



# Municipality of Anchorage

## Anchorage Water & Wastewater Utility



Engineering Division

<http://www.awwu.biz>

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Mayor Mark Begich

August 19, 2008

Ms. Beth Verrelli, P.E., Project Engineer  
Alaska Department of Environmental Conservation  
Division of Water  
555 Cordova Street, Fourth Floor  
Anchorage, AK 99501

SUBJECT: *Well 7 and Well 12 Upgrade*  
**Well Onsite Disinfection Upgrade  
ADW Loan No. 130271  
Project Performance Criteria**

Dear Beth:

The Anchorage Water and Wastewater Utility (AWWU) received an Alaska Drinking Water Revolving Loan for a portion of the subject project. Performance criteria for the subject project are hereby proposed and submitted for your approval.

### Project Scope

This project consists of the following infrastructure upgrades:

**Well Houses** – Three wells have been identified as being candidates for onsite sodium hypochlorite generation (Wells 10, 11 and 12). Upgrades consist of removal of existing gas chlorination equipment and appurtenances, installing new sodium hypochlorite solution storage tanks, installing new automatic hypochlorite feed valves and ejectors, building access modifications, and upgrades to facility disinfection systems. Well 12 work will also include removal of the existing well motor and pump and furnishing a new well pump, motor and variable frequency drive.

### Performance Criteria

AWWU proposes the following project performance criteria and provides the following information in response to Alaska Clean Water Fund & Alaska Drinking Water Fund loan requirements A through D.

#### ***A. Identification of the design criteria or performance standards applicable to the proposed project.***

### ***Community, Security, Prosperity***

- The project was designed and constructed in accordance to criteria established in the *AWWU 2004 Design and Construction Practices Manual* and per the *Municipality of Anchorage Standard Specifications* as modified by bid document special provisions.
- The project is warranted against defects in materials and workmanship for a period of one year from the date of final acceptance.

***B. A description of the testing and/or operational objectives used that define the success of the proposed project, and an outline scheduling those objectives.***

- Testing Objective 1 - Hydrostatic testing of tanks, pipe and appurtenances will be performed to confirm there are no leaks and to ensure equipment will maintain operational pressure. Performance to be measured during construction commissioning.
- Testing Objective 2 - Bacteriological testing will be performed to confirm the absence of bacteria and to ensure new water system infrastructure has been adequately disinfected. Performance to be measured during construction commissioning.
- Operational Objective 1 - System operating pressures in the project area will meet AWWU tariff requirements and AWWU is able to maintain domestic water service and high volume requirements. Performance will be measured by the number of notifications (or lack thereof) to the Anchorage Fire Department dispatch that fire volume requirements in the project area cannot be met and/or by customer calls relating to domestic water service outages.
- Operational Objective 2 - On-site generation system performance will be tested to confirm the system is cost-effective compared to the current gaseous chlorine system. Performance will be measured by the number of work orders the on-site generation system requires over the gaseous chlorine system.

***C. Identification of the person or persons responsible for evaluating the performance of the proposed project.***

Todd Carroll, P.E., AWWU Project Manager is the person responsible for evaluating the performance of the proposed project and will retain primary responsibility for assembling the performance documentation.

**D. A proposed final report format for project certification.**

Prior to the end of the one-year performance period an affirmative or negative certification will be submitted by AWWU. Sample forms for affirmative certification and negative certification are included (see attached).

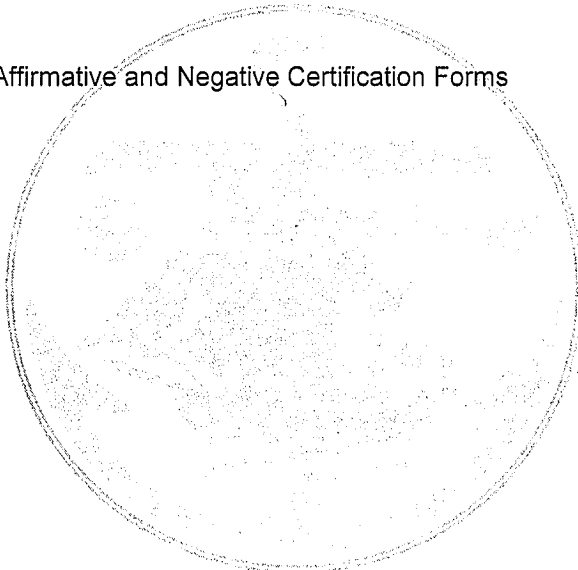
If you have any questions or comments, please call me at 564-2753, or contact Ms. Ruth Keller, AWWU Grant and Loan Administrator, at 564-2755.

Sincerely,



Todd L. Carroll, P.E.  
Project Manager

Attachments: Sample Affirmative and Negative Certification Forms



STATE OF ALASKA  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**AFFIRMATIVE CERTIFICATION**

**Certificate of Performance  
for  
Public Water System**

I. As required by 18 AAC 76.250 of the Alaska Drinking Water Revolving Loan Fund Regulations and Loan Agreement Conditions for the \_\_\_\_\_ project, the City does hereby certify that it is in full compliance, and that it has:

a) Provided to the ADEC Project Engineer written notification of the actual date of Initiation of Operation. This date of initiation was on the \_\_\_\_\_ day of \_\_\_\_\_, 2002.

b) Over the course of this project, utilized the following engineering services for:

1. Design: \_\_\_\_\_
2. Construction Inspection: \_\_\_\_\_
3. Construction Administration: \_\_\_\_\_
4. Project Performance: \_\_\_\_\_

c) Within one year following the Date of Initiation of Operation, ending on the \_\_\_\_\_ day of \_\_\_\_\_, 2003, the following items were completed for Project Performance:

- Directed project operation and maintenance;
- Trained operating personnel, prepared the required curricula and training materials, and revised the operation and maintenance manual(s), and;
- Advised the City on the status of the project meeting performance standards.

II. The City having access to and control of all the necessary data and having monitored the construction of this project, hereby certifies that the project built under this loan meets the performance and operational requirements applicable to the project together with the enforceable requirements of the Safe Drinking Water Act, and the specifications which the project was planned, designed, and built to achieve.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Project Name/Community

\_\_\_\_\_  
Name and Title

\_\_\_\_\_  
Date

STATE OF ALASKA  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NEGATIVE CERTIFICATION

Certificate of Non-Performance  
for  
Public Water System

I. As required by 18 AAC 76.250 of the Alaska Drinking Water Revolving Loan Fund Regulations and Loan Agreement Conditions for the \_\_\_\_\_ project, the City does hereby certify that it is unable to comply, although it has:

a) Provided to the ADEC Project Engineer written notification of the actual date of Initiation of Operation. This date of initiation was on the \_\_\_\_\_ day of \_\_\_\_\_, 2002.

b) Over the course of this project, utilized the following engineering services for:

1. Design: \_\_\_\_\_
2. Construction Inspection: \_\_\_\_\_
3. Construction Administration: \_\_\_\_\_
4. Project Performance: \_\_\_\_\_

d) Within one year following the Date of Initiation of Operation, ending on the \_\_\_\_\_ day of \_\_\_\_\_, 2003, the following items were completed for Project Performance:

- Directed project operation and maintenance;
- Trained operating personnel, prepared the required curricula and training materials, and revised the operation and maintenance manual(s), and;
- Advised the City on the status of the project meeting performance standards.

II. Having followed the above procedures, the City concludes that the project does not meet the project performance standards. The following documentation is attached:

a) A corrective action report containing an analysis of the cause(s) for failure, and an estimation of the nature, scope and cost necessary to bring the project into compliance; and,

b) A timely scheduled for such remedial action; and

c) The scheduled completion date for affirmative certification of project performance to the Project Engineer.

c) Other:

III. The City understands that all corrective measures necessary to achieve project performance standards will be at the City's expense. Such corrective measures may be eligible under the loan program.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Project Name/Community

\_\_\_\_\_  
Name and Title

\_\_\_\_\_  
Date

*SAVED*