



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

Under the EPA annual capitalization grants provided to the Alaska Clean/Drinking Water Fund loan programs, it is stated that “To the extent there are sufficiently eligible project applications, not less than 20 percent of the funds appropriated herein for the Revolving (loan) funds 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 Field of View Subdivision Wasilla

Address NE Corner of S18, T18, NR1E and SW 17 acre portion of S7, T18, NR1E

Contact Name David Kranich Title Member Telephone (907) 346-1901



PROJECT INFORMATION

Project Name Field of View Subdivision New Well Location Wasilla

Project Type: New Construction Upgrades

Stormwater Infrastructure Energy Efficiency Project

Water Efficiency Project Innovative Environmental Project

Green Project Description: *****NOTE*** This is a revision to a previously submitted “Green project assessment” for the same project.** The current well only produces 3-6 GPM. Because of the low production of the well, the well pump starts and stops many times (at least 16 times) a day in an attempt to fill (3) 2500 gallon storage tanks and keep up with daily demand. The well does not meet daily demand and approximately 6000 gallons of water is hauled from the city of Palmer each week and pumped into the storage tanks. The new well system will utilize two pumps to deliver unlimited water at up to 160 gallons per minute from the new well directly into the distribution system. The elimination of routine booster pumping and water hauling will reduce overall pumping energy consumption by approx 78%.

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: New Well and Pumping Design (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

PROJECT & GREEN COMPONENT COSTS

	<u>TOTAL PROJECT COSTS</u>	<u>TOTAL "GREEN" COMPONENT COSTS</u>
Administration	\$ 20,000	\$ 20,000
Legal	\$	\$
Preliminary Studies/Reports	\$	\$
Engineering Design	\$	\$
Inspection/Surveying/Construction Management	\$ 5000	\$ 5000
Construction	\$ 601,000	\$601,000
Equipment	\$ 27,000	\$ 27,000
Contingencies	\$ 95,000	\$ 95,000
Total Costs	\$ 748,000	\$ 748,000


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.

_____ Name <u>David Kranich</u>	_____ Title <u>Utility Manager</u>
_____ Signature 	_____ Date <u>9/13/2013</u>

Submit Completed Form to: