State of Alaska

Coastal Impact Assistance Program

APPENDIX B-2

Project Descriptions

Direct to Coastal Political Subdivision Funding

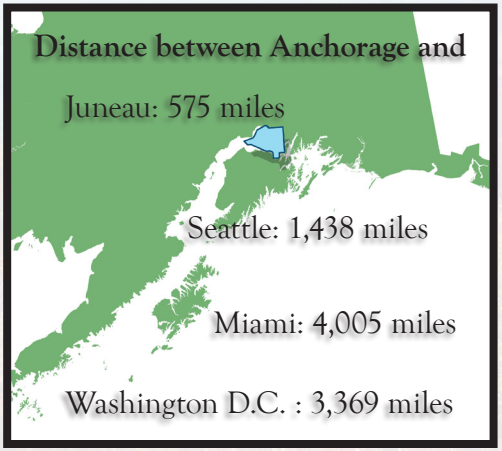
Municipality of Anchorage		
Tier 1		
AKCIAP_CPS-MOA-T1-01	Lower Little Campbell Creek Channel Restoration to Mitigate Impacts to Fish	551,072
AKCIAP_CPS-MOA-T1-02	Campbell Creek Estuary CIAP Conservation Project	1,628,000
AKCIAP_CPS-MOA-T1-03	South Fork Little Campbell Creek Mitigation of Impacts Fish Passage	846,620
AKCIAP_CPS-MOA-T1-04	Chester Creek Channel Restoration to Mitigate Impacts to Fish Habitat	1,485,563
Tier 2		
AKCIAP_CPS_MOA_T2-01	Ship Creek Fishing Access Improvements for Stream Bank Protection (Pending plan approval)	1,000,000
AKCIAP_CPS_MOA_T2-02	Ship Creek Water Quality Improvements (Pending plan approval)	600,000

Municipality of Anchorage

Brief History: In 1741 Russian sailors, led by Vitus Bering, came upon Alaska's mainland. They were followed by British, Spanish, and American explorers, including Captain James Cook in 1778. The discovery of gold in 1887 sparked development in the area. Construction began in 1914 on a federal railroad from the port of Seward, 126 miles south of Anchorage, through the coal fields of Interior Alaska, to the gold claims near Fairbanks, 358 miles to the north. The midpoint construction headquarters was Anchorage, and, by July of 1915, thousands of job seekers and opportunists had poured into the area, living in a tent city on the banks of Ship Creek near the edge of the present downtown. Anchorage has a history of cultural diversity. Residents participate in nearby recreational and subsistence activities. It also is the center of commerce for the state. Oil and gas industries, finance and real estate, transportation, communications, and government agencies are headquartered in Anchorage. Several thousand military personnel are stationed at Fort Richardson and Elmendorf Air Force Base.

Photo by: Lisa Fleischer

Pronunciation:	(ANG-kuh-ridge)
Population (2007):	284,994
Shoreline:	186 miles
Coastal Area:	494 square miles
Annual Precipitation:	16”
Annual Snowfall:	59”
Hours of Daylight Summer:	19 hours, 22 min
Hours of Daylight Winter:	5 hours, 35 min
Regional Native Corporation:	Cook Inlet Region INC & Chugach Alaska Corp
Legislative District:	19 - 32, J - P



MUNICIPALITY OF ANCHORAGE

STATE OF ALASKA
COASTAL IMPACT ASSISTANCE PROGRAM

Municipality of Anchorage

PROJECT TITLE: Lower Little Campbell Creek Channel Restoration to Mitigate Impacts to Fish

Note: This project is a refinement of the Municipality of Anchorage, Project 1 that was approved as part of the 2008 Alaska CIAP Plan.

PROJECT CONTACT

Contact Name: Brad Dunker
Address: 632 W. 6th Avenue, Suite 630, PO BOX 196650, Anchorage, AK 99519-6650
Telephone Number: (907) 343-7526
Fax Number: (907) 249-7953
Email Address: dunkerbe@muni.org

PROJECT LOCATION

The Lower Little Campbell Creek Channel Restoration project is located at the D&S Concrete site along Little Campbell Creek. See project map included as Figure 1.

PROJECT DURATION

Four years

ESTIMATED COST

Spending Estimate ($)				
TOTAL	**Year 1**	**Year 2**	**Year 3**	**Year 4**
$551,072	$137,767	$137,7677	$137,769	$137,769

Funding per Allocation Year of CIAP ($)				
TOTAL	**FY 07**	**FY 08**	**FY 09**	**FY 10**
$551,072	$137,767	$137,767	$137,769	$137,769

PROJECT DESCRIPTION

The Lower Little Campbell Creek Channel Restoration project will restore fish passage and riparian function to a portion of Little Campbell Creek by removing approximately 300 feet of corrugated metal pipe that currently contains the south fork of Little Campbell Creek and restoring the creek channel to the surface and a more naturalized state.

Little Campbell Creek runs for approximately 4 miles from the mid-hillside area of Anchorage to the confluence with Campbell Creek west of the Seward Highway. Historically, the creek supports a small coho salmon run. Currently, Little Campbell Creek primarily supports the larger run in Campbell Creek by providing juvenile salmon rearing habitat. Poor water quality and

barriers to fish passage have reduced the number of juvenile salmon rearing in Little Campbell Creek and lowered the overall production of salmon. High levels of fecal coliform have been recorded by Anchorage Waterways Council Citizen Water Quality Monitors. The proposed project, in conjunction with a culvert replacement planned for 2010 on Abbott Road (Alaska Department of Transportation project) project planned for the fall of 2010 would result in the restoration of fish passage from the confluence of Campbell Creek and Little Campbell Creek to the boundary of the Alaska Zoo. This will result in approximately 3.5 miles of improved fish passage.

Additional ecological benefits of this project from flood mitigation will provide improvements to water quality in this area of Anchorage. This project site is located in a large alluvial fan at the bottom of the Anchorage hillside areas. These geographical features cause the area to frequently flood. Flooding introduces contaminants and soil particles into the water that reduce dissolved oxygen levels, increase fecal coliform levels and other water quality parameters that are detrimental to juvenile salmon. Study of juvenile pacific salmon have shown that they have little ability to move to other rearing areas to escape poor water quality conditions.

This project is based on recommendations from the Little Campbell Creek Watershed Management Plan (2006). The Little Campbell Creek Watershed Management Plan was completed in 2006 to make recommendations on how to improve water quality and fish habitat and reduce development impacts on Little Campbell Creek. The plan makes a series of recommendations and identified areas of concern. Those areas of concern are tin part he subject of this application.

The Gray Culverts Analysis funded through the Salmon in the City initiative and conducted in partnership by the Alaska Department of Fish and Game analyzed 56 culverts throughout Anchorage for fish passage and parcels for potential restoration work. This publication is currently in internal publication review; however, it identified all of the culverts subject to this project site as significant barriers to fish passage.

<u>Key Milestones</u>

Project Year 1

- RFP for refinement of conceptual design.
- Award bid to contractor for construction drawings
- Begin design and permitting.

Project Year 2

- Prepare final bid documents and bid project
- Begin construction activities

Project Year 3

- Complete construction activities and construction inspection
- Begin assessment and monitoring

Project Year 4

- Complete assessment and continue monitoring
- final report and close out project

MEASUREABLE GOALS AND OBJECTIVES

The Lower Little Campbell Creek Channel Restoration project will remove about 300 linear feet of corrugated metal pipe that currently contains the south fork of Little Campbell Creek and will restore this section of the creek channel to the surface and to a more naturalized state. The existing corrugated metal pipe currently runs under a construction barrier company, through an ingress access to the property and terminates just east of Dimond Hook Road. Failing portions of the pipe are noted as causing potential flooding threats to the areas as well as poor water quality and fish passage. Restoring the creek back to the surface and restoring the riparian areas around the creek channel will provide quality juvenile rearing habitat, improved fish passage, and improved water quality, and mitigate the threat of floods to the area. This project will restore fish passage to about 1.5 miles of creek channel upstream of the existing pipe and provide juvenile salmon rearing habitat within the restored creek channel.

Project Year 1:

- Complete contract for design services through the Municipality's Procurement process and consistent with Federal procurement regulations as applicable.
- Begin design and engineering for construction drawings.

Project Year 2:

- Complete construction document and bid project for construction.
- Complete construction activities in the fall of Project Year 2 due to closure of construction activities during salmon run and spawning (generally July 1- September 31). Estimated construction time is 60 days under favorable conditions.

Project Year 3:
Complete project monitoring and assessment and close out project with submission of a final report.

PROJECT CONSISTENCY WITH CIAP AUTHORIZED USE

The Lower Little Campbell Creek Channel Restoration project is consistent with authorized use #2, which is stated as *"Mitigation for damage to fish, wildlife or natural resources."*

The Lower Little Campbell Creek Fish Passage project will mitigate impacts to salmon created by existing fish barriers and poor water quality, as described above. This project will restore the ecological function of the creek by removing the creek from an underground corrugated metal pipe and bringing the creek channel back to the surface over about a 300 foot reach of creek, restore the creek channel to a more natural creek bed, and restore the riparian area around the creek to improve water quality, reduce flood hazards and allow passage for returning coho salmon and other resident fish species. The new creek channel will be designed to meet bankfull requirements for flood control and fish passage that reflects the natural habitat and gradient of the original creek channel. Cobble size and riparian vegetation will be restored to be consistent with the historical creek bed patterns.

Although this project is not located within the coastal zone, the benefits of the project will be to the fish, wildlife and natural resources of coastal areas. Returning salmon are important to both the freshwater coastal areas and the marine coastal areas. In fresh water, salmon provide essential

marine nutrients that support the aquatic and riparian habitat of creeks in Anchorage. In the marine environment, returning salmon provide an essential food source for the Beluga whales that are routinely viewed off the shores of Anchorage in the summer months. The recent listing of this whale population under the Endangered Species Act has made salmon restoration projects in Anchorage more valuable.

Similar past creek channel restoration projects, such as the Chester Creek Creekside Center Channel Restoration project, have proven successful at mitigating impacts to fish, wildlife, and natural resources. In 2005, a cooperative effort between the MOA, US Fish & Wildlife Service, NOAA and private partners restored about 350 linear feet of creek channel west of Muldoon Road along Chester Creek. This portion of the creek was channelized in the 1960s to provide for development of a mobile home park at the corner of DeBarr and Muldoon Roads. This project restored the channel to a natural state by creating natural features such as meanders, correct cobble size for a creek in Anchorage to restore quality fish habitat and improve water quality, and restored a portion of the historical flood plain to protect property along the creek and restore riparian function. (See pictures provided as Figures 4 and 5). The restoration of the creek channel provides resting habitat for adults during migration and has increased the presence of juvenile salmon in the project area.

Similar past creek channel restoration projects, such as the Chester Creek Aquatic Ecosystem Restoration Project, have proven successful at mitigating impacts to fish, wildlife, and natural resources. In 2008, the Municipality began construction on the Chester Creek Aquatic Ecosystem Restoration Project to restore the mouth of Chester Creek. This project entailed removing the underground pipes that have served as the outfall of Chester Creek for more than 20 years and restore the creek channel and weir at Westchester Lagoon to the surface. The new creek channel provides riffles, pools and other natural features found in creeks in Anchorage. The Tony Knowles Coastal Trail is now bridged over the new creek channel and a 15-foot wide concrete box culvert conveys the outfall of Chester Creek under the Alaska Railroad tracks into Cook Inlet. This project is monitoring fish passage into Chester Creek to help maintain the existing historic run of coho salmon in Chester Creek in cooperation with Alaska Pacific University. As of August 9, 2009, there were 986 salmon counted entering the creek resulting in twice the number of fish entering Chester Creek to spawn than in 2008.

COORDINATION WITH FEDERAL RESOURCES OR PROGRAMS

Federal, State and Local Partners

In 2005, the Municipality of Anchorage initiated the Salmon in the City initiative in partnership with multiple state, federal and private sector partners. Several projects are underway to restore riparian habitat, reduce barriers to fish passage, and increase stewardship of aquatic resources. Strong partnerships have been developed with resources agencies and the public. Program activities have received national recognition, most recently the Coastal America Partners Award. Additional funding is needed to sustain critical oversight of Salmon in the City projects, maintain coordination with program partners, ensure alignment of program activities with strategic priorities of the Coastal Impact Assistance Fund and the National Fish Habitat Initiative, and increase capacity for community involvement in stewardship activities and project outcome measurement. As a part of the Salmon in the City initiative, the MOA has facilitated the Watershed Task Force to identify and guide creeks-related project within the MOA. This task

force is comprised of members from Federal, State, and Local resource agencies as well as interested non-profits and tribal groups within the MOA. A list of partners is provided below.

Federal Partners
US Fish & Wildlife Service (USFWS)
National Oceanic and Atmospheric Administration (NOAA)
Army Corps of Engineers
US Environmental Protection Agency (EPA)
US Air Force, Elmendorf AFB

State Partners
Alaska Department of Fish & Game
Alaska Department of Transportation
Alaska Department of Natural Resources

Local Partners
Anchorage Waterways Council
Great Land Trust
Alaska Sealife Center
Native Village of Eklutna

COST SHARING OR MATCHING OF FUNDS
CIAP funds will not be used for cost sharing or matching purposes nor will it duplicate project efforts.

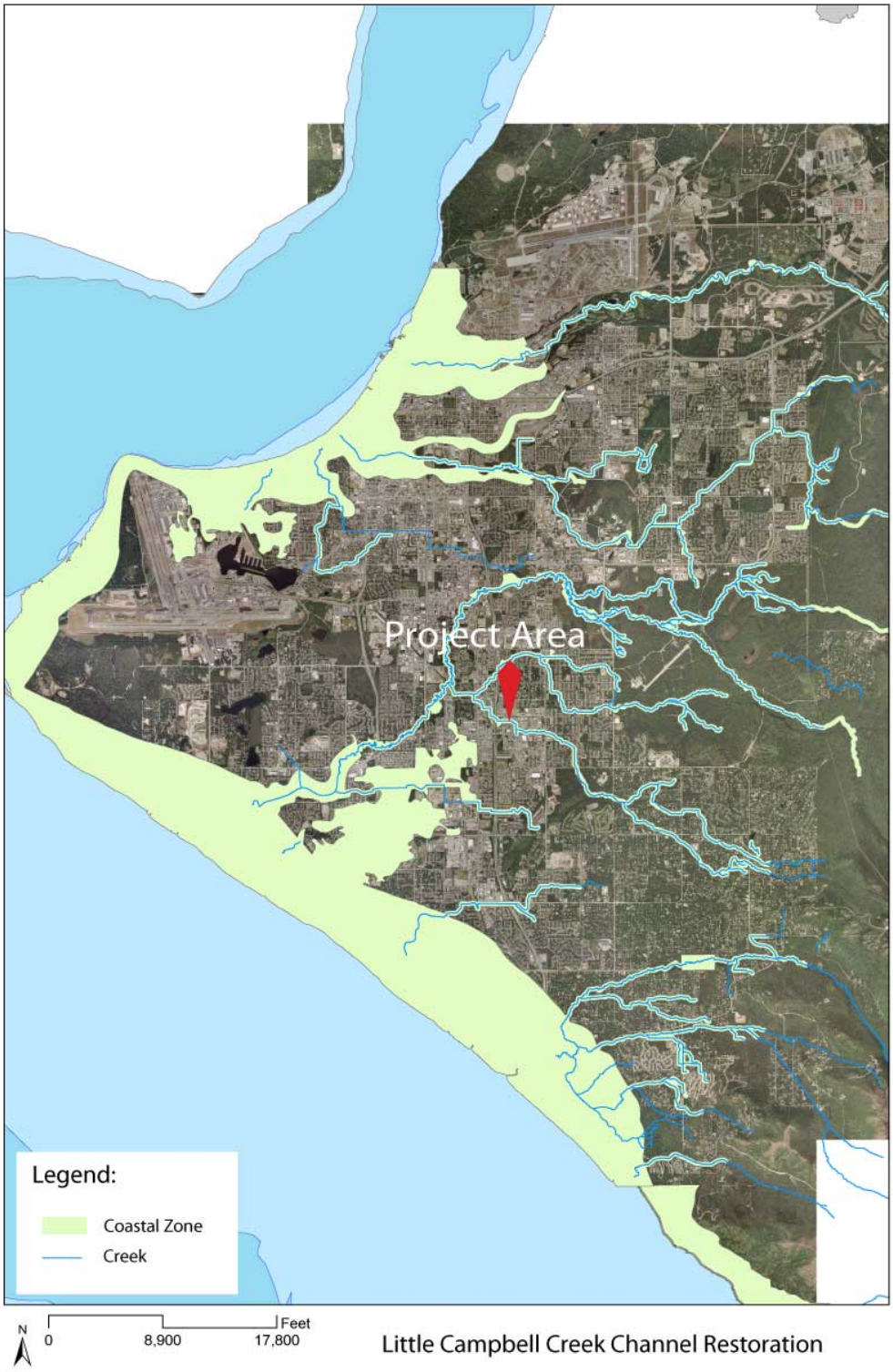


Figure 1. Project area in relation to Anchorage Coastal Zone.

Figures 2 and 3. Before and after pictures of fish passage and channel restoration at Westchester Lagoon. Chester Creek Aquatic Ecosystem Restoration Project.

STATE OF ALASKA
COASTAL IMPACT ASSISTANCE PROGRAM

Municipality of Anchorage

PROJECT TITLE: Campbell Creek Estuary CIAP Conservation Project

PROJECT CONTACT

Contact Name:	Brad Dunker, Municipal Creeks Coordinator
Address:	Municipality of Anchorage, Parks & Recreation Department 632 W. 6th Avenue, Suite 630 PO BOX 196650 Anchorage, AK 99519
Telephone Number:	(907) 343-7526
Fax Number:	(907) 249-7953
Email Address:	DunkerBE@ci.anchorage.ak.us

PROJECT LOCATION
The Campbell Creek Estuary CIAP project is 61 acre land acquisition project located in the Campbell Creek Estuary between Campbell Lake and Cook Inlet in the Municipality of Anchorage, Alaska. The project location is within the Municipality of Anchorage Coastal Zone and is designated as "Important Habitat" in the Anchorage Coastal Management Plan. Please see the attached map located at the end of the document.

PROJECT DURATION
The project will take three years. June 2008 – September 2010.

ESTIMATED COST
The total project cost is $6.5 million. The property has been appraised at $6.125 million. $1,628,000 of CIAP funds will provide a portion of the total project cost.

Spending Estimate ($)				
TOTAL	**Year 1**	**Year 2**	**Year 3**	**Year 4**
$1,628,000	n/a	$1,628,000	n/a	n/a

Funding per Allocation Year of CIAP ($)				
TOTAL	**FY 07**	**FY 08**	**FY 09**	**FY 10**
$1,628,000			1,144,444	483,556

PROJECT DESCRIPTION
The Campbell Creek Estuary CIAP Project will either contract or sub grant with a non profit, non governmental organization (NGO) to acquire fee simple title and secure permanent protection through a conservation easement of 61 acres within and adjacent to the Anchorage

Coastal Wildlife Refuge (ACWR) located in Anchorage, Alaska in the upper Cook Inlet. The acquisition of this property will protect sensitive coastal wetlands, an anadromous fish stream and estuary, and foster wildlife oriented recreation adjacent to Southcentral Alaska's most popular state game refuge. When acquired, the parcel will be transferred to the Municipality of Anchorage with an NGO holding a conservation easement to assure that the property will be protected in perpetuity. The acquisition will conserve declining coastal wetlands and valuable fish and wildlife habitat, eliminate a pending development threat, and avoid the introduction of contaminants into the estuary.

The preservation of this biologically rich stream, salt marsh and estuarine system is essential to maintain biodiversity and provide habitat for anadromous fish and numerous resident and migratory bird species. Conservation of these lands will protect feeding habitat for Cook Inlet beluga whales, listed as endangered under the Endangered Species Act.

Federal, State, and Local Partnerships

The project involves multiple federal, state and local government and non profit partners. It is part of a regional interagency partnership to protect, restore and educate the public about the remaining functioning anadromous fish systems within the State's largest city.

Project Readiness

The property was appraised in March 2009 at $6,150,000. This appraisal was conducted to Uniform Standards of Professional Appraisal Practices (USPAP) and Uniform Appraisal Standards for Federal Land Acquisition (UASFLA). In addition the appraisal was reviewed and approved by a State of Alaska approved review appraiser. The appraisal is available upon request. The title search has been completed and a Phase I environmental hazard assessment will be completed during summer 2009. As of the date of the application $3.1 million has been raised for the project through private donations to the Great Land Trust and competitive grant awards from the National Fish and Wildlife Foundation. An additional $3.6 million in grant funding pending, including the $1,628,000 presented in this CIAP proposal and a competitive grant from the National Oceanic and Atmospheric Administration (NOAA). The total project cost is $6.5 million.

Negotiations with the current property owners have indicated that they prefer all parcels within the project area be conserved. Should funding not be available to complete the acquisition of all parcels included, we will work with the families to either provide incentives to donate the balance of the property through a bargain sale, raise funds privately, or raise funds through other investments, or acquire those parcels within the total amount of funds available.

Ecological Importance

The Campbell Creek Watershed drains approximately 78 square miles, stretches roughly 112 miles, including the forks and major tributaries. Campbell Creek starts from an alpine source high in the Chugach Mountains and flows relatively undisturbed through Bicentennial Park. It then flows through many of Anchorage's residential neighborhoods, with some diversions through commercial areas west of the Seward Highway, before spilling into the marine waters of Cook Inlet.

Campbell Creek Estuary is the last, unprotected functional estuary in Anchorage. It is critical to conserve the high degree of functionality of this estuary to support current population levels of anadromous fish that inhabit the estuary and the watershed. Campbell Creek estuary is surrounded by the 32,500 acre state-owned ACWR of Cook Inlet. Large numbers of anadromous fish, including all five species of North Pacific salmon, migrate through the offshore waters of the ACWR, as well as Campbell Estuary. The intact nature and size of the estuary make it particularly valuable as a physical and functional linkage, coupling salmonid life cycle activities from spawning/rearing habitats in upper Campbell Creek watershed to estuarine nearshore habitat within the ACWR. Conserving the estuary would enhance the integrity of the ACWR and the greater Campbell Creek watershed. The Campbell Creek watershed (Campbell and Little Campbell Creeks) is the most intact, ecologically functional watershed in Anchorage in relation to salmon habitat.

The Anchorage Coastal Wildlife Refuge is used by more than 130 species of waterfowl, shorebirds, and other migratory birds, including nesting bald eagles, trumpeter swans, snow geese and peregrine falcons. More than 60 of these species nest in the refuge and adjoining lands and use nearby parcels including Campbell Creek estuary for nesting, feeding and resting.

The Beluga whale, found in Cook Inlet, Alaska, was recently listed as endangered under the Endangered Species Act. Upper Cook Inlet has experienced and will continue to experience rapid growth with consequential effects on Beluga. Research has shown that Beluga are sensitive to noise and may abandon and/or restrict use of habitats where noise reaches a threshold level. At the same time, noise studies conducted in response to development in Upper Cook Inlet illustrated increasing overlap of noise signatures reducing the amount of "quiet habitat" in Upper Cook Inlet. Campbell Creek Estuary, if preserved from development, could provide refuge habitat (avoidance of shipping and associated noise) for Beluga using the Northeast shore of Upper Cook Inlet.

Beluga whales have been observed by local landowners feeding on anadromous fish in lower Campbell Creek and the Campbell Creek estuary. Friends of the Anchorage Coastal Wildlife Refuge (FACWR) report witnessing small groups of Belugas bringing a newborn to the mouth of Campbell Creek during some years. There are also reports of Beluga occasionally swimming up the creek, through the project parcels in pursuit of salmon. FACWR, the organization is facilitating the upcoming Anchorage Coastal Beluga Survey, a citizen science project which involves multiple agencies and nonprofit organizations.

MEASUREABLE GOALS AND OBJECTIVES

Conservation in perpetuity of the 61 acre Campbell Creek Estuary property through fee simple acquisition and a conservation easement.

PROJECT CONSISTENCY WITH CIAP AUTHORIZED USE

The Campbell Creek Estuary CIAP project is consistent with authorized use #1 which is stated as *"Projects and activities for the conservation, protection, or restoration of coastal areas, including wetlands."* The Campbell Creek Estuary CIAP Project will protect and permanently conserve the Campbell Creek Estuary through fee simple acquisition and a conservation

easement. The project will directly conserve coastal and estuarine habitat for five species of salmon, beluga whales and migratory and resident bird species. The project will directly mitigate coastal development projects.

The landowner is proceeding with plans to develop a 70 home subdivision and a high-density condominium development on the project parcels. This development will occur if the parcels are not purchased for conservation.

The parcels identified in the Campbell Creek Estuary CIAP Project face strong development pressures. Alaska's population is projected to grow by 100,000 new residents in the next 25 years. Residential neighborhoods and industrial development are rapidly occurring resulting in fragmentation of wildlife habitat and natural open spaces. Remaining natural open spaces are diminishing in south-central Alaska, a trend no more visible than in Anchorage, Alaska's largest metropolitan area. A corollary to this development pressure is a loss of critical wetlands. The private landowners for the parcels in question in Campbell Creek Estuary are currently willing to sell the parcel for development if the Municipality of Anchorage is unable to fund the acquisition. Thus, if the parcels are not purchased for conservation now, it is highly likely these valuable coastal properties will be developed.

The area has already been surveyed for ecological benefit and landowner contacted. The landowners have signed a willingness statement to document their readiness to work with the Great Land Trust. We have had the property appraised and the appraisal has been reviewed by a State authorized review appraiser (See attached).

COORDINATION WITH FEDERAL RESOURCES OR PROGRAMS

The U.S. Fish and Wildlife Service's Cook Inlet Coastal Program supported site work and landowner research for the local fish conservation projects. The Service is concerned about severe and increasing threats to coastal wetlands in Anchorage and upper Cook Inlet and strongly supports this project as evidenced by the recent award of a $1 million National Coastal Wetland Conservation Program grant that will be used towards the also provide funding towards the $6.5 million needed to acquire the Campbell Creek Estuary.

The Municipality of Anchorage has submitted a $1 million grant to the FY2010 NOAA Coastal and Estuarine Land Conservation Program (CELCP) for additional funding for the acquisition. Projects funded under this program are expected to be announced in December 2009.
The CIAP funds will not be used as matching funds for the FWS or NOAA programs nor will they duplicate their efforts. The CIAP funding will directly complement the other federal programs.

COST SHARING OR MATCHING OF FUNDS

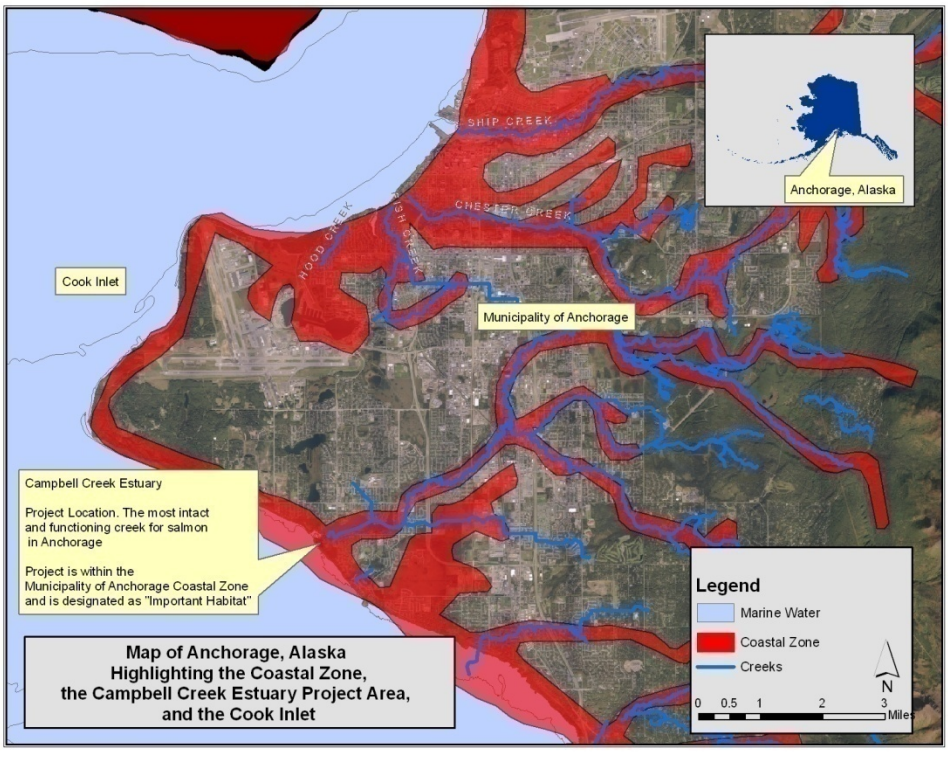
The total budget for this project is $6.5 Million. The $1,628,000 CIAP funds will be used for a portion of the total purchase price needed to acquire the estuary parcels. AS previously mentioned FWS National Coastal Wetlands Conservation Grant for $1 million has been recently awarded for this project. Great Land Trust has successfully raised an additional $1.9 million. There are $3.6 million in outstanding requests. The $3.6 million includes a $1 million request to NOAA Coastal and Estuarine Land Conservation Program. Letters of support for the NOAA and FWS grant proposals are attached. While many funding sources will be used for completion of this project, at this time CIAP funds will not be used as a matching requirement for those funds. If, in the future, they are needed to be used in this manner, a letter will be added from the other Federal agency (the agency charged with administering the program

that includes the cost sharing or matching requirement) indicating that the other agency's program allows the use of Federal funds to meet cost sharing or matching requirements.

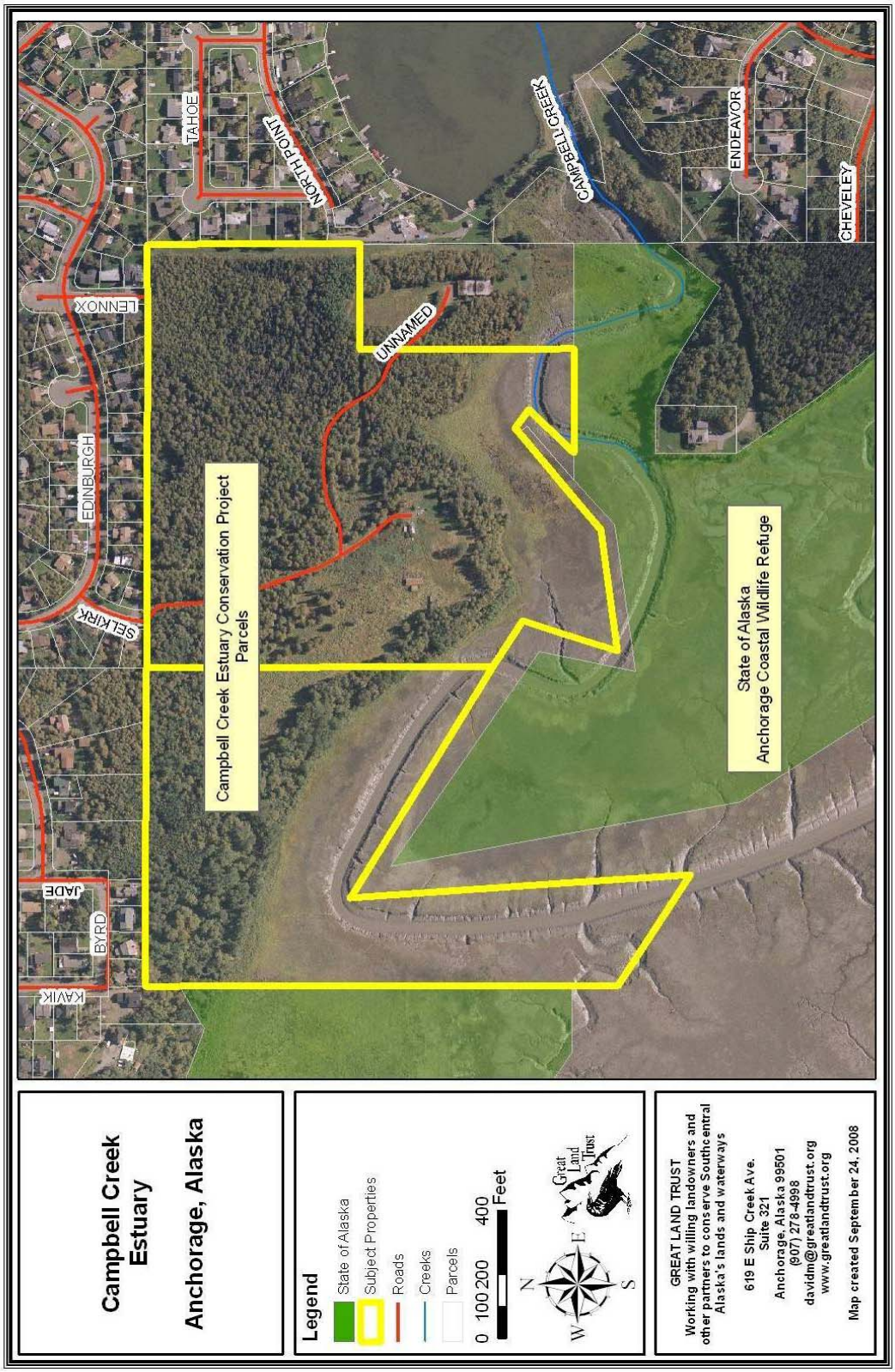
Project Location: Photo

Project location: Campbell Creek Estuary, Anchorage, Alaska

Project Location: Coastal Zone Map



Project Location: Aerial Photo and Parcel Boundaries



Project Location: Photographs

Campbell Creek Estuary looking North showing Campbell Creek and the bluff on the subject property.

Brandt Eagleton and his Dad, Matthew with a 45 pound Campbell Creek Chinook Salmon caught during the 2007 annual Campbell Creek Kids Fish Day.

Campbell Creek Estuary looking west towards the Cook Inlet.

Anchorage Waterways Council's Little Campbell Creek restoration project. The future of Campbell Creek Estuary will directly impact restoration efforts throughout the watershed.

Letter from landowners showing commitment to work on the project

June 9, 2008

Lisa M. Eyler, J.D.
Executive Director
Great Land Trust
619 E. Ship Creek Avenue, Suite 321
Anchorage, AK 99501

Re:

Dear Ms. Eyers:

I, as one of the four individuals who own an undivided one-half interest in the property, agree to allow inspection, appraisal, and survey of the property being offered for consideration under the National Coastal Wetlands Conservation Program Grant. I agree to allow members of the Great Land Trust, National Coastal Wetlands Conservation Program representatives, State of Alaska Department of Natural Resources or their designated staff to inspect the property at any mutually agreeable time for the purposes of this grant proposal. I understand I shall be notified in advance of all inspection visits.

I also understand that this property will not be purchased if negotiations do not reach an amicable agreement or if the property does not meet the needs or qualifications of the National Coastal Wetlands Conservation Program Grant. The property will only be purchased from willing sellers.

Dated: 6-9-08 By: Jerry Unger

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Letter from landowners showing commitment to work on the project

June 9, 2008

Lisa M. Eyler, J.D.
Executive Director
Great Land Trust
619 E. Ship Creek Avenue, St 321
Anchorage, AK 99501

Dear Ms. Eyler:

I, as RECEIVER APPOINTED FOR the four individuals who own an undivided one-half interest in the property, agree to allow inspection, appraisal, and survey of the property being offered for consideration under the National Coastal Wetlands Conservation Program Grant. I agree to allow members of the Great Land Trust, National Coastal Wetlands Conservation Program representatives, State of Alaska Department of Natural Resources or their designated staff to inspect the property at any mutually agreeable time for the purposes of this grant proposal. I understand I shall be notified in advance of all inspection visits.

I also understand that this property will not be purchased if negotiations do not reach an amicable agreement or if the property does not meet the needs or qualifications of the National Coastal Wetlands Conservation Program Grant. The property will only be purchased from willing sellers.

Dated: 6-9-08 By: D B Ruskin
David Ruskin AS RECEIVER FOR KYZER GROUP

IN THE SUPERIOR COURT FOR THE STATE OF ALASKA
THIRD JUDICIAL DISTRICT AT ANCHORAGE

DAVID KYZER, individually and on Behalf of the KYZER GROUP, a general partnership,

Plaintiff,

vs.

DEBORAH KYZER IVY, KAREN KYZER GRAY and PERYLL E. KYZER, and DEBORA IVY, LLC,

Defendants.

Case No. 3AN-05-9242 CI

RECEIVED
MAY 22 2008
Chambers of Judge Stephanie E. Joannides
3rd Judicial District

ORDER RE: APPOINTMENT OF RECEIVER

This court previously appointed David B. Ruskin as receiver in this matter by orders dated April 24, 2008, and May 7, 2008, and the receiver is authorized to manage and conduct the affairs of the Kyzer Group Partnership subject to review by the court.

The court hereby approves the oath submitted by David Ruskin as required by A.S. 09.40.250.

In consideration of the receiver's prior service as discovery master, the receiver's qualification and experience as an attorney and the requirements and restrictions set out in my order of May 7, 2008, no undertaking shall be required at the present time. The court will revisit this issue within 30 days.

Dated this 22nd day of May 2008.

Stephanie E. Joannides
Judge of the Superior Court

Kyzer et al. v. Kyzer et al.
Order Re Appointment of Receiver

I certify that on 5.23.08 a copy of the above was mailed/faxed/handed to each of the following at their address of record
Judicial Assistant

Ruskin/Bankston
Cole/Weidner
Pag

Letters of Support

Municipality of Anchorage

P.O. Box 196650 Anchorage, AK 99519-6650 http://www.muni.org

Healthy Parks Healthy People

Parks & Recreation Department

June 10, 2008

To whom it may concern:

I am writing this letter in support of the National Coastal Wetlands Conservation Grant proposal to conserve Campbell Creek Estuary. As Director of Parks and Recreational Services, I recognize the significance of the Estuary to the community of Anchorage and support this collaborative effort to protect it.

Ten years ago, the Municipality worked with Great Land Trust, resource agencies and other community groups to identify Campbell Creek Estuary for permanent protection. Regional and municipal coastal management plans and municipal park plans highlight its importance for wildlife and people and prioritize it for conservation. The Estuary provides a valuable wildlife corridor and habitat buffer for diverse species of fish, birds and large mammals.

The Municipality is willing to hold title to this land in fee simple and manage it as a natural area with a conservation easement held by the Great Land Trust.

Thank you for your efforts to further this important conservation project. I look forward to working with our project partners to conserve Campbell Creek Estuary.

Sincerely,

Jeff Dillon
Director of Parks and Recreation

GREAT LAND TRUST
SOUTHCENTRAL ALASKA

Working with willing landowners and other partners to conserve Southcentral Alaska's lands and waterways.

'OUR LAND. YOUR TRUST.

Board of Directors

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Caryn Rea

Marty Rutherford

Ken Taylor

Advisory Board

Susan Ruddy

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Staff

Phil Shephard
Executive Director

David Mitchell
Conservation Director

619 E. Ship Creek Ave
Suite 321
Anchorage, AK 99501
tel (907) 278-4998
fax (907) 278-4997
glt@alaska.net
www.greatlandtrust.org

February 9, 2009

NOAA Coastal and Estuarine Land Conservation program

To Selection Committee:

Great Land Trust pledges cash and in kind support for the NOAA Coastal and Estuarine Land Conservation program grant for the acquisition of Campbell Creek estuary in Anchorage Alaska. This estuary provides scarce coastal wetland habitat for numerous wildlife species and is a remarkable public educational and recreational resource for Alaskans.

Great Land Trust is based in Anchorage and is Southcentral Alaska's regional land trust. It is an independent nonprofit organization dedicated to working in partnership with landowners and other partners to conserve lands, waterways, natural ecosystems and signature landscapes that Alaskans hold dear.

The Trust welcomes the opportunity to partner with the State, the Municipality of Anchorage and other local organizations to complete this important project. With our funds dedicated to wetland conservation in Anchorage and working with our community partners and private donors, we will provide funds for land acquisition, the conservation easement stewardship fee and in kind support for this project.

We look forward to working with you and your staff to meet this key conservation goal.

Sincerely,

John Baker
Vice-Chair, Board of Directors, Great Land Trust

STATE OF ALASKA

DEPARTMENT OF FISH AND GAME
Division of Sport Fish

SARAH PALIN, GOVERNOR

333 Raspberry Road
Anchorage, AK 99518-1565
PHONE: (907) 267-2277
FAX: (907) 267-2464

February 11, 2009

Jeff Dillon
Director
Municipality of Anchorage Department of Parks and Recreation
P.O. Box 196650
Anchorage, AK 99519-6650

Dear Mr. Dillon:

The Alaska Department of Fish and Game (ADF&G) supports your effort to preserve important fish and wildlife habitat at Campbell Creek estuary in the Anchorage Coastal Wildlife Refuge.

The Anchorage Coastal Wildlife Refuge is a unique urban wildlife refuge that supports over 100 species of birds, four species of anadromous fish, and several species of mammals including brown and black bears, moose, coyotes, lynx, red fox, mink, weasel, beaver and muskrat. In addition to its fish and wildlife values, the refuge serves an important community function for residents and visitors that birdwatch, hike, ski, hunt and pursue other forms of recreational opportunities within its boundaries.

One of the greatest threats to the integrity of the refuge and its important fish and wildlife values is surrounding urban development and related impacts. The property you are trying to protect provides a vitally important buffer to the estuary and adjacent salt marsh.

We look forward to working with the you to complete this important project and implement effective management strategies that will provide lasting conservation benefits.

If you have any questions, please do not hesitate to contact me. Thank you.

Sincerely,

Mark N. Kuwada
Habitat Biologist
Alaska Department of Fish and Game

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
222 W. 7th Avenue, #43
Anchorage, Alaska 99513-7577

June 19, 2008

To Whom It May Concern:

The National Marine Fisheries Service (NMFS) enthusiastically endorses the application by the Greatland Trust for a NOAA CELCP (Coastal and Estuarine Land Conservation Program) grant to acquire and preserve Campbell Creek Estuary in Anchorage, Alaska. The Campbell Creek Estuary is located within the Municipality of Anchorage (MOA) in Upper Cook Inlet, an area experiencing rapid development, including permanent loss of intertidal and subtidal habitat. The Campbell Creek Estuary, part of the greater Upper Cook Inlet Estuary, supports 24 species of marine fish, including large runs of all five species of North Pacific salmon. Additionally, Cook Inlet supports a small population of belugas that has been shown to be geographically isolated and genetically distinct from other Alaskan beluga stocks. The Cook Inlet beluga population was designated as depleted under the Marine Mammal Protection Act in 2000 (65 FR 34590). NMFS received a petition to list Cook Inlet belugas as endangered under the Endangered Species Act (ESA) (71 FR 44614, August 7, 2006). After a second Status Review, NMFS proposed listing the Cook Inlet beluga stock as endangered under the ESA (72 FR 19854, April 20, 2007).

The Campbell Creek watershed (Campbell and Little Campbell Creeks) is the healthiest in the MOA, and supports wild runs of Chinook, coho, and sockeye salmon. It is also the focus of several conservation initiatives, including: purchase of riparian parcels, stream habitat restoration, juvenile fish studies, water quality monitoring, and environmental education and outreach. Campbell Creek is an integral part of the Anchorage community, and is the focus of an annual Kid's King Salmon Fishing Day and an annual Creek Cleanup Day.

The Campbell Creek Estuary Protection Project is an outstanding example of a collaborative effort by private and public entities to realize a critical conservation goal. NMFS places the preservation of estuarine habitat as a primary conservation goal in Upper Cook Inlet, and is pleased to partner with the State of Alaska, the MOA, Great Land Trust and local community groups to complete this important project to protect diverse estuarine habitat for marine and anadromous fish.

The purchase of this parcel (Phase 1), adjacent to the Anchorage Coastal Wildlife Refuge, is part of a muliti-phase effort to purchase a total of 61 acres of estuarine habitat and upland buffer at the mouth of Campbell Creek, as well as the aforementioned conservation efforts in the upper watershed. Current landowners have indicated a desire to sell to interested buyers, including proponents of residential development. In addition, Phase 2 of the Campbell Creek Estuary Protection Project is being considered for funding via compensatory mitigation from the Port of Anchorage Expansion Project; a project four miles north of Campbell Creek that will permanently fill 130 acres of estuarine habitat at the mouth of Ship Creek.

We look forward to working closely with you on this project. Erika Ammann is the NMFS contact for this project and can be reached at 907 271-5118 or erika.ammann@noaa.gov.

Sincerely,

Jeanne Hanson
Acting Assistant Regional Administrator,
for Habitat Conservation

ANCHORAGE WATERWAYS COUNCIL

P.O. Box 241774 • Anchorage • Alaska • 99524-1774 • Phone 907-272-7335 • Fax 907-277-9207
www.anchoragecreeks.org • awc@anchoragecreeks.org

Audubon Alaska

715 L St. Suite 200
Anchorage, AK 99501
June 9, 2008

To Whom It May Concern:

We would like to strongly recommend the funding of the Campbell Creek Estuary Conservation Project. The State of Alaska's interest in acquiring in-holdings within the Anchorage Coastal Wildlife Refuge provides an exciting opportunity to protect the most productive coastal estuary in the Municipality of Anchorage.

As the U.S. Partner for BirdLife International, the National Audubon Society is working to identify a network of sites known as Important Bird Areas (IBA), which provide essential habitats for birds. (http://www.audubonalaska.org/BirdSci_IBAs.html). The IBA program is a global effort to identify areas that are most important for maintaining bird populations, and it focuses conservation efforts at protecting these sites. Two IBAs, the Anchorage Coastal IBA and the Campbell Creek IBA, have been identified that include the Campbell Creek estuary. The Anchorage Coastal IBA is of continental significance providing habitat to thousands of migrating snow geese as well as over 220 bird species. The Campbell Creek estuary is of statewide significance and includes habitat for numerous bird species of concern, including several on Audubon's WatchList (http://www.audubonalaska.org/pdfs/WatchList2005.pdf).

The Campbell Creek estuary is a highly productive coastal and wetland area and merits protection, particularly in light of the rapid urbanization of many forested and wetland habitat areas in the Anchorage bowl area. Audubon Alaska would be pleased to assist in anyway we can to advance this worthwhile project.

Pat Pourchot
Senior Policy Representative
Audubon Alaska

February 10, 2009

NOAA Coastal and Estuarine Land Conservation Program (CELCP)

To Selection Committee:
The Anchorage Waterways Council (AWC) would like to voice our strong support for the proposal to acquire and conserve the Campbell Creek Estuary.

The AWC is a nonprofit 501(c)3 membership organization dedicated to the protection, restoration, and enhancement of Anchorage's waterways. The Campbell Creek project is a tremendous opportunity to involve both private landowners and numerous Anchorage residents. The permanent conservation of this area will secure important anadromous fish habitat. The estuary also provides important habitat for waterfowl, moose, and other mammals.

The AWC has spent a considerable amount of time and money each year since 1984 towards the protection of Campbell Creek and its watershed through our creek protection and outreach efforts. The AWC enthusiastically supports this proposal which will conserve one of the last remaining estuaries in Anchorage.

Sincerely,

Holly Kent
Executive Director

Letter from Alaska State Historic Preservation Office

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF PARKS AND OUTDOOR RECREATION
OFFICE OF HISTORY AND ARCHAEOLOGY

SARAH PALIN, GOVERNOR

550 W. 7TH AVENUE, SUITE 1310
ANCHORAGE, ALASKA 99501-3565
PHONE: (907) 269-8721
FAX: (907) 269-8908

February 13, 2009

File No.: 3130-1R NOAA

SUBJECT: Campbell Creek Estuary Conservation Easement

Phil Shephard
Executive Director
Great Land Trust
619 E. Ship Creek Ave, Ste 321
Anchorage, AK 99501

Dear Mr. Shephard,

The Alaska State Historic Preservation Office (AK SHPO) received your correspondence on February 10, 2009 and has reviewed the referenced project under Section 106 of the National Historic Preservation Act. We concur with your finding of No Historic Properties Affected. In the future, should any development of the property be planned, we recommend Great Land Trust and the Municipality of Anchorage conduct an archaeological survey as the project area does contain land with a high potential for finding prehistoric sites.

Please contact Tracie Krauthoefer at 269-8722 if you have any questions of if we can be of further assistance.

Sincerely,

Judith E. Bittner
State Historic Preservation Officer

JEB:tak

GREAT LAND TRUST
SOUTHCENTRAL ALASKA

Working with willing landowners and other partners to conserve Southcentral Alaska's lands and waterways.

YOUR LAND. YOUR TRUST.

619 E. Ship Creek Ave
Suite 321
Anchorage, AK 99501
tel (907) 278-4998
fax (907) 278-4997
glt@alaska.net
www.greatlandtrust.org

Judith E. Bittner
Chief, Office of History and Archaeology, and State Historic Preservation Officer
550 West 7th Ave., Suite 1310
Anchorage, AK 99501-3665

Feb 9, 2009

Dear Ms Bittner,

The Great Land Trust, in partnership with the Municipality of Anchorage, is pursuing purchase of two parcels in Anchorage located at the estuary of Campbell Creek. These parcels would become part of Anchorage's park system and the Trust would hold a conservation easement on them. We would like to request section 106 review of these parcels from you and we request your concurrence with the finding of "no historic properties effected". We are requesting funding from NOAA for the project and the contact people at NOAA are Elaine Vaundrevil at 301-713-3155 ex 103 or Roxanne Thomas at extension 119. The legal description of the property is:

Parcel 1
MOA Parcel Number: 01124159
Legal Description: T12N R4W SEC15 LOT 1 PTN
Address: 9531 Selkirk Drive

Parcel 2
MOA Parcel Number: 01130102
Legal Description: T12N R4W SEC15 LOT 2 PTN

In our research regarding our grant proposal for the NOAA funds, we contacted Aaron Leggett. He provided the following information, which we included in our proposal:

Campbell Creek was a very important site for the native peoples of the Anchorage area because of the abundant fish resource and the importance for navigation and viewing wildlife and other native peoples. According to Aaron Leggett, Cultural Historian for the Dena'ina people, there are traditional fish camps at the site, which was called "King-Char-Weet-Net". Campbell Creek estuary is bounded by unusually high bluffs, which are included as part of this project. These bluffs were called "King-Char-Weet" which means "Crying Ridge". It was named "Crying Ridge" because it was a promontory where you could go up and look off a long ways into the distance. You could look at the landscape and reflect and remember loved ones. Traditionally, Point Campbell was a landmark and used for navigation. Campbell Creek was one of the last places in the Anchorage bowl where Dena'ina People went to for their traditional fishing lifestyle, as recently as 50 years ago. Purchase of this property through the use of CELCP funds would conserve this critical piece of cultural history and prevent it's development into condominiums and high density housing.

We have also included a map of the tax lots for this review. If you have any questions, I can be reached at 907-278- 4992. Thank you for your consideration of this matter.

Sincerely,

Phil Shephard
Executive Director
Great Land Trust

STATE OF ALASKA
COASTAL IMPACT ASSISTANCE PROGRAM

Municipality of Anchorage

PROJECT TITLE: South Fork Little Campbell Creek Mitigation of Impacts to Fish Passage

PROJECT CONTACT

Contact Name: Brad Dunker
Address: 632 W. 6th Avenue, Suite 630
PO BOX 196650
Anchorage, AK 99519-6650
Telephone Number: (907) 343-7526
Fax Number: (907) 249-7953
Email Address: dunkerbe@muni.org

PROJECT LOCATION

The Little Campbell Creek Fish Passage project is located at the Alaska Zoo. See project map included as Figure 1.

PROJECT DURATION

2 years

ESTIMATED COST

Spending Estimate ($)				
TOTAL	**Year 1**	**Year 2**	**Year 3**	**Year 4**
$846,620	$140,000	$706,620		

Funding per Allocation Year of CIAP ($)				
TOTAL	**FY 07**	**FY 08**	**FY 09**	**FY 10**
$846,620			$846,620	

PROJECT DESCRIPTION

The South Fork Little Campbell Creek Fish Passage project will restore a portion of Little Campbell Creek by replacing a water diversion structure that currently has the capability to completely dewater the downstream reach of the creek and restore an upstream portion of the creek channel leading to the diversion structure, thus restoring fish passage to about 1.5 miles of creek.

Campbell Creek is the largest watershed within the developed areas of Anchorage. The creek runs from the front range of the Chugach Mountains in the east to Cook Inlet in the west for a total creek length of about 17 miles. The project areas are entirely within the Anchorage coastal

zone boundaries. Historically, Campbell Creek supports the largest run of coho salmon in Anchorage each year. While the creek is impounded at its mouth, it has a functioning fish ladder that provides fish passage into the creek. This project is located within the Anchorage coastal zone and is listed by the Alaska Department of Fish & Game as an anadromous stream. As such, an improvement to fish passage in this area has a direct benefit to the fish and wildlife in the coastal environment.

Little Campbell Creek runs for approximately 4 miles from the mid-hillside area of Anchorage to the confluence with Campbell Creek west of the Seward Highway. Historically, the creek supports a small coho salmon run. Currently, Little Campbell Creek primarily supports the larger run in Campbell Creek by providing juvenile salmon rearing habitat. The proposed project is one of several projects that will jointly result in about 3.5 miles of improved fish passage between the confluence of Campbell Creek and Little Campbell Creek to the boundary of the Alaska Zoo. The other projects include a culvert replacement planned for 2010 on Abbott Road (Alaska Department of Transportation project) and the Municipality of Anchorage's D & S Concrete (approximately 300 linear feet of creek channel restoration) project planned for the fall of 2010 This project is based on recommendations from existing plans or studies including the Little Campbell Creek Watershed Management Plan (2006), the Gray Culverts analysis by the Alaska Department of Fish and Game (in publication review), and the South Fork Little Campbell Creek Fish Passage Assessment completed by HDR Alaska (2008). Each plan or study is summarized below.

The Little Campbell Creek Watershed Management Plan was completed in 2006 to make recommendations on how to improve water quality and fish habitat and reduce development impacts on Little Campbell Creek. The plan makes a series of recommendations and identified areas of concern. Those areas of concern are tin part he subject of this application.

The Gray Culverts Analysis funded through the Salmon in the City initiative and conducted in partnership by the Alaska Department of Fish and Game analyzed 56 culverts throughout Anchorage for fish passage. This publication is currently in internal publication review, however, it identified all of the culverts subject to this application as significant barriers to fish passage. Given this data, this application proposed to start from the downstream end and work upstream to restore fish passage.

The South Fork Little Campbell Creek Fish Passage Assessment was conducted in partnership with the US Fish & Wildlife Service to analyze the water diversion structure and vicinity of Little Campbell Creek and develop a recommended conceptual plan for restoration. This conceptual plan is the preferred alternative of this study and is the subject of this application. See Figure 2 for existing conditions and Figure 3 for conceptual design of the preferred alternative.

The location of this project also provides the opportunity for interpretation of the improvements to the creek channel and riparian areas through the installation of interpretive signage and other outreach programs. CIAP project funds would be used to develop interpretive panels to place along public areas of the project. This will provide public information on the importance of the creek and wildlife as well as provide an opportunity to recognize funding agencies and programs.

Key Milestones

Implementation of the preferred alternative of the South Fork Little Campbell Creek Fish Passage Assessment (2009):

Project Year 1

- RFP for refinement of conceptual design.
- Award bid to contractor for construction drawings
- Begin design and permitting.

Project Year 2

- Prepare final bid documents and bid project
- Complete construction activities
- Continue outreach and education

Project Year 3

- Complete assessment and monitoring
- Complete outreach and education
- Complete final report and close out project

MEASUREABLE GOALS AND OBJECTIVES

The South Fork Little Campbell Creek Fish Passage project will restore fish passage to about 1.5 miles of creek channel and provide juvenile salmon rearing habitat within the restored creek channel above the diversion structure.

Project Year 1:

- Complete contract for design services through the Municipality's Procurement process and consistent with Federal procurement regulations as applicable.
- Begin design and engineering for construction drawings.

Project Year 2:

- Complete construction document and bid project for construction.
- Complete construction activities in the fall of Project Year 2 due to closure of construction activities during salmon run and spawning (generally July 1- September 31). Estimated construction time is 60 days under favorable conditions.
- Work with the Alaska Zoo Public Information staff to interpret the restoration project and schedule one event to talk about salmon restoration.

Project Year 3:

Complete project monitoring and assessment and close out project with submission of a final report.

PROJECT CONSISTENCY WITH CIAP AUTHORIZED USE

The South Fork Little Campbell Creek Fish Passage project is consistent with authorized use #2, which is stated as "Mitigation of damage to fish, wildlife or natural resources."

The South Fork Little Campbell Creek Fish Passage project will restore the ecological function of the creek by replacing a water diversion structure that has the capacity to dewater the downstream reach of the creek, restore the creek channel to its historic creek bed, and replace failing culverts within the Alaska Zoo property to allow passage for returning coho salmon and

other resident fish species. Replacement culverts will be designed to meet bankfull requirements for flood control and fish passage that reflects the natural habitat and gradient of the original creek channel. This project will effectively mitigate the impacts created by the water diversion structure.

Returning salmon are important to both the freshwater coastal areas and the marine coastal areas. In fresh water, salmon provide essential marine nutrients that support the aquatic and riparian habitat of creeks in Anchorage. In the marine environment, returning salmon provide an essential food source for the Beluga whales that are routinely viewed off the shores of Anchorage in the summer months. The recent listing of this whale population under the Endangered Species Act has made salmon restoration projects in Anchorage more valuable.

Brief example of past creek channel restoration project: Chester Creek Aquatic Ecosystem Restoration Project

Similar culvert replacement projects have proven to restore fish passage and similarly mitigate impacts to fish, wildlife and natural resources. For example, in 2008, the Municipality began construction on the Chester Creek Aquatic Ecosystem Restoration Project to restore the mouth of Chester Creek. This project entailed removing the underground pipes that have served as the outfall of Chester Creek for more than 20 years and restore the creek channel and weir at Westchester Lagoon to the surface. The new creek channel provides riffles, pools and other natural features found in creeks in Anchorage. The Tony Knowles Coastal Trail is now bridged over the new creek channel and a 15-foot wide concrete box culvert conveys the outfall of Chester Creek under the Alaska Railroad tracks into Cook Inlet. This project will provide monitored fish passage into Chester Creek to help maintain the existing historic run of coho salmon in Chester Creek. Currently, the population of the run in 2008 was about 400 fish. The estimated capacity of an Alaska stream system comparable to Chester Creek is about 1200-1500 fish. As of August 9, 2009, there were 986 salmon counted entering the creek resulting in twice the number of fish entering Chester Creek to spawn than in 2008. See Figures 4 and 5 for before and after pictures.

COORDINATION WITH FEDERAL RESOURCES OR PROGRAMS

Federal, State and Local Partners

In 2005, the Municipality of Anchorage initiated the Salmon in the City initiative in partnership with multiple state, federal and private sector partners. Several projects are underway to restore riparian habitat, reduce barriers to fish passage, and increase stewardship of aquatic resources. Strong partnerships have been developed with resources agencies and the public. Program activities have received national recognition, most recently the Coastal America Partners Award. Additional funding is needed to sustain critical oversight of Salmon in the City projects, maintain coordination with program partners, ensure alignment of program activities with strategic priorities of the Coastal Impact Assistance Fund and the National Fish Habitat Initiative, and increase capacity for community involvement in stewardship activities and project outcome measurement. As a part of the Salmon in the City initiative, the MOA has facilitated the Watershed Task Force to identify and guide creeks-related project within the MOA. This task force is comprised of members from Federal, State, and Local resource agencies as well as interested non-profits and tribal groups within the MOA. A list of partners is provided below.

Federal Partners
US Fish & Wildlife Service (USFWS)
National Oceanic and Atmospheric Administration (NOAA)
Army Corps of Engineers
US Environmental Protection Agency (EPA)
US Air Force, Elmendorf AFB

State Partners
Alaska Department of Fish & Game
Alaska Department of Transportation
Alaska Department of Natural Resources

Local Partners
Anchorage Waterways Council
Great Land Trust
Alaska Sealife Center
Native Village of Eklutna

COST SHARING OR MATCHING OF FUNDS
CIAP funds will not be used for cost sharing or matching purposes nor will it duplicate project efforts.

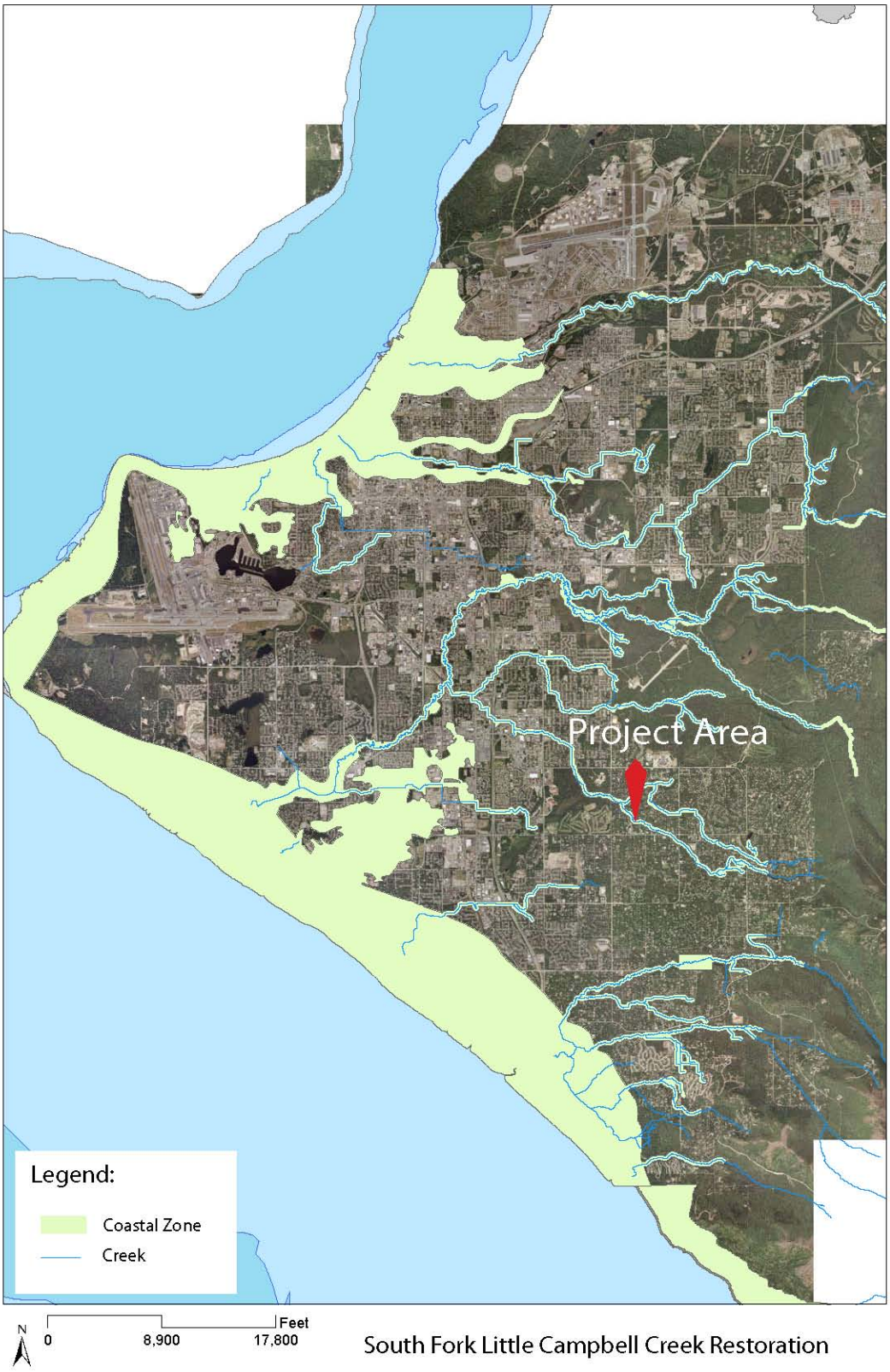

Figure 1. Project area in relation to Anchorage Coastal Zone.

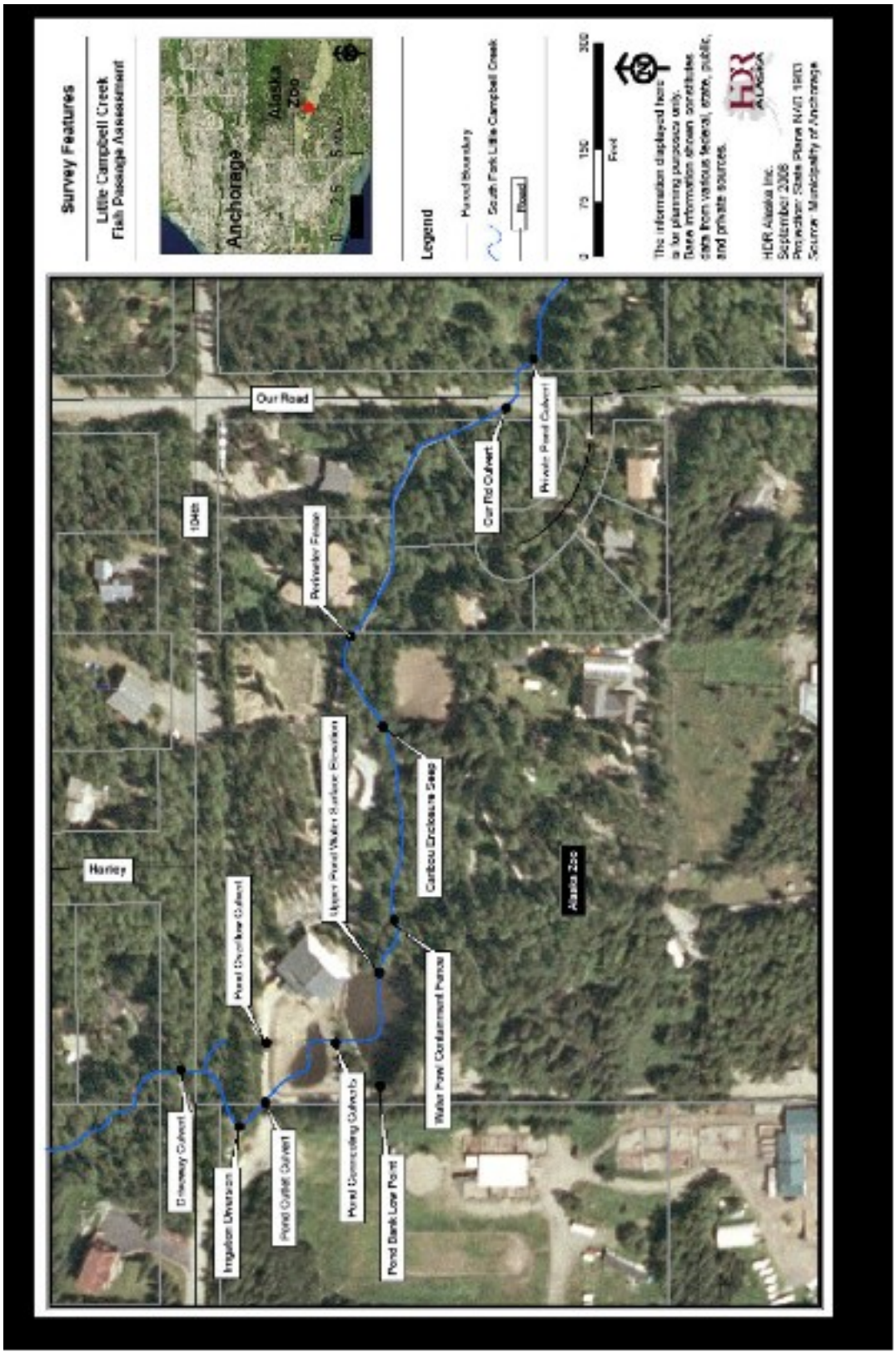

Figure 2. Existing conditions and project site.

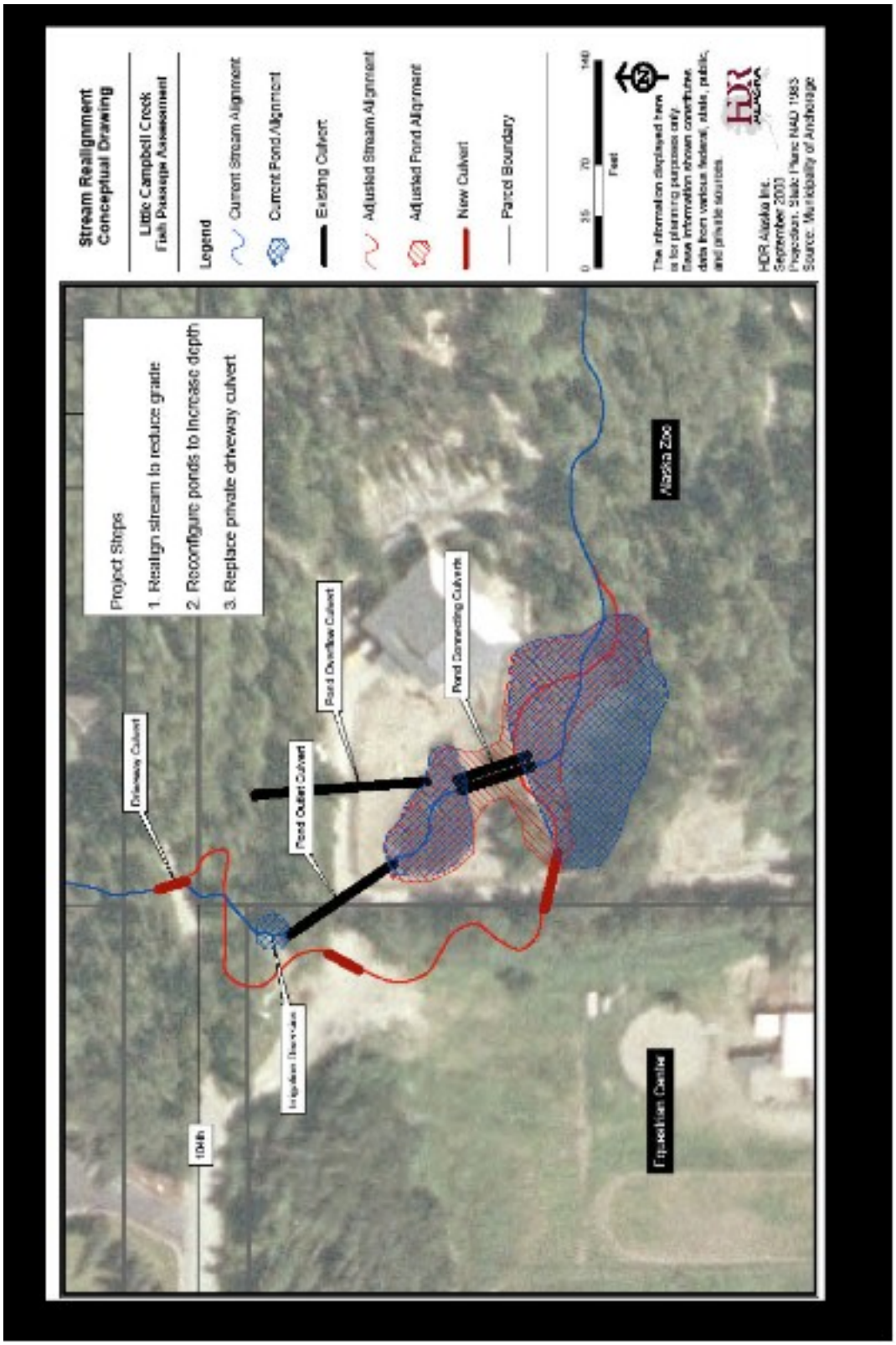

Figure 3. Conceptual drawing of proposed project from South Fork Little Campbell Creek Fish Passage Assessment (2009).

Figures 4 and 5. Before and after pictures of fish passage and channel restoration at Westchester Lagoon. Chester Creek Aquatic Ecosystem Restoration Project.

Alaska Coastal Impact Assistance Program
Project Solicitation

APPLICATION: Landowner's Permission

Title of Proposed Project

South Fork Little Campbell Creek Fish Passage Project

Total amount of funds requested through the Coastal Impact Assistance Program: $_____

Project Location: Various sites along Little Campbell Creek including the Alaska Zoo.

Organization Submitting Application

Name	Municipality of Anchorage
Complete Mailing Address	632 W. 6th Avenue, Suite 630 PO BOX 196650
City, ST, ZIP Code	Anchorage, AK 99519-6650
Phone	(907) 343-4504
Fax	(907) 249-7953

Landowner's Contact Information

Contact Name and Title	Pat Lampi, Executive Director
Agency or Organization	Alaska Zoo
Complete Mailing Address	4731 O' Malley Road
City, ST, ZIP Code	Anchorage, AK 99507
Phone	(907) 346-2133
Fax	
E-Mail Address	plampi@alaskazoo.org

Authorization

As the landowner, or legally authorized agent, of the property referenced above under "Project Location", I give permission to Municipality of Anchorage to apply to the State of Alaska for inclusion in the Alaska Coastal Impact Assistance Program (CIAP) and for funding by CIAP to conduct the proposed project listed above on the property listed under "Project Location".

Signature of landowner or legally authorized agent: Patrick S. Lampi

Printed Name and Title: Patrick Lampi, Executive Director Date 4/1/09

DNR/Division of Coastal and Ocean Management
March 2009

STATE OF ALASKA
COASTAL IMPACT ASSISTANCE PROGRAM

Municipality of Anchorage

PROJECT TITLE: Chester Creek Channel Restoration to Mitigate Impacts to Fish Habitat

PROJECT CONTACT

Contact Name: Brad Dunker
Address: 632 W. 6th Avenue Suite 630
PO BOX 196650
Anchorage, AK 99519-6650
Telephone Number: (907) 343-4504
Fax Number: (907) 249-7953
Email Address: dunkerbe@muni.org

PROJECT LOCATION

The proposed project is located at the intersection of DeBarr Road and Muldoon Road in east Anchorage. See Figure 1 for map.

PROJECT DURATION

Project Start Date: April 1, 2010
Project End Date: September 31, 2012

ESTIMATED COST

Spending Estimate ($)				
TOTAL	**Year 1**	**Year 2**	**Year 3**	**Year 4**
$1,485,563	$376,900	$1,092,913	$15,750	

Funding per Allocation Year of CIAP ($)				
TOTAL	**FY 07**	**FY 08**	**FY 09**	**FY 10**
$1,485,563				$1,485,563

PROJECT DESCRIPTION

The upper reaches of Chester Creek have been heavily impacted by development and urbanization since the 1950s. Along some reaches, the creek has been channelized to accommodate development and even put into underground pipes that run beneath subdivisions. These significant alterations in the creek channel have resulted in loss of fish habitat, barriers to fish passage for returning salmon, poor water quality, and increased flood hazards for both upstream and downstream residents. This project proposes to mitigate these impacts, in part, by restoring the ecological function of the creek channel at the site of the old Alaska Greenhouse by restoring natural meanders in

the creek, restoring the riparian area and function by platting creek right-of-way, improving fish passage under Muldoon Road, and providing quality rearing habitat for juvenile salmon.

The Municipality of Anchorage (MOA) purchased the subject property (known as "the greenhouse property") in 2006. The parcel is a total of about 21 acres extending from Muldoon Road in the west to the boundary of Ft. Richardson Army Base in the east. Acquisition of the land was primarily for two purposes: 1.) Restore Chester Creek channel within the property boundaries, and 2.) Provide 12 acres of parkland along the boundary with Ft. Richardson. Upon acquisition of the property, the MOA began a site analysis in partnership with the US Fish & Wildlife Service and contracted KPB Architects to complete the *Chester Creek Restoration Mildoon Greenhouse Property Planning Report (2007).* Based on the recommendations in that report, the MOA contracted HDR Alaska to complete the preliminary engineering for the project. The outcome of the preliminary engineering investigation was the *Chester Creek at Muldoon Road Channel Restoration Design Study Memorandum* (2008) in which various Federal, State and Local agencies provided input into the conceptual design. Conceptual restoration drawings are attached as Figures 2 and 3.

Currently, the historic salmon run into Chester Creek is about 400 fish per year. A typical creek system of this size in Alaska could support up to 1200 to 1500 fish per year. Historic use of the area by Dena'ina peoples indicates that the salmon runs were naturally much higher prior to Anchorage development. In addition to the low returning numbers, salmon spawning habitat has been significantly reduced. The only remaining spawning habitat along Chester Creek is a small area near the University of Alaska-Anchorage and near the headwaters on Ft. Richardson east of Muldoon Road. These areas comprise a very small percentage of the reaches in the creek.

The Chester Creek Channel Restoration project will restore about 800 linear feet of creek channel, provide improved fish passage under Muldoon Road by replacing the existing culvert with a more natural streambed and eliminating barriers, improving water quality through the upgrade of failing culvert infrastructure, restore juvenile salmon rearing habitat through in-creek and riparian zone restoration and preservation, and improved flood control through culvert re-design.

<u>Key Milestones</u>

Prior work (not funded through CIAP):

- June 2009- complete platting process to dedicate creek right-of-way on the property based on the conceptual report developed by KPB Architects and HDR Alaska
- Summer/Fall 2009- prepare Request for Proposals for design services to develop construction drawings

Project Year 1:

- Begin design process to develop construction drawings
- Enter permitting process.

- Complete permitting process and finalize construction drawings. No construction activities permitted due to returning salmon (approximately July 15- September 31)

Project Year 2:

- Begin construction on creek channel.
- Complete construction activities during low water periods.
- Monitoring and assessment of the restoration efforts.
- September 31, 2012- project completion and final report.

MEASUREABLE GOALS AND OBJECTIVES

The Chester Creek Channel Restoration project will restore 800 linear feet of creek channel, provide improved fish passage under Muldoon Road by making fish passage more natural, restore juvenile salmon rearing habitat through in-creek and riparian zone restoration and preservation, and improved flood control through culvert re-design.

Project Year 1:

- Complete platting of creek right-of-way
- Complete design and permitting processes including acquiring permits from the Army Corps of Engineers, Alaska Department of Fish & Game, Flood Hazard Permit, and Coastal Zone Permit.
- Finalize construction drawings and bid project through Municipal Purchasing and Procurement procedures. These procedures are consistent with the Federal requirements for procurement services.

Project Year 2:

- Complete construction of creek channel restoration, culvert, and riparian zone restoration.
- Complete monitoring and assessment and final project report.

PROJECT CONSISTENCY WITH CIAP AUTHORIZED USE

The Chester Creek Channel Restoration project is consistent with authorized use #2 which is stated as *"Mitigation of damage to fish, wildlife, or natural resources."*

The Chester Creek Channel Restoration project will help mitigate the impacts of development and creek channelization. This project will restore the ecological function of the creek channel in the proposed project area by restoring natural meanders in the creek channel, matching cobble size to the native cobble size of the creek to improve juvenile salmon rearing habitat, fish passage, and water quality, improve fish passage under Muldoon Road by creating a culvert that is designed to meet bankfull requirements for fish passage and conveyance of flood waters in a more natural state. As indicated above, Chester Creek is a habitat limited system for returning salmon. Access to high quality water and quality spawning and rearing habitat is critical to the maintenance and recovery of the limited salmon runs currently returning to the creek.

Although this project is not located within the coastal zone, the benefits of the project will be to the fish, wildlife and natural resources of coastal areas. Returning salmon are important to both the freshwater coastal areas and the marine coastal areas. In fresh

water, salmon provide essential marine nutrients that support the aquatic and riparian habitat of creeks in Anchorage. In the marine environment, returning salmon provide an essential food source for the Beluga whales that are routinely viewed off the shores of Anchorage in the summer months. The recent listing of this whale population under the Endangered Species Act has made salmon restoration projects in Anchorage more valuable.

Similar past creek channel restoration projects, such as the Chester Creek Creekside Center Channel Restoration project, have proven successful at mitigating impacts to fish, wildlife, and natural resources. In 2005, a cooperative effort between the MOA, US Fish & Wildlife Service, NOAA and private partners restored about 350 linear feet of creek channel west of Muldoon Road along Chester Creek. This portion of the creek was channelized in the 1960s to provide for development of a mobile home park at the corner of DeBarr and Muldoon Roads. This project restored the channel to a natural state by creating natural features such as meanders, correct cobble size for a creek in Anchorage to restore quality fish habitat and improve water quality, and restored a portion of the historical flood plain to protect property along the creek and restore riparian function. (See pictures provided as Figures 4 and 5).

COORDINATION WITH FEDERAL RESOURCES OR PROGRAMS

Complementary restoration projects to the Chester Creek Channel Restoration project in Anchorage have been funded by the Pacific Coast Salmon Recovery Fund (PCSRF) and Alaska Sustainable Salmon Fund (AKSSF) funds as well as US Fish & Wildlife Service Coastal Program funds. These funds have been used to restore fish passage to Chester Creek through the Chester Creek Aquatic Ecosystem Restoration Project at the mouth of the creek and the channel restoration project adjacent to the proposed site as described above. The Chester Creek Aquatic Ecosystem Restoration Project restored the outfall of Chester Creek by the creation of a restored creek channel at the surface and removed failing infrastructure that served as the outfall of Chester Creek for more than 30 years. This has allowed for increased fish passage and flood control improvements at the mouth of the creek.

Federal, State and Local Partners

In 2005, the Municipality of Anchorage initiated the Salmon in the City initiative in partnership with multiple state, federal and private sector partners. Several projects are underway to restore riparian habitat, reduce barriers to fish passage, and increase stewardship of aquatic resources. Strong partnerships have been developed with resources agencies and the public. Program activities have received national recognition, most recently the Coastal America Partners Award. As a part of the Salmon in the City initiative, the MOA has facilitated the Watershed Task Force to identify and guide creeks-related project within the MOA. This task force is comprised of members from Federal, State, and Local resource agencies as well as interested non-profits and tribal groups within the MOA. A list of partners is provided below.

Federal Partners

US Fish & Wildlife Service (USFWS)

National Oceanic and Atmospheric Administration (NOAA)
Army Corps of Engineers
US Environmental Protection Agency (EPA)

State Partners
Alaska Department of Fish & Game
Alaska Department of Transportation
Alaska Department of Natural Resources

Local Partners
Anchorage Waterways Council
Great Land Trust
Alaska Sealife Center
Native Village of Eklutna

COST SHARING OR MATCHING OF FUNDS
CIAP funds will not be used for cost sharing or matching purposes nor will it duplicate project efforts.

Figure 1. Project location and Anchorage Coastal Zone boundaries.

Figure 2. Project site location and existing conditions.

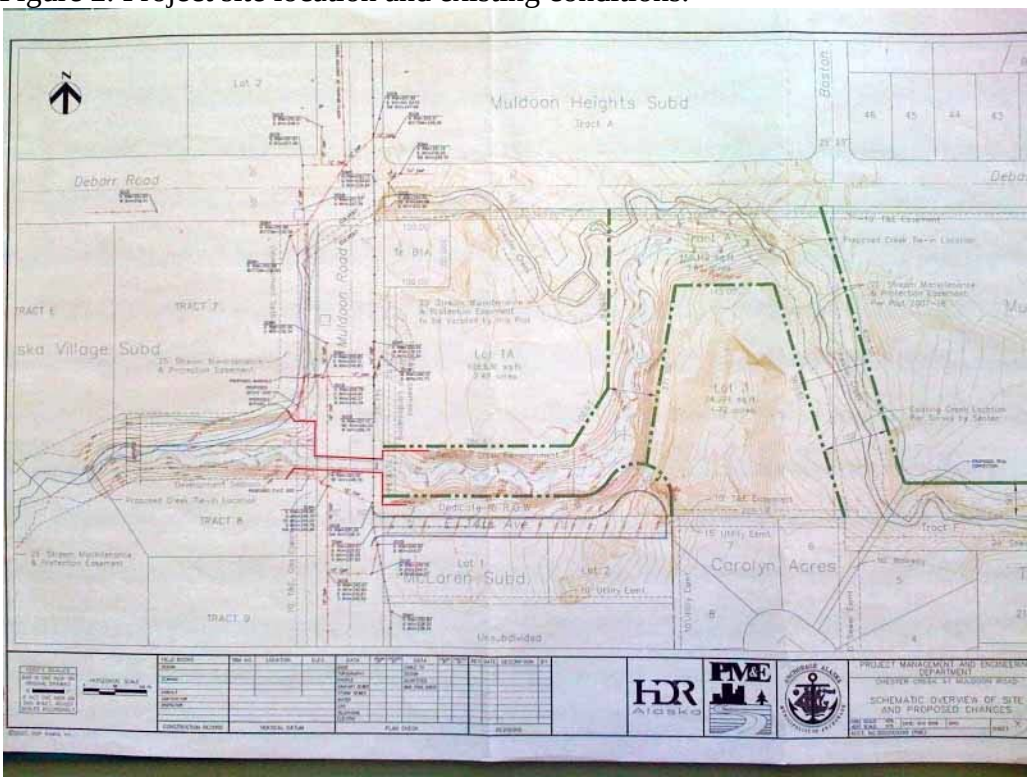

Figure 3. Preliminary Conceptual Design for restoration.

Figures 4 and 5. Before and after restoration pictures of Chester Creek at Creekside adjacent to the proposed project.

STATE OF ALASKA
COASTAL IMPACT ASSISTANCE PROGRAM

Municipality of Anchorage

PROJECT TITLE: Ship Creek Fishing Access Improvements for Stream Bank Protection

PROJECT CONTACT

Contact Name:	Kristi Bischofberger, Municipal Watershed Manager
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PROJECT LOCATION
The Ship Creek Fishing Access CIAP project is a bank protection project located in the Ship Creek Watershed entering Cook Inlet at the base of the Knik Arm in the Municipality of Anchorage, Alaska. The project location is within the Municipality of Anchorage Coastal Zone.

PROJECT DURATION
The project will take four years.

ESTIMATED COST:
The total project cost is $1.0 million

Spending Estimate ($)				
TOTAL	**Year 1**	**Year 2**	**Year 3**	**Year 4**
$1.0 million	0.1M	0.1M	0.7M	0.1M

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PROJECT DESCRIPTION:
Ship Creek is a popular fishing area within the Municipality of Anchorage. In an effort to protect and rehabilitate the overused stream bank a project was performed to identify improvements and enhancements for fisherman access. These were presented in *Ship Creek fishing Access Design Study Report*. The Access study identified places within the lower watershed where impacts to the creek were high as a result of fishing activities, and developed ways to reduce impacts and protect the stream bank. Most of these improvements were subsequently completed; however, additional locations have since been identified by the project team for similar work. For example, bank restoration, trail repair, and re-vegetation are needed downstream of C Street bridge abutment (Figure 1) and upstream of the railroad bridge (Figure 2) requiring reconstruction and/or stabilization. Also, several areas along heavily fished areas would benefit from spot re-vegetation. Additionally, desirable for fishing access and to protect stream banks are the installation of fishing platforms, particularly in areas where other stabilization and re-vegetation activities have been less successful. Figure 3 shows potential locations of fishing access platforms.

Figure 1. Downstream of C St. Bridge

Figure 2. Upstream of Railroad Bridge

Figure 3. Proposed Fishing Platform Locations

MEASUREABLE GOALS AND OBJECTIVES:

The measurable outcomes will be the construction of a fishing platform and restabilization of 50 ft of streambank and trail to protect and stabilize a minimum of 500 lineal feet of lower Ship Creek and trail system.

PROJECT CONSISTENCY WITH CIAP AUTHORIZED USE:

The Ship Creek Fishing Access CIAP project is consistent with authorized use #1 which is stated as "projects and activities for the conservation, protection, or restoration of coastal areas, including wetlands." The Ship Creek Fishing Access Project will protect Ship Creek from high impact use of foot traffic on steep, wet banks in a situation where people are more concerned with fish and water flows and less with what they are trampling on the bank. Redirection of traffic to designated, easy to use pathways will assist the banks to maintain vegetation and have more stability and resistance to erosion. The project will directly mitigate coastal development projects.

COORDINATION WITH FEDERAL RESOURCES OR PROGRAMS:

The Army Corp of Engineers is requiring the Port of Anchorage to perform projects to mitigate for loss of aquatic habitat associated with development. As these projects are completed they will need to be made consistent with larger community interests, primarily fishing and tourism, for the watershed area to help maintain them successfully into the future.

The CIAP funds will be directed toward these fishing access projects to provide the integration and protection of the comprehensive set of Ship Creek projects.

COST SHARING OR MATCHING OF FUNDS:
CIAP funds may be used for cost sharing or matching purposes required by another grant. If they are used in this manner, a letter will be included with the CIAP grant application from the other Federal agency (the agency charged with administering the program that includes the cost sharing or matching requirement) indicating that the other agency's program allows the use of Federal funds to meet cost sharing or matching requirements.

STATE OF ALASKA
COASTAL IMPACT ASSISTANCE PROGRAM

Municipality of Anchorage

PROJECT TITLE: Ship Creek Water Quality Improvements

PROJECT CONTACT

Contact Name:	Kristi Bischofberger, Municipal Watershed Manager
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PROJECT LOCATION
The Ship Creek Water Quality Improvement CIAP project is an impact mitigation and creek protection project located in the Ship Creek Watershed entering Cook Inlet at the base of the Knik Arm in the Municipality of Anchorage, Alaska. The project location is within the Municipality of Anchorage Coastal Zone.

PROJECT DURATION
The project will take 4 years.

ESTIMATED COST:
The total project cost is $0.6 million

Spending Estimate ($)				
TOTAL	**Year 1**	**Year 2**	**Year 3**	**Year 4**
$0.6 million	0.1M	0.2M	0.2M	0.1M

PROJECT DESCRIPTION:
Ship Creek has long been an industrialized area in Anchorage and therefore subject to a long history of varying infrastructure and waste management practices. Alaska Department of Environmental Quality (ADEC) lists lower Ship Creek as a 303(d) impaired water body, identifying it as water quality limited due to the presence of fecal coliform bacteria and petroleum products. ADEC has designated the creek as a "Category I, most in need of restoration" watershed. Numerous untreated storm water effluent discharges enter Ship Creek that could be improved through revisions to infra-structure and coordination of activities among multiple land owners. Proposed projects include addition of treatment to storm drains or when practical disconnection from directly discharging into Ship Creek. Low Impact Development (LID) designs or projects could be implemented in parking and holding lots along the creek. Existing oil and water separators may be updated with newer technology.

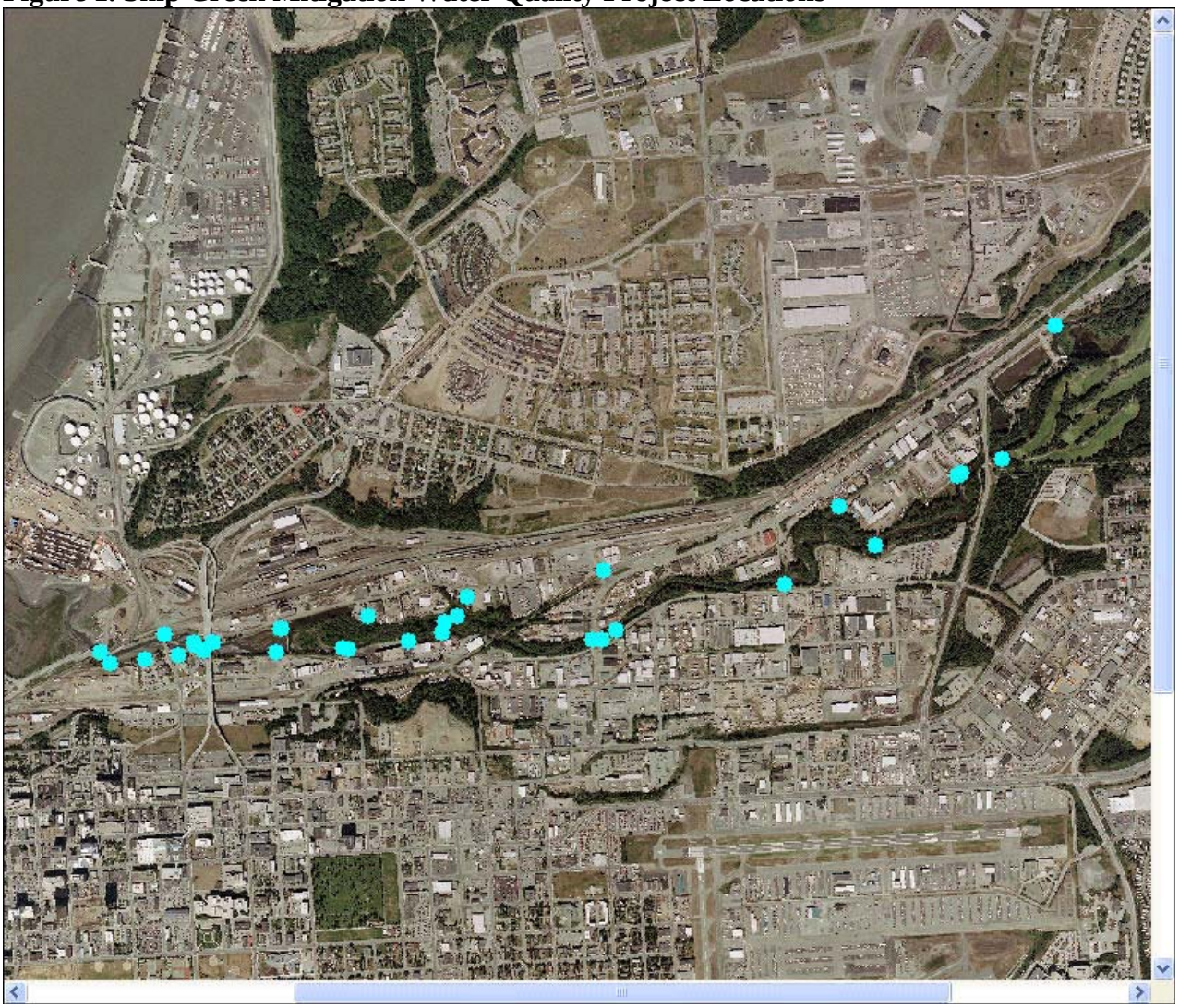
The projects identified in the Tidal Ship Creek Mitigation Feasibility Study address these issues. This CIAP project will address as many of them as possible starting at the lowest point in the watershed and working upstream. Refer to Table 1 and Figure 1 for project details.

Table 1.

	Project ID	Location	Project Description
1.	Abandoned Tanks	Above KAPP Dam	Remove several discarded rail tanks and other junk where present along the south boundary of the York Steel company
2.	ARRC A-1	Overpass – north bank	Evaluate and Add treatment, as needed, to outfall draining western portions of the rail yard in ARRC storm drain system A.
3.	ARRC A-2	Deans Auto Salvage area	Evaluate and Add treatment, as needed, to outfall draining central portions of the rail yard and Government Hill
4.	ARRC A-2B	Beaver pond area	Investigate and take action as needed on PVC pipe in SW portion of pond south of Ingra Street
5.	ARRC B-1/ MOA 825	KAPP dam, north bank	Evaluate and add treatment as needed to outfall draining portions of rail yard, Whitney Rd. and Government Hill.
6.	ARRC C-1	C St., south bank	Evaluate and add treatment as needed to outfall draining western portions of rail yard.
7.	ARRC E-1	Whitney and Post Roads	Improve water quality in ditch draining eastern portions of rail yard and bluff
8.	Creosote Pilings	ARRC bridge	Replace creosote pedestrian and freight bridge pilings in creek with cement.
9.	Ditch S1-3	Commercial Truck Services	Improve water quality in ditch.
10.	KAPP Cooling Pond	KAPP dam, north bank	Evaluate and improve or remove as needed the old cooling pond from power plant.
11.	Marsh S4-1	C Street, south bank	Evaluate and improve as needed water quality in small marsh and pond receiving runoff from surrounding impervious areas.
12.	Marsh S4-2	ARRC Headquarters	Evaluate and improve as needed water quality in marsh west of the ARRC office parking lots.
13.	MOA 808	ARRC Headquarters	Evaluate and add treatment as needed to culvert draining ARRC depot and neighboring residential areas.
14.	MOA 809 A/B	Bridge Restaur-ant, south bank	Evaluate and add treatment to two outfalls on the south bank draining portions of downtown.
15.	MOA 811	Below KAPP dam, south bank	Evaluate and add treatment as needed to outfall draining Cordova Street.
16.	MOA 812 A/B	Above KAPP dam, south bank	Evaluate and add treatment to two outfalls capturing sub-drainage.
17.	MOA 820/	Overpass, north	Evaluate and improve as needed outfall draining

	ADOT	bank	highway and adjacent area.
18.	MOA 826	1st Ave, south bank	Evaluate and improve as needed outfall and ditch draining industrial areas north of 3rd ave.
19.	MOA 830/832	Standard Steel, north bank	Evaluate and improve as needed water quality in shallow drainage ditch capturing runoff from industrial areas between Ship Creek and Post Rd.
20.	MOA 833 A/B	Viking Drive, south bank	Evaluate and improve as needed water quality in two outfalls draining Viking Drive and adjacent industrial area.
21.	MOA 835	1st Ave, south bank	Evaluate and improve as needed outfall draining industrial area.
22.	OU-5	Standard Steel, north bank	Evaluate and improve as needed outfall draining Elemendorf AFB.
23.	Post Road	Post Rd. south bank	Add treatment to drainage from Post Rd.

Figure 1. Ship Creek Mitigation Water Quality Project Locations



MEASUREABLE GOALS AND OBJECTIVES:
CIAP funds will result in a minimum of two of the 23 improvements mentioned in Table 1 above. Which two to be completed will be identified prior to the initiation of the grant for CIAP funds.

PROJECT CONSISTENCY WITH CIAP AUTHORIZED USE:
This project is consistent with authorized use #1 which is stated as "Projects and activities for the conservation, protection, or restoration of coastal areas, including wetlands." The Ship Creek Water Quality Improvements Project will protect Ship Creek from untreated storm water outflows through implementation of end-of-pipe controls and LID practices. The Ship Creek Watershed is Anchorage's oldest developed area and the location of much of its industry. Stormwater draining from this area may come in contact with non-point sources of pollution, or pollutant sources from numerous unknown causes and locations. Where source control is not available, the best way to treat these types of pollutants is before they enter the receiving water system, i.e., Ship Creek and Cook Inlet. Reducing pollutants in storm water ultimately protects the coastal area and aquatic life.
The project will directly mitigate coastal development projects.

COORDINATION WITH FEDERAL RESOURCES OR PROGRAMS:
The Army Corp of Engineers required the Port of Anchorage to develop a Tidal Ship Creek Mitigation Feasibility Study identifying projects for funds mitigating loss of aquatic habitat associated with development. An advisory committee was formed to evaluate and prioritize identified projects for the purpose of allocating mitigation funds. Projects focused at habitat preservation, fill removal, and bank restoration scored higher based on their ranking criteria than inland drainage area projects. These projects, largely consisting of water quality improvements, are believed to be important but less closely related to wetland mitigation.

The CIAP funds will be directed toward these unfunded projects and thereby directly complement another other federal program.

COST SHARING OR MATCHING OF FUNDS:
CIAP funds may be used for cost sharing or matching purposes required by another grant. If they are used in this manner, a letter will be included with the CIAP grant application from the other Federal agency (the agency charged with administering the program that includes the cost sharing or matching requirement) indicating that the other agency's program allows the use of Federal funds to meet cost sharing or matching requirements.