

Alaska Drinking Water Fund - State Fiscal Year 2020 (SFY20) Project Priority List - 4th Quarter

Note: The total available funding for SFY20 projects is \$36,338,771.

(1) To Fund column indicates that the project is within the current fundable limit of the Alaska Drinking Water Fund. Large projects may be phased based on projected funding needs during the next year. Loan applications may be submitted for any project on the list that is ready to proceed.

(2) Allocation of subsidy is subject to change depending on the readiness of projects to proceed. Subsidy shown in the table is shown based on the year when allocated: SFY19 or SFY20.

(3) Loan terms will be finalized when a loan agreement is offered. The finance rate will be based on a calculation identified in Alaska Administrative Code (18 AAC 76).

(4) Individual Pro Fi projects are reviewed and assigned a weighted score based on the total project cost. The overall score for the Pro Fi questionnaire is the sum of weighted scores for all of the Pro Fi projects.

Rank	Score	To Fund (1)	Public Water System ID# (Population)	Applicant	Project Name and Description	Requested Loan Amount	Estimated Subsidy (2) (SFY19)	Estimated Subsidy (2) (SFY20)	Disadvantaged Community	Loan Term (3) (years)	Green Project Amount (Type)	Sustainability Policy	Estimated Start Date	Quarter Added to PPL
DRINKING WATER PROJECT QUESTIONNAIRES														
1	161	X	AK2310926 (950)	Valley Water Company	Valley Water System Upgrade and Rehabilitation - Design, purchase and install a water supply treatment system to address exceedances of water quality standards for copper. Provide improvements to 50-year-old distribution system.	\$350,000		\$175,000	X	5 to 20	\$350,000 (Energy)	Fix It First	10/1/2018	SFY19-Q3
2	155	X	AK2110619 (253)	Haines Borough	Small Tracts/Mud Bay AC Pipe Replacement Phase 2 - Replace approximately 2,900 feet of aging, deteriorating asbestos cement (AC) pipe with C-900 PVC on Small Tracts and Mud Bay roads. Replacement will prevent leaks or a major line break. Design of this work was completed under a previous SRF loan agreement.	\$1,329,860		\$500,000	X	5 to 20	\$1,329,860 (Water)	Fix It First	6/1/2020	SFY20-Q1
3	146	X	AK310900 (13,000)	College Utilities Corp. (Fairbanks)	Pearl Creek Extension - Design and construct infrastructure to provide potable water to approximately 749 lots that were previously unserved. The project will include installing high density polyethylene water main, a water storage reservoir, circulation station and a control system.	\$11,141,059		\$500,000	X	5 to 20	\$5,000,000 (Energy)	Effective Utility Mgmt	5/25/2020	SFY20-Q1
4	146	X	AK2260294 (915)	Sand Point	Water Distribution System Upgrade - Valve identification and helium leak detection to map currently unmapped portions of the water distribution system, adding pressure reducing valve to control pressure and eliminate leaks, and energy efficiency upgrades to the water treatment plant.	\$276,800		\$138,400	X	5 to 20	\$218,800 (Water)	Fix It First	7/1/2019	SFY19-Q3
5	145	X	AK2320086 (556)	North Slope Borough	Wainwright Water Plant Replacement - Construct new administrative, mechanical, chemical storage, and shop areas to replace portions of the existing treatment plant that are at risk of structural failure.	\$9,557,000		\$337,200	X	5 to 20	TBD (Energy)	Fix It First	12/1/2019	SFY19-Q4
6	123		AK2110342 (33,732)	Juneau	Douglas Highway Water System Replacement Phase II - Replace approximately 5,200 feet of water line within the Alaska Department of Transportation's (ADOT) Douglas Highway right of way, from the intersection of David Street with Douglas Highway to Crow Hill pump station. The water main in this area was installed in the 1970's and has experienced numerous corrosion related failures in recent years. ADOT plans to rehabilitate the Douglas Highway in 2021-22 requiring the City and Borough of Juneau to complete the replacement of the existing system prior to ADOT completing their work.	\$4,000,000				5 to 20	\$4,000,000 (Water)	Fix It First	4/1/2020	SFY20-Q2
7	120		AK2350235, AK2320426, AK2320256, AK2320086 (1,743)	North Slope Borough	Water Distribution Pump Variable Frequency Drives (VFDs) - Design, construction, and installation of VFDs for water distribution pumps in Anaktuvuk Pass, Point Hope, Point Lay and Wainwright. VFDs will allow pumps to ramp up/down as system demands change to address system pressure issues.	\$456,000			X	< 5	\$456,000 (Energy)	Fix It First	9/2/2019	SFY19-Q4
8	105		AK2260197 (2,500)	Dillingham	Water System Improvements - Construct approximately 5,770 feet of new water mains to eliminate dead ends, replace approximately 2,965 feet of asbestos cement pipe, install additional fire hydrants, rehabilitate or replace water main valve boxes.	\$532,500			X	20 to 30		Fix It First	4/1/2019	SFY19-Q4
9	101		AK2120193 (1,548)	Craig	Replace 5.5 miles of Raw Water Main - Inspect and replace approximately 5.5 miles of aging ductile iron raw water main that transmits raw water from North Fork Lake to the Craig water treatment plant.	\$2,900,000	\$500,000		X	5 to 20		Fix It First	4/2/2018	SFY19-Q1 SFY20-Q1

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10	101		AK2120193 (1,548)	Craig	Spruce Street Storage Tank - The 30-year-old wooden storage tank, which provides additional storage capacity to meet peak water demands, requires the following improvements: repair leaks; install variable frequency drive pump, pressure switch, and associated controls to operate manually or automatically; and install automated input pipe with control valve.	\$219,000			X	5 to 20		Fix It First	10/01/2018	SFY19-Q1
11	101		AK2260244 (972)	King Cove	Recoat Water Storage Tank - The existing steel tank has signs of localized rusting. The proposed project will remove the existing coating, clean and recoat the tank to prevent further degradation.	\$400,000			X	5 to 20		Fix It First	8/15/2018	SFY19-Q2
12	91		AK2240757 (2,787)	Seward	Gateway Water Tank - Refurbish the Gateway water storage tank roof to prevent leaks and to provide structural support due to snow load.	\$300,000	\$150,000		X	5 to 20	\$ 300,000 (Energy)	Fix it First	9/3/2018	SFY19-Q1
13	75		AK2320086, AK2320426 (745)	North Slope Borough	Wainwright & Point Hope Water Plant SCADA Upgrade - Design, construct, and install upgrades to allow remote Supervisory Control and Data Acquisition (SCADA) access to allow remote access for remote assessment or troubleshooting. This phase requests construction funds for Wainwright and design/construction funds for Point Lay.	\$749,000			X	< 5		Effective Utility Mgmt.	10/1/2019	SFY19-Q4
14	75 ⁽⁴⁾	X	AK2210906 (297,483)	Anchorage AWWU	SFY20 Pro Fi Questionnaire - The applicant has provided a list of eligible projects including planning, design, engineering, and construction activities for wastewater infrastructure projects (see attached list).	\$9,757,660				20		Fix It First		SFY20-Q1
15	71		AK2120193 (1,548)	Craig	Radio Read Water Meter Upgrade - Install new water meters with radio read components.	\$195,000			X	20 to 30	\$ 189,000 (Water)	Effective Utility Mgmt.	6/25/2018	SFY19-Q1
16	51		AK2120193 (1,548)	Craig	New Water Source Study - Review potential new sources of drinking water to serve as a backup source. The City currently has no backup water supply should some interruption occur in the main treatment and distribution facilities. This project will look for other local water sources, including incorporating water from the City's prior water source as a supplement to the existing water source.	\$100,000			X	5 to 20		Effective Utility Mgmt.	9/17/2018	SFY19-Q1 SFY20-Q1
17	51	X	AK2260244 (972)	King Cove	Delta Creek USDA Loan Refinance - Refinance a USDA loan for water system infrastructure.	\$1,000,000			X	20 to 30		Not Applicable	5/31/2018	SFY19-Q1
18	46		AK2120193 (1,548)	Craig	Water Plant Contact Chamber Baffles - Install baffles in the existing 35,000 gallon chlorine contact chamber and the 165,000 gallon water storage tanks to achieve chlorine contact time more efficiently. Construct an additional 30,000 gallon baffled storage tank.	\$588,200			X	5 to 20		Effective Utility Mgmt.	9/17/2018	SFY19-Q1 SFY20-Q1
SUBTOTAL						\$43,852,079	\$650,000	\$1,650,600			\$7,843,660			
AMENDMENTS TO EXISTING LOANS OR QUESTIONNAIRES														
1	43	X	AK2210906 (297,483)	Anchorage AWWU	Reservoir 3 & 4 Circulation Line - Construct yard piping and automated valves to provide Eklutna water directly to and through reservoirs 3 and 4 to enhance reservoir cycling. Original loan amount is \$1,000,000 from SFY15 IUP. This amendment request is for an additional \$3,510,590 for a total loan amount of \$4,510,590.	\$3,510,390				20		Fix It First		SFY20-Q1
2	98	X	AK2210906 (297,483)	Anchorage AWWU	Hillcrest Drive Water Rehabilitation - Rehabilitate and/or replace steel water main along Hillcrest Drive that is at the end of its useful life. Original loan amount is \$400,000 from SFY18 IUP. This amendment request is for an additional \$1,731,950 for a total loan amount of \$2,131,950.	\$1,731,950				20		Fix It First		SFY20-Q1

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3	101	X	AK2210906 (297,483)	Anchorage AWWU	E 7th Lane to Pine Water Rehabilitation - The project will replace and rehabilitate approximately 625 linear feet of 16-inch cast iron pipe on E. 6th Ave from Lane Street to Pine Street, approximately 1,300 linear feet of 6-inch cast iron pipe on E. 7th Ave from Hoyt Street to Pine Street along with numerous water service lines, keyboxes and adjacent fire hydrants within the right-of-way which have reached the end of their useful life. The questionnaire submitted for the SFY19 IUP was for \$458,00. This amendment revises the scope of work and increases the total cost estimate by \$1,100,000 to a total amount of \$1,558,000.	\$1,558,000				20		Fix It First		SFY20-Q2
4	101	X	AK2210906 (297,483)	Anchorage AWWU	W 43rd Aero to Constellation Water Rehabilitation - The project will replace approximately 1,400 linear feet of 6-inch cast iron water main and 1,200 linear feet of 10-inch cast iron water main at the end of its useful life. The questionnaire submitted for the SFY19 IUP was for \$818,000. This amendment revises the scope of work and increases the total cost estimate by \$1,700,000 to a total amount of \$2,518,000.	\$2,518,000				20		Fix It First		SFY20-Q2
5		X	AK2120232 (8,250)	Ketchikan	Schoenbar Road Utilities Replacement (Water) - This amendment increases the loan amount (Loan # 481081-S) by \$5,973,779. The project scope is also amended to include replace approximately 1,400 feet of failing 36-inch ductile iron pipe that transmits raw water with 30-inch and 42-inch high density polyethylene (HDPE) pipe. The project will also replace approximately 1,300 feet of failing ductile iron and cast iron distribution lines with 8-inch to 20-inch HDPE pipe.	\$5,973,779				20		Fix It First		SFY20-Q3
6		X	AK2214730 (375)	Potter Creek Water Company	Reservoir Security Upgrade - Survey and record an easement for exclusive utility use, and construct a security fence around the reservoir easement. This amendment increases the loan amount by \$12,422.	\$12,422				20		Fix It First		SFY20-Q3
LOAN AMENDMENT SUBTOTAL						\$15,304,541								
MICRO LOAN QUESTIONNAIRES														
1	160	X	AK2340141 (184)	Diomedea	Water Treatment - Provide water treatment equipment to adequately treat surface water to comply with SDWA including new filtration and ion exchange equipment, refurbish source water intake, and construct ocean outfall. SRF loan to be used as contribution requirement for federal funding through Indian Health Service. The water system has health-based violations for the arsenic level and for the Surface Water Treatment Rule. This project will help to bring the system into compliance.	\$55,244		\$27,622	X	< 5		Effective Utility Mgmt.		SFY20-Q1
2	125	X	AK2272004 (617)	Kotlik	Water Connections - Renovate five sewer service connections by removing the arctic boxes and installing flexible service connections. Install a circulating pump and a through wall shut-off valve at each home.	\$75,000		\$37,500	X	< 5		Fix It First		SFY20-Q1
3	125	X	AK2340109 (600)	Noorvik	Utilidor Replacement (Water) Phase 2 - Replace approximately 300 linear feet of aboveground water and sewer utilidor. This project will include installing new aluminum rectangle utilidor insulation and adjustable supports.	\$75,000		\$52,500	X	< 5		Fix It First		SFY20-Q1
4	115	X	AK2270184 (484)	Scammon Bay	Water Storage Tank Rehabilitation - Replace exterior insulated pipes, valves, and fittings that connect to the aboveground water storage tank. Replace the level control for the tank and automated valves that control filling and draining the tank.	\$135,000		\$67,500	X	< 5		Fix It First		SFY20-Q1
5	110	X	AK2260367 (516)	New Stuyahok	New Stuyahok Curb Stops Installation - Install approximately 10 curb stops and associated items for service line isolation. Curb stops allow the water to be shut off to a home to diagnose and repair leaks or other issues. The ability to control flow is critically important in remote communities with limited water supplies.	\$35,800	\$28,640		X	< 5		Effective Utility Mgmt	7/1/2018	SFY19-Q1

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6	100	X	AK2250053 (165)	Ouzinkie	Ouzinkie Water Distribution System Replacement - Replace 7,000 linear feet of failing 8-inch ductile iron pipe with high density polyethylene plastic pipe. This project is primarily funded with an Indian Health Service grant.	\$73,080		\$51,156	X	20				SFY20-Q2
7	80	X	AK2260325 (817)	Togiak	Togiak Water Treatment Plant Heat Recovery - Design and construct a heat recovery system to provide waste heat from the power plant to serve the water treatment plant. The project is anticipated to reduce the fuel used by the WTP by approximately 7,795 gallons of fuel annually.	\$770,719	\$616,575		X	20 to 30	\$ 770,719 (Energy)	Effective Utility Mgmt.	6/1/2019	SFY19-Q2
8	45	X	AK2260367 (510)	New Stuyahok	Curb Stops Phase 2 - Install 12 water service curb stops in existing buried copper services as well as access risers. Curb stops allow the water to be shut off to a home to diagnose and repair leaks or other issues. The ability to control flow is critically important in rural communities with limited water supplies.	\$150,000		\$75,000	X	< 5		Fix It First		SFY20-Q1
MICRO LOAN SUBTOTAL						\$1,369,843	\$645,215	\$311,278						
TOTAL FUNDING REQUESTED (ALL CATEGORIES)						\$59,306,620								

Alaska Drinking Water Fund - State Fiscal Year 2020 (SFY20) Programmatic Financing (Pro Fi) Projects

Applicant: Anchorage Water and Wastewater Utility
Loan Term: 20 years

The Pro Fi questionnaire includes the following improvements included in AWWU's capital improvement plans for the water utility.

Number	Project Name	Description
D-20-01	Thunderbird Grandview Subdivision Water Upgrade	Replace or rehabilitate existing water distribution main in the Thunderbird Grandview subdivision. Condition assessment of the project pipe and the leak history of the area were used to identify this project.
D-20-02	Eklutna Water Treatment Facility (EWTF) Primary Electrical Upgrade	Replace or rehabilitate power service infrastructure and distribution equipment associated with the Primary Plant, Portal Facility and Intake Facility.
D-20-03	W 43rd Aero to Constellation Water Rehabilitation	Replace approximately 1,362 feet of 6-inch cast iron water main and 1,112 feet of 10-inch cast iron water main at the end of its useful life.
D-20-04	486 Zone DeBarr Intertie	Construct approximately 700 feet of 16 inch diameter water main between the Anchorage Loop 06" DeBarr PRV Vault (630HGL) and Early View Drive (486 HGL) located in East Anchorage including piping modifications within the DeBarr PRV vault. Additionally, this project will address hydraulic deficiencies in the northeast portion of the 486 pressure zone, provide system redundancy, and allow for the Muldoon Booster Station to be abandoned.
D-20-05	92nd Ave Intertie Zone Conversion	Construct water main intertie between the 320 Hydraulic Grade Line Pressure Zone (HGL PZ) and the 347 HGL PZ at 94th Ave and Old Seward Hwy
D-20-06	92nd Ave PRV	Construct a new pressure reducing valve facility near Old Seward, Dowling Rd and 92nd Ave to ensure sufficient capacity in the area.
D-20-07	Dowling Rd PRV	Construct a new pressure reducing valve facility near Old Seward, Dowling Rd and 92nd Ave to ensure sufficient capacity in the area.
D-20-08	E 7th Lane to Pine Water Rehabilitation	Replace approximately 572 feet of 1968 6" cast iron water main at the end of its useful life.
D-20-09	Eagle River Well Rehab - Norfolk, Gruening, Well #8	Rehabilitate one or more wells that are currently not capable of going to production in order to reduce the risk of a supply outage to the area and reduce the risk of cross connection due to outage.
D-20-10	E. Northern Lights Blvd Augustine Water Upgrade	Replace or rehabilitate approximately 1,194 feet of 8-inch ductile iron pipe at the end of its useful life and abandon approximately 491 feet of 8-inch pipe.
D-20-11	Becharof St Rakof to Chirikof Water Rehabilitation	Replace approximately 988 LF of 1968 installed 8" CI water main and 660 LF of 1965 installed 6" water main at the end of its useful life. Install interties to reduce the consequences of failure of each of these pipes.
D-20-12	Tanglewood Place Water Rehabilitation	Replace approximately 600 feet of 1967 6-inch cast iron water main at the end of its useful life and in need of replacement.
D-20-13	Mink Avenue Water Rehabilitation	Reconstruct approximately 550 feet of 1966 6-inch cast iron water main at the end of its useful life and in need of replacement.
D-20-14	Girdwood Well Rehabilitation	Design and construct upgrades to the backup power system and the hypochlorite generation system. During design, the condition of other system at the well site will be evaluated for potential upgrades as part of the project with the overall purpose of enhancing the reliability of the water source.
D-20-15	Updated Water Master Plan	The water master plan provides a guide for future expansion, modifications and rehabilitation over a 20-year planning horizon.
D-20-16	Gruening Reservoir/Booster/Well Station Rehabilitation	Evaluate and identify deficiencies in the Gruening Well, Booster Station and Reservoir. Once fully identified solutions to these deficiencies will be designed and constructed under this project.
D-20-17	Briarwood Dimond Intertie	The Briarwood Dimond Intertie will construct approximately 400 feet of water main on Dimond Blvd. between the Old Seward Highway and Spring Street. The project will provide for redundancy for water service to residential and commercial customers between Dimond Blvd, Lore Road, the Old Seward Highway and the New Seward Highway.
D-20-18	Girdwood St Moritz Emergency Generator	Install an emergency generator onsite to allow for continued service during power outages. Pressure losses due to frequent power outages pose a risk of backflow or cross contamination.
D-20-19	Girdwood Timberline PRV Upgrade	This project will replace failing pressure reducing valve equipment within the Girdwood Timberline PRV Vault. The project will also upgrade SCADA communications equipment. Completion of this project will insure that AWWU will be able to maintain water service to existing customers in the 330 and 460 HGL zones of Girdwood by maintaining pressures and communication at this facility.
D-20-20	Glenn Square PRV Facility	The project involves construction of a new aboveground PRV facility to replace or upgrade the aged Chrysler PRV vault originally constructed in 1971 and modified in 1981. The existing vault is in a condition requiring improvements and access is limited by inbound traffic from the Glenn Highway.
D-20-21	Asplund and West Anchorage International Airport Water Supply Line	This project will replace an existing line that is buried beneath the north-south runways of the Ted Stevens Anchorage International Airport that is no longer accessible for maintenance due to the depth of the bury and airport operations. The new line will go along the north side of the north-south runways. The new line will ensure existing water service is maintained to existing customers west of the airport including the Asplund Wastewater Treatment Facility and other commercial and industrial customers.
D-20-22	900 Reservoir & Transmission Main	This reservoir is necessary to supply operational and emergency water storage needs in the upper Eagle River pressure zones. This project will construct a one million gallon reservoir and associated transmission piping to serve the upper Eagle River pressure zone. Construction of this reservoir will ensure operational and emergency water storage and prevent the water system from experiencing low system pressures during peak demand periods or emergencies.
D-20-23	Eklutna Water Treatment Facility Energy Recovery Station (ERS) Control Improvements	Rehabilitate the control infrastructure for the water treatment energy recovery station.
D-20-24	Eklutna Water Treatment Facility SCADA Backbone & Fire Improvements	Rehabilitate and improve the existing SCADA system.
D-20-25	475 Loop Conversion	Convert portions of the Anchorage bowl transmission loop to the 475 hydraulic grade line to enhance system operations.
D-20-26	Anchorage Townsite 5th-8th Water Upgrade	Rehabilitate water distribution infrastructure in downtown Anchorage that is at the end of its useful life.
D-20-27	Bragaw 16th DeBarr Water Upgrade	Rehabilitate or replace approximately 1,281 feet of 1956 6-inch and 8-inch cast iron pipe that is at the end of its useful life.
D-20-29	Ship Creek Water Treatment Facility Plan	Evaluate the condition and provide for planned management and upgrades to the Ship Creek Water Treatment Facility.
D-20-30	4255 DeBarr Road Water Upgrade	Replace approximately 1,400 linear feet of 6-inch cast iron water main and 1,200 linear feet of 10-inch cast iron water main at the end of its useful life.