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.

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**GENERAL INFORMATION**

Name of Community __________________________ City and Borough of Sitka

Address __________________________

100 Lincoln Street

Sitka AK 99835

Contact Name __________________________ Title __________________________ Telephone (907) __________

David Longtin Senior Engineer 747-1883

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**PROJECT INFORMATION**

Project Name __________________________ Location __________________________

Lake & Monastery water improvements Sitka

Project Type: ______ New Construction _____ Upgrades

X Stormwater Infrastructure

X Energy Efficiency Project

_____ Water Efficiency Project

_____ Innovative Environmental Project

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Green Project Description: Replacement of leaky distribution pipes and services will reduce the cost of delivering water to Water Fund customers.

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, evaporating 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

<table>
<thead>
<tr>
<th></th>
<th><strong>TOTAL PROJECT COSTS</strong></th>
<th><strong>TOTAL “GREEN” COMPONENT COSTS</strong></th>
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<tr>
<td>Administration</td>
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<td>Legal</td>
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<tr>
<td><strong>Total Costs</strong></td>
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<td><strong>$796,500</strong></td>
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## 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**

Name

[Signature]

Senior Engineer

Title

June 16, 2017

Date

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Submit Completed Form to:

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