to fresh water.

Girdwood Wastewater Treatment Plant

The third facility is Girdwood WWTF. It was originally constructed in the 1970's and also has undergone several process modifications and upgrades. The Girdwood facility provides biological secondary treatment and discharges treated effluent to Glacier Creek under an administratively extended NPDES permit administered by the ADEC. The core facility is now at the end of its useful life. Phase 1 of plant replacement and upgrades was completed in 2014. Phase 2 of the plant replacement and upgrade is being planned to conform to discharge requirements of a new permit.

Over the past decade, investments in physical infrastructure have resulted in an increase in the value of AWU and ASU. From 2008 to present, plant in service has increased by 37% from $639.4 million to $874.2 million for AWU and by 41% from $486.5 million to $683.7 million for ASU. This growth is primarily a result of an increasing amount of investment in transmission and distribution assets (water pipelines) and collection plant assets (wastewater pipelines).

Organization

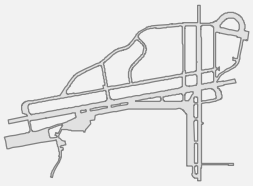
The General Manager's office is responsible for overall operation of AWWU. AWWU is organized into 7 divisions.

- The Information Technology Division provides support for all of AWWU's computers, network, and software systems.

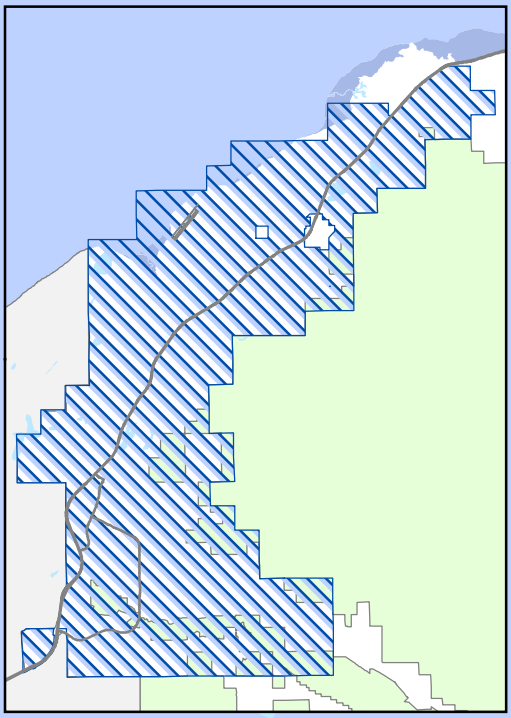
- The Administration Services Division provides for training, safety, and internal and external communications.
- The Customer Service Division is responsible for responding to customer inquiries, billing and collections for both utilities, issuing of permits, and field service functions.
- The Finance Division is responsible for all general ledger and plant accounting, preparation of utility budgets and financial statements, and regulatory filings.
- The Treatment Division is responsible for day-to-day operation of the treatment facilities and water distribution system and for maintaining compliance with all state and federal regulations.
- The Operations and Maintenance (O&M) Division maintains the treatment facilities and repairs all water and sewer piping and lift stations. The O&M Division also operates the wastewater collection system and is responsible for AWWU's supervisory control and data acquisition (SCADA) system.
- The Engineering Division is responsible for development and execution of AWWU's capital program and for system planning.

Municipality of Anchorage
AWWU Water Service District

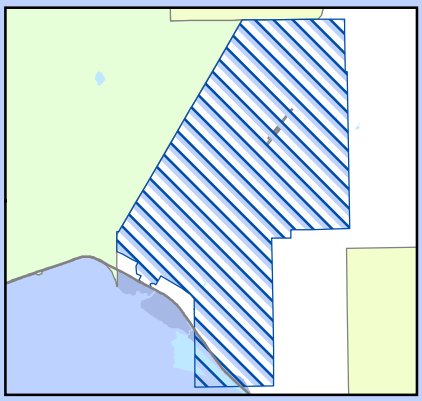
The Municipality of Anchorage (MOA) does not warrant the accuracy of maps or data provided, nor their suitability for any particular application.



Chugiak/Eagle River



Girdwood



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September 2020
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Municipality of Anchorage
AWWU Sewer Service District

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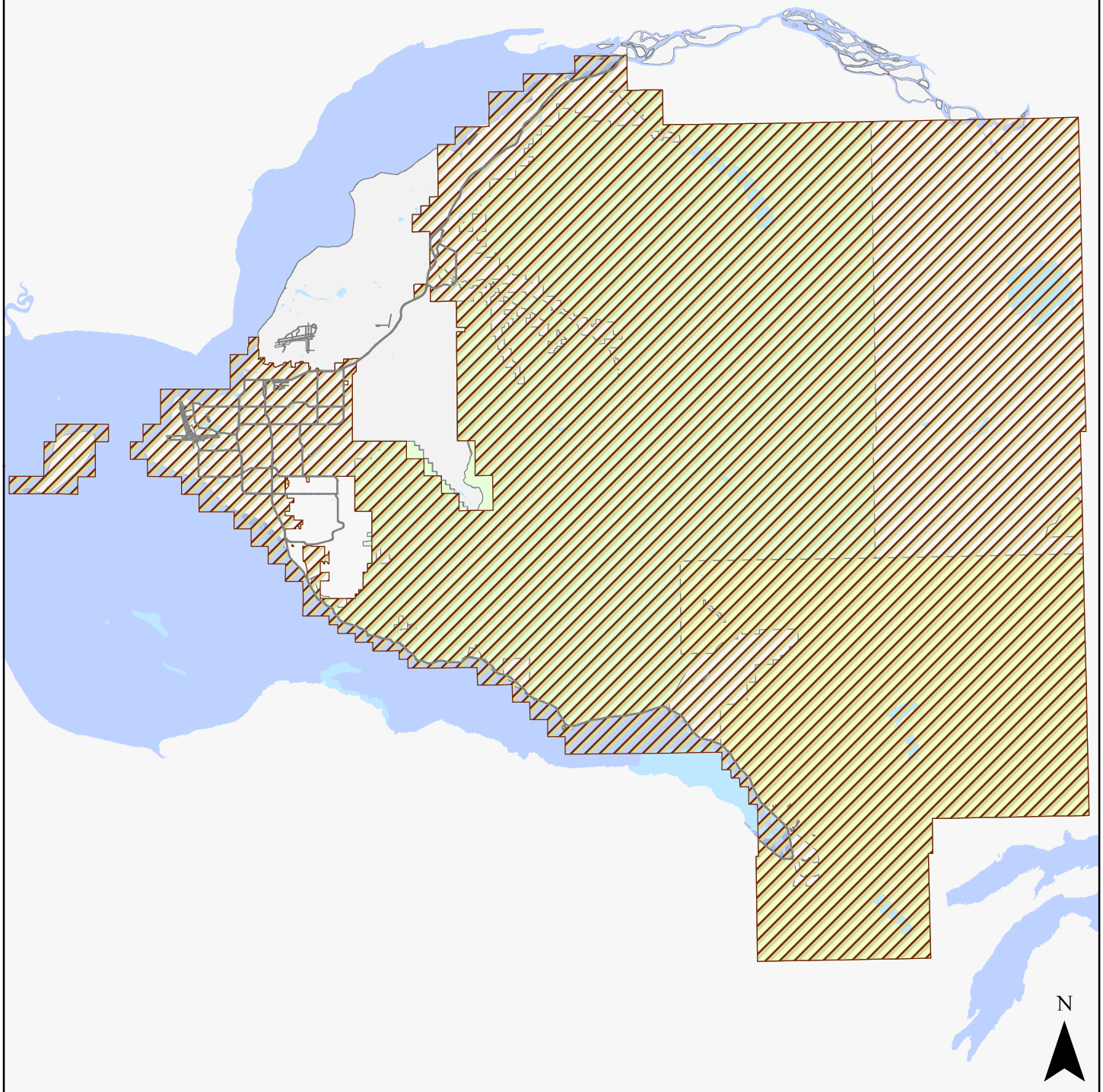

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September 2020
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Anchorage Water & Wastewater Utility
Business Plan

Vision
Excellence through innovation.

Mission
Providing safe and reliable water and wastewater service today and into the future.

Message
Anchorage Water & Wastewater Utility (AWWU) is investing to ensure reliable service, safeguard public health, and protect the environment, long into the future.

Services
AWWU is the largest water and wastewater utility in Alaska. AWWU currently serves the Municipality of Anchorage extending from Eklutna to as far south as Girdwood. Although they share one workforce, AWWU operates as two separate economic and regulated entities: the Anchorage Water Utility (AWU) and the Anchorage Wastewater Utility (ASU).

Business Goals
AWWU prepared an updated strategic plan in 2016. The plan includes the following goals:

- Be responsive to the needs of the community
- Be the model of innovation and efficiency in service to the public
- Be a responsible steward of ratepayer funds
- Be the employer of choice for existing and future staff

Commitments to Customers
AWWU has identified the following customer commitments which represent the outcomes or accomplishments of the Utilities' activities as viewed by the customer:

1. Provide safe drinking water that meets or exceeds all standards.
2. Protect the environment through appropriate wastewater collection, treatment, and disposal.
3. Provide reliable service.
4. Have timely, professional, and courteous interactions with customers.
5. Manage finances responsibly and transparently.
6. Set rates that fairly reflect the cost of providing service and maintaining infrastructure.
7. Deliver services affordably to promote a strong Anchorage economy.
8. Invest wisely to minimize risk and maintain service levels.
9. Continuously improve the efficiency of our operations.
10. Anticipate change and prepare for the future.

Performance Measures to Track Progress in Achieving Goals
AWWU measures progress in achieving these customer commitments using quantifiable performance measures, including the following:

1. Compliance with all State and Federal drinking water, wastewater and clean air standards.
2. Number of planned and unplanned water outages.
3. Sanitary sewer overflows.
4. Number of reportable injuries and accidents.
5. Execution of capital improvement budget.
6. Debt to equity ratio.

Anchorage Water & Wastewater Utility

Anchorage: Performance. Value. Results.

Mission

Supporting the public health, safety, and economic interests of the community by providing quality water and wastewater services in a responsible, efficient, and sustainable manner.

Core Services

- Reliably treat and distribute potable water for domestic, commercial, and firefighting uses throughout the certificated service area.
- Reliably collect, treat and dispose of wastewater in accordance with laws and regulations that protect public health and the environment.

Accomplishment Goals

- Provide reliable service
- Provide safe drinking water that meets or exceeds all standards
- Protect the environment through appropriate wastewater collection, treatment, and disposal.
- Fiscal responsibility and transparency with utility finances.
- Timely, professional, and courteous interactions with customers.
- Rates that fairly reflect the cost of providing service and maintaining infrastructure
- Continuous improvement in the efficiency of our operations
- Anticipate change and be prepared for the future.

Performance Measures

Progress in achieving goals shall be measured by:

1. Compliance with all State and Federal drinking water standards, wastewater standards, and Clean Air Act standards
2. Number of planned and unplanned water outages
3. Sanitary sewer overflows
4. Recordable incident rate (as compared to the standard incident rate for water and wastewater utilities)
5. Execution of capital improvement budget
6. Debt to equity ratio

Measure #1: Compliance with all State and Federal drinking water, wastewater, and clean air standards

Type

Effectiveness

Accomplishment Goals Supported

- Provide reliable service
- Provide safe drinking water that meets or exceeds all standards
- Protect the environment through appropriate wastewater collection, treatment, and disposal.

Definition

The number of regulatory requirements meeting compliance standards divided by the total number of regulatory requirements for the time period. The total number of regulatory requirements is the sum of daily, weekly and monthly compliance standards.

Data Collection Method

All samples collected are compared with the State or Federal regulatory standards and any violations are noted and reported in accordance with permit stipulations.

Frequency

The percent compliance measurement will be calculated quarterly, using running totals for the calendar year.

Measured By

The Treatment Division will prepare a report from the water quality and laboratory databases that identifies any samples or reportable incidents that do not meet regulatory standards.

Reporting

The Treatment Division Director will update the report quarterly from the water quality and laboratory databases. The information will be displayed in tabular form.

Used By

The Treatment Division Director and General Manager will use the information to gain a clearer understanding of performance of AWWU's treatment facilities and determine if changes in system operation or maintenance are required.

Results

		2020				Past Years					
Measure 1: Compliance with all State and Federal drinking water, wastewater, and clean air standards	**Goal**	**Q4**	**Q3**	**Q2**	**Q1**	**2019**	**2018**	**2017**	**2016**	**2015**	**2014**
Safe Drinking Water Act Compliance (%)	100			100	100	100	99.8	97.6	100	100	100
Clean Water Act (NPDES permit) Compliance (%)	100					100			100	100	
-Asplund				99.4	99.5	97.8	99.7	100	100	100	100
-Eagle River				96.9	100	99.7	99.3	100	99.7	100	100
-Girdwood				99.5	100	99.4	100	100	99.7	99.5	99.8
Clean Air Act Compliance (%) (Asplund Incinerator)	100			100	100	100	100	100	99.99	99.998	100

Measure #2: Number of planned and unplanned water outages

Type

Effectiveness

Accomplishment Goal Supported

- Provide reliable service
- Provide safe drinking water that meets or exceeds all standards
- Protect the environment through appropriate wastewater collection, treatment, and disposal.
- Timely, professional, and courteous interactions with customers.
- Continuous improvement in the efficiency of our operations
- Anticipate change and be prepared for the future

Definition

A water outage is defined as a disruption in service to a service connection. A service connection serves one customer, although multiple people may be affected by the disruption in service to a residence or a business.

Data Collection Method

A tally is kept through each calendar month of the number of customers who experience planned and unplanned water service disruptions for a range of durations listed below. The outage is as reported to AWWU and confirmed by observation or analysis in the field.

Frequency

The measurement will be recorded at the beginning of each month for the preceding month.

Measured By

Number of customers who do not have water service for the following durations:

- Less than 4 hours
- Between 4 hours and 12 hours
- Greater than 12 hours

Disruptions are counted for planned activities (customers are given advance notice in writing) and unplanned (emergency) activities.

Reporting

The Strategic Asset Services Section will create a monthly report that will be show water outages numerically and graphically.

Used By

The O&M Division, Customer Service Division, and Strategic Asset Services Section and the General Manager will review these data monthly to evaluate adequacy of operation and maintenance approaches, customer service response and pipe condition.

Results

Measure 2: Number of planned and unplanned water outages (customers per month)	Goal (Affected customers per month)	2020 (monthly average)	4th Q 2020 (monthly average)	3rd Q 2020 (monthly average)	2nd Q 2020 (monthly average)	1st Q 2020 (monthly average)	Historical monthly average				
							2019	2018	2017	2016	2015
Planned Outages											
<4 hours	<20	**48**			10	85	11	10	10	5	18
4-12 hours	<20	**5**			10	0	37	16	71	8	23
>12 hours	0	**0**			0	0	0	3	0.2	0.2	0.2
Unplanned Outages											
<4 hours	<20	**41**			54	27	17	38	15	92	41
4-12 hours	<50	**49**			42	55	36	42	38	22	33
>12 hours	0	**6**			0	11	3	11	3	5	0.2

Measure #3: Sanitary Sewer Overflows

Type

Effectiveness

Accomplishment Goals Supported

- Provide reliable service.
- Timely, professional, and courteous interactions with customers.
- Protect the environment through appropriate wastewater collection, treatment, and disposal.
- Continuous improvement in the efficiency of our operations
- Anticipate change and be prepared for the future.

Definition

Total number of wastewater overflows onto the ground or wastewater back-ups into customer residences if caused by an obstruction in an AWWU sewer main, manhole, or cleanout. Overflows or backups that occur due to on-property blockages do not count.

Data Collection Method

The reportable number of sanitary sewer overflows is what is reported in writing to the EPA Region X office within a week of each occurrence.

Frequency

The measurement will be recorded each month for the previous month.

Measured By

Data collection is by direct observation by AWWU staff.

Reporting

The O&M Division will create a monthly report displaying overflow data numerically and graphically.

Used By

The O&M Division, Customer Service Division, and Strategic Asset Services Section and the General Manager will review these data monthly to evaluate adequacy of operation and maintenance approaches, customer service response and pipe condition.

Results

	Goal	2020				Historical monthly average					
		Q4	Q3	Q2	Q1	2019	2018	2017	2016	2015	2014
Measure 3: Sanitary Sewer Overflows (monthly)	<1.5			2.0	.67	1.33	1.23	0.91	1.48	1.58	1.75

Measure #4: Number of reportable injuries and accidents

Type

Effectiveness

Accomplishment Goal Supported

- Provide reliable service
- Continuous improvement in the efficiency of our operations
- Anticipate change and be prepared for the future.

Definition

Number of OSHA recordable incidents multiplied by 200,000 (# defined by OSHA as 100 employees working full-time for a year) divided by number of hours worked by all employees. Compare Recordable incident rate to standard industrial rate (SIR) for water and wastewater utilities.

Data Collection Method

Accident and near-miss reports.

Frequency

Annually.

Measured By

Safety Program Manager, Administrative Services Division.

Reporting

The Administrative Services Division will maintain an accident and near miss report on a monthly basis. Data will be compiled, summarized, and reported at the end of the year. Reportable incidence rates will appear mid-calendar year.

Used By

The Safety Manager, all Division Directors and the General Manager will use the report to monitor and adjust working practices and focus training and attention to hazardous situations.

Results

	Goal	2019	2018	2017	2016	2015	2014	2013
Measure 4: Number of reportable injuries and accidents (annual)	<4.60	4.08	7.1	4.45	6.30	6.26	6.37	4.48

Note: Bureau of Labor Statistics (BLS) will normally post the previous year's incidence rate during the months of June or July. AWWU falls within the utilities sector of electric power generation, transmission and distribution; natural gas distribution; and water, sewer, and other systems.

Update - From the Bureau of Labor Statistics: **Important note on future data:** Beginning with the 2016 reference year, the Survey of Occupational Injuries and Illnesses (SOII) will present a single release of national data on **November 9, 2017**. This release will include industry counts and rates along with case circumstances and worker characteristics for cases requiring days away from work. In previous years, these data were released separately. State data was released on November 28, 2017. A similar schedule will be followed in subsequent years.

Measure #5: Execution of Capital Improvement Budget

Type

Efficiency

Accomplishment Goal Supported

- Provide reliable service
- Fiscal responsibility and transparency with utility finances.
- Rates that fairly reflect the cost of providing service and maintaining infrastructure
- Continuous improvement in the efficiency of our operations
- Anticipate change and be prepared for the future.

Definition

The ratio (as a percent) of capital project dollars expended through the fiscal year divided by the planned expenditure for the year as indicated in the approved Capital Improvement Budget.

Data Collection Method

Project Managers input % complete data and expected completion dates for each project named in the capital improvement budget.

Frequency

Estimates of the completeness (% complete) of all ongoing projects will be reported through the AWWU Engineering Division Project Management group annually and with quarterly updates to yearly progress.

Measured By

The Engineering Division will keep track of this information using the ERP tracking and reporting system.

Reporting

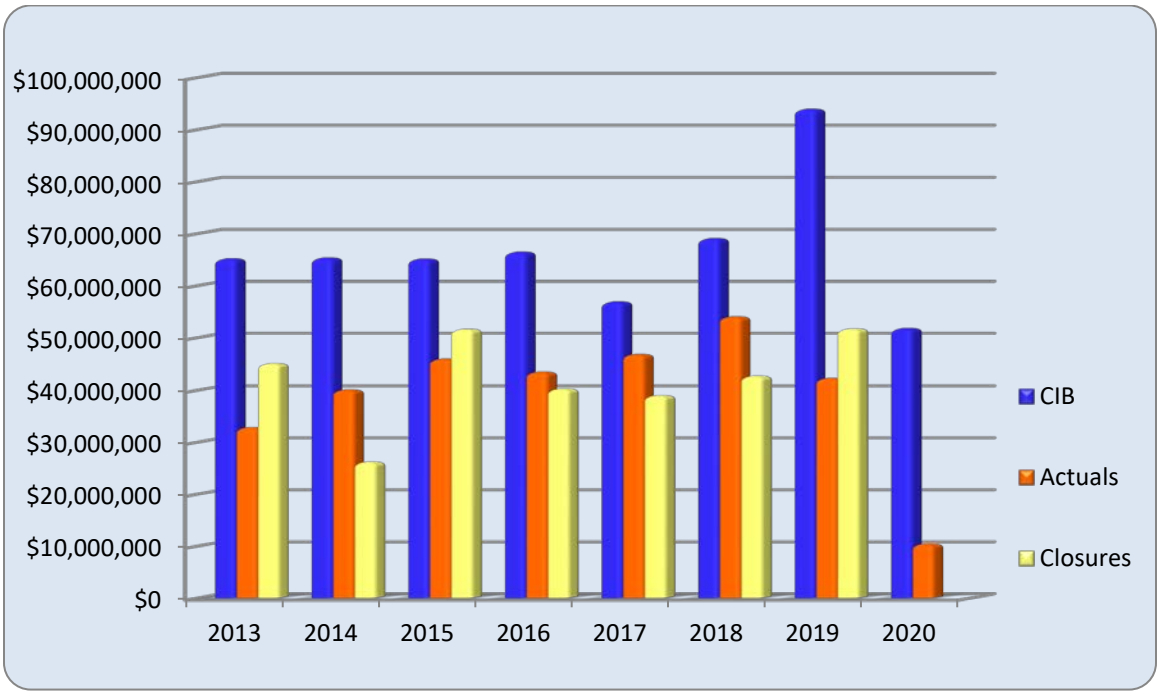
The information will be displayed numerically and graphically in monthly reports.

Used By

The Engineering Director and General Manager will use this data to gauge progress on use of capital project funds.

Results

	Goal	2020	Historical Information					
			2019	2018	2017	2016	2015	2014
Measure 5: Execution of Capital Improvement Budget (annual)	75%	20%	45%	78%	64%	65%	71%	61%



Budget, Expenditures, and Closures through June of 2020
Note – 2020 closure information is not known at this time and is not reflected on this graph

Measure #6: Debt to Equity Ratio

Type

Effectiveness

Accomplishment Goal Supported

- Fiscal responsibility and transparency with utility finances.
- Anticipate change and be prepared for the future.

Definition

The relative percentages of assets that are funded by debt and equity, respectively. The total of debt funding and equity funding equals 100%.

Data Collection Method

The calculation is performed by comparing debt and equity to assets annually.

Frequency

The measurement will be calculated annually upon completion of the Utility's audited financial statement.

Measured By

The Finance Division will calculate this ratio from financial statement data.

Reporting

The Finance Division manager will create and maintain an annual report. Trend information will be displayed in a table.

Used By

The information will be used by the Finance Division Director, General Manager, Board, and Administration to help evaluate debt financing levels.

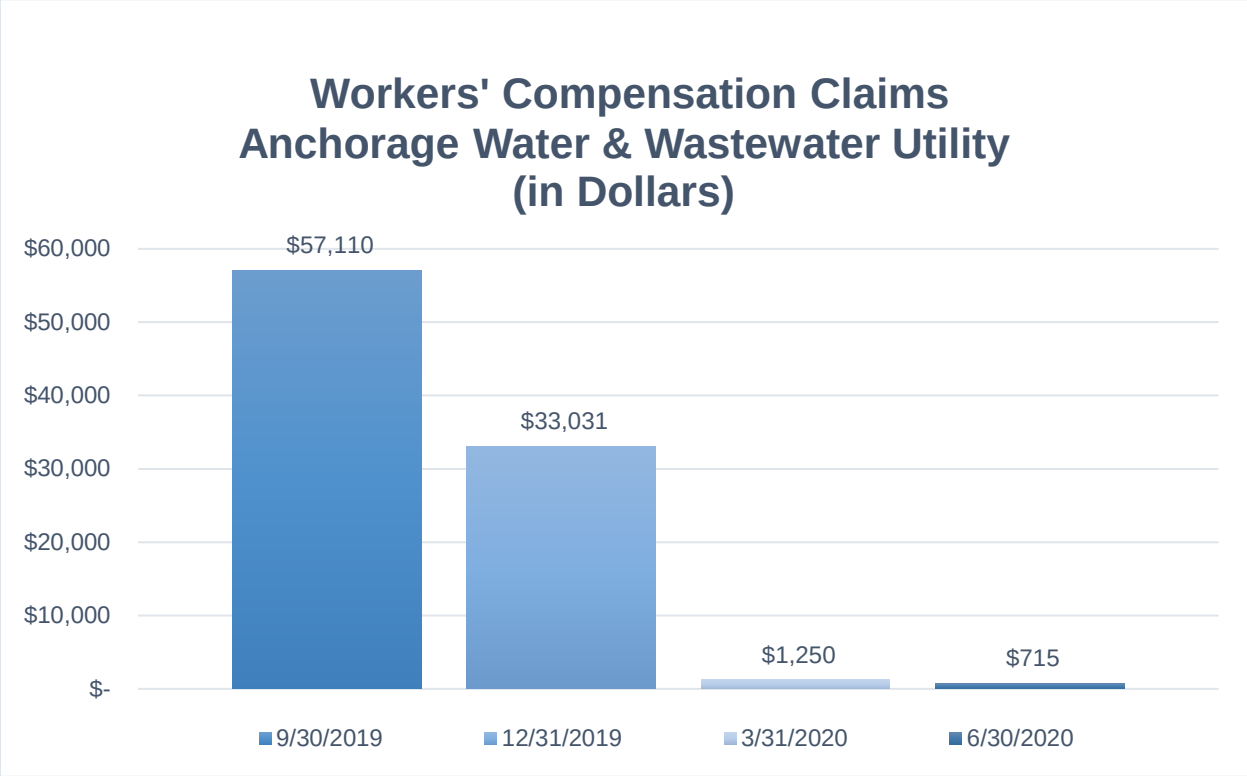
Results

Measure 6: Debt to Equity Ratio (annual)	Goal	2019	2018	2017	2016	2015	2014	2013
Water Utility	67/33	58/42	60/40	61/39	62/38	63/37	62/38	65/35
Wastewater Utility	67/33	64/36	65/35	64/36	67/33	67/33	65/35	67/33

PVR Measure WC: Managing Workers' Compensation Claims

Reducing job-related injuries is a priority for the Administration by ensuring safe work conditions and safe practices. By instilling safe work practices, we ensure not only the safety of our employees but reduce the potential for injuries and property damage to the public. The Municipality is self-insured and every injury poses a financial burden on the public and the injured worker's family. It just makes good sense to WORK SAFE.

Results are tracked by monitoring monthly reports issued by the Risk Management Division.



About Anchorage Water & Wastewater Utility

Anchorage Water Utility History
From the first intake of water at Lower Ship Creek, and a few miles of wood stave water lines downtown more than 100 years ago, Anchorage's public water utility has grown into an enterprise with a net plant in service of approximately $543 million that delivers nearly 23 million gallons of water to customers each day. The original water system for Anchorage was installed by the Alaska Railroad in 1917. In 1921, the City purchased the water system and associated water rights from the Alaska Engineering Commission. As the City expanded by annexation, the water system was extended into new areas and independent water systems previously serving the annexed areas were acquired by the City. A 2.6-mile raw water line to Ship Creek was built in 1980 to replace an earlier raw water main originally constructed in 1962 for the Ship Creek Water Treatment Facility (WTF). In the 1950's, an aqueduct was drilled through the mountains north of Anchorage to supply water from Eklutna Lake to the Eklutna hydroelectric power plant along the Knik River. In 1985, Anchorage Water and Wastewater Utility (AWWU) tapped this aqueduct and connected a 7.8-mile-long transmission main (intake portal) to provide water from Eklutna Lake to the Eklutna Water Treatment Facility (WTF). A 22-mile long water transmission main was constructed to distribute the treated water from Eklutna to Chugiak, Eagle River, and on into Anchorage.

Anchorage Sewer Utility History
The Alaska Engineering Commission first installed sewers in downtown Anchorage in 1916 along the lower bluff near the Alaska Railroad Depot. As Anchorage grew, construction of sewers continued and by the end of World War II, sewers were available in much of the area between Ship Creek and Chester Creek, west of Cordova Street. Greater Anchorage Area Borough (GAAB) was created in 1964 and was granted area wide sewer authority. The last major private sewer utility was acquired by the GAAB in 1972. Investment by the GAAB in the 1970's constructed the John M. Asplund (Asplund) Wastewater Treatment Facility (WWTF) for Anchorage, the Girdwood WWTF, and the Eagle River WWTF. The wastewater utility is now owned and governed by the Municipality of Anchorage as a result of unification of the City of Anchorage and the GAAB on September 15, 1975. The rivers, creeks, and inlets downstream from Anchorage's wastewater treatment facilities are not adversely impacted by treated effluent, which is AWWU's principal measure of success. The Anchorage community benefits from the superior operation of the three wastewater treatment plants that serve its growing population. Anchorage's public wastewater utility has grown into an enterprise with a net plant in service of approximately $423 million.

Governance
AWWU has a seven-member Board of Directors as codified in Anchorage Municipal Code section 4.80.020. The Board is appointed by the Mayor to staggered 3-year terms, with nominees subject to Assembly approval. The Board, by code, makes recommendations to the Mayor, establishes procedures for customer complaints, and recommends changes in code to the Assembly that the Board deems necessary or desirable for the efficient operation of the Utility or for the benefit of its customers. The authority for operation and management of the Utility is under the control of the Mayor. The Board members are very experienced professionals in the fields of law, accounting, engineering, and public health, in addition to 2 at-large citizen members. Regular meetings are held monthly and are open to the public. Board meetings focus on Utility operations and highlights.

Economic Regulation and Accounting
Since 1970, both the Anchorage Water Utility (AWU) and the Anchorage Wastewater Utility (ASU) have been regulated by the Alaska Public Utilities Commission (APUC), which was renamed the Regulatory Commission of Alaska (RCA) on July 1, 1999. AWU and ASU each hold a Certificate

of Public Convenience and Necessity for serving portions of the Anchorage Bowl, Eagle River, and Girdwood. The RCA must approve all rates and tariffs prior to implementation. They also regulate service areas and service quality. The RCA is composed of five members appointed to six-year staggered terms by the Governor of the State of Alaska and confirmed by the State Legislature.

AWWU is an Enterprise Fund. Enterprise Funds are used to account for operations where costs of providing services to the general public on a continuing basis are financed or recovered primarily through user charges or where the governing body has decided that periodic determination of revenues earned, expenses incurred, and/or change in net assets is appropriate for capital maintenance, public policy, management control, accountability or other purposes.

AWWU applies all applicable provisions of the Governmental Accounting Standards Board (GASB) which has authority for setting accounting standards for governmental entities. The accounting records of the Utility conform to the Uniform System of Accounts prescribed by the National Association of Regulatory Utility Commissioners (NARUC). The accrual basis of accounting is used for Enterprise Funds. Revenues are recognized in the accounting period in which they are earned and become measurable. Expenses are recognized in the period incurred, if measurable.

Environmental Regulation

AWU's activities are dictated by a wide variety of environmental regulations administered by the Environmental Protection Agency (EPA) and the Alaska Department of Environmental Conservation (ADEC). Potable water produced by AWU must comply with the regulations promulgated under the Safe Drinking Water Act (SDWA). The SDWA is the main federal law governing the quality of drinking water in the United States. The ADEC has authority (primacy) to administer the SDWA regulations for the EPA. The SDWA sets standards for the chemical and microbial quality of drinking water and establishes requirements for informing the public.

ASU's activities are also dictated by a wide variety of environmental regulations administered by the EPA and the ADEC. All wastewater discharges must comply with the regulations promulgated under the Clean Water Act (CWA). The CWA is the main federal law governing discharges into the waters of the United States. The CWA requires that each treatment facility have a unique National Pollution Discharge Elimination System (NPDES) permit that specifies the discharge limits from each facility for a wide variety of chemical and biological constituents. The ADEC has authority (primacy) to issue and administer the NPDES permits for ASU's Eagle River and Girdwood WWTFs. Authority to issue and administer the 301(h) modification for the Asplund WWTF has been retained by EPA, due to the special conditions of this discharge as outlined in section 301(h) of the CWA. In addition to the CWA laws, ASU's sewage sludge incinerator must also comply with the provisions specified in Title V of the Clean Air Act (CAA). ADEC has primacy for the CAA and administers the permit for EPA.

Failure to comply with the regulations promulgated under the SDWA, CWA, and CAA can result in fines and/or compliance orders and criminal charges.

Physical Plant

The Asplund WWTF is one of the few facilities in the nation operating as a primary treatment facility under Section 301(h) of the CWA. The primary treatment provided by this facility removes up to 46% of the biological oxygen demand (BOD) and 80% of the solids from the influent wastewater meeting the criteria necessary for discharge to the marine waters of Cook Inlet.

The smaller Eagle River and Girdwood WWTFs provide advanced secondary treatment prior to discharge to Eagle River and Glacier Creek respectively. These facilities remove up to 99% of the pollutants from the incoming wastewater prior to discharge.

In 2018, the Asplund WWTF treated an average of 27.1 million gallons per day (mgd). The Eagle River WWTF treated an average 1.3 mgd and the Girdwood WWTF treated an average 0.4 mgd. The three facilities have a combined design capacity of 61.1 mgd. The wastewater collection system has approximately 761 miles of pipes.

The Asplund facility, built in 1972, is Alaska's largest wastewater treatment plant. As wastewater treatment technology and the demands of community growth have developed over the last two decades, utility operators and engineers have kept pace. The Asplund plant underwent major renovations in 1982 and expanded and upgraded again in 1989.

A facilities plan update was prepared in 1999. The 1999 facilities plan evaluated the existing condition of the Asplund facility and identified improvements necessary to meet the future needs of the community. The facilities plan identified over $40 million worth of improvements to the solids handling, headworks, administration, laboratory, incineration, and thickening processes and control and power systems. AWWU undertook a majority of the recommended Asplund projects. These projects, along with careful operation, have made Asplund a modern, state-of-the-art treatment facility. In 2014, an updated facilities plan was prepared for Asplund. The plan recommended over $17M of additional investment in Asplund over ten years' time to rehabilitate and maintain aging infrastructure. A significant portion of those recommendations have been completed since 2014 with more to be completed in 2019. ASU continues to maintain its smaller treatment plants. Additional projects at Eagle River and Girdwood are underway, all designed to replace, rehabilitate, and provide for the near-term needs of the areas being serviced.

AWU's three sources of water are Eklutna Lake, Ship Creek and groundwater accessed through a system of wells in the Northern Communities, the Anchorage Bowl and Girdwood Valley. Eklutna WTF and the wells which supply Girdwood are operated year-round and serve as the primary supply sources for the two water systems. The Ship Creek WTF and the remainder of water wells are used to augment the primary water supply as well as provide redundancy to the Eklutna source for Eagle River and the Anchorage Bowl.

Of these sources, the Eklutna WTF now provides, on average, 91 percent of total water production for the Northern Communities and the Anchorage Bowl. In Girdwood, where system demand constitutes less than 2 percent of AWWU's total water production, all water produced and distributed is from two wells.

Projects to maintain the surface water plants and AWU's wells are on-going. The purpose of these projects is multiple fold: to rehabilitate and upgrade facilities where equipment has reached the end of its useful life; to automate and increase operational efficiency of facilities; to increase yield from existing well sites; and to meet stricter federal and state regulations regarding water quality.

Visit the AWWU website at: https://www.awwu.biz/

Anchorage Water & Wastewater Utility
Highlights and Future Events

COVID-19
The adverse effects of the COVID-19 virus in the community has had significant impacts on Anchorage Water and Wastewater Utility (AWWU). Many people throughout the community have lost their jobs, while others have been teleworking, if possible. Many businesses have closed or suffered lost revenue and high vacancies as a result of reduced tourism. These and other factors have led to decreases in commercial metered usage by 30%, resulting in a 5% decrease ($6 million) in annual revenues.

Overall, the demand on the system has maintained historical levels, as the community is now using more water in homes (flat rates), replacing the difference of usage from commercial buildings. The treatments plants and operational units have had no appreciable decreases in their expenses despite decreased revenues.

Affordability
A growing concern for water and wastewater utilities nationwide is the affordability of rates to ratepayers. AWWU shares the concerns of these other utilities. Increases in infrastructure and operating costs continue to lead to higher rates. Ongoing investment in infrastructure is critical for the Utility, as evidenced from the November 2018 earthquake. AWWU's infrastructure proved resilient; no customers went without service immediately following the earthquake. With this history and knowledge, AWWU is decreasing the amount of capital spending to be more in-line with depreciation levels, and to assist AWWU in mitigating future large rate increases.

Throughout 2019 and 2020, AWWU took the following steps to help reduce ongoing expenses:

- Education throughout the utility on energy efficiency and reduced demand charges.
- Reduced natural gas usage while maintaining compliance with air quality permits.
- Additional storage and reliability of the Asplund Wastewater Treatment Facility's disinfection system.

Focus in these areas will result in the savings of hundreds of thousands of dollars annually.

2021 Operating Expenses
With the future unknowns of the COVID-19 pandemic, and economic sustainability as an underlining principle for the Utility, AWWU is budgeting labor and non-labor expenses at levels lower than 2019 actual costs. These measures will assist in meeting financial metrics as defined by the AWWU Board of Directors. Proposed reductions will affect AWWU's Levels of Service. Response-time, mean time to repair, and customer hold times will likely lead to an increase in customer complaints due to these spending reductions.

Should the revenue outlook improve, or federal pandemic relief be provided to the Utility, AWWU will be asking for appropriations in line with the additional income in order to bring AWWU's Levels of Service up to more acceptable levels.

Rate Increases Calculated, Requested and Approved

	Calculated Rate Increases		Requested Permanent Rate Increases		Approved Rate Increases		
	AWU	ASU	AWU	ASU	AWU	ASU	Reason For Requesting Increases Less Than The Calculated Increases
2004	14.2%	8.1%	14.2%	8.1%	13.6%	8.1%	The calculated increases were requested due to the change in the MUSA calculation.
2005	7.2%	6.8%	7.2%	6.8%	7.8%	3.0%	The calculated increases were requested due to the change in the MUSA calculation.
2006	12.4%	15.0%	8.9%	10.6%	6.5%	10.6%	Policy direction to limit rate increases requested to reduce impact on customers.
2007	15.0%	17.8%	14.5%	13.0%	7.0%	9.5%	Policy direction to limit rate increases requested to reduce impact on customers.
2008	-	-	-	-	-	-	Rate changes were not requested by AWWU for 2008.
2009	8.7%	8.0%	7.0%	6.5%	5.6%	6.5%	Policy direction to limit rate increases requested to reduce impact on customers.
2010	7.0%	9.5%	2.5%	2.5%	2.5%	2.5%	Policy direction to limit rate increases requested to reduce impact on customers.
2011	18.5%	26.2%	8.0%	15.0%	8.0%	15.0%	Policy direction to limit rate increases requested to reduce impact on customers.
2012	13.0%	16.6%	6.0%	11.0%	6.0%	11.0%	Policy direction to limit rate increases requested to reduce impact on customers.
2013	9.1%	6.8%	6.0%	4.5%	6.0%	4.5%	Policy direction to limit rate increases requested to reduce impact on customers.
2014	5.6%	6.7%	4.0%	5.5%	2.3%	4.3%	AWWU stipulated to permanent rates lower than the rates requested.
2015	-	-	-	-	-	-	Rate changes were not requested by AWWU for 2015.
2016	-	-	-	-	-	-	Rate changes were not requested by AWWU for 2016.
2017	-	11.9%	-	9.5%	-	9.5%	Policy direction to limit rate increases requested to reduce impact on customers.
2018	4.5%	4.2%	3.0%	2.5%	3.0%	1.0%	
2019	8.3%	10.5%	7.0%	9.5%	6.5%	6.9%	AWWU stipulated to permanent rates lower than the rates requested.
2020	-	-	-	-	-	-	Rate changes were not requested by AWWU for 2020.

To improve its debt position, AWWU must continue to request reasonable rates while controlling expenses. The budget provided in this package provides just such a balance.

Anchorage Water & Wastewater Utility
External Impacts

Wastewater Treatment Facilities Discharge Permits
The State of Alaska Department of Environmental Conservation (ADEC) assumed authority for permitting wastewater discharges for the Girdwood and Eagle River Wastewater Treatment Facilities (WWTF) in November 2008. The Girdwood WWTF permit has been administratively extended by ADEC and continues to be effective and enforceable until a new permit is issued. The Eagle River WWTF permit was reissued by ADEC in 2020 and is valid for at least five years.

Authorization of discharge into marine waters from the Asplund WWTF remains under the auspices of the U.S. Environmental Protection Agency (EPA). The EPA is currently evaluating the Utility's application for reauthorization of the permit allowing only primary treatment, in accordance with criteria set out in Section 301(h) of the Clean Water Act. Subsequent to the agency's determination that the Asplund discharge meets the 301(h) criteria, EPA will consult with the National Marine Fisheries Service (NMFS) on the effects of the permit reauthorization on endangered species (i.e., the Cook Inlet beluga whale). If NMFS finds that the discharge reauthorization is likely to jeopardize continued existence of the species or adversely modify critical habitat, NMFS may impose conditions on the permit to mitigate the effects on the species. EPA has notified AWWU that they have targeted September 2022 to complete the review of the extension of the 301(h) permit.

Infrastructure
At the current time, AWWU provides best-in-class service as measured against industry benchmarks. However, the infrastructure required to provide water and sewer service requires continual annual capital investments to maintain service levels.

AWWU has advanced its asset management program to optimize spending on the Utility's infrastructure. AWWU performs business case analyses of major issues to determine solutions that lead to the lowest overall life cycle costs, as well as extensive condition assessment monitoring and evaluation using both AWWU staff and specialized contractors. This work is expected to provide best value to ratepayers in the long term.

Anchorage Water Utility
8 Year Summary
($ in thousands)

Financial Overview	2019 Actuals	2020 Proforma	2021 Proposed	2022	2023	2024	2025	2026
				Forecast				
Revenues	68,580	63,413	64,526	69,658	72,139	74,639	77,339	80,149
Expenses and Transfers [1]	54,749	61,358	59,498	61,862	62,980	64,830	67,490	69,710
Net Income (Loss)	**13,831**	**2,055**	**5,028**	**7,796**	**9,159**	**9,809**	**9,849**	**10,439**
Charges by/to Other Departments	2,289	2,330	2,768	2,879	2,994	3,114	3,238	3,368
Municipal Enterprise/Utility Service Assessment	8,705	9,074	9,383	9,440	9,690	10,030	10,350	10,680
Dividend to General Government	-	1,630	-	-	-	-	750	1,000
Transfers to General Government [2]	**10,994**	**13,034**	**12,151**	**12,319**	**12,684**	**13,144**	**14,338**	**15,048**
Operating Cash	35,348	27,291	24,493	23,840	23,735	24,704	24,216	23,897
Construction Cash Pool	10,235	23,508	4,536	4,067	3,749	2,790	2,801	3,300
Restricted Cash	3,177	-	927	2,188	2,370	2,457	2,545	2,639
Total Cash	**48,760**	**50,799**	**29,956**	**30,095**	**29,854**	**29,951**	**29,562**	**29,836**
Net Position (Equity) 12/31	173,167	175,221	180,200	187,997	197,155	206,964	216,812	227,251
Capital Assets Beginning Balance	563,079	566,271	571,894	571,471	573,657	576,289	579,753	582,292
Asset Additions Placed in Service	24,276	22,907	17,271	20,210	21,090	22,014	21,419	20,677
Assets Retired	(16,856)	(3,300)	(4,100)	(4,000)	(4,000)	(4,000)	(4,000)	(4,000)
Change Depreciation (Increase)/Decrease	(4,228)	(13,984)	(13,594)	(14,024)	(14,458)	(14,550)	(14,880)	(15,210)
Net Capital Assets (12/31)	566,271	571,894	571,471	573,657	576,289	579,753	582,292	583,759
Equity Funding Available for Capital	10,000	11,000	6,000	6,000	7,000	7,000	8,000	8,000
Debt								
New Debt - Bonds	2,895	19,730	25,000	-	-	-	-	-
New Debt - Loans or Other	7,558	8,000	10,000	10,500	10,500	10,750	10,800	10,900
Total Outstanding LT Debt	208,320	222,002	244,653	242,101	238,926	235,974	232,249	243,782
Total Annual Debt Service Payment	17,838	19,780	21,593	21,186	21,656	21,485	22,066	22,558
Debt Service Requirement	**1.15**	**1.15**	**1.15**	**1.15**	**1.15**	**1.15**	**1.15**	**1.15**
Debt Service Coverage (Bond)	3.64	2.75	2.53	2.49	2.59	2.81	2.91	2.94
Debt Service Coverage (Total)	1.81	1.23	1.15	1.25	1.26	1.30	1.31	1.32
Debt/Equity Ratio	58 / 42	56 / 44	58 / 42	56 / 44	55 / 45	53 / 47	52 / 48	52 / 48
Rate Change Percent	6.52%	0.0%	2.0%	3.5%	3.5%	3.5%	3.5%	3.5%
Single Family Rate ($)	54.53	54.53	55.62	57.57	59.58	61.67	63.83	66.06
Statistical/Performance Trends								
Number of Accounts	56,561	56,561	56,561	56,657	56,753	56,850	56,947	57,043
Average Treatment (MGD)	25.8	25.9	25.9	26.0	26.1	26.1	26.2	26.3
Miles of Water Lines	848	850	852	854	857	859	861	863
Number of Public Hydrants	6,069	6,084	6,099	6,115	6,130	6,145	6,161	6,176

[1] Expenses shown include all transfers to General Government and all non-cash items: depreciation (including depreciation on assets purchased with grant funds) and amortization activities.
[2] Included in total expenses calculated in Net Income.

Anchorage Water Utility
Statement of Revenues and Expenses

	2019 Actuals	2020 Proforma	Under/(Over) Budget	2020 Revised	$ Change	2021 Proposed	21 v 20 % Change
Operating Revenue							
Residential Sales	45,102,446	45,500,000	(166,550)	45,333,450	966,550	46,300,000	2.13%
Commercial Sales	14,154,435	11,100,000	2,468,485	13,568,485	(2,668,485)	10,900,000	-19.67%
Public Authority Sales	5,200,262	5,226,640	-	5,226,640	73,360	5,300,000	1.40%
Reimbursed Costs	-	-	-	-	-	-	0.00%
Miscellaneous	1,508,739	1,000,000	293,550	1,293,550	-	1,293,550	0.00%
Total Operating Revenue	**65,965,881**	**62,826,640**	**2,595,485**	**65,422,125**	**(1,628,575)**	**63,793,550**	**-2.49%**
Non Operating Revenue							
Investment Income	2,532,460	585,900	142,150	728,050	(50)	728,000	-0.01%
Other Income	82,262	752	4,249	5,000	-	5,000	0.00%
Total Non Operating Revenue	**2,614,722**	**586,652**	**146,399**	**733,050**	**(50)**	**733,000**	**-0.01%**
Total Revenue	**68,580,603**	**63,413,292**	**2,741,884**	**66,155,175**	**(1,628,625)**	**64,526,550**	**-2.46%**
Operating Expense							
Salaries and Benefits	16,707,969	17,947,771	413,948	18,361,719	(357,618)	18,004,101	-1.95%
Overtime	813,427	936,803	(483,803)	453,000	(134,316)	318,684	-29.65%
Total Labor	17,521,396	18,884,573	(69,854)	18,814,719	(491,934)	18,322,785	-2.61%
Supplies	2,093,523	1,947,162	406,836	2,353,998	(92,294)	2,261,704	-3.92%
Travel	52,056	6,860	(6,860)	-	39,550	39,550	0.00%
Contractual/Other Services	6,798,362	7,601,321	545,915	8,147,236	(424,561)	7,722,675	-5.21%
Equipment/Furnishings	-	-	-	-	-	-	0.00%
Contributions to Other Funds	7,500	-	-	-	-	-	0.00%
Dividend to General Government	-	1,630,000	-	1,630,000	(1,630,000)	-	-100.00%
Manageable Direct Cost Total	8,951,441	11,185,343	945,891	12,131,234	(2,107,305)	10,023,929	-17.37%
Municipal Enterprise/Utility Service Assessment	8,705,313	9,073,946	444,969	9,518,915	(136,265)	9,382,650	-1.43%
Depreciation/Amortization	13,090,888	13,680,000	-	13,680,000	(1,005,616)	12,674,384	-7.35%
Non-Manageable Direct Cost Total	21,796,201	22,753,946	444,969	23,198,915	(1,141,881)	22,057,034	-4.92%
Charges by/to Other Departments	2,281,709	2,330,407	180,118	2,510,525	257,786	2,768,311	10.27%
Intradepartmental Overheads	(930,126)	(604,254)	(66,189)	(670,443)	87,746	(582,697)	-13.09%
Total Operating Expense	**49,620,620**	**54,550,016**	**1,434,934**	**55,984,950**	**(3,395,588)**	**52,589,362**	**-6.07%**
Non Operating Expense							
Amortization of Debt Expense	(763,793)	(773,059)	(92,941)	(866,000)	2,000	(864,000)	-0.23%
Debt Issuance Costs	158,708	100,000	-	100,000	200,000	300,000	200.00%
Interest on Bonded Debt	4,782,100	5,923,022	-	5,923,022	(421,022)	5,502,000	-7.11%
Interest on Loans	1,740,086	2,400,000	-	2,400,000	151,000	2,551,000	6.29%
Interest During Construction (AFUDC)	(788,274)	(841,581)	(118,419)	(960,000)	380,000	(580,000)	-39.58%
Total Non Operating Expense	**5,128,827**	**6,808,382**	**(211,360)**	**6,597,022**	**311,978**	**6,909,000**	**4.73%**
Total Expense	**54,749,446**	**61,358,398**	**1,223,574**	**62,581,972**	**(3,083,610)**	**59,498,362**	**-4.93%**
Net Income (Loss)	**13,831,157**	**2,054,894**	**1,518,309**	**3,573,203**	**1,454,985**	**5,028,188**	**40.72%**
Appropriation:							
Total Expense		**61,358,398**	**62,581,972**	**62,581,972**	**(1,860,036)**	**59,498,362**	**-4.93%**
Less: Non Cash Items							
Depreciation/Amortization		13,680,000	-	13,680,000	(1,005,616)	12,674,384	-7.35%
Amortization of Debt Expense		(773,059)	(92,941)	(866,000)	2,000	(864,000)	-0.23%
Interest During Construction (AFUDC)		(841,581)	(118,419)	(960,000)	380,000	(580,000)	-39.58%
Total Non-Cash		12,065,360	(211,360)	11,854,000	(623,616)	11,230,384	-5.26%
Amount to be Appropriated (Function Cost/Cash Expense)		**49,293,038**	**1,434,934**	**50,727,972**	**(2,459,994)**	**48,267,978**	**-4.85%**

Anchorage Water Utility
Reconciliation from 2020 Revised Budget to 2021 Proposed Budget

	Expenses	Positions FT	PT	Temp/ Seas
2020 Revised Budget (Appropriation)	50,727,972	283	1	10
Transfers by/to Other Departments				
- Charges by Other Departments	257,786	-	-	-
Changes in Existing Programs/Funding for 2021				
- Salaries and Benefits Adjustments	568,797	-	-	-
- Overtime alignment - net 0 adjustment of the overtime budget into the accounts that the costs will actually post to	(134,316)	-	-	-
	134,316	-	-	-
- Contractual/Other Services - Insurance	46,810	-	-	-
- Contractual/Other Services - Bad Debt Expense	119,834	-	-	-
- 2020 One-Time Travel	91,900	-	-	-
- Non-Operating Expense - Debt Expense	(68,022)	-	-	-
- Intradepartmental Overheads - Administrative Overhead	55,000	-	-	-
- Depreciation	(1,005,616)	-	-	-
- Non-Operating Expense - Interest During Construction	380,000	-	-	-
- Municipal Utility Service Assessment (MUSA)	(136,265)	-	-	-
2021 Continuation Level	**51,038,196**	**283**	**1**	**10**
2021 Proposed Budget Changes				
- Executive salaries to stay flat from 2020	(8,147)	-	-	-
- Non-Represented pay scales to stay flat from 2020	(48,301)	-	-	-
- Labor - 2021 One-Time Vacancy Factor Increase*	(1,004,283)	-	-	-
- Non-Labor - 2021 One-Time Decrease - Supplies/Contractual/Other Services*	(650,753)	-	-	-
- Travel - 2021 One-Time Decrease*	(52,350)	-	-	-
- Dividend	(1,630,000)	-	-	-
2021 Proposed Budget	**47,644,362**	**283**	**1**	**10**
2021 Budget Adjustment for Accounting Transactions (Appropriation)				
- Depreciation and Amortization	1,005,616	-	-	-
- Amortization of Debt Expense	(2,000)	-	-	-
- Interest During Construction	(380,000)	-	-	-
2021 Proposed Budget (Appropriation)	**48,267,978**	**283**	**1**	**10**
	2021 Proposed FTE			
	288.5	**283**	**0.5**	**5.0**

Workforce Authorized per Budget is for both Water and Wastewater utilities.

* Budget reductions for 2021 due to economic uncertainties. These reductions will affect customer hold times and AWWU response times, but there are no anticipated impacts to safety. If financial forecasts improve, AWWU will ask for additional appropriations for 2021.

Anchorage Water Utility
2021 Capital Improvement Budget

($ in thousands)

Projects	Debt	Grants		Equity	Total
		State	Federal		
900 Reservoir & Transmission Main	3,275	-	-	475	3,750
Alaska Department of Transportation-MOA Emergency	-	-	-	1,000	1,000
Bragaw 16th Debarr Water Upgrade	900	-	-	-	900
Customer Information System Enhancements	-	-	-	50	50
Eklutna Lake Water Rights	-	-	-	200	200
Eklutna Water Treatment Facility Disinfection Improvements	705	-	-	-	705
Eklutna Water Treatment Facility Fluoride Improvements	450	-	-	-	450
Eklutna Water Treatment Facility Motor Control Center Upgrade	2,000	-	-	-	2,000
Excavation Safety Equipment	-	-	-	125	125
Facility Equipment	-	-	-	750	750
Facility Plant	-	-	-	1,400	1,400
Geographic Information System Application Development	-	-	-	25	25
Girdwood Distribution Upgrades	800	-	-	-	800
Heavy Rolling Stock	-	-	-	500	500
Hydraulic Model Upgrades	-	-	-	50	50
Information Technology Infrastructure	-	-	-	600	600
Miscellaneous Information Technology Systems	-	-	-	250	250
Orca High-Density Polyethylene Pipe Replacement	520	-	-	-	520
Parkdown Estates Water Upgrade	400	-	-	-	400
Plant Oversize & Betterments	-	-	-	25	25
Pressure Regulating Valve Replacement	-	-	-	300	300
Programmatic Interties	-	-	-	250	250
Reservoir Upgrades & Improvements	-	-	-	300	300
Supervisory Control and Data Acquisition Equipment	-	-	-	250	250
Tudor - Wright Water Upgrades	300	-	-	-	300
Upper Eagle River Fire Flow	1,650	-	-	-	1,650
Vehicles	-	-	-	300	300
Work Management Software	-	-	-	150	150
Total	**11,000**	**-**	**-**	**7,000**	**18,000**

Anchorage Water Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants State	Grants Federal	Equity	Total
ADOT-MOA Emergency						
Alaska Department of Transportation-MOA Emergency	2021	-	-	-	1,000	1,000
	2022	-	-	-	1,000	1,000
	2023	-	-	-	1,000	1,000
	2024	-	-	-	1,000	1,000
	2025	-	-	-	1,000	1,000
	2026	-	-	-	1,000	1,000
		-	-	-	6,000	6,000
Equipment						
Excavation Safety Equipment	2021	-	-	-	125	125
Facility Equipment	2021	-	-	-	750	750
	2022	-	-	-	750	750
	2023	-	-	-	750	750
	2024	-	-	-	750	750
	2025	-	-	-	750	750
	2026	-	-	-	1,000	1,000
		-	-	-	4,750	4,750
Facility Plant	2021	-	-	-	1,400	1,400
	2022	-	-	-	1,500	1,500
	2023	-	-	-	1,500	1,500
	2024	-	-	-	1,500	1,500
	2025	-	-	-	1,500	1,500
	2026	-	-	-	1,500	1,500
		-	-	-	8,900	8,900
Information Technology Infrastructure	2021	-	-	-	600	600
	2022	-	-	-	600	600
	2023	-	-	-	25	25
	2024	-	-	-	25	25
	2025	-	-	-	25	25
	2026	-	-	-	25	25
		-	-	-	1,300	1,300
Supervisory Control and Data Acquisition Equipment	2021	-	-	-	250	250

Anchorage Water Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants State	Grants Federal	Equity	Total
	2022	-	-	-	500	500
	2023	-	-	-	500	500
	2024	-	-	-	500	500
	2025	-	-	-	500	500
	2026	-	-	-	500	500
		-	-	-	2,750	2,750
Supervisory Control and Data Acquisition Master Plan Recommendations	2024	2,000	-	-	-	2,000
	2025	2,000	-	-	-	2,000
		4,000	-	-	-	4,000
Facilities						
3000 Arctic Roof Rehabilitation	2022	350	-	-	-	350
	2023	1,150	-	-	-	1,150
		1,500	-	-	-	1,500
Eklutna Water Treatment Facility Disinfection Improvements	2021	705	-	-	-	705
Eklutna Water Treatment Facility Fluoride Improvements	2021	450	-	-	-	450
Eklutna Water Treatment Facility Motor Control Center Upgrade	2021	2,000	-	-	-	2,000
	2023	2,000	-	-	-	2,000
		4,000	-	-	-	4,000
Eklutna Water Treatment Facility Supervisory Control and Data Acquisition Backbone/Fire Improvements	2023	625	-	-	75	700
	2024	875	-	-	825	1,700
		1,500	-	-	900	2,400
Ship Creek Water Treatment Facility Plan	2024	-	-	-	500	500
Ship Creek Water Treatment Facility Project Recommendations	2025	1,000	-	-	-	1,000
	2026	1,000	-	-	-	1,000
		2,000	-	-	-	2,000

Anchorage Water Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Grants			Equity	Total
		Debt	State	Federal		
Management Information Systems						
Customer Information System Enhancements	2021	-	-	-	50	50
	2022	-	-	-	50	50
	2023	-	-	-	50	50
	2024	-	-	-	50	50
	2025	-	-	-	50	50
	2026	-	-	-	50	50
		-	-	-	300	300
Depreciation Study	2023	-	-	-	250	250
Geographic Information System Application Development	2021	-	-	-	25	25
	2022	-	-	-	25	25
	2023	-	-	-	25	25
	2024	-	-	-	25	25
	2025	-	-	-	25	25
	2026	-	-	-	25	25
		-	-	-	150	150
Hydraulic Model Upgrades	2021	-	-	-	50	50
	2022	-	-	-	50	50
	2023	-	-	-	50	50
	2024	-	-	-	50	50
	2025	-	-	-	50	50
	2026	-	-	-	50	50
		-	-	-	300	300
Miscellaneous Information Technology Systems	2021	-	-	-	250	250
	2022	-	-	-	250	250
	2023	-	-	-	250	250
	2024	-	-	-	250	250
	2025	-	-	-	250	250
	2026	-	-	-	250	250
		-	-	-	1,500	1,500
Work Management Software	2021	-	-	-	150	150
	2022	-	-	-	150	150

Anchorage Water Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants State	Grants Federal	Equity	Total
	2023	-	-	-	150	150
	2024	-	-	-	150	150
	2025	-	-	-	150	150
	2026	-	-	-	150	150
		-	-	-	900	900
Plant						
475 Loop Conversion	2022	1,000	-	-	-	1,000
475 Reservoir Site Acquisition	2022	700	-	-	-	700
484 520 Zone Conversion	2023	1,500	-	-	-	1,500
520 440 Zone Conversion	2025	450	-	-	300	750
520 Reservoir & Transmission Main	2024	3,500	-	-	-	3,500
	2025	5,000	-	-	-	5,000
	2026	5,000	-	-	-	5,000
		13,500	-	-	-	13,500
570 600 Zone Conversion	2025	-	-	-	350	350
7th 8th Alley I to K Street Water Upgrade	2022	485	-	-	-	485
900 Reservoir & Transmission Main	2021	3,275	-	-	475	3,750
Anchorage Townsite 5th 8th Avenue Water Upgrade	2022	2,600	-	-	-	2,600
Asplund Wastewater Treatment Facility Process Water	2025	325	-	-	675	1,000
	2026	1,500	-	-	1,000	2,500
		1,825	-	-	1,675	3,500
Boniface 347 424 Zone Conversion	2026	25	-	-	-	25
Bragaw 16th Debarr Water Upgrade	2021	900	-	-	-	900
Briarwood Dimond Intertie	2024	800	-	-	-	800

Anchorage Water Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants		Equity	Total
			State	Federal		
Citadel Lane Water Upgrade	2023	545	-	-	-	545
Distribution Pipe Rehabilitation & Replacement	2025	904	-	-	-	904
	2026	2,960	-	-	-	2,960
		3,864	-	-	-	3,864
Distribution Reservoir Ladder Upgrade	2026	-	-	-	25	25
East 42nd Lake Otis to Piper Water Rehabilitation	2022	800	-	-	-	800
East 74th Pressure Regulating Valve Rehabilitation	2026	25	-	-	-	25
East 7th Lane Pine Water Rehabilitation	2024	1,500	-	-	-	1,500
Eklutna Lake Water Rights	2021	-	-	-	200	200
Eklutna Water Treatment Facility Architectural Structural Improvements	2024	860	-	-	-	860
Eklutna Water Treatment Facility Building Improvements	2023	510	-	-	-	510
	2024	510	-	-	-	510
		1,020	-	-	-	1,020
Eklutna Water Treatment Facility Civil Improvements	2024	120	-	-	-	120
Eklutna Water Treatment Facility Powder Activated Carbon System Removal	2024	35	-	-	-	35
Eklutna Water Treatment Facility Process Improvements	2022	165	-	-	-	165
	2023	165	-	-	-	165
		330	-	-	-	330
Energy Recovery Station Energy Recovery Turbine	2026	25	-	-	-	25
Girdwood Distribution Upgrades	2021	800	-	-	-	800

Anchorage Water Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants State	Grants Federal	Equity	Total
Goldenview Reservoir Access	2026	250	-	-	-	250
Gruening Reservior, Booster Station, Well Station Rehabilitation	2024	1,357	-	-	-	1,357
Hanshew Booster Station Abandonment	2026	25	-	-	-	25
Kincaid Reservoir Expansion	2022	2,000	-	-	-	2,000
	2023	7,250	-	-	-	7,250
		9,250	-	-	-	9,250
Ocean View South Pressure Regulating Valve Distribution	2024	200	-	-	-	200
	2025	700	-	-	-	700
		900	-	-	-	900
Orca High-Density Polyethylene Pipe Replacement	2021	520	-	-	-	520
Parkdown Estates Water Upgrade	2021	400	-	-	-	400
	2022	2,500	-	-	-	2,500
		2,900	-	-	-	2,900
Plant Oversize & Betterments	2021	-	-	-	25	25
	2022	-	-	-	25	25
	2023	-	-	-	25	25
	2024	-	-	-	25	25
	2025	-	-	-	25	25
	2026	-	-	-	25	25
		-	-	-	150	150
PME Turnagain Street Water Upgrade	2023	50	-	-	-	50
	2024	950	-	-	-	950
		1,000	-	-	-	1,000
PME West 32nd Avenue Water Main	2023	50	-	-	-	50
	2024	450	-	-	-	450
		500	-	-	-	500

Anchorage Water Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants State	Grants Federal	Equity	Total
Pressure Regulating Valve Replacement	2021	-	-	-	300	300
	2022	-	-	-	300	300
	2023	-	-	-	300	300
	2024	-	-	-	300	300
	2025	-	-	-	300	300
	2026	-	-	-	300	300
		-	-	-	1,800	1,800
Programmatic Interties	2021	-	-	-	250	250
	2022	250	-	-	-	250
	2023	-	-	-	250	250
	2024	-	-	-	250	250
	2025	-	-	-	250	250
	2026	-	-	-	250	250
		250	-	-	1,250	1,500
Reservoir Upgrades & Improvements	2021	-	-	-	300	300
	2026	2,488	-	-	-	2,488
		2,488	-	-	300	2,788
Security Improvements - Water Other Plant & Facilities	2025	500	-	-	-	500
Security Improvements - Water Plant	2025	500	-	-	-	500
Security Improvements - Water Transmission and Distribution System	2025	500	-	-	-	500
Thunderbird Reservoir	2026	25	-	-	-	25
Tudor - Wright Water Upgrades	2021	300	-	-	-	300
	2022	900	-	-	-	900
		1,200	-	-	-	1,200
Tudor Wright Water Improvements	2025	2,000	-	-	-	2,000
Upper Eagle River Fire Flow	2021	1,650	-	-	-	1,650
	2022	1,150	-	-	-	1,150
		2,800	-	-	-	2,800

Anchorage Water Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants State	Grants Federal	Equity	Total
Valve Vault P-1 Station 20 Access	2026	-	-	-	25	25
Valve Vault P-2 Station 08 Access	2026	-	-	-	25	25
Well 3 Upgrade	2026	25	-	-	-	25
Well 4 Hypochlorite Storate	2026	25	-	-	-	25
Zodiak Booster Abandonment	2026	25	-	-	-	25
Safety Improvements						
Eklutna Water Treatment Facility Safety Improvements	2024	680	-	-	-	680
Well 4 Security Upgrades	2026	25	-	-	-	25
Vehicles/Fleet						
Heavy Rolling Stock	2021	-	-	-	500	500
	2022	-	-	-	500	500
	2023	-	-	-	500	500
	2024	-	-	-	500	500
	2025	-	-	-	500	500
	2026	-	-	-	500	500
		-	-	-	3,000	3,000
Vehicles	2021	-	-	-	300	300
	2022	-	-	-	300	300
	2023	-	-	-	300	300
	2024	-	-	-	300	300
	2025	-	-	-	300	300
	2026	-	-	-	300	300
		-	-	-	1,800	1,800
	Total	**78,884**	**-**	**-**	**40,000**	**118,884**

3000 Arctic Roof Rehabilitation

Project ID	AWU2018009	**Department**	Anchorage Water Utility
Project Type	Rehabilitation	**Start Date**	
District		**End Date**	
Community Council			

Description

Rehabilitate the roof of AWWU headquarters building compromised by age and old roof penetrations needed for obsolete heating, ventilation, and air conditioning equipment.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	350	1,150	-	-	-	1,500
Total ($ in thousands)		**-**	**350**	**1,150**	**-**	**-**	**-**	**1,500**

475 Loop Conversion

Project ID	AWU2018007	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	October 2013
District		**End Date**	July 2026
Community Council			

Description

Convert the operating hydraulic grade line of the Anchorage Loop Water Transmission Main between Ship Creek Energy Recovery Station and Abbott Vault (Phases I to IV) to float on the Elmore Reservoir.

Comments

Project is in design phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	1,000	-	-	-	-	1,000
Total ($ in thousands)		**-**	**1,000**	**-**	**-**	**-**	**-**	**1,000**

475 Reservoir Site Acquisition

Project ID	AWU2016007	**Department**	Anchorage Water Utility
Project Type	Extension	**Start Date**	
District		**End Date**	
Community Council			

Description

Purchase and zone for water storage reservoirs a tract of land meeting acreage requirements east of Muldoon Road at an elevation of 475 feet to assure availability when needed to meet operational, emergency, and fire flow storage needs circa 2032.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	700	-	-	-	-	700
Total ($ in thousands)		**-**	**700**	**-**	**-**	**-**	**-**	**700**

484 520 Zone Conversion

Project ID	AWU2017002	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Reconfigure the Lower Eagle River Water System to operate as one cohesive system connected to the proposed 520 Reservoir.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	1,500	-	-	-	1,500
Total ($ in thousands)		**-**	**-**	**1,500**	**-**	**-**	**-**	**1,500**

520 440 Zone Conversion

Project ID	AWU2017010	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Convert the 440 pressure zone in Eagle River to the 520 pressure zone to mitigate the risk of large water outages in the event of a distribution failure, cross connections and water quality concerns.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	450	-	450
Net Assets	540200 - Water Utility CIP	-	-	-	-	300	-	300
Total ($ in thousands)		**-**	**-**	**-**	**-**	**750**	**-**	**750**

520 Reservoir & Transmission Main

Project ID	AWU2017006	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Construct 5 million gallons of storage in the 520 zone in Eagle River to increase resiliency and meet minimum emergency water demands.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	3,500	5,000	5,000	13,500
Total ($ in thousands)		**-**	**-**	**-**	**3,500**	**5,000**	**5,000**	**13,500**

570 600 Zone Conversion

Project ID	AWU2017012	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Combine the 570 and 600 pressure zones at South Park pressure regulating valve to mitigate pressure surges and increase operating pressures, minimize the size of water outages when disruptions do occur, and upsize the station piping to meet AWWU requirements. Project timing should occur as station rehabilitation or replacement is needed.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	-	-	-	-	350	-	350
Total ($ in thousands)		**-**	**-**	**-**	**-**	**350**	**-**	**350**

7th 8th Alley I to K Street Water Upgrade

Project ID	AWU2017014	**Department**	Anchorage Water Utility
Project Type	Upgrade	**Start Date**	
District		**End Date**	
Community Council			

Description

Rehabilitate or replace 359 feet of 1956 6 inch cast iron pipe in downtown Anchorage for which condition assessment results indicate degradation of pipe wall strength to be greater than 50%.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	485	-	-	-	-	485
Total ($ in thousands)		**-**	**485**	**-**	**-**	**-**	**-**	**485**

900 Reservoir & Transmission Main

Project ID	AWU2017003	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	January 2019
District		**End Date**	May 2024
Community Council			

Description

Construct 1 million gallons of storage in the 900 zone in Upper Eagle River to increase resiliency and meet minimum emergency water demands.

Comments

Project is in design phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	3,275	-	-	-	-	-	3,275
Net Assets	540200 - Water Utility CIP	475	-	-	-	-	-	475
Total ($ in thousands)		**3,750**	**-**	**-**	**-**	**-**	**-**	**3,750**

Alaska Department of Transportation-MOA Emergency

Project ID	AWU2021013	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Provides funding for AWWU projects of an emergency nature or done in conjunction with road agencies. These projects are developed as needed for emergency repairs to the distribution system and/or through coordination with the State of Alaska Department of Transportation & Public Facilities, Municipality of Anchorage Project Management & Engineering as well as other local/state agencies.

Comments

Annual Funding Pool

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	1,000	1,000	1,000	1,000	1,000	1,000	6,000
Total ($ in thousands)		**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**6,000**

Anchorage Townsite 5th 8th Avenue Water Upgrade

Project ID	AWU2018020	**Department**	Anchorage Water Utility
Project Type	Upgrade	**Start Date**	January 2019
District		**End Date**	April 2024
Community Council			

Description

This project will replace approximately 3,600 feet of cast iron water main in the Bootleggers Cove area with a structural wall loss of 40%-50% based on condition assessment results. Routine maintenance and repair of these mains is higher than the norm due to congestion of utilities and narrow streets.

Comments

Project is in design phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	2,600	-	-	-	-	2,600
Total ($ in thousands)		**-**	**2,600**	**-**	**-**	**-**	**-**	**2,600**

Asplund Wastewater Treatment Facility Process Water

Project ID	AWU2018008	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

This project will serve to increase flow and provide a redundant source of water for the Asplund Wastewater Treatment Facility, one of the Water Utility's largest commercial customers, to assure seamless water delivery for high demand and high consequence of failure Sewer Utility assets.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	325	1,500	1,825
Net Assets	540200 - Water Utility CIP	-	-	-	-	675	1,000	1,675
Total ($ in thousands)		**-**	**-**	**-**	**-**	**1,000**	**2,500**	**3,500**

Boniface 347 424 Zone Conversion

Project ID	AWU2016009	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Convert the operating hydraulic grade line of the Tudor Road and Boniface Parkway from 347 to 424 to increase operational, emergency, and fire flows to meet minimum AWWU requirements and provide needed redundancy to minimize the number of customers affected by water outages when they do occur.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	-	25	25
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**25**	**25**

Bragaw 16th Debarr Water Upgrade

Project ID	AWU2017005	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	February 2018
District		**End Date**	April 2024
Community Council			

Description

Rehabilitate or replace 1,281 feet of 1956 6 inch and 8 inch cast iron pipe with a high consequence of failure reported to have diminished structural wall strength through condition assessment (avg. 50% wall loss in 2016)

Comments

Project is in design phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	900	-	-	-	-	-	900
Total ($ in thousands)		**900**	**-**	**-**	**-**	**-**	**-**	**900**

Briarwood Dimond Intertie

Project ID	AWU2016005	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Construct approximately 400 feet of 8 inch water main between Spring Street and Old Seward Highway to provide water redundancy to approximately 43 industrial, commercial, and residential customers in the Briarwood Road area.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	800	-	-	800
Total ($ in thousands)		**-**	**-**	**-**	**800**	**-**	**-**	**800**

Citadel Lane Water Upgrade

Project ID	AWU2017004	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	
District		**End Date**	
Community Council			

Description

Rehabilitate or replace 407 feet of 1975 8 inch ductile iron pipe with a high failure rate. Test removed pipe to determine pipe class.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	545	-	-	-	545
Total ($ in thousands)		**-**	**-**	**545**	**-**	**-**	**-**	**545**

Customer Information System Enhancements

Project ID	AWU2021001	**Department**	Anchorage Water Utility
Project Type	IT	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Installation, acquisition, and upgrade of IT systems related to the Customer Service IT Master Plan System Category. Systems include Banner CIS, Neptune Meter Reading, Cash Register, Bill Payment and Presentment, Infor Permitting, Backflow, Teledig, and Outage Notification.

Comments

Annual Funding Pool - has a related Sewer Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	50	50	50	50	50	50	300
Total ($ in thousands)		**50**	**50**	**50**	**50**	**50**	**50**	**300**

Depreciation Study

Project ID	AWU2016002	**Department**	Anchorage Water Utility
Project Type	New	**Start Date**	
District		**End Date**	
Community Council			

Description

Conduct a depreciation study of Water Utility assets for use in rate making and other Regulatory needs.

Comments

New project - has related Sewer Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	-	-	250	-	-	-	250
Total ($ in thousands)		**-**	**-**	**250**	**-**	**-**	**-**	**250**

Distribution Pipe Rehabilitation & Replacement

Project ID	AWU2016004	**Department**	Anchorage Water Utility
Project Type	Rehabilitation	**Start Date**	
District		**End Date**	
Community Council			

Description

This funding pool acts as a placeholder for expected water distribution pipe projects as well as the anticipated level of funding needed.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	904	2,960	3,864
Total ($ in thousands)		**-**	**-**	**-**	**-**	**904**	**2,960**	**3,864**

Distribution Reservoir Ladder Upgrade

Project ID	AWU2018016	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

This project will provide ladder access to existing water supply reservoirs that currently don't have them and necessary safety improvements for ladders with deficiencies. This will standardize reservoir access, thereby improving operator safety and operational efficiency.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	-	-	-	-	-	25	25
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**25**	**25**

East 42nd Lake Otis to Piper Water Rehabilitation

Project ID	AWU2016010	**Department**	Anchorage Water Utility
Project Type	Rehabilitation	**Start Date**	
District		**End Date**	
Community Council			

Description

Rehabilitate approximately 2,700 linear feet of 8-inch cast iron and ductile water main on E 42nd Avenue between Lake Otis and Piper in conjunction with the PM&E road project. The water main was identified as structurally weakened through use of condition assessment.

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	800	-	-	-	-	800
Total ($ in thousands)		**-**	**800**	**-**	**-**	**-**	**-**	**800**

East 74th Pressure Regulating Valve Rehabilitation

Project ID	AWU2016008	**Department**	Anchorage Water Utility
Project Type	Rehabilitation	**Start Date**	
District		**End Date**	
Community Council			

Description

Rehabilitate or replace the East 74th Avenue pressure regualating valve to address water infiltration, failing components, lack of a low flow pressure regulating valve, lack of supervisory control and data acquisition functionality, access and safety issues.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	-	25	25
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**25**	**25**

East 7th Lane Pine Water Rehabilitation

Project ID	AWU2016003	**Department**	Anchorage Water Utility
Project Type	Rehabilitation	**Start Date**	February 2018
District		**End Date**	October 2023
Community Council			

Description

Replace approximately 2,600 feet of 1968 6 inch cast iron water mains on East 6th and East 7th Avenues with a high rate of failure.

Comments

Project is in design phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	1,500	-	-	1,500
Total ($ in thousands)		**-**	**-**	**-**	**1,500**	**-**	**-**	**1,500**

Eklutna Lake Water Rights

Project ID	AWU2020001	**Department**	Anchorage Water Utility
Project Type	New	**Start Date**	
District		**End Date**	
Community Council			

Description

Apply for and obtain Certificated Water Rights to water from the Eklutna Reservoir (Eklutna Lake).

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	200	-	-	-	-	-	200
Total ($ in thousands)		**200**	**-**	**-**	**-**	**-**	**-**	**200**

Eklutna Water Treatment Facility Architectural Structural Improvements

Project ID	AWU2018014	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

The objective of this project is to proactively rehabilitate structural components of the Eklutna Water Treatment Facility to prolong the life of assets showing signs of degradation as provided in the 2018 EklutnaWater Treatment Facility Plan.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	860	-	-	860
Total ($ in thousands)		**-**	**-**	**-**	**860**	**-**	**-**	**860**

Eklutna Water Treatment Facility Building Improvements

Project ID	AWU2018021	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

The objective of this project is to replace building components that have reached the end of their useful life as provided in the 2018 Eklutna Water Treatment Facility Plan

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	510	510	-	-	1,020
Total ($ in thousands)		**-**	**-**	**510**	**510**	**-**	**-**	**1,020**

Eklutna Water Treatment Facility Civil Improvements

Project ID	AWU2018024	**Department**	Anchorage Water Utility
Project Type	Rehabilitation	**Start Date**	
District		**End Date**	
Community Council			

Description

The objective of this project is to rehabilitate site components of the plant to prolong the life of assets showing signs of degradation as provided in the 2018 Eklutna Water Treatment Facility Plan.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	120	-	-	120
Total ($ in thousands)		**-**	**-**	**-**	**120**	**-**	**-**	**120**

Eklutna Water Treatment Facility Disinfection Improvements

Project ID	AWU2018002	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

The objective of this project is to upgrade existing on-site hypochlorite generation to improve safety and reliability as provided in the 2018 Eklutna Water Treatment Facility Plan.

Comments

Active project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	705	-	-	-	-	-	705
Total ($ in thousands)		**705**	**-**	**-**	**-**	**-**	**-**	**705**

Eklutna Water Treatment Facility Fluoride Improvements

Project ID	AWU2018001	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	
District		**End Date**	
Community Council			

Description

This project involves replacing the existing 30-year-old dry fluoride system with a new dry fluoride system. Updated equipment would provide increased operator safety and higher fluoride feed accuracy.

Comments

Active project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	450	-	-	-	-	-	450
Total ($ in thousands)		**450**	**-**	**-**	**-**	**-**	**-**	**450**

Eklutna Water Treatment Facility Motor Control Center Upgrade

Project ID	AWU2018003	**Department**	Anchorage Water Utility
Project Type	Upgrade	**Start Date**	
District		**End Date**	
Community Council			

Description

The objective of this project is to perform upgrades to the motor control center and uninterruptible power supplies as provided in the 2018 Eklutna Water Treatment Facility Plan

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	2,000	-	2,000	-	-	-	4,000
Total ($ in thousands)		**2,000**	**-**	**2,000**	**-**	**-**	**-**	**4,000**

Eklutna Water Treatment Facility Powder Activated Carbon System Removal

Project ID	AWU2018022	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

A small powder activated carbon (PAC) system remains abandoned in place for many years in an active utilidor space. Removal of the PAC system will free up access and eliminate a potential safety hazard for AWWU personnel. Demolition will not impact finished water production or quality at the Eklutna Water Treatment Facility.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	35	-	-	35
Total ($ in thousands)		**-**	**-**	**-**	**35**	**-**	**-**	**35**

Eklutna Water Treatment Facility Process Improvements

Project ID	AWU2018019	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

The objective of this project is to upgrade and rehabilitate process components of the plant to increase reliability and prolong the life of the assets as provided in the 2018 Eklutna Water Treatment Facility Plan.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	165	165	-	-	-	330
Total ($ in thousands)		**-**	**165**	**165**	**-**	**-**	**-**	**330**

Eklutna Water Treatment Facility Safety Improvements

Project ID	AWU2018018	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

The objective of this project is to improve plant safety as provided in the 2018 Eklutna Water Treatment Facility Plan.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	680	-	-	680
Total ($ in thousands)		**-**	**-**	**-**	**680**	**-**	**-**	**680**

Eklutna Water Treatment Facility Supervisory Control and Data Acquisition Backbone/Fire Improvements

Project ID	AWU2018004	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	January 2019
District		**End Date**	December 2024
Community Council			

Description

The objective of this project is to upgrade the fire alarm, network and communications systems to increase safety, reliability and functionality as provided in the 2018 Eklutna WaterTreatment Facility Plan.

Comments

Project is in design phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	625	875	-	-	1,500
Net Assets	540200 - Water Utility CIP	-	-	75	825	-	-	900
Total ($ in thousands)		**-**	**-**	**700**	**1,700**	**-**	**-**	**2,400**

Energy Recovery Station Energy Recovery Turbine

Project ID	AWU2020002	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

The project is located within the Ship Creek Energy Recovery Station. The project will recover potential energy by capturing excess head pressure with the use of in-line hydroelectric turbine generators from the incoming Eklutna Water Transmission Main. Power is proposed to be used at the facility, Ship Creek Water Treatment Facility, or placed back onto the electrical grid.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	-	25	25
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**25**	**25**

Excavation Safety Equipment

Project ID	AWU2021009	**Department**	Anchorage Water Utility
Project Type	New	**Start Date**	
District		**End Date**	
Community Council			

Description

Purchase off the shelf configurable excavation safety equipment and have stackable caissons custom designed and manufactured.

Comments

New project - has a related Sewer Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	125	-	-	-	-	-	125
Total ($ in thousands)		**125**	**-**	**-**	**-**	**-**	**-**	**125**

Facility Equipment

Project ID	AWU2021007	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

This pool will provide for the purchase of new equipment for the replacement of worn equipment within the water distribution system. Examples of such equipment include pumps, electric motors, instruments, air conditioning equipment, electrical switch gear, etc.

Comments

Annual Funding Pool

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	750	750	750	750	750	1,000	4,750
Total ($ in thousands)		**750**	**750**	**750**	**750**	**750**	**1,000**	**4,750**

Facility Plant

Project ID	AWU2021012	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

This pool will provide for the purchase of new equipment for the replacement of worn equipment in the water treatment system. Examples of such equipment include pumps, electric motors, instruments, air conditioning equipment, electrical switch gear, etc.

Comments

Annual Funding Pool

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	1,400	1,500	1,500	1,500	1,500	1,500	8,900
Total ($ in thousands)		**1,400**	**1,500**	**1,500**	**1,500**	**1,500**	**1,500**	**8,900**

Geographic Information System Application Development

Project ID	AWU2021002	**Department**	Anchorage Water Utility
Project Type	IT	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

GIS work associated with development of GIS applications for essential business functions on annual basis. AWWU relies heavily on GIS and mapping based on self-service to meet business needs.

Comments

Annual Funding Pool - has a related Sewer Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	25	25	25	25	25	25	150
Total ($ in thousands)		**25**	**25**	**25**	**25**	**25**	**25**	**150**

Girdwood Distribution Upgrades

Project ID	AWU2021014	**Department**	Anchorage Water Utility
Project Type	Upgrade	**Start Date**	January 2019
District		**End Date**	October 2023
Community Council			

Description

This project completes upgrades needed to provide reliability to the water distribution system in Girdwood.

Comments

Project is in design phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	800	-	-	-	-	-	800
Total ($ in thousands)		**800**	**-**	**-**	**-**	**-**	**-**	**800**

Goldenview Reservoir Access

Project ID	AWU2019005	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Reconstruct the access road to the two reservoirs to correct current deficiencies such as unsafe access, neighborhood requested security upgrades, and on-site snow storage.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	-	250	250
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**250**	**250**

Gruening Reservior, Booster Station, Well Station Rehabilitation

Project ID	AWU2017001	**Department**	Anchorage Water Utility
Project Type	Rehabilitation	**Start Date**	
District		**End Date**	
Community Council			

Description

Evaluate and rehabilitate the Gruening Well, Booster Station and Reservoir as necessary . This facility is integral to providing emergency water within the lower elevations of Eagle River.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	1,357	-	-	1,357
Total ($ in thousands)		**-**	**-**	**-**	**1,357**	**-**	**-**	**1,357**

Hanshew Booster Station Abandonment

Project ID	AWU2017011	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Permanently abandon the Hanshew Booster Station made unnecessary by system redundancy and recent pressure zone mergers.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	-	25	25
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**25**	**25**

Heavy Rolling Stock

Project ID	AWU2021010	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

For the acquisition, rehabilitation, or replacement of heavy rolling stock vehicles. Includes vactors, loaders, etc.

Comments

Annual Funding Pool

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	500	500	500	500	500	500	3,000
Total ($ in thousands)		**500**	**500**	**500**	**500**	**500**	**500**	**3,000**

Hydraulic Model Upgrades

Project ID	AWU2021005	**Department**	Anchorage Water Utility
Project Type	IT	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Upgrades to the water hydraulic model for essential business functions on annual basis. AWWU relies heavily on hydraulic models to meet business needs.

Comments

Annual Funding Pool - has related Sewer Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	50	50	50	50	50	50	300
Total ($ in thousands)		**50**	**50**	**50**	**50**	**50**	**50**	**300**

Information Technology Infrastructure

Project ID	AWU2021003	**Department**	Anchorage Water Utility
Project Type	IT	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Installation, upgrade and replacement of Information Technology infrastructure including servers, network, storage, and security.

Comments

Annual Funding Pool - has related Sewer Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	600	600	25	25	25	25	1,300
Total ($ in thousands)		**600**	**600**	**25**	**25**	**25**	**25**	**1,300**

Kincaid Reservoir Expansion

Project ID	AWU2017007	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Construct 5 million gallons or more of storage to serve the 260 pressure zone in Anchorage to meet operational and emergency needs while increasing fire flows.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	2,000	7,250	-	-	-	9,250
Total ($ in thousands)		**-**	**2,000**	**7,250**	**-**	**-**	**-**	**9,250**

Miscellaneous Information Technology Systems

Project ID	AWU2021004	**Department**	Anchorage Water Utility
Project Type	IT	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Installation, acquisition, and upgrade of Information Technology systems related to the Business Intelligence, Enterprise Resource Planning, Geographic Information System, Mobile, Parcel, Project Management, Supervisory Control and Data Acquisition, and Treatment Information Technology Master Plan System Categories. Systems include Work Information Management System, LabWorks, Mobile Dispatch, Linko, Special Assessment Receivable System, Assessment Management System, Land Parcel, and many more.

Comments

Annual Funding Pool - has a related Sewer Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	250	250	250	250	250	250	1,500
Total ($ in thousands)		**250**	**250**	**250**	**250**	**250**	**250**	**1,500**

Ocean View South Pressure Regulating Valve Distribution

Project ID	AWU2016006	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	
District		**End Date**	
Community Council			

Description

Rehabilitate or replace the Ocean View South pressure regulating value to address failing components, lack of supervisory control and data acquisition functionality, access and safety issues.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	200	700	-	900
Total ($ in thousands)		**-**	**-**	**-**	**200**	**700**	**-**	**900**

Orca High-Density Polyethylene Pipe Replacement

Project ID	AWU2018015	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	
District		**End Date**	
Community Council			

Description

This project will replace approximately 400 feet of 8 inch high-density polyethylene pipe prone to weld failures and located under the railroad tracks at Orca Street and Spar Avenue.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	520	-	-	-	-	-	520
Total ($ in thousands)		**520**	**-**	**-**	**-**	**-**	**-**	**520**

Parkdown Estates Water Upgrade

Project ID	AWU2020003	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	
District		**End Date**	
Community Council			

Description

Rehabilitate or replace water mains and water services as needed in the Parkdown Estates Cul-de-Sacs off E6th Ave and Boniface Parkway

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	400	2,500	-	-	-	-	2,900
Total ($ in thousands)		**400**	**2,500**	**-**	**-**	**-**	**-**	**2,900**

Plant Oversize & Betterments

Project ID	AWU2021015	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

This funding is required to compensate private developers for AWWU requested betterments to AWWU's existing infrastructure or for AWWU requested oversizing of water mains installed by the developers.

Comments

Annual Funding Pool

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	25	25	25	25	25	25	150
Total ($ in thousands)		**25**	**25**	**25**	**25**	**25**	**25**	**150**

PME Turnagain Street Water Upgrade

Project ID	AWU2018013	**Department**	Anchorage Water Utility
Project Type	Upgrade	**Start Date**	
District		**End Date**	
Community Council			

Description

The project will rehabilitate or replace asbestos cement water main in conjunction with the PM&E road project. Condition Assessment results indicate degradation of pipe wall strength to be greater than 40%.

Comments

Active project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	50	950	-	-	1,000
Total ($ in thousands)		**-**	**-**	**50**	**950**	**-**	**-**	**1,000**

PME West 32nd Avenue Water Main

Project ID	AWU2019003	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	
District		**End Date**	
Community Council			

Description

The project will replace 400 feet of cast iron water main with a high break rate in conjunction with the PM&E road project.

Comments

New Project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	50	450	-	-	500
Total ($ in thousands)		**-**	**-**	**50**	**450**	**-**	**-**	**500**

Pressure Regulating Valve Replacement

Project ID	AWU2020004	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	
District		**End Date**	
Community Council			

Description

Replace all pressure regulating valves with standardized epoxy coated valves with stainless steel tubing and accessories. Replace flow meters to mitigate risk of failure.

Comments

Annual Funding Pool

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	300	300	300	300	300	300	1,800
Total ($ in thousands)		**300**	**300**	**300**	**300**	**300**	**300**	**1,800**

Programmatic Interties

Project ID	AWU2018005	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Programs funding for 1-3 projects/year based on priority and as recommended in the upcoming Programmatic Intertie Study currently underway.

Comments

Annual Funding Pool

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	250	-	-	-	-	250
Net Assets	540200 - Water Utility CIP	250	-	250	250	250	250	1,250
Total ($ in thousands)		**250**	**250**	**250**	**250**	**250**	**250**	**1,500**

Reservoir Upgrades & Improvements

Project ID	AWU2018017	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Reserved funding for reservoir upgrades and improvements at the level of funding and years needs are projected.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	300	-	-	-	-	-	300
Debt	540200 - Water Utility CIP	-	-	-	-	-	2,488	2,488
Total ($ in thousands)		**300**	**-**	**-**	**-**	**-**	**2,488**	**2,788**

Security Improvements - Water Other Plant & Facilities

Project ID	AWU2018012	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Reserved funding for security improvements to the AWWU Headquarters building as provided in vulnerability and emergency readiness assessments.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	500	-	500
Total ($ in thousands)		**-**	**-**	**-**	**-**	**500**	**-**	**500**

Security Improvements - Water Plant

Project ID	AWU2018010	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Reserved funding for security improvements to the water treatment system as provided in vulnerability and emergency readiness assessments.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	500	-	500
Total ($ in thousands)		**-**	**-**	**-**	**-**	**500**	**-**	**500**

Security Improvements - Water Transmission and Distribution System

Project ID	AWU2018011	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Reserved funding for security improvements to the water distribution system as provided in vulnerability and emergency readiness assessments.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	500	-	500
Total ($ in thousands)		**-**	**-**	**-**	**-**	**500**	**-**	**500**

Ship Creek Water Treatment Facility Plan

Project ID	AWU2018023	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Prepare a Facility Plan for the Ship Creek Water Treatment Facility. The Facility Plan will forecast projects and upgrades to the overall plant.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	-	-	-	500	-	-	500
Total ($ in thousands)		**-**	**-**	**-**	**500**	**-**	**-**	**500**

Ship Creek Water Treatment Facility Project Recommendations

Project ID	AWU2018006	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Reserved funding for projects resulting from the Facility Plan for the Ship Creek Water Treatment Facility.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	1,000	1,000	2,000
Total ($ in thousands)		**-**	**-**	**-**	**-**	**1,000**	**1,000**	**2,000**

Supervisory Control and Data Acquisition Equipment

Project ID	AWU2021008	**Department**	Anchorage Water Utility
Project Type	Upgrade	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Equipment upgrades and/or additions as services are added and technology ages. These may include, but are not limited to upgrades to logic controllers, software replacement, and intelligence upgrades.

Comments

Annual Funding Pool - has related Sewer Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	250	500	500	500	500	500	2,750
Total ($ in thousands)		**250**	**500**	**500**	**500**	**500**	**500**	**2,750**

Supervisory Control and Data Acquisition Master Plan Recommendations

Project ID	AWU2019004	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Reserved funding for projects resulting from the Systems Control and Data Acquisition Master Plan.

Comments

New project - has related Sewer Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	2,000	2,000	-	4,000
Total ($ in thousands)		**-**	**-**	**-**	**2,000**	**2,000**	**-**	**4,000**

Thunderbird Reservoir

Project ID	AWU2019010	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	
District		**End Date**	
Community Council			

Description

This is a project for Thunderbird Reservoir to replace pipes and equipment that will improve serviceability, reliability and reduce maintenance costs.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	-	25	25
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**25**	**25**

Tudor - Wright Water Upgrades

Project ID	AWU2019001	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	
District		**End Date**	
Community Council			

Description

Rehabilitate or replace the 8" ductile iron water main crossing Tudor Road at Wright Street with a history of failures and for which washout from failures have the potential to undermine the 36" Transmission main in Tudor Road. Inspect the 36" concrete transmission main at Wright Street and rehabilitate as needed to assure structural support meets design specifications.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	300	900	-	-	-	-	1,200
Total ($ in thousands)		**300**	**900**	**-**	**-**	**-**	**-**	**1,200**

Tudor Wright Water Improvements

Project ID	AWU2019002	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Provides water distribution system redundancy to the customers served by the single-feed water mains crossing Tudor Road at Wright, Folker, and Piper Streets.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	2,000	-	2,000
Total ($ in thousands)		**-**	**-**	**-**	**-**	**2,000**	**-**	**2,000**

Upper Eagle River Fire Flow

Project ID	AWU2016001	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	March 2017
District		**End Date**	August 2022
Community Council			

Description

Upgrade booster stations in Upper Eagle River to increase operational pressures.

Comments

Project is in design phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	1,650	1,150	-	-	-	-	2,800
Total ($ in thousands)		**1,650**	**1,150**	**-**	**-**	**-**	**-**	**2,800**

Valve Vault P-1 Station 20 Access

Project ID	AWU2019007	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

The rehabilitation of the site access to Eklutna P-1 Station 20 Arctic Valley Road Vault will correct deficiencies that include unsafe access, above ground facility features vulnerable to damage, and site snow storage and drainage problems.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	-	-	-	-	-	25	25
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**25**	**25**

Valve Vault P-2 Station 08 Access

Project ID	AWU2019006	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

The verification and rehabilitation of an access road from Tarika Avenue to the Jayhawk valve vault will correct current deficiencies of the existing access from Upper Bowery Lane.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	-	-	-	-	-	25	25
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**25**	**25**

Vehicles

Project ID	AWU2021011	**Department**	Anchorage Water Utility
Project Type	Replacement	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Funding required for replacement of existing AWWU fleet vehicles to be retired. Vehicle replacements are identified as appropriate during each budget year. Criterion for vehicle replacement is 100K miles and/or 10+ years of service.

Comments

Annual Funding Pool - has related Sewer Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	300	300	300	300	300	300	1,800
Total ($ in thousands)		**300**	**300**	**300**	**300**	**300**	**300**	**1,800**

Well 3 Upgrade

Project ID	AWU2017013	**Department**	Anchorage Water Utility
Project Type	Upgrade	**Start Date**	
District		**End Date**	
Community Council			

Description

Upgrade Well 3 to meet minimum water quality standards and address safety concerns. Well 3 has the potential to provide an additional 1.49 million gallons per day of water to the distribution system.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	-	25	25
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**25**	**25**

Well 4 Hypochlorite Storate

Project ID	AWU2019009	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Upgrade the Well 4 treatment process to lengthen the time between normal maintenance visits. This upgrade will remove the six 250 gallon tanks and demo the concrete wall and replace them with two 1000 gallon tanks for sodium hypochlorite storage.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	-	25	25
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**25**	**25**

Well 4 Security Upgrades

Project ID	AWU2019008	**Department**	Anchorage Water Utility
Project Type	Upgrade	**Start Date**	
District		**End Date**	
Community Council			

Description

Well 4 requires routine visits by operators to maintain the facility treatment processes. To maintain security and safety for these staff, this project involves removing trees and brush, moving the fence lines, and adding security cameras and lighting around the perimeter of this facility.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	-	25	25
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**25**	**25**

Work Management Software

Project ID	AWU2021006	**Department**	Anchorage Water Utility
Project Type	IT	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Installation, acquisition, and upgrade of IT systems related to the WMS IT Master Plan System Category. Systems include Maximo, Fuel Management, and DataSplice.

Comments

Annual Funding Pool - has a related Sewer Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	540200 - Water Utility CIP	150	150	150	150	150	150	900
Total ($ in thousands)		**150**	**150**	**150**	**150**	**150**	**150**	**900**

Zodiak Booster Abandonment

Project ID	AWU2018025	**Department**	Anchorage Water Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Move duty pumps to Service Reservoir Site and abandon archaic Zodiak Booster Station.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	540200 - Water Utility CIP	-	-	-	-	-	25	25
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**25**	**25**

Anchorage Wastewater Utility
8 Year Summary
($ in thousands)

Financial Overview	2019 Actuals	2020 Proforma	2021 Proposed	2022	2023	2024	2025	2026
				Forecast				
Revenues	61,670	57,684	61,207	71,265	72,385	77,365	79,605	81,355
Expenses and Transfers [1]	53,640	58,156	59,411	63,342	66,022	67,522	69,020	70,970
Net Income (Loss)	**8,030**	**(472)**	**1,796**	**7,923**	**6,363**	**9,843**	**10,585**	**10,385**
Charges by/to Other Departments	2,264	2,297	2,738	2,848	2,961	3,080	3,203	3,331
Municipal Enterprise/Utility Service Assessment	6,248	7,056	7,246	7,460	7,640	7,800	7,970	8,140
Dividend to General Government	-	-	-	-	-	-	-	-
Transfers to General Government [2]	**8,512**	**9,353**	**9,984**	**10,308**	**10,601**	**10,880**	**11,173**	**11,471**
Operating Cash	25,266	17,862	18,150	18,316	23,654	23,294	28,549	31,151
Construction Cash Pool	3,588	20,633	5,518	5,883	12,827	12,547	12,923	12,924
Restricted Cash	4,155	-	3,393	5,672	976	4,666	1,966	1,478
Total Cash	**33,009**	**38,495**	**27,061**	**29,871**	**37,457**	**40,507**	**43,438**	**45,553**
Net Position (Equity) 12/31	112,228	111,756	113,501	121,425	127,788	137,632	148,217	158,602
Capital Assets Beginning Balance	428,053	446,984	452,822	453,268	450,161	446,492	444,318	442,599
Asset Additions Placed in Service	36,927	22,776	17,966	14,763	14,521	16,306	16,971	17,670
Assets Retired	(1,670)	(3,400)	(3,400)	(3,400)	(3,400)	(3,400)	(3,400)	(3,400)
Change Depreciation (Increase)/Decrease	(16,326)	(13,538)	(14,120)	(14,470)	(14,790)	(15,080)	(15,290)	(15,610)
Net Capital Assets (12/31)	446,984	452,822	453,268	450,161	446,492	444,318	442,599	441,259
Equity Funding Available for Capital	9,000	10,000	-	6,000	6,000	6,000	7,000	7,000
Debt								
New Debt - Bonds	6,229	20,494	35,000	-	19,000	-	-	-
New Debt - Loans or Other	14,941	12,800	10,000	8,000	6,300	6,600	6,900	7,200
Total Outstanding LT Debt	176,880	199,552	234,179	230,484	243,576	236,902	230,084	234,666
Total Annual Debt Service Payment	13,405	15,975	18,125	18,496	19,583	20,115	20,306	20,591
Debt Service Requirement	**1.15**	**1.15**	**1.15**	**1.15**	**1.15**	**1.15**	**1.15**	**1.15**
Debt Service Coverage (Bond)	3.70	2.66	2.91	3.15	2.75	2.84	2.92	2.87
Debt Service Coverage (Total)	1.78	1.08	1.16	1.40	1.29	1.41	1.42	1.40
Debt/Equity Ratio	64 / 36	64 / 36	67 / 33	65 / 35	66 / 34	63 / 37	61 / 39	60 / 40
Rate Change Percent	6.86%	0.0%	8.0%	9.50%	1.40%	6.50%	2.90%	2.0%
Single Family Rate ($)	48.11	48.11	51.96	56.89	57.69	61.44	63.22	64.49
Statistical/Performance Trends								
Number of Accounts	57,382	57,382	57,382	57,480	57,577	57,675	57,773	57,871
Average Treatment (MGD)	28.8	28.9	28.9	29.0	29.1	29.2	29.2	29.3
Miles of Wastewater Lines	761	762.9	764.8	766.7	768.6	770.6	772.5	774.4

[1] Expenses shown include all transfers to General Government and all non-cash items: depreciation (including depreciation on assets purchased with grant funds) and amortization activities.
[2] Included in total expenses calculated in Net Income.

Anchorage Wastewater Utility
Statement of Revenues and Expenses

	2019 Actuals	2020 Proforma	Under/(Over) Budget	2020 Revised	$ Change	2021 Proposed	21 v 20 % Change
Operating Revenue							
Residential Sales	43,511,456	43,600,000	44,450	43,644,450	2,655,550	46,300,000	6.08%
Commercial Sales	12,894,383	10,450,000	2,480,000	12,930,000	(2,130,000)	10,800,000	-16.47%
Public Authority Sales	2,495,046	2,500,000	(250,611)	2,249,389	350,611	2,600,000	15.59%
Reimbursed Costs	-	-	-	-	-	-	0.00%
Miscellaneous	988,985	700,000	275,000	975,000	-	975,000	0.00%
Total Operating Revenue	**59,889,871**	**57,250,000**	**2,548,839**	**59,798,839**	**876,161**	**60,675,000**	**1.47%**
Non Operating Revenue							
Investment Income	1,679,834	433,600	88,450	522,050	(50)	522,000	-0.01%
Other Income	100,466	50	9,950	10,000	-	10,000	0.00%
Total Non Operating Revenue	**1,780,300**	**433,650**	**98,400**	**532,050**	**(50)**	**532,000**	**-0.01%**
Total Revenue	**61,670,170**	**57,683,650**	**2,647,239**	**60,330,889**	**876,111**	**61,207,000**	**1.45%**
Operating Expense							
Salaries and Benefits	16,505,694	17,707,562	401,092	18,108,654	(518,895)	17,589,759	-2.87%
Overtime	747,185	563,135	(143,635)	419,500	(124,381)	295,119	-29.65%
Total Labor	17,252,879	18,270,697	257,457	18,528,154	(643,276)	17,884,878	-3.47%
Supplies	3,469,099	2,912,979	599,725	3,512,704	(823,166)	2,689,538	-23.43%
Travel	51,923	4,430	(4,430)	-	42,250	42,250	0.00%
Contractual/Other Services	10,401,668	10,520,598	479,745	11,000,343	(541,389)	10,458,954	-4.92%
Equipment/Furnishings	-	-	-	-	-	-	0.00%
Contributions to Other Funds	7,500	-	-	-	-	-	0.00%
Dividend to General Government	-	-	-	-	-	-	0.00%
Manageable Direct Cost Total	13,930,190	13,438,006	1,075,041	14,513,047	(1,322,305)	13,190,742	-9.11%
Municipal Enterprise/Utility Service Assessment	6,247,687	7,055,969	345,606	7,401,575	(155,316)	7,246,259	-2.10%
Depreciation/Amortization	12,082,564	13,280,000	-	13,280,000	(132,542)	13,147,458	-1.00%
Non-Manageable Direct Cost Total	18,330,251	20,335,969	345,606	20,681,575	(287,858)	20,393,717	-1.39%
Charges by/to Other Departments	2,256,608	2,297,146	188,820	2,485,966	252,409	2,738,375	10.15%
Intradepartmental Overheads	(1,529,310)	(290,394)	(498,697)	(789,091)	174,278	(614,813)	-22.09%
Total Operating Expense	**50,240,618**	**54,051,425**	**1,368,226**	**55,419,651**	**(1,826,752)**	**53,592,899**	**-3.30%**
Non Operating Expense							
Amortization of Debt Expense	(757,744)	(729,780)	(30,220)	(760,000)	40,000	(720,000)	-5.26%
Debt Issuance Costs	146,253	100,000	-	100,000	200,000	300,000	200.00%
Interest on Bonded Debt	3,592,609	3,713,397	-	3,713,397	686,603	4,400,000	18.49%
Interest on Loans	1,546,087	2,250,000	-	2,250,000	428,000	2,678,000	19.02%
Interest During Construction (AFUDC)	(1,128,260)	(1,229,380)	69,380	(1,160,000)	320,000	(840,000)	-27.59%
Total Non Operating Expense	**3,398,943**	**4,104,236**	**39,161**	**4,143,397**	**1,674,603**	**5,818,000**	**40.42%**
Total Expense	**53,639,561**	**58,155,661**	**1,407,387**	**59,563,048**	**(152,149)**	**59,410,899**	**-0.26%**
Net Income (Loss)	**8,030,609**	**(472,011)**	**1,239,852**	**767,841**	**1,028,260**	**1,796,101**	**133.92%**
Appropriation:							
Total Expense		**58,155,661**	**1,407,387**	**59,563,048**	**(152,149)**	**59,410,899**	**-0.26%**
Less: Non Cash Items							
Depreciation/Amortization		13,280,000	-	13,280,000	(132,542)	13,147,458	-1.00%
Amortization of Debt Expense		(729,780)	(30,220)	(760,000)	40,000	(720,000)	-5.26%
Interest During Construction (AFUDC)		(1,229,380)	69,380	(1,160,000)	320,000	(840,000)	-27.59%
Total Non-Cash		11,320,839	39,161	11,360,000	227,458	11,587,458	2.00%
Amount to be Appropriated (Function Cost/Cash Expense)		**46,834,822**	**1,368,226**	**48,203,048**	**(379,607)**	**47,823,441**	**-0.79%**

Anchorage Wastewater Utility
Reconciliation from 2020 Revised Budget to 2021 Proposed Budget

		Positions		
	Expenses	FT	PT	Temp/ Seas
2020 Revised Budget (Appropriation)	48,203,048	283	1	10
Transfers by/to Other Departments				
- Charges by Other Departments	252,409	-	-	-
Changes in Existing Programs/Funding for 2021				
- Salaries and Benefits Adjustments	388,813	-	-	-
- Overtime alignment - net 0 adjustment of the overtime budget into the accounts that the costs will actually post to	(58,152)	-	-	-
	58,152	-	-	-
- Contractual/Other Services - Insurance	33,790	-	-	-
- Contractual/Other Services - Bad Debt Expense	146,055	-	-	-
- 2020 One-Time Travel	97,300	-	-	-
- Non-Operating Expense - Debt Expense	1,354,603	-	-	-
- Intradepartmental Overheads - Administrative Overhead	195,000	-	-	-
- Depreciation	(132,542)	-	-	-
- Non-Operating Expense - Interest During Construction	320,000	-	-	-
- Municipal Utility Service Assessment (MUSA)	(155,316)	-	-	-
2021 Continuation Level	**50,703,160**	**283**	**1**	**10**
2021 Proposed Budget Changes				
- Executive salaries to stay flat from 2020	(8,148)	-	-	-
- Non-Represented pay scales to stay flat from 2020	(50,004)	-	-	-
- Labor - 2021 One-Time Vacancy Factor Increase*	(973,937)	-	-	-
- Non-Labor - 2021 One-Time Decrease - Supplies/Contractual/Other Services*	(2,065,122)	-	-	-
- Travel - 2021 One-Time Decrease*	(55,050)	-	-	-
- 301h Sewer Discharge Permit	500,000	-	-	-
2021 Proposed Budget	**48,050,899**	**283**	**1**	**10**
2021 Budget Adjustment for Accounting Transactions (Appropriation)				
- Depreciation and Amortization	132,542	-	-	-
- Amortization of Debt Expense	(40,000)	-	-	-
- Interest During Construction	(320,000)	-	-	-
2021 Proposed Budget (Appropriation)	**47,823,441**	**283**	**1**	**10**
	2021 Proposed FTE			
	288.5	**283**	**0.5**	**5.0**

Workforce Authorized per Budget is for both Water and Wastewater utilities.

* Budget reductions for 2021 due to economic uncertainties. These reductions will affect customer hold times and AWWU response times, but there are no anticipated impacts to safety. If financial forecasts improve, AWWU will ask for additional appropriations for 2021.

Anchorage Wastewater Utility
2021 Capital Improvement Budget

($ in thousands)

Projects	Debt	Grants		Equity	Total
		State	Federal		
Alaska Department of Transportation-MOA Emergency	1,000	-	-	-	1,000
Customer Information System Enhancements	50	-	-	-	50
Eagle River Wastewater Treatment Facility Plan Recommendations	1,000	-	-	-	1,000
East 42nd Avenue Sewer Upgrade	2,400	-	-	-	2,400
Excavation Safety Equipment	125	-	-	-	125
Facility Equipment	775	-	-	-	775
Facility Plant	1,000	-	-	-	1,000
Geographic Information System Application Development	25	-	-	-	25
Girdwood Sewer Rehabilitation & Replacement	500	-	-	-	500
Girdwood Wastewater Treatement Facility Health & Safety Improvements	1,000	-	-	-	1,000
Heavy Rolling Stock	500	-	-	-	500
Hydraulic Model Upgrades	50	-	-	-	50
Information Technology Infratructure	600	-	-	-	600
King Street Fuel Storage Improvements	3,000	-	-	-	3,000
King Street Main Building Improvements	2,000	-	-	-	2,000
Miscellaneous Information Technology Systems	250	-	-	-	250
Plant Oversize & Betterments	25	-	-	-	25
Pump Station 2 Rehabilitation	3,000	-	-	-	3,000
Supervisory Control and Data Acquisition Equipment	250	-	-	-	250
Vehicles	300	-	-	-	300
Work Management Software	150	-	-	-	150
Total	**18,000**	**-**	**-**	**-**	**18,000**

Anchorage Wastewater Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants State	Grants Federal	Equity	Total
ADOT-MOA Emergency						
Alaska Department of Transportation-MOA Emergency	2021	1,000	-	-	-	1,000
	2022	1,000	-	-	-	1,000
	2023	-	-	-	1,000	1,000
	2024	-	-	-	1,000	1,000
	2025	-	-	-	1,000	1,000
	2026	-	-	-	1,000	1,000
		2,000	-	-	4,000	6,000
Equipment						
Excavation Safety Equipment	2021	125	-	-	-	125
Facility Equipment	2021	775	-	-	-	775
	2022	-	-	-	1,050	1,050
	2023	-	-	-	750	750
	2024	-	-	-	750	750
	2025	-	-	-	750	750
	2026	-	-	-	750	750
		775	-	-	4,050	4,825
Facility Plant	2021	1,000	-	-	-	1,000
	2022	600	-	-	500	1,100
	2023	-	-	-	1,250	1,250
	2024	-	-	-	1,250	1,250
	2025	-	-	-	1,250	1,250
	2026	-	-	-	1,250	1,250
		1,600	-	-	5,500	7,100
Information Technology Infratructure	2021	600	-	-	-	600
	2022	-	-	-	600	600
	2023	-	-	-	25	25
	2024	-	-	-	25	25
	2025	-	-	-	25	25
	2026	-	-	-	25	25
		600	-	-	700	1,300
Supervisory Control and Data Acquisition Equipment	2021	250	-	-	-	250

Anchorage Wastewater Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants State	Grants Federal	Equity	Total
	2022	-	-	-	500	500
	2023	-	-	-	500	500
	2024	-	-	-	500	500
	2025	-	-	-	500	500
	2026	-	-	-	500	500
		250	-	-	2,500	2,750
Supervisory Control and Data Acquisition Master Plan Recommendations	2024	875	-	-	1,125	2,000
	2025	875	-	-	1,125	2,000
		1,750	-	-	2,250	4,000
Facilities						
Eagle River Wastewater Treatment Facility Plan Recommendations	2021	1,000	-	-	-	1,000
	2022	1,000	-	-	-	1,000
	2023	1,500	-	-	-	1,500
	2024	1,000	-	-	-	1,000
		4,500	-	-	-	4,500
Girdwood Wastewater Treatement Facility Health & Safety Improvements	2021	1,000	-	-	-	1,000
King Street Fuel Storage Improvements	2021	3,000	-	-	-	3,000
King Street Main Building Improvements	2021	2,000	-	-	-	2,000
	2022	4,000	-	-	-	4,000
		6,000	-	-	-	6,000
Management Information Systems						
Customer Information System Enhancements	2021	50	-	-	-	50
	2022	-	-	-	50	50
	2023	-	-	-	50	50
	2024	-	-	-	50	50
	2025	-	-	-	50	50
	2026	-	-	-	50	50

Anchorage Wastewater Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants State	Grants Federal	Equity	Total
		50	-	-	250	300
Depreciation Study	2023	-	-	-	250	250
Geographic Information System Application Development	2021	25	-	-	-	25
	2022	-	-	-	25	25
	2023	-	-	-	25	25
	2024	-	-	-	25	25
	2025	-	-	-	25	25
	2026	-	-	-	25	25
		25	-	-	125	150
Hydraulic Model Upgrades	2021	50	-	-	-	50
	2022	-	-	-	50	50
	2023	-	-	-	50	50
	2024	-	-	-	50	50
	2025	-	-	-	50	50
	2026	-	-	-	50	50
		50	-	-	250	300
Miscellaneous Information Technology Systems	2021	250	-	-	-	250
	2022	-	-	-	250	250
	2023	-	-	-	250	250
	2024	-	-	-	250	250
	2025	-	-	-	250	250
	2026	-	-	-	250	250
		250	-	-	1,250	1,500
Work Management Software	2021	150	-	-	-	150
	2022	-	-	-	150	150
	2023	-	-	-	150	150
	2024	-	-	-	150	150
	2025	-	-	-	150	150
	2026	-	-	-	150	150
		150	-	-	750	900

Plant

Anchorage Wastewater Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants State	Grants Federal	Equity	Total
Asplund Wastewater Treatment Facility Sludge/Combined Heat Power	2023	1,192	-	-	-	1,192
	2024	1,000	-	-	-	1,000
	2025	2,000	-	-	-	2,000
	2026	875	-	-	1,125	2,000
		5,067	-	-	1,125	6,192
Campbell Lake Sewer Rehabilitation	2023	-	-	-	375	375
East 42nd Avenue Sewer Upgrade	2021	2,400	-	-	-	2,400
Girdwood Sewer Rehabilitation & Replacement	2021	500	-	-	-	500
	2022	1,000	-	-	-	1,000
	2023	1,000	-	-	-	1,000
	2024	1,000	-	-	-	1,000
	2025	1,000	-	-	-	1,000
	2026	1,000	-	-	-	1,000
		5,500	-	-	-	5,500
Girdwood Wastewater Treatment Facility Upgrade & Replacement Phase II	2025	2,000	-	-	-	2,000
	2026	2,000	-	-	-	2,000
		4,000	-	-	-	4,000
Interceptor & Trunk Rehabilitation	2025	-	-	-	1,000	1,000
King Street Combined Heat and Power Conversion	2023	900	-	-	-	900
	2024	1,000	-	-	-	1,000
		1,900	-	-	-	1,900
Large Diameter Sewer Manholes	2022	2,200	-	-	-	2,200
Plant Oversize & Betterments	2021	25	-	-	-	25
	2022	-	-	-	25	25
	2023	-	-	-	25	25
	2024	-	-	-	25	25
	2025	-	-	-	25	25
	2026	-	-	-	25	25

Anchorage Wastewater Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants State	Grants Federal	Equity	Total
		25	-	-	125	150
Pump Station 2 Rehabilitation	2021	3,000	-	-	-	3,000
Pump Station 32 Rehabilitation	2023	100	-	-	-	100
	2024	500	-	-	-	500
		600	-	-	-	600
Pump Station 5 Rehabilitation	2023	250	-	-	-	250
	2024	1,000	-	-	-	1,000
		1,250	-	-	-	1,250
Pump Station 55 Abandonment	2026	-	-	-	2,000	2,000
Pump Station 58 Improvements	2025	1,000	-	-	-	1,000
	2026	2,500	-	-	-	2,500
		3,500	-	-	-	3,500
Pump Station 7 Rehabilitation	2023	100	-	-	-	100
	2024	500	-	-	-	500
		600	-	-	-	600
Pump Station 71 Rehabilitation	2023	350	-	-	-	350
	2024	1,250	-	-	-	1,250
		1,600	-	-	-	1,600
Security Improvements - Sewer Collection System	2023	500	-	-	-	500
Security Improvements - Sewer Other Plant & Facilities	2023	500	-	-	-	500
Security Improvements - Wastewater Plant	2023	500	-	-	-	500
Small Pipe Replacement	2023	770	-	-	-	770
	2024	220	-	-	-	220
	2025	1,187	-	-	-	1,187
	2026	1,440	-	-	-	1,440
		3,617	-	-	-	3,617

Anchorage Wastewater Utility
2021 - 2026 Capital Improvement Program

($ in thousands)

Projects	Year	Debt	Grants		Equity	Total
			State	Federal		
Turnagain by the Sea Sewer Improvements	2023	-	-	-	500	500
Wastewater Master Plan	2022	1,200	-	-	-	1,200
Vehicles/Fleet						
Heavy Rolling Stock	2021	500	-	-	-	500
	2022	-	-	-	500	500
	2023	-	-	-	500	500
	2024	-	-	-	500	500
	2025	-	-	-	500	500
	2026	-	-	-	500	500
		500	-	-	2,500	3,000
Vehicles	2021	300	-	-	-	300
	2022	-	-	-	300	300
	2023	-	-	-	300	300
	2024	-	-	-	300	300
	2025	-	-	-	300	300
	2026	-	-	-	300	300
		300	-	-	1,500	1,800
	Total	**60,884**	**-**	**-**	**31,000**	**91,884**

Alaska Department of Transportation-MOA Emergency

Project ID	ASU2021012	**Department**	Anchorage Wastewater Utility
Project Type	Replacement	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Provides funding for AWWU projects of an emergency nature or done in conjunction with road agencies. These projects are developed as needed for emergency repairs to the collection system and/or through coordination with the State of Alaska Department of Transportation & Public Facilities, Municipality of Anchorage Project Management & Engineering as well as other local/state agencies.

Comments

Annual Funding Pool

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	1,000	1,000	-	-	-	-	2,000
Net Assets	550200 - Sewer Utility CIP	-	-	1,000	1,000	1,000	1,000	4,000
Total ($ in thousands)		**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**6,000**

Asplund Wastewater Treatment Facility Sludge/Combined Heat Power

Project ID	ASU2019001	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	February 2014
District		**End Date**	March 2027
Community Council			

Description

Implement new or refurbished biosolids process equipment and/or Combined Heat and Power System at Asplund Wastewater Treatment Facility.

Comments

Project is currently on hold

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	-	1,192	1,000	2,000	875	5,067
Net Assets	550200 - Sewer Utility CIP	-	-	-	-	-	1,125	1,125
Total ($ in thousands)		**-**	**-**	**1,192**	**1,000**	**2,000**	**2,000**	**6,192**

Campbell Lake Sewer Rehabilitation

Project ID	ASU2020005	**Department**	Anchorage Wastewater Utility
Project Type	Rehabilitation	**Start Date**	
District		**End Date**	
Community Council			

Description

This project will rehabilitate a 93 linear foot section of failing 48-inch corrugated steel sewer pipe adjacent to Campbell Lake. This project will also improve access to manhole number 100.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	550200 - Sewer Utility CIP	-	-	375	-	-	-	375
Total ($ in thousands)		**-**	**-**	**375**	**-**	**-**	**-**	**375**

Customer Information System Enhancements

Project ID	ASU2021001	**Department**	Anchorage Wastewater Utility
Project Type	IT	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Installation, acquisition, and upgrade of IT systems related to the Customer Service IT Master Plan System Category. Systems include Banner CIS, Neptune Meter Reading, Cash Register, Bill Payment and Presentment, Infor Permitting, Backflow, Teldig, and Outage Notification.

Comments

Annual Funding Pool - has a related Water Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	550200 - Sewer Utility CIP	-	50	50	50	50	50	250
Debt	550200 - Sewer Utility CIP	50	-	-	-	-	-	50
Total ($ in thousands)		**50**	**50**	**50**	**50**	**50**	**50**	**300**

Depreciation Study

Project ID	ASU2016004	**Department**	Anchorage Wastewater Utility
Project Type	New	**Start Date**	
District		**End Date**	
Community Council			

Description

Conduct a depreciation study of Sewer Utility assets for use in rate making and other Regulatory needs.

Comments

New project - has related Water Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	550200 - Sewer Utility CIP	-	-	250	-	-	-	250
Total ($ in thousands)		**-**	**-**	**250**	**-**	**-**	**-**	**250**

Eagle River Wastewater Treatment Facility Plan Recommendations

Project ID	ASU2016001	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	January 2019
District		**End Date**	June 2023
Community Council			

Description

Reserved funding for projects resulting from the Facility Plan for the Eagle River Wastewater Treatment Facility

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	1,000	1,000	1,500	1,000	-	-	4,500
Total ($ in thousands)		**1,000**	**1,000**	**1,500**	**1,000**	**-**	**-**	**4,500**

East 42nd Avenue Sewer Upgrade

Project ID	ASU2020004	**Department**	Anchorage Wastewater Utility
Project Type	Replacement	**Start Date**	
District		**End Date**	
Community Council			

Description

This project realigns approximately 600 feet failing sewer mains off of E 42nd Avenue west of Lake Otis Parkway that are inaccessible for repairs. Approximately 600 feet of new pipe will be installed to meet AWWU design and construction standards and approximately 600 feet of inaccessible sewer main will be abandoned in place.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	2,400	-	-	-	-	-	2,400
Total ($ in thousands)		**2,400**	**-**	**-**	**-**	**-**	**-**	**2,400**

Excavation Safety Equipment

Project ID	ASU2020001	**Department**	Anchorage Wastewater Utility
Project Type	New	**Start Date**	
District		**End Date**	
Community Council			

Description

Purchase off the shelf configurable excavation safety equipment and have stackable caissons custom designed and manufactured.

Comments

New project - has a related Water Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	125	-	-	-	-	-	125
Total ($ in thousands)		**125**	**-**	**-**	**-**	**-**	**-**	**125**

Facility Equipment

Project ID	ASU2021007	**Department**	Anchorage Wastewater Utility
Project Type	Replacement	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

This pool will provide for the purchase of new equipment for the replacement of worn equipment within the sewer collection system. Examples of such equipment include pumps, electric motors, instruments, air conditioning equipment, electrical switch gear, etc.

Comments

Annual Funding Pool

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	550200 - Sewer Utility CIP	-	1,050	750	750	750	750	4,050
Debt	550200 - Sewer Utility CIP	775	-	-	-	-	-	775
Total ($ in thousands)		**775**	**1,050**	**750**	**750**	**750**	**750**	**4,825**

Facility Plant

Project ID	ASU2021011	**Department**	Anchorage Wastewater Utility
Project Type	Replacement	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

This pool will provide for the purchase of new equipment for the replacement of worn equipment in the sewer treatment system. Examples of such equipment include pumps, electric motors, instruments, air conditioning equipment, electrical switch gear, etc.

Comments

Annual Funding Pool

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	550200 - Sewer Utility CIP	-	500	1,250	1,250	1,250	1,250	5,500
Debt	550200 - Sewer Utility CIP	1,000	600	-	-	-	-	1,600
Total ($ in thousands)		**1,000**	**1,100**	**1,250**	**1,250**	**1,250**	**1,250**	**7,100**

Geographic Information System Application Development

Project ID	ASU2021002	**Department**	Anchorage Wastewater Utility
Project Type	IT	**Start Date**	
District		**End Date**	
Community Council			

Description

Perform work associated with development of GIS applications for essential business functions on annual basis. AWWU relies heavily on GIS and mapping based on self-service to meet business needs.

Comments

Annual Funding Pool - has a related Water Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	25	-	-	-	-	-	25
Net Assets	550200 - Sewer Utility CIP	-	25	25	25	25	25	125
Total ($ in thousands)		**25**	**25**	**25**	**25**	**25**	**25**	**150**

Girdwood Sewer Rehabilitation & Replacement

Project ID	ASU2020003	**Department**	Anchorage Wastewater Utility
Project Type	Rehabilitation	**Start Date**	
District		**End Date**	
Community Council			

Description

This project will commission a study to determine the highest sources of ground water infiltration in the Girdwood collection system then program annual funding for collection system improvements based on the priorities set forth in the referenced study.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	500	1,000	1,000	1,000	1,000	1,000	5,500
Total ($ in thousands)		**500**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**5,500**

Girdwood Wastewater Treatement Facility Health & Safety Improvements

Project ID	ASU2020002	**Department**	Anchorage Wastewater Utility
Project Type	Rehabilitation	**Start Date**	
District		**End Date**	
Community Council			

Description

This project shall complete improvements to the Girdwood Wastewater Treatment Facility to protect the health and safety of the critical AWWU staff necessary to maintain and operate the Girdwood Wastewater Treatment Facility serving as the sole public wastewater treatment facility for Girdwood, AK.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	1,000	-	-	-	-	-	1,000
Total ($ in thousands)		**1,000**	**-**	**-**	**-**	**-**	**-**	**1,000**

Girdwood Wastewater Treatment Facility Upgrade & Replacement Phase II

Project ID	ASU2005001	**Department**	Anchorage Wastewater Utility
Project Type	Upgrade	**Start Date**	May 2014
District		**End Date**	May 2028
Community Council			

Description

Upgrade the Girdwood Wastewater Treatment Facility to remain in compliance with Alaska Department of Environmental Conservation requirements and building codes.

Comments

Project is in design phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	-	-	-	2,000	2,000	4,000
Total ($ in thousands)		**-**	**-**	**-**	**-**	**2,000**	**2,000**	**4,000**

Heavy Rolling Stock

Project ID ASU2021009
Project Type Replacement
District
Community Council

Department Anchorage Wastewater Utility
Start Date January 2021
End Date December 2021

Description

For the acquisitions, rehabilitation, or replacement of heavy rolling stock vehicles. Includes vactors, loaders, etc.

Comments

Annual Funding Pool

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	500	-	-	-	-	-	500
Net Assets	550200 - Sewer Utility CIP	-	500	500	500	500	500	2,500
Total ($ in thousands)		**500**	**500**	**500**	**500**	**500**	**500**	**3,000**

Hydraulic Model Upgrades

Project ID	ASU2021005	**Department**	Anchorage Wastewater Utility
Project Type	IT	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Development of upgrades to the sewer hydraulic model for essential business functions on annual basis. AWWU relies heavily on hydraulic models to meet business needs.

Comments

Annual Funding Pool - has a related Water Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	50	-	-	-	-	-	50
Net Assets	550200 - Sewer Utility CIP	-	50	50	50	50	50	250
Total ($ in thousands)		**50**	**50**	**50**	**50**	**50**	**50**	**300**

Information Technology Infratructure

Project ID	ASU2021003	**Department**	Anchorage Wastewater Utility
Project Type	IT	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Installation, upgrade and replacement of Information Technology infrastructure including servers, network, storage, and security.

Comments

Annual Funding Pool - has a related Water Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	550200 - Sewer Utility CIP	-	600	25	25	25	25	700
Debt	550200 - Sewer Utility CIP	600	-	-	-	-	-	600
Total ($ in thousands)		**600**	**600**	**25**	**25**	**25**	**25**	**1,300**

Interceptor & Trunk Rehabilitation

Project ID	ASU2016003	**Department**	Anchorage Wastewater Utility
Project Type	Rehabilitation	**Start Date**	
District		**End Date**	
Community Council			

Description

This acts as a placeholder for expected large diameter sewer collection pipe projects as well as the anticipated level of funding needed.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	550200 - Sewer Utility CIP	-	-	-	-	1,000	-	1,000
Total ($ in thousands)		**-**	**-**	**-**	**-**	**1,000**	**-**	**1,000**

King Street Combined Heat and Power Conversion

Project ID	ASU2018007	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Purchase and install Combined Heat and Power System at King Street Operations and Maintenance Facility, which will provide 100% of electricity and 85% of heating needs while simultaneously reducing carbon emissions.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	-	900	1,000	-	-	1,900
Total ($ in thousands)		**-**	**-**	**900**	**1,000**	**-**	**-**	**1,900**

King Street Fuel Storage Improvements

Project ID	ASU2018002	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	March 2017
District		**End Date**	December 2025
Community Council			

Description

This project will construct site improvements at the King Street Maintenance Facility that include removing contaminated soils, relocating fuel storage and dispensing systems and streamlining onsite traffic patterns. This project will reduce existing safety issues for vehicles and pedestrians, provide needed vehicle and equipment parking.

Comments

Project is in design phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	3,000	-	-	-	-	-	3,000
Total ($ in thousands)		**3,000**	**-**	**-**	**-**	**-**	**-**	**3,000**

King Street Main Building Improvements

Project ID	ASU2018001	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	January 2014
District		**End Date**	December 2025
Community Council			

Description

This project proposes various improvements to AWWU's King Street O&M Facility Administrative Building. Improvements include expanding, remodeling interior spaces and systems, and enclosing covered areas to increase the capacity, productivity, and efficiency of the support maintenance group. The existing layout and aging mechanical systems within this building won't provide for current needs in an efficient manner.

Comments

Project is in design phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	2,000	4,000	-	-	-	-	6,000
Total ($ in thousands)		**2,000**	**4,000**	**-**	**-**	**-**	**-**	**6,000**

Large Diameter Sewer Manholes

Project ID	ASU2017001	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	February 2018
District		**End Date**	July 2023
Community Council			

Description

Strategically install new manholes on large diameter sewer mains to allow access for cleaning equipment.

Comments

Project is in construction phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	2,200	-	-	-	-	2,200
Total ($ in thousands)		**-**	**2,200**	**-**	**-**	**-**	**-**	**2,200**

Miscellaneous Information Technology Systems

Project ID	ASU2021004	**Department**	Anchorage Wastewater Utility
Project Type	IT	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Installation, acquisition, and upgrade of Information Technology systems related to the Business Intelligence, Enterprise Resource Planning, Geographic Information System, Mobile, Parcel, Project Management, Supervisory Control and Data Acquisition, and Treatment Information Technology Master Plan System Categories. Systems include Work Information Management System, LabWorks, Mobile Dispatch, Linko, Special Assessment Receivable System, Assessment Management System, Land Parcel, and many more.

Comments

Annual Funding Pool - has a related Water Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	550200 - Sewer Utility CIP	-	250	250	250	250	250	1,250
Debt	550200 - Sewer Utility CIP	250	-	-	-	-	-	250
Total ($ in thousands)		**250**	**250**	**250**	**250**	**250**	**250**	**1,500**

Plant Oversize & Betterments

Project ID	ASU2021013	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

This funding is required to compensate private developers for AWWU requested betterments to AWWU's existing infrastructure or for AWWU requested oversizing of mains installed by the developers.

Comments

Annual Funding Pool

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	25	-	-	-	-	-	25
Net Assets	550200 - Sewer Utility CIP	-	25	25	25	25	25	125
Total ($ in thousands)		**25**	**25**	**25**	**25**	**25**	**25**	**150**

Pump Station 2 Rehabilitation

Project ID	ASU2018003	**Department**	Anchorage Wastewater Utility
Project Type	Rehabilitation	**Start Date**	January 2019
District		**End Date**	August 2024
Community Council			

Description

This project involves the replacement of the high voltage electrical system, aging and corroding piping, valves, control systems, and various site improvements within Pump Station 2. These improvements will help increase safety, reduce the risk of sanitary sewer overflows, emergency repairs, service interruptions and operation and maintenance costs.

Comments

Project is in design phase

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	3,000	-	-	-	-	-	3,000
Total ($ in thousands)		**3,000**	**-**	**-**	**-**	**-**	**-**	**3,000**

Pump Station 32 Rehabilitation

Project ID	ASU2018005	**Department**	Anchorage Wastewater Utility
Project Type	Upgrade	**Start Date**	
District		**End Date**	
Community Council			

Description

Upgrades to Pump Station 32 to meet current and future demands.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	-	100	500	-	-	600
Total ($ in thousands)		**-**	**-**	**100**	**500**	**-**	**-**	**600**

Pump Station 5 Rehabilitation

Project ID	ASU2019004	**Department**	Anchorage Wastewater Utility
Project Type	Rehabilitation	**Start Date**	
District		**End Date**	
Community Council			

Description

Pump Station 5 is to be upgraded to current standards including demolition of the dry can, replacement of the existing pumps, valves and piping; communication and supervisory control and data acquisition upgrades, and structure rehabilitation including site and safety improvements.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	-	250	1,000	-	-	1,250
Total ($ in thousands)		**-**	**-**	**250**	**1,000**	**-**	**-**	**1,250**

Pump Station 55 Abandonment

Project ID	ASU2019006	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

The project will evaluate the feasibility of removing Pump Station 55 versus upgrading it in place and proceed with the recommended solution. The wet well components and pumps are near failure and require replacement.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	550200 - Sewer Utility CIP	-	-	-	-	-	2,000	2,000
Total ($ in thousands)		**-**	**-**	**-**	**-**	**-**	**2,000**	**2,000**

Pump Station 58 Improvements

Project ID	ASU2018006	**Department**	Anchorage Wastewater Utility
Project Type	Rehabilitation	**Start Date**	February 2018
District		**End Date**	March 2022
Community Council			

Description

PS 58 is showing signs of wear and tear which requires rehabilitation and/or improvements to meet current and future demands.

Comments

Project is in planning stage

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	-	-	-	1,000	2,500	3,500
Total ($ in thousands)		**-**	**-**	**-**	**-**	**1,000**	**2,500**	**3,500**

Pump Station 7 Rehabilitation

Project ID	ASU2018004	**Department**	Anchorage Wastewater Utility
Project Type	Upgrade	**Start Date**	
District		**End Date**	
Community Council			

Description

Upgrades to Pump Station 7 to meet current and future demands.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	-	100	500	-	-	600
Total ($ in thousands)		**-**	**-**	**100**	**500**	**-**	**-**	**600**

Pump Station 71 Rehabilitation

Project ID	ASU2019005	**Department**	Anchorage Wastewater Utility
Project Type	Rehabilitation	**Start Date**	
District		**End Date**	
Community Council			

Description

Pump Station 71 is to be upgraded to current standards including replacement of the existing pumps, valves and piping; communication and supervisory control and data acquisition upgrades, and structure rehabilitation including site and safety improvements.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	-	350	1,250	-	-	1,600
Total ($ in thousands)		**-**	**-**	**350**	**1,250**	**-**	**-**	**1,600**

Security Improvements - Sewer Collection System

Project ID	ASU2016006	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Reserved funding for security improvements to the sewer collection system as provided in vulnerability and emergency readiness assessments.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	-	500	-	-	-	500
Total ($ in thousands)		**-**	**-**	**500**	**-**	**-**	**-**	**500**

Security Improvements - Sewer Other Plant & Facilities

Project ID	ASU2016005	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Reserved funding for security improvements to the King Street Campus as provided in vulnerability and emergency readiness assessments.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	-	500	-	-	-	500
Total ($ in thousands)		**-**	**-**	**500**	**-**	**-**	**-**	**500**

Security Improvements - Wastewater Plant

Project ID	ASU2016007	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Reserved funding for security improvements to the sewer treatment system as provided in vulnerability and emergency readiness assessments.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	-	500	-	-	-	500
Total ($ in thousands)		**-**	**-**	**500**	**-**	**-**	**-**	**500**

Small Pipe Replacement

Project ID	ASU2016008	**Department**	Anchorage Wastewater Utility
Project Type	Replacement	**Start Date**	
District		**End Date**	
Community Council			

Description

This is a placeholder for expected sewer collection pipe projects as well as the anticipated level of funding needed.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	-	770	220	1,187	1,440	3,617
Total ($ in thousands)		**-**	**-**	**770**	**220**	**1,187**	**1,440**	**3,617**

Supervisory Control and Data Acquisition Equipment

Project ID	ASU2021008	**Department**	Anchorage Wastewater Utility
Project Type	Upgrade	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Equipment upgrades and/or additions as services are added and technology ages. These may include, but are not limited to, upgrades to logic controllers, software replacement, and intelligence upgrades.

Comments

Annual Funding Pool - has related Water Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	250	-	-	-	-	-	250
Net Assets	550200 - Sewer Utility CIP	-	500	500	500	500	500	2,500
Total ($ in thousands)		**250**	**500**	**500**	**500**	**500**	**500**	**2,750**

Supervisory Control and Data Acquisition Master Plan Recommendations

Project ID	ASU2019003	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Reserved funding for projects resulting from the Systems Control and Data Acquisition Master Plan.

Comments

New project - has related Water Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	550200 - Sewer Utility CIP	-	-	-	1,125	1,125	-	2,250
Debt	550200 - Sewer Utility CIP	-	-	-	875	875	-	1,750
Total ($ in thousands)		**-**	**-**	**-**	**2,000**	**2,000**	**-**	**4,000**

Turnagain by the Sea Sewer Improvements

Project ID	ASU2019002	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Improvements to approximately 3,200 linear feet of sewer main, sewer manholes and associated sewer services within the Turnagain by the Sea neighborhood.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	550200 - Sewer Utility CIP	-	-	500	-	-	-	500
Total ($ in thousands)		**-**	**-**	**500**	**-**	**-**	**-**	**500**

Vehicles

Project ID	ASU2021010	**Department**	Anchorage Wastewater Utility
Project Type	Replacement	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Funding required for replacement of existing AWWU fleet vehicles to be retired. Vehicle replacements are identified as appropriate during each budget year. Criterion for vehicle replacement is 100K miles and/or 10+ years of service.

Comments

Annual Funding Pool - has a related Water Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Net Assets	550200 - Sewer Utility CIP	-	300	300	300	300	300	1,500
Debt	550200 - Sewer Utility CIP	300	-	-	-	-	-	300
Total ($ in thousands)		**300**	**300**	**300**	**300**	**300**	**300**	**1,800**

Wastewater Master Plan

Project ID	ASU2016002	**Department**	Anchorage Wastewater Utility
Project Type	Improvement	**Start Date**	
District		**End Date**	
Community Council			

Description

Update the Wastewater Master Plan and include an Asset Management Plan for Lift/Pump Stations and other collection facilities.

Comments

New project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	-	1,200	-	-	-	-	1,200
Total ($ in thousands)		**-**	**1,200**	**-**	**-**	**-**	**-**	**1,200**

Work Management Software

Project ID	ASU2021006	**Department**	Anchorage Wastewater Utility
Project Type	IT	**Start Date**	January 2021
District		**End Date**	December 2021
Community Council			

Description

Installation, acquisition, and upgrade of IT systems related to the WMS IT Master Plan System Category. Systems include Maximo, Fuel Management, and DataSplice.

Comments

Annual Funding Pool - has a related Water Utility project

Version 2021 Proposed

		2021	2022	2023	2024	2025	2026	Total
Revenue Sources	**Fund**							
Debt	550200 - Sewer Utility CIP	150	-	-	-	-	-	150
Net Assets	550200 - Sewer Utility CIP	-	150	150	150	150	150	750
Total ($ in thousands)		**150**	**150**	**150**	**150**	**150**	**150**	**900**