

STATE OF ALASKA
ALASKA CLEAN/DRINKING WATER FUND
GREEN PROJECT ASSESSMENT FORM

As applicable under the EPA annual capitalization grants provided to the Alaska Clean Water Fund (ACWF) and Alaska Drinking Water Fund (ADWF) loan programs, a portion of funds appropriated shall be for projects to address green infrastructure, water or energy efficiency improvements or other environmentally innovative activities." To meet this condition under the federal grant for administering these funds, this assessment form is provided to document this eligibility or what is termed a "Categorical" or "Business Case" justification, which will be reviewed by DEC for provisional compliance. For more information on green infrastructure development, please review the following EPA web site:

http://cfpub.epa.gov/npdes/home.cfm?program_id=298

For those projects requiring a "Business Case," Part 2 will require completion to qualify a "traditional project" as green; justification is broken down into two parts, technical and financial. The technical part should use information from a variety of sources such as maintenance or operation records, engineering studies, project plans or other applicable documentation to identify problems (including any data on water and/or energy inefficiencies) in the existing facility, and that clarifies the technical benefits from the project in water and/or energy efficiency terms. Financial justification needs to show estimated savings to a project based on the technical benefits, and demonstrate that the green component of the project provides a substantial savings and environmental benefit.

For more information and assistance in completing this assessment form, please contact the Municipal Matching Grants & Loans program in Anchorage at 907-269-7673, or in Juneau at 907-465-5300.

GENERAL INFORMATION

Name of Community City and Borough of Sitka

Address 100 Lincoln Street
Sitka AK 99835

Contact Name David Longtin Title Senior Engineer Telephone (907) 747-1883

PROJECT INFORMATION

Project Name Hollywood Way & New Archangel Sewer Location Sitka

Project Type: New Construction Upgrades

Stormwater Infrastructure Energy Efficiency Project

Water Efficiency Project Innovative Environmental Project

Green Project Description: This project will replace the aging sewer mains in poor condition with C900 PVC pipe, thereby reducing I&I. The reduction in I&I will result in a savings in electrical energy for pumping.

PART 1 – GREEN PROJECT CATEGORY & COSTS

Identify the most appropriate “Green” Clean Water or Drinking Water category project type. Note, any selection with (BC) at the end will require a Business Case demonstration.

ENERGY EFFICIENCY – the use of improved technologies and practices to reduce the energy consumption of water quality projects.

_____ Wastewater/water utility energy audits _____ Clean power for public owned facilities
_____ Leak detection equipment _____ Retrofits/upgrades to pumps & treatment processes (BC)
 Replace/rehabilitation of distribution (BC) _____ Other: _____ (BC)

WATER EFFICIENCY – the use of improved technologies and practices to deliver equal or better services with less water.

_____ Water meters _____ Fixture Retrofit _____ Landscape/Irrigation
_____ Graywater or other water recycling _____ Replace/rehabilitation of distribution (BC)
_____ Leak detection equipment _____ OTHER: _____ (BC)

GREEN INFRASTRUCTURE – Practices that manage and treat stormwater and that maintain and restore natural hydrology by infiltrating, evapotranspiring and capturing and using stormwater.

_____ Green Streets _____ Water harvesting and reuse
_____ Porous pavement, bioretention, trees, green roofs, water gardens, constructed wetlands
_____ Hydromodification for riparian buffers, floodplains, and wetlands
_____ Downspout disconnection to remove stormwater from combined sewers and storm sewers
_____ OTHER: _____ (BC)

ENVIRONMENTALLY INNOVATIVE PROJECTS – Demonstrate new/innovative approaches to managing water resources in a more sustainable way. This may include projects that achieve pollution prevention or pollutant removal with reduced costs and projects that foster adaptation of water protection programs and practices to climate change.

_____ Wetland restoration _____ Decentralized wastewater treatment solutions
_____ Water reuse _____ Green stormwater infrastructure _____ Water balance approaches
_____ Adaptation to climate change _____ Integrated water resource management
_____ OTHER: _____ (BC)

PROJECT & GREEN COMPONENT COSTS

	<u>TOTAL PROJECT COSTS</u>	<u>TOTAL "GREEN" COMPONENT COSTS</u>
Administration	\$ 10,000	\$ 10,000
Legal	\$ _____	\$ _____
Preliminary Studies/Reports	\$ 10,000	\$ 10,000
Engineering Design	\$ 50,000	\$ 50,000
Inspection/Surveying/Construction Management	\$ 35,000	\$ 35,000
Construction	\$ 320,000	\$ 320,000
Equipment	\$ _____	\$ _____
Contingencies	\$ 75,000	\$ 75,000
Other _____	\$ _____	\$ _____
Total Costs	\$ 500,000	\$ 500,000

PART 2 – PROJECT “BUSINESS CASE” TECHNICAL/FINANCIAL ASSESSMENT

TECHNICAL ANALYSIS OF BENEFITS*

In addition to this form, a supporting technical and financial analysis is required to verify energy and water saving efficiencies for any green component of the project. For green infrastructure and innovative environmental type projects, the analysis should include any applicable efficiency and environmental benefits. For assisting MGL in evaluating “Business Case” assessments of water main, meter, and pump facility replacement type projects, the attached form titled “ADWF - Water/Energy Efficiency Determination - Water Main Replacement/Meter/Pump Facility” is required to be completed. Once the form is complete along with any supporting documentation, please submit documentation to the MGL program for review and concurrence. Note, only water/energy efficiencies that achieve a 20% or greater increase in efficiency will categorically qualify as a Green project.

CERTIFICATION STATEMENT:

I certify the above information is current and accurate.

David Longtin, P.E.
Name

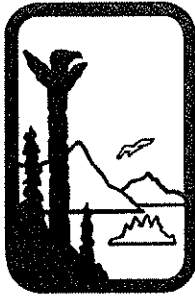
Senior Engineer
Title


Signature

5/15/14
Date

Submit Completed Form to:

Alaska Department of Environmental Conservation
Municipal Matching Grants & Loans
555 Cordova Street
Anchorage, AK 99501-2617



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