"Spatial, Temporal, and Phase Distributions of Fecal Coliform Bacteria in Chester Creek"

University of Alaska Anchorage

FY 04 Grant Award: $17,350 *Project Match: $11,739*

UAA students and RSE employees with the newly-installed staff gauge upstream of the Bulldog Trail Bridge over Chester Creek on Ft. Richardson. The site pictured represents the uppermost sampling location to be utilized in the study, and is assumed to be the least impacted by human activity.

Description and Purpose:
The proposed project represents a collaborative effort to delineate the spatial, temporal, and phase distributions of fecal coliform bacteria in Chester Creek. Through the evaluation of historical data as well as development/implementation of a rigorous sampling regimen, the project team intends to measure correlations between fecal coliform concentrations and a wide variety of system specific parameters. In this fashion, a conceptual model will be developed with regard to the origin and character of the contaminants. These results will be utilized to develop a list of recommendations in pursuit of an appropriate mitigation strategy with an ultimate goal to provide meaningful, accurate information lead to the recovery of Chester Creek from fecal coliform contamination.

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Deliverables Include:

- Monitoring Strategy, Quality Assurance Project Plan and Sampling Plan
- Comprehensive review of existing fecal coliform data and evaluate conclusions proffered by other experts including data from previous Chester Creek studies as well as data from similar studies nationwide.

Project Contacts:

Grantee Project Manager
William Schnabel, Ph.D.
UAA – School of Engineering
3211 Providence Dr.
Anchorage, AK 99508
Ph: 907-786-1912 Fax: 907-786-1079
Schnabel@uaa.alaska.edu

DEC Project Manager
Tim Stevens, Environmental Specialist
Department of Environmental Conservation
555 Cordova
Anchorage, AK 99501
Ph: 907-269-7515 Fax: 907-269-7508
tim_stevens@dec.state.ak.us