

Correctional Institutions Water System Repairs and Replacement

FY2004 Request: \$450,000
Reference No: 37815

AP/AL: Appropriation

Project Type: Deferred Maintenance

Category: Public Protection

Location: Statewide

Contact: Jerry Burnett

House District: Statewide (HD 1-40)

Contact Phone: (907)465-3339

Estimated Project Dates: 07/01/2003 - 06/30/2007

Brief Summary and Statement of Need:

Repair and replace water systems at Cook Inlet Correctional Center, Hiland/Meadow Creek Correctional Center, and Spring Creek Correctional Center.

Funding:	<u>FY2004</u>	<u>FY2005</u>	<u>FY2006</u>	<u>FY2007</u>	<u>FY2008</u>	<u>FY2009</u>	<u>Total</u>
Gen Fund	\$450,000	\$300,000					\$750,000
Total:	\$450,000	\$300,000	\$0	\$0	\$0	\$0	\$750,000

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input checked="" type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> On-Going
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	0
Totals:	0	0

Additional Information / Prior Funding History:

Project Description/Justification:

This project funds the repair/replacement of water systems at the following correctional centers

Hiland Mountain/Meadow Creek Public Water Connection – Ph I & II \$400.0

The current well water system provides drinking and domestic water to the Hiland Mountain / Meadow Creek Correctional Center (HMCC). The system is exposed to high-risk elements that could easily result in failure of the facility's only water supply. The system services an emergency capacity of 311 state prisoners (113,515 man-days of incarceration) and 94 staff daily.

The Environmental Protection Agency (EPA) and Department of Environmental Conservation (DEC) have classified this Class "A" well water system as being "under the influence of surface water." This classification requires that a filtration system be installed to remove Cryptosporidium and other organisms that are resistant to chlorination.

As the Eagle River overflows the water wells are contaminated with bacteria, which then requires chlorinate treatments to the wells to remove the contaminated bacteria.

The system is also exposed to potential fuel or chemical spills from traffic accidents on the outbound Glenn Highway and Eagle River Bridge. Many traffic accidents involving tractor-trailers occur every year on the bridge approach that often freezes or ices over from condensation of the water below it. This bridge is directly above and adjacent to the facility's water well site. The wells would be considered "poisoned" which there is no treatment available.

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The well distribution system is also failing from approximately 30 years of constant service to the facility and the adjacent Department of Natural Resources facilities, Municipality of Anchorage Street Maintenance Yard, and the General Public using the Eagle River Campground.

This project will connect HMCC to the Anchorage Wastewater Utility (AWWU) public water system, at substantially less cost than repairing and upgrading the current system.

Cook Inlet Pretrial Design Phase for Water Line Replacement \$25.0

Spring Creek CC Design Phase for Water Line Replacement \$25.0

The following projects are being deferred to the FY2005 Capital Budget Request:

Cook Inlet Pretrial Water Line Replacement \$225.0

This potable water system has experienced extreme corrosion from water chemistry reactions and electrolysis that has caused the system to fail in many locations. More than a dozen leaks in the coldwater distribution line have been temporarily patched. This project will replace the defective water line.

Spring Creek Correctional Center Water Line Replacement/Treatment \$75.0

The domestic hot water distribution system within all buildings has failed due to high temperature corrosion and flow erosion. The system has been patched in many locations. This project will replace the defective water lines.