



R & E Grant Application 09-11 Biennium

Project #:
09-054

Astoria High School Fisheries Technology Program

Project Information

R&E Project Request: \$20,400.00
Match Funding: \$44,999.04
Total Project: \$65,399.04
Start Date: 9/10/2009
End Date: 6/30/2011
Project Email: lcain@astoria.k12.or.us
Project Biennium: 09-11 Biennium
Organization: Astoria High School

Fiscal Officer

Name: Louise Kallstrom
Address: 785 Alameda
Astoria, OR 97103
Telephone: 503-325-6441
Email: lkallstrom@astoria.k12.or.us 325-6441

Applicant Information

Name: Lee Cain
Address: 1001 W. Marine Dr.
Astoria, OR 97103
Telephone: 503-325-3911 x301
Telephone 2: 503-298-9776
Fax: 503-325-2891
Email: lcain@astoria.k12.or.us

Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Project Summary

This project is NOT part of ODFW's 25 Year Angling Plan.

Activity Type: Education

Summary: Astoria High School (AHS) Fisheries Technology is a year-long advanced course in aquaculture and fisheries science providing hands-on experience in fish propagation, invertebrate sampling, stream surveying, water quality testing, experimental research design, and other fisheries techniques. Training occurs in the AHS hatchery and at off-campus sites. Students also

assist local projects involving fisheries and habitat research and restoration, including the Clatsop County Fisheries Project, Columbia River Estuary Study Task Force, National Park Service (Lewis and Clark National Historic Park), and various habitat enhancement projects of the Young's Bay Watershed Council. Students receive a Certificate of Fisheries Skills at the end of the year for addition to their portfolio. Due to a recent statewide decrease in school district funding, the program is scheduled for cancellation. This proposal requests funding to maintain the program during the 2009-10 and 2010-2011 school years.

Objectives:	The objective of this project is to acquire temporary funding needed to maintain the AHS Fisheries Technology Program in order to provide hands-on education for local students interested in Fisheries Science.
Fishery Benefits:	The benefits of the project include 1) providing a program to educate youth about fisheries science, aquaculture, and water quality monitoring, 2) releases of juvenile salmonids into Youngs Bay which contribute to recreational and commercial harvest in the Columbia River and Youngs Bay, 3) assisting the Clatsop County Fisheries Project(CCF) staff with fish production which in turn contributes significantly to regional fisheries, both sport and commercial, and 4) assisting Columbia River Estuary Study Task Force (CREST) and the Youngs Bay Watershed Council (YBWC) with habitat projects.
Watershed Benefits:	By providing assistance to the Youngs Bay Watershed Council, the project directly benefits habitat in the local watershed. Indirectly, the project provides opportunity for youth to become aware of issues that affect watershed health and involved as citizens in relevant projects.
Current Situation:	AHS Fisheries Technology is based out of the AHS Applied Science Center, a ~5000 square foot wetlab, classroom and hatchery facility located on a spring-fed stream immediately adjacent to the school.
Alternatives:	The only viable alternative at this point is cancellation of the AHS Fisheries Technology Program. School administrators are currently seeking alternative funding to maintain the program but it does not appear that will be available for another year or two. If alternative funds become available before the 2010-2011 academic year, then unused R&E funds could be returned.
Designer:	Lee Cain
Methods:	As teacher, Lee Cain will continue to teach the existing curriculum for Fisheries Technology, which is built around the 4 elements of Experimental Research, Hatchery Maintenance, Work Experience, and Peer Tutoring. He will also be adding to the curriculum the new design element of Commercial Fisheries Harvest and Processing Techniques, which will include student exposure to harvest and processing methods and facilities.

Inspector:

Funding Elements: The current state budget situation forces the reduction in the the size of the AHS Science Department from five to four science teachers. This meant that the Fisheries Technology program would be cut to accomodate the need for a single section of Biology to be taught. If awarded, R&E funds will be used to backfill one science teacher position for one class period/day thereby allowing Lee Cain to continue the Fisheries Technology course throughout the academic years of 2009-2010 and 2010-2011.

Partners: No

Existing Plan: Yes

The project is included in Hatchery Genetic Management Plans for Big Creek Hatchery and Clatsop County Fisheries who both provide eggs and/or juvenile salmonids for rearing and/or marking studies.

Affected Contacted: Yes

Affected Supportive: Yes

Affected Comments: The Clatsop County Fisheries Project (CCFP), Columbia River Estuary Study Taskforce (CREST), ODFW, and Youngs Bay Watershed Council (YBWC) are all fully supportive of the AHS Fisheries Technology course. Students from the program assist CCFP staff and the YBWC throughout the year to acquire hands-on training in fish culture activities and habitat improvement projects.

Project Schedule/Participants/Funding

This project has no Schedule/Participants/Funding.

Affected Species:

Chinook Salmon
Chum Salmon
Coho Salmon
indoor warmwater culture species
Rainbow Trout
Steelhead
Warmwater

Project Permits

Name	Issued By	Secured?	Date Secured	Date Expected
Presence/Absence Surveys (#13913)	NOAA FISHERIES	Yes	3/18/2009	1/1/0001
Classroom Egg Incubation Project	ODFW	No	1/1/0001	9/1/2009

Project Monitoring

Organization	Address	Activity	Frequency
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Astoria High School	1001 W Marine Drive Astoria, OR 97103	teaching	daily
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Project Maintenance

Organization	Address	Activity	Frequency
Astoria High School	1001 W Marine Drive Astoria, OR 97103	staffing and administration	annually for two years

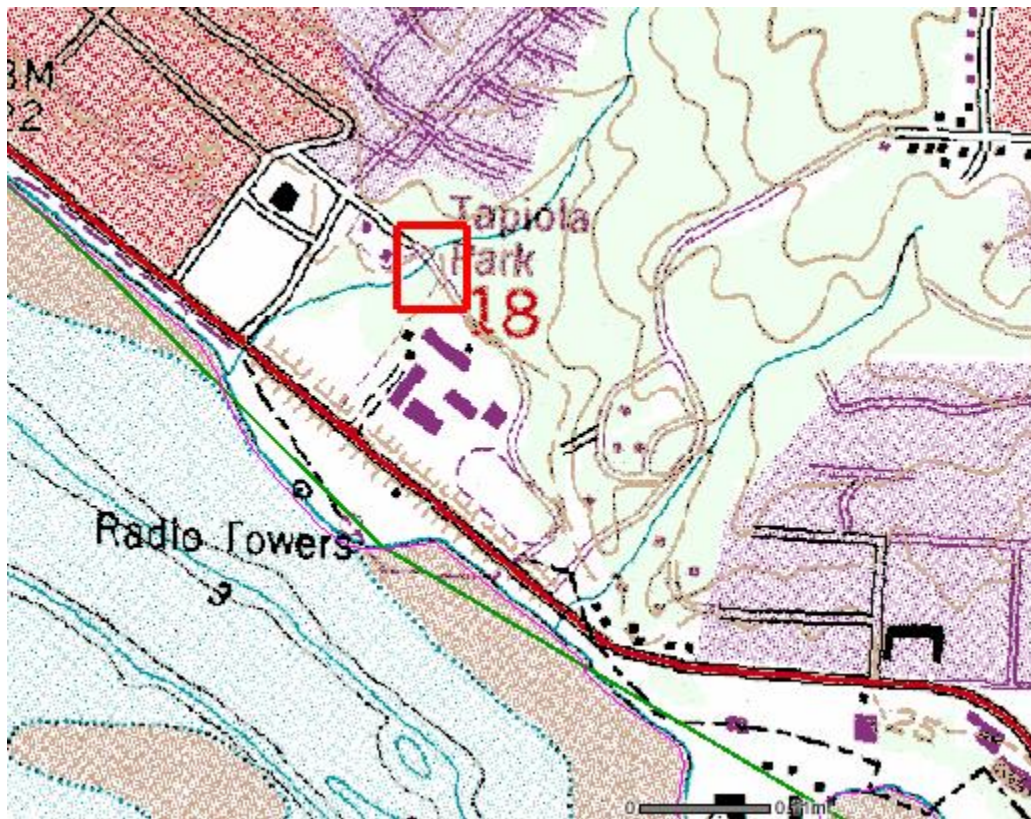
Project Match Funding

Funding Source	Cash	In-Kind	Other	Description	Total	Secured?	Conditions?	Comments
R&E Request	\$20,400.00	\$0.00	\$0.00		\$20,400.00	No	Yes	If alternative funds become available before the 2010-2011 academic year, then the unused R&E funds would be returned.
Marine Biology teacher	\$0.00	\$20,000.00	\$0.00		\$20,000.00	Yes	No	two years match -- Marine Biol students feed into the Fisheries Technology class
Fisheries Biology teacher	\$0.00	\$20,000.00	\$0.00		\$20,000.00	Yes	No	two years match -- Fisheries Biol students feed into the Fisheries Technology class
Use of Applied Science Center by researchers	\$0.00	\$2,000.00	\$0.00		\$2,000.00	Yes	No	estimated value of rental of lab space for 2 yrs
Fish Presence/Absence Surveys and Habitat Work	\$0.00	\$2,999.04	\$0.00	352 hrs/yr of student labor on surveys and related projects at minimum wage (typical class size = 11)	\$2,999.04	Yes	No	
				Total Match Funding:	\$65,399.04			

Project Budget

Item	Item Type	Units	Unit Cost	R&E Funds	Match Funds	Total
Fish Presence/Absence Surveys and Habitat Work	Contracted Services	1	\$2,999.04	\$0.00	\$2,999.04	\$2,999.04
collaborative use of lab space	Intergovernmental Agreement Services	1	\$2,000.00	\$0.00	\$2,000.00	\$2,000.00
Fisheries Biology teacher	Personnel	1	\$20,000.00	\$0.00	\$20,000.00	\$20,000.00
Fisheries Technology teacher	Personnel	1	\$20,400.00	\$20,400.00	\$0.00	\$20,400.00
Marine Biology teacher	Personnel	1	\$20,000.00	\$0.00	\$20,000.00	\$20,000.00
					Total Budget:	\$65,399.04

Project Map



Additional Files

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