

## Bristol Bay Borough (BBB) 2017 CIP List

### PROJECT DESCRIPTIONS

#### CATEGORY "A" Priorities

##### **Naknek Sewer System Upgrade-PHASE III**

<u>\$Available</u>	<u>\$Needed</u>
\$0	\$6,000,000

##### **Naknek Sewer System Upgrade-PHASE II**

<u>\$Available</u>	<u>\$Needed</u>
\$0	\$207,000

##### **Naknek Sewer System Upgrade-PHASE I**

<u>\$Available</u>	<u>\$ Needed</u>
\$0	\$12,450,194

The BBB owns and operates a community sewer system that is approximately 30+ yrs. old. The system serves residential, commercial and industrial users. Industrial users of the system include the seafood processors operating in the Borough. There has been significant growth in the seafood industry requiring increased capacity in the sewer system. Naknek improvements include replacing the Port of BBB, lift station and force mains. Leader Creek needs lift station and force main replacements. Additionally, the sewer lines between Leader Creek and the Port of Bristol Bay lift station, zone 1, 2 and 3 need repairs /replacement, to include manhole improvements. Phase III, includes sewer lagoon maintenance measures and or relocation of lagoons away from erosive bank above the shoreline.

The Bristol Bay Borough (BBB) has secured funding for and completed The Village of Naknek Sewer Feasibility Report (\$100,000). The report addresses the sewer system deficiencies. The Alaska Native Health Consortium (ANTHC) has done the engineering work. Design engineering is at 100% completion. The BBB has secured loan funding to pay for the engineering work on this project. The feasibility report identifies the need to improve the sewer system capacity and address the existing deficiencies. ANTHC identified three levels of projects: emergency, short-term (Phase I) and long-term (Phase II and III). The emergency measures have been accomplished by the BBB. The grant request Phase I, was for 3,312,000, grant funding will provide 2,700,000 with a 15% match required from the BBB, 405,000, for a funded project total of 3,105,000 leaving a shortfall of **207,000** for Phase I. Phase II improvements **12,450,194**. Phase III Improvements **\$6,000,000**.  
Total **\$18,657,194**

#### Lift Station Repairs, Capacity Upgrades, Lagoon Maintenance

<b>Total Estimated Cost</b>	<b>\$18,657,194</b>	<b>#1</b>
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## **Bristol Bay Borough School Repair and Rehabilitation Project**

**\$Available**

**\$0**

**\$ Needed**

**\$15,000,000**

The Bristol Bay Borough School Rehabilitation Project entails the replacement of numerous structural and mechanical components that have reached the end of their useful life. The project incorporates building envelope improvements to increase the energy efficiency of the facility that will reduce the operations and maintenance costs of the school. The school houses grades K-12 and is the Emergency Shelter for Naknek. This project has been elevated to the Borough's second most critical need as we want to insure a healthy learning environment for our children, the school functions as the main gathering place for community events and most importantly we must guarantee that we can keep community members warm and safe in the event of a natural disaster or other type of emergency.

- The project includes the replacement of a 45 year old flat roof with a low pitch EPDM membrane structure. The replacement of wood siding with new siding and adding a building wrap to prevent the infiltration of cold air. Complete window and door replacement.
- A back-up boiler system with associated controls as the school is currently heated with waste heat from diesel generation via the town's power utility. Replacement of the main heat exchanger which has corroded.
- The installation of a security system complete with a keyless entry for each exterior door.
- HVAC mechanical system repairs, component replacements, and required upgrades.
- A water treatment system as the well water used at the facility corrodes fixtures to the point that many have become non-functional.
- Plumbing fixture upgrades and replacements for kitchen, bathrooms and locker rooms.
- Main power distribution transformer replacement, the existing transformer is over 40-years in age and is at its maximum capacity.
- Lighting retrofit and replacement as the fixtures are original construction and do not use the more energy efficient LED bulbs.

This project is ranked as the second most important project for the Borough due to the importance of the facility to the community and the role the building plays in our emergency response plan as a designated Emergency Shelter.

Design, Engineering and Construction

**Total Estimated Cost**

**\$15,000,000**

**#2**

**Landfill Expansion**

\$ Available                      \$ Needed  
\$0                                      \$500,000

Growth in the processing industry has increased the demands on the BBB landfill. This project is fourth in importance due to the urgent need to cap existing cells that are full, update landfill master plan and permit land fill expansion.

Landfill Expansion

**Total Estimated Costs:      \$500,000                                      #3**

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**Naknek, King Salmon Pathway Project STIP(7)**

Pedestrian and bicycle path along the Alaska Peninsula Highway, Three Phase Project

Phase I - From Downtown Naknek to Donna G Subdivision

Phase II- From Flat Nose Henry Rd. to Downtown King Salmon

Phase II- From Donna G Subdivision to Flat Nose Henry Rd.

\$ Available                      \$ Needed  
**\$312,500 TTP                      \$1,700,000 Phase I**  
**\$0                                      \$1,700,000 Phase II**  
**\$0                                      \$3,466,700 Phase III**

This Project currently is on the STIP (State Transportation Improvement Projects) Needs List as Project No. 6879. The Borough nominated it for inclusion on the STIP for 2012-2015. STIP Project description: From downtown Naknek, construct approximately 3.5 miles of pedestrian/bike path in Department of Transportation and Public Facilities Right-of-Way, along the Alaska State Highway, to an end point at Shore Street. From downtown King Salmon, construct approximately 2.5 miles of pedestrian/bike path in DOT&PF Right-of-Way, along the Alaska State Highway, to Flat Nose Henry Road.

This Project is needed for the safety of pedestrians and bicyclists, for economic development, and to encourage and provide for non-motorized transportation as well as for recreational use by residents and visitors. Presently, there is a paved shoulder on some sections of the highway for pedestrian and bicycle use. Many sections of the highway do not provide a safe walking biking environment. Pedestrians must either walk on the Alaska Peninsula Highway pavement or a very rutted shoulder area, which is also used heavily by "all-terrain vehicles" (ATV's). This results in a very dangerous situation for pedestrians, as they risk collisions from both ATV's using the shoulder as well as motor vehicles on the highway, including large trucks with heavy commercial loads. As an example, the local contractor hauling jet fuel to the Airforce base from the Port makes about 50 trips annually, with each truckload weighing 55 tons. Additionally, over several hundred trips of fresh iced fish are transported annually on this highway in 40' flatbed trucks, with each truck weighing up to 50 tons. Heavy truck traffic is generated from construction and other commercial activities. This frequent truck traffic increases the potential for serious accidents involving vehicles and pedestrians. During the summer fishing season, the local population swells to around 10,000, and many of these people walk on the Alaska Peninsula Highway as they do not have motor vehicles while in the area.

This Project will also significantly enhance the functionality of the Alaska Peninsula Highway by transforming it into a "multi-modal" facility that provides a non-motorized transportation option for persons who do not have a motor vehicle or choose not to drive or cannot drive. The pedestrian path will also support economic development by freeing-up road-way capacity for commercial traffic that is now used by pedestrians who walk on the highway pavement.

Additionally, the pathway will be a new recreational amenity that will attract use by visitors and local residents. According to the National Park Service, an estimated 35,000 people per year visit Katmai National Park. Most of these visitors arrive by air at the King Salmon Airport and pass through King Salmon on their way to the Park; many stay at local lodges. These visitors from outside the local area could enjoy the pathway, which will contribute to longer stays in the area and increased tourism expenditures to the local economy. The pathway will link to the "Sockeye Fitness Trail" on the School Rd. so children and adults can access both trails for a safe route to and from school. Finally, the pathway offers local people new access to services, neighborhoods, and opportunities for physical activity. Walking and biking contribute to improved health of the users, enjoyment of the outdoors and less environmental pollution from vehicles.

The pathway project has been ranked as sixth most important project, due to the need to improve safety along the highway, where recent pedestrian fatalities have occurred. The pathway will also promote a healthy lifestyle within our community. The project is supported by the Naknek Native Village Council Tribal Transportation Program. The Tribal Transportation Program has contributed \$312,000 to this project in planning funds.

Pedestrian and bicycle path along the Alaska Peninsula Highway

Phase I	\$1,700,000	
Phase II	\$1,700,000	
Phase III	\$3,466,700	
<b>Total Estimated Cost</b>	<b>\$6, 866,700</b>	<b>#4</b>

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**Bristol Bay Borough Bridge / Hydro Project**

<u>\$Available</u>	<u>\$ Needed</u>
\$0	\$12,000,000
<b>\$9,000,000 Fed Earmark?</b>	

The Bridge Project would provide a crossing from Naknek to South Naknek to promote regional development to all communities on the Aleutian Chain. This project is discussed in the Southwest Alaska Transportation Plan. In 2004 the SWATP recommended Naknek/South Naknek/King Salmon Road Link. This project is on the current STIP needs list (7/30/2015), as project 19 6239, Naknek River Bridge, program AHS, described as *Construct a bridge over the Naknek River between Naknek and South Naknek, Bridge crossing site and access road location on both sides of the river will be determined during design phase. Includes Bridge No. 1563.* Research will be conducted into the feasibility of incorporating a tidal power generation unit as a component of the bridge structure. A crossing to the south side of the Naknek River would promote economic growth for the Bristol Bay Borough.

Bristol Bay Borough Bridge / Hydro Project

<b>Total Estimated Costs</b>	<b>\$12,000,000</b>	<b>#5</b>
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**Port of Bristol Bay Dock Expansion/Repair Construction Phase III STIP(8)**

\$Available

\$0

\$ Needed

\$6,500,000

**Phase III** of the Port project includes grading and drainage on the entire dock and the upland container storage areas, asphalt surfacing, relocation of dock service structures, construction of a new boat ramp, and safety fencing. The Port of Bristol Bay provides a hub for freight bound for destinations region wide. Grading, Drainage, Surface Improvements: **\$3,000,000**

Utility upgrades will be made to sewer and water for shore side services to support the fishing industry. Addition of high Mast lighting. Upgrade utilities: **\$1,000,000**

Expand the dredging footprint to include turn around space in front of the dock to better accommodate 400 foot barge traffic. The Port has applied for dredging approval through the US Army Corps of Engineers under Section 14 of 1946 Flood Control Act to comply with an annual dredging requirement for the Port of Bristol Bay. Federal funds would then pay for ongoing dredge expense. However it could take up to five years for this approval. We will have a minimum of 5 yrs. of dredge expenses until we have this approval. This larger dredging footprint is key to barge access and port expansion. Dredging: **\$500,000**

Property acquisition is necessary for the expansion of the Port of Bristol Bay's upland storage area. Presently containers are stored on three separate levels that require forklifts to travel up and down steep grades damaging the port equipment and increasing maintenance down time. An additional access road to the dock is needed to allow improved user access and direct traffic away from freight operations. Improvements are needed to access the fisherman's dock and boat launch area. Property Acquisition and Dock Access Road: **\$1,000,000**

The Port has no facility building to house equipment indoors for maintenance and repair. The expansion project will include property acquisition and construction of a maintenance building. Port Facility Building: **\$1,000,000**

Port Construction Phase III is the third most important capital improvement project due to the important economic role the Port plays in the Borough and the necessity of the services the Port provides to the industries located in the Borough. The Port supports over 30 communities in the region, failure to advance the Port expansion and repairs in response to the demand placed on the Port of Bristol Bay will result in a reduction in cargo handling capacity, increased costs to operators, and possible inability to accommodate all of the shipping needs of the seafood industry currently located within the Borough. This is a previously funded, ongoing project, , that requires completion for the best performance as a Port Facility.

Port of Bristol Bay Dock Expansion/Repair Construction Phase III

**Total Estimated Cost \$6,500,000**

**#6**





**Naknek By-Pass Link, STIP(9)**

An alternate road for emergency access to the Bristol Bay Borough School, Elders Home, and Health Clinic

**\$Available**  
**\$0**

**\$ Needed**  
**\$1,560,000**

This Project would construct a new local two-lane gravel road that is needed to provide an alternate route between the Alaska Peninsula Highway and many important community facilities, that include the Borough school, Elders Home, Health Clinic, Community Swimming Pool, Naknek Electric Associaton, and the U.S. Post Office. All of these facilities are located on School Road, this road is a dead-end road off of the Alaska Peninsula Highway. The concern is that should an emergency occur along the highway, closing the AK Pen. Highway or an amonia leak at one of the many seafood processing facilities also closing AK Pen. Highway that access to the clinic and other facilities on the School Road would be blocked.

The Naknek Electric Association (NEA) administrative offices and electric generation facilities are located on the School Rd. the facility houses large storage tanks holding thousands of gallons of diesel fuel for electric generation. A fuel spill or fire are examples of the type of serious emergencies that could occur, and cause blockage of School Road from its only outlet at the AK. Pen. Highway. A closure of either the School Rd. or the AK Pen Highway would also prevent the evacuation of our school children from the school and our elders from the Elder Home.

The AK. Pen. Highway follows the Naknek River, three large fish processing facilities are located along the highway in the area of the School Road. These facilities have large quantities of hazardous chemicals on-site, such as amonia compounds used in chilling units. These chemicals could become airborne during an accident, and cause serious health hazards to the occupants of Naknek particularly, the nearby facilities on School Road. Without an alternative access, the occupants of any of these facilities on School Road could be trapped, without an evacuation route, or the injured could be blocked from accessing treatment at the health clinc also located on the school road. This project is ranked eleventh most important due to the concern for public health and safety.

**Naknek Emergency By-Pass Link Property Acquisition, Design and Construction**

**Total Estimated Costs**

**\$1,560,000**

**#11**

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**Retrofit KSAFB Gym**

**\$ Available**

**\$ Needed**

**1,000,000**

The gym on the King Salmon Airforce Base is currently on the USAF tear down list. This facility could provide a gym for the community to use as a recreation center in King Salmon.

Acquire and Retrofit KSAFB Gym

**Total Estimated Costs \$1,000,000**

**#14**

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**South Naknek Dock and Road Access Improvements STIP (2)**

**\$ Available**

**\$ Needed**

**\$0**

**\$6,000,000**

The South Naknek Dock needs maintenance and repairs in several critical areas. The retaining walls supporting the dock structure are in need of repair, as is the boat ramp, dock surface, ladders and road/ trail access to the dock and beach areas.

South Naknek Dock Improvements- Construction

**Total Estimated Costs: \$6,000,000**

**#15**

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**South Naknek Beach Access Road STIP (1)**

**\$ Available**

**\$ Needed**

**\$0**

**\$1,000,000**

The access route to the commercial fishing grounds in South Naknek currently travels from a Borough maintained road to a newly constructed road that terminates at the location of the old Diamond M cannery. The road is not completed and needs further work to be function as a safe route to the commercial fishing grounds. This funding request would be used to complete that route.

Beach Access Road to Commercial Fishing Grounds SNN- Construction and Maintenance

**Total Estimated Costs: \$1,000,000**

**#16**

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**King Salmon Road Improvements**

**\$ Available**

**\$ Needed**

**\$0**

**\$1,000,000**

General construction and maintenance needs for the roadways in King Salmon.

KS Road Improvements- Construction and Maintenance

**Total Estimated Costs: \$1,000,000**

**#17**

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**Naknek Road Improvements**

<u>\$Available</u>	<u>\$ Needed</u>
\$0	\$1,000,000

General construction and maintenance needs for the roadways in Naknek.

Naknek Road Improvements- Construction and Maintenance

**Total Estimated Costs: \$1,000,000 #18**

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**Public Safety Building- Fire Department**

<u>\$Available</u>	<u>\$ Needed</u>
\$0	\$5,000,000

The Fire Department building in Naknek is currently undersized for the response demands of our growing community. The department needs to purchase and modernize the fire response equipment but does not have the space to house the additional equipment that is needed. The current building has a very small administrative space and no rooms for training and volunteer meetings. Currently the Department operates out of two buildings, over 1 mile apart that slows ambulance response times. The Borough needs to purchase land and construct a building that would house the Fire Department, EMS and provide an office for the Fire Chief. This station building would house all fire, ambulance and EMS equipment for the Naknek response area.

Public Safety Building- Fire Department

**Total Estimated Costs: \$5,000,000 #19**

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**Multi Use Community Recreation Center - Teen Center**

<u>\$Available</u>	<u>\$ Needed</u>
\$0	\$1,000,000

Build a multi- use community center for recreation, community activities and a teen center

Multi Use Community Recreation Center- Teen Center

**Total Estimated Costs: \$1,000,000 #20**

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## CATEGORY “B” Priorities

Category B contains the highest priority Capitol Improvement Projects, that are of lower cost category, however the assistance of legislative funds will assist the citizens of the Bristol Bay Borough.

**1. Sand Storage Building \$250,000**

A sand storage building in King Salmon would reduce fuel costs for BBB sanding operations. Sanding provides safe travel in winter road conditions. The Borough currently only has sand storage in Naknek.

**2. Emergency Back- up Generators for Borough Emergency Shelters \$90,000**

Back- up power source for 6 designated Borough Emergency shelters

**3. Energy Conservation upgrades for all Borough Facility Buildings**

Provide insulation, lighting improvements to LED bulbs, heating and other energy conservation upgrades as required per building.

**Public Works Buildings \$500,000**

**Municipal Offices \$250,000**

**Port Offices \$250,000**

**Fire Halls (2) \$500,000**

**Police Department \$500,000**

**Camai Clinic \$500,000**

**Bristol Bay Borough Pool \$500,000**

**Wastewater Facility \$250,000**

**4. Bristol Bay Borough Sewer Lagoon Pump House Improvements \$300,000**

Pump House improvements to accommodate modernization measures associated with new sewer lines entering the lagoons.