Washington State Fish Passage Strategy

Jane Atha Fish Passage Strategist Habitat Program



Strategy Goal

 Help prioritize and reduce barriers to fish passage in a way that benefits depressed, threatened, and endangered stocks, and that is informed by the best available science



Where We Are Now

- First draft strategy completed
 - Under review by science panel
 - Implementation section largely still to be written!



- Draft goes to Tribes early July for review
- Draft goes to key partners early fall for review

Timeline*



Tribal Email/phone Virtual Tribal Input on draft One-on-One Strategy Tribal meetings

Key Partners Funders and Others

Briefings with WSDOT, FBRB, RCO, GSRO

Hybrid regional meetings

Input on draft strategy

Regional Recovery Groups

Briefing with

Council

of Regions

We Go to You Regional Recovery Groups

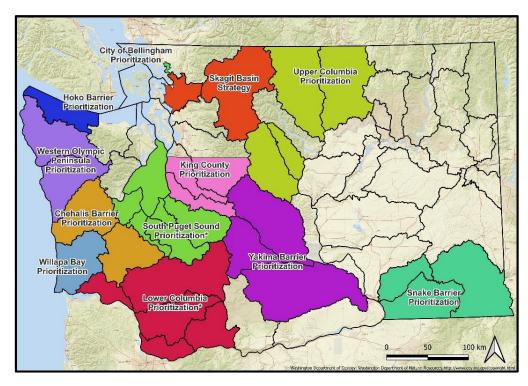
Input on draft strategy



*Timeline subject to change

Approach

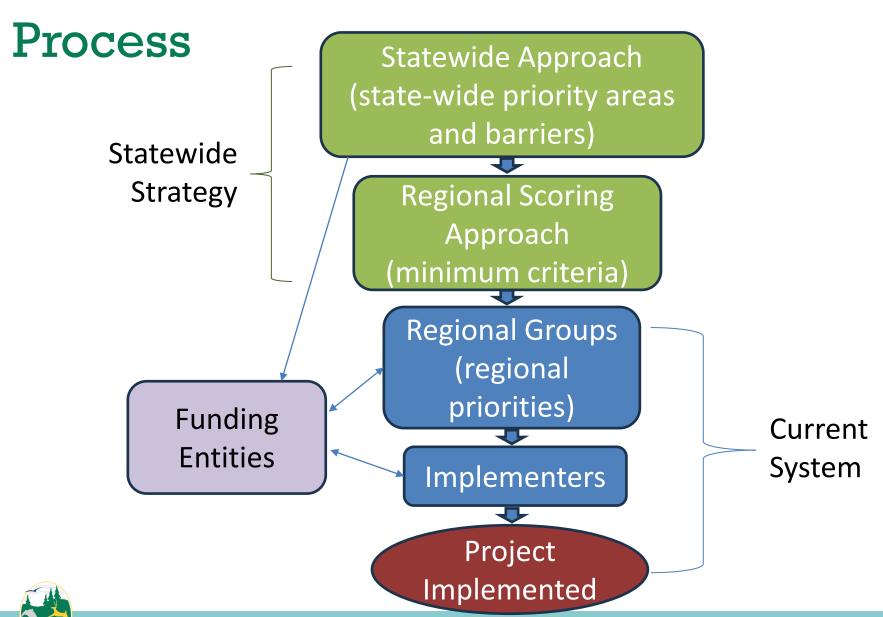
- State-wide prioritization
 - Optimization
- Regional/watershed scale
 - Score and rank





5

Flow Chart of Barrier Prioritization



Optimization

Strategy recommends an optimization function that includes:

- Barrier type
- Connectivity index
- Length of upstream habitat
- Benefits Chinook/Orca
- Number of threatened, endangered, depressed species or stocks



Score and Rank

Strategy recommends* all regional score/rank systems include:

- State-wide priority (output of optimization)
- Barrier type
- Barrier order
- Length of upstream habitat

*Recommended criteria limited based on data availability



How will the strategy be used?

- WDFW will house decision-support optimization tool
 - Will be available to the public
- Output of model will provide a guide for users/regions without an existing prioritization model
- Output of model will provide an additional criterion for groups with an existing prioritization model
- Includes recommendations to inform score and rank prioritization systems





Fish Barrier Removal Board

Amendment Form

Date: 3/20/2024	F	RCO Project Number: 2	1-1547
Sponsor Name: North Olyr		-	
Project Name: Hoko Ozett	-		nt
Type of Amendment:	Cost Increase	Time Extension \Box	Scope Change
Justification: For cost increation. Please note: a grant cost contribution to maintain the that would place the project describe the reason and backfor scope changes, describe change. Specify changes in contributions.	increase requires the agreement's original end date more than kground for the delay the reason and what	e sponsor to increase its cost share percentages four years beyond the p y and provide a timeline work types or elements	total match For time extensions roject start date, for project completion of the project will
It has become apparent used to create the project initial grant we used but against our expectations that the initial cost estimate was prepare to reduce their costs, whimplement the design program in the design program	ct budget were too lo lget estimates provid of the cost of the wo ate was low or prices ed, or a combination ich they have, yet we	w to support the work a ed by a consulting firm a ork based upon previous have increased dramation thereof. NOSC has press	t this time. For the and checked those experience. It appears cally in the time since ed the consulting firm
Additionally, since the tir have increased our staffi	•		
We will increase our pro	vided match to keep	match at 15%, see attach	ned table.
This projects design is be correction projects #22- streamline the process a those projects whose bu #22-1083 will be sought	1083 and #21-1463 b nd minimize costs. No dgets are similarly sh	y the same design team OSC will be seeking sepa	in an effort to arate cost increases on
Supporting Documents Pro	Spreadsheet compose	d of original budget with c	ost increase provided in
a separate column clearly An updated Project Milest	_	s have changed.	

Fish Barrier Removal Board

Amendment Form

Preliminary design package including design drawing	ngs and design report (Manual 22, Appendix C)
Review:	
Washington Department of FISH and WILDLIFE	WASHINGTON STATE Recreation and Conservation Office
Approved: Yes No	Approved: Yes No
Date: Click here to enter a date.	Date: Click here to enter a date.
Name: Click here to enter text.	Name: Click here to enter text.
Reason	Reason

Project Name HOKO OZETTE RD MP 2.9 80001331 CULVERT REPLACEMENT
PRISM # 21-1547 Planning
Sponsor North Olympic Salmon Coalition

DESIGN PROJECTS

The costs on this page are for design projects, not for the design phase of a restoration grant.

Cost increase request 03.14.24

				OVERALL PROJECT	GRANT COST WITH INCREASE	Original Budget	INCREASE AMOUNT				МАТСН		
				Budget must account for all costs to complete the project	Enter only the amount of the grant request			The Grant Request and Match should equal the total project cost and Budget Check cell should be 0. Sponsors must account for of match need to complete the project.				ount for all sources and types	
				Amount	Amount						Funding not reported in PRISM	Source (Grant, Cash, Materials, Labor, Volunteers, etc)	Match Type (federal, state, local)
	Design Costs			Revised Total	Revised Total	Original Grant	Cost Increase	Total Revised Match	Original Match	Match Increase			
Category	Task Description	Qty	Rate	Project Cost	Grant Request	Request	Request			Request			•
Cultural resources		1.00										Grant	unknown
Permits	permit preparation, permit fees, wetland delineation	1	\$ 43,675	\$ 43,675	\$ 37,123	\$ 35,360	\$ 1,763	\$ 6,551	\$ 6,240	\$ 311	\$ -	Grant	unknown
Final design	Includes all studies, permit support, 100% Design, design oversight & contractor mamt	1.00	\$ 329,712	\$ 329,712	\$ 280,255	\$ 176,333	\$ 103,922	\$ 49,457	\$ 31,118	\$ 18,339	\$ -	Grant	unknown
Administrative	Includes grant and project management, bookkeeping, direct project costs	1.00	\$ 96,028	\$ 96,028	\$ 81,623	\$ 44,790	\$ 36,833	\$ 14,404	\$ 7,904	\$ 6,500	\$ -	Grant	unknown
Other	Travel (mileage & Per Diem)	1.00	\$ 1,373	\$ 1.373	Ś 1.167	\$ 1.167	\$ (0)	\$ 206	\$ 206	Ś (0)	\$ -	Grant	unknown
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Ī			310141	<i>⇒</i> 460,367	\$ 408,329	<i>\$</i> 204,450	\$ 143,879	<i>γ</i> /2,058	\$ 40,008	\$ 25,390	,		

PRISM Project Total \$ 480,387	GTOTAL \$	480,387	\$ 408,329	\$ 264,450	\$ 143,879	\$ 72,058	\$ -
			PRISM Project Total			\$ 480,387	

RCO Percentage Match Percentage 0.85 15.00%

Fish Barrier Removal Board

Amendment Form

Data: 2/20/2024		DCO Due is at Number	. 21 1462
Date: 3/20/2024		RCO Project Number	: 21-1463
•	North Olympic Salmon		
		nd Hatchery Intake Replace	
Type of Amendr	nent: Cost Increase	e⊠ Time Extension□	Scope Change 🔲
for. Please note: a contribution to m that would place describe the reas For scope change	a grant cost increase requal naintain the agreement's of the project end date mor on and background for the es, describe the reason an	the need and specifically what ires the sponsor to increase original cost share percentag the than four years beyond the ne delay and provide a timeling d what work types or element for metrics of project element	its total match Jes. For <u>time extensions</u> e project start date, ne for project completion nts of the project will
used to create initial grant w against our ex that the initia the estimate w to reduce the	e the project budget were we used budget estimates expectations of the cost of I cost estimate was low or was prepared, or a combin	ntracting for the design engine too low to support the wor provided by a consulting first the work based upon previous prices have increased dramination thereof. NOSC has proyet we are still short on function	k at this time. For the m and checked those ous experience. It appears atically in the time since essed the consulting firm
•	9	et application NOSC has enco ead costs from the time wher	
We will increa	ase our provided match to	keep match at 15%, see att	ached table.
correction pro streamline the those projects	ojects #22-1083 and #21- e process and minimize co	nted alongside the designs for 1547 by the same design tea osts. NOSC will be seeking so larly short. #21-1547 will be	am in an effort to eparate cost increases on
An updated Co	uments Provided. (checlost Estimate Spreadsheet column clearly illustrating who	omposed of original budget wit	h cost increase provided in
An undated Pr	roiect Milestone Worksheet		

Fish Barrier Removal Board

Amendment Form

Preliminary design package including design drawings and design report (Manual 22, Appendix C)

Review:





Approved: Yes No No	Approved: Yes No
Date: Click here to enter a date.	Date: Click here to enter a date.
Name: Click here to enter text.	Name: Click here to enter text.
Reason	Reason

Project Name Wright's Creek Culvert/Hatchery Intake Replacements

PRISM # 21-1463 Planning

Sponsor North Olympic Salmon Coalition

DESIGN PROJECTS

The costs on this page are for design projects, not for the design phase of a restoration grant. updating $3/14/24\,$ for cost increase request to FBRB

				OVERALL PROJECT	Updated Costs 3/14/24	Original cost request 2022	Net Change				МАТСН		
				Budget must account for all costs to complete the project	New total grant	Original grant request	Grant Increase Request	The Grant Request and Match should equal the total project cost and Budget Check cell should be 0. Sponsors must account of match need to complete the project.			ount for all sources and types		
				Amount	Amount			Revised Total Match	Original Match	Match Increase Request	Funding not reported in PRISM	Source (Grant, Cash, Materials, Labor, Volunteers, etc)	Match Type (federal, state, local)
	Design Costs	•			1			•					
Category	Task Description	Qty	Rate						Ι.		1.		
Cultural resources		1.00											Makah Tribe
Permits	permit preparation, permit fees, wetland delineation	1	\$ 50,875	\$ 50,875	\$ 43,243	\$ 57,460	\$ (14,217)	\$ 7,631	\$ 10,140	\$ (2,509)	\$ -		Makah Tribe
Final design	Includes all studies, permit support, 100% Design, design oversight & contractor mamt	1.00	\$ 396,239	\$ 396,239	\$ 336,803	\$ 199,155	\$ 137,648	\$ 59,436	\$ 35,145	\$ 24,291	\$ -		Makah Tribe
Administrative	Includes grant and project management, bookkeeping, direct project costs	1.00	\$ 96,028	\$ 96,028	\$ 81,623	\$ 44,790	\$ 36,833	\$ 14,404	\$ 7,904	\$ 6,500	\$ -		Makah Tribe
Other	Travel (mileage & Per Diem)	1.00	\$ 1,373	\$ 1.373	\$ 1.167	S 1.167	\$ (0)	\$ 206	Ś 206	\$ (0)	· · ·		Makah Tribe
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			STotal	\$ 563,713	\$ 479,156	\$ 316,172	\$ 162,984	\$ 84,557	\$ 55,795	\$ 28,762	\$ -		

GTOTAL \$ 563,713	\$ 479,156	\$ 84,557	\$ -
	PRISM Project Total	\$ 563,713	

RCO Percentage Match Percentage 0.85 15.00%



Amendment Request Information¹

Amendment Type (Check box for type(s) of amendment requested.)
☐ Scope (<i>change of</i>	location, change in metrics)
☐ Time extension	
⊠ Cost (increase, dec	crease, match change)
Project name HOKO RIVER TRIBUTARY FISH PASSAGE DESIGN #80001279	
Project number 22-1083	
Date of request	3/19/24
Sponsor(s)	North Olympic Salmon Coalition
Lead Entity	NOPLE
Current end date	6/30/25

Funding (*Grants manager may need provide information for this section*)

	Current Amount	Biennium/ Year of Funding	Request Amount	Share	New Funding Amount	New Share
Funding source (SRFB match)	\$43,983		\$28,121 (SRFB)	15%	72,104	15%
Funding Source (FBRB)	\$249,235 (FBRB)		\$159,350 (FBRB)	85%	408,585	85%
Project total	\$293,218		\$		\$480,689	

All Requests

• Brief project summary:

The project will complete a final design for the replacement of a Clallam County Road Culvert (#80001279) on an unnamed Hoko River tributary (19.0169) which enters the Hoko at river mile 9.4.

¹Please use the amendment matrix in Manual 18 to determine if a request needs lead entity approval. For cost increases using Puget Sound Acquisition and Restoration funds, provide this template to the Puget Sound Partnership for its approval.



• Current project progress: (what tasks are complete and timeline for remaining tasks)

We have begun the procurement process for engineering services. We have selected the best consulting firm from the applicant pool. We are in the process of negotiating the project SOW and budget.

Time Extensions

- Reason and justification for delay:
- Proposed new project milestones (include any uncertainties):
- Number of time extensions that have been previously requested for this project:



Cost Increases

• Reason and justification for cost increase (include any uncertainties):

It has become apparent during the contracting for the design engineering that the estimates used to create the project budget were to low to support the work at this time. For the initial grant we used budget estimates provided by a consulting firm and checked those against our expectations of the cost of the work. It appears that the initial cost estimate was low or prices have increased dramatically in the time since the estimate was prepared, or a combination thereof.

Additionally since the time of the grant application NOSC has encountered situations that have driven up our staffing and overhead costs.

 Actions taken to control costs or limit the cost increase: (include any other funding sources pursued)

NOSC worked diligently with good cooperation from the design engineering firm to diminish costs and ground was gained, but it was not enough to be able to proceed with the project with the demonstrated deficit.

• Number of cost increases that have been previously requested for this project:

No cost increases have been previously requested for this project.

Scope Changes

- Description of, and reason for, scope change:
- **Acquisition projects:** see <u>Manual 3</u>, Section 7 for specific scope change requirements and questions.

Attach documentation of lead entity approval.

Attach map if relevant.

Project Name Hoko River Tributary Fish Passage Desing 80001279 Culvert
PRISM # 22-1083
Sponsor North Olympic Salmon Coalition

DESIGN PROJECTS

					ı						
				OVERALL PROJECT	GRANT REQUEST					MATCH	
				Budget must account for all costs to complete the project	Enter only the amount of the grant request				The Grant Request and Match should equal the total project cost and Budget Check cell sho Sponsors must account for all sources and types of match need to complete the proje		
				Amount	Cost Increase SRFB Budget 3/14/24	Original SRFB Request	Net Increase	Match (no change since original ask is well over required amt.)	Funding not reported in PRISM	Source (Grant, Cash, Materials, Labor, Volunteers, etc)	Match Type (federal, state,
	Design Costs										
Category	Task Description	Qty	Rate								
Cultural resources		1.00	\$ 9,600	\$ 9,600	\$ 2,800	\$ 1,200	\$ 1,600	\$ 6,800			
Permits	permit preparation, permit fees, wetland delineation	1	\$ 43,675	\$ 43,675	\$ 8,315	\$ 6,240	\$ 2,075	\$ 35,360			
	Includes all studies, permit support, 0-100% Design, design oversight &	1.00	\$ 330,014	\$ 330,014	\$ 168,896	\$ 28,433	\$ 140,463	\$ 161,118			
Project Design	contractor mgmt Includes grant and project management, bookkeeping, direct	1.00	\$ 96,028	\$ 96,028	\$ 51,238	\$ 7,904	\$ 43,334	\$ 44,790			
Administrative	project costs										
Other	Travel (mileage & Per Diem)	1.00	\$ 1,373	\$ 1,373	\$ 206	\$ 206	\$ (0)	\$ 1,167			
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1			STotal	\$ 480,689	\$ 231,454	\$ 43,983	\$ 187,471	\$ 249,235	\$ -		

GTOTAL \$ 480,689	\$ 231,454	\$ 249,235 \$ -
	PRISM Project Total	\$ 480,689

RCO Percentage 0.481504718

Match Percentage 51.85%

Fish Barrier Removal Board

Amendment Form

Date: 4/18/2024 RCO Project Number: 21-1133 (now 22-1229, after merging with our SRFB grant)

Sponsor Name: CREST

Project Name: Clear Creek Reconnection

Type of Amendment: Cost Increase \square Time Extension \square Scope Change \square

Justification: For <u>cost increases</u>, describe the need and specifically what the money will be used for. Please note: a grant cost increase requires the sponsor to increase its total match contribution to maintain the agreement's original cost share percentages. For <u>time extensions</u> that would place the project end date more than four years beyond the project start date, describe the reason and background for the delay and provide a timeline for project completion. For <u>scope changes</u>, describe the reason and what work types or elements of the project will change. Specify changes in quantities and/or metrics of project elements as necessary.

CREST and Wahkiakum County received construction bids for the project on April 16, 2024. There were two bids, both of which exceed all versions of our engineer's cost estimates and exceed the amount of funding we have available. The original grant requests were based on engineering cost estimates from 2018 for an older version of the design (shorter bridge, big structural earth walls, no large wood, reduced area of grading). The new design, which was completed in the last 8 months, nearly doubled the length of the proposed bridge (from 54' to 100'), increased the amount of proposed stream habitat and large wood, and added a coldwater refuge pool in lower Clear Creek near the Elochoman River confluence, among numerous other design changes. The low bid came in at \$3,098,576 (proposal uploaded into PRISM). Engineering/permitting costs have also been slightly higher than anticipated, due largely to there being more required changes to the old designs than anticipated, and additional cultural resources surveying for federal compliance. Our engineering firm has requested an additional \$75,070 for out-of-scope work, and that has added a bit to our overall costs as well, though our total engineering and permitting costs will only end up slightly higher than what we had originally estimated/requested.

Wahkiakum County had \$1,200,000 in road funding from County Roads Administration Board for this project (the non-bridge, non-stream portions), of which \$1,067,293.78 remains (after paying the design team and spending a small amount to "start" construction last fall to extend the funding one very last year). With the \$2,031,235.80 we have remaining in RCO funding, the project is still short about \$170,000. That shortage does not account for any Change Orders or other cost increases that might occur. We are requesting \$210,000 in additional funding to cover the difference between the amount of money that we have and the cost of the construction bid (discounting quoted engineering costs), plus a very small buffer to account for unanticipated costs that may arise during construction.

I have uploaded the low bid and our engineer's most recent contract amendment budget request into PRISM, along with the documents associated with this RCO Amendment request.

Fish Barrier Removal Board

Amendment Form

Supporting Documents Provided. (che	ck all that apply):
An updated Cost Estimate Spreadsheet of a separate column clearly illustrating w	composed of original budget with cost increase provided in here costs have changed.
An updated Project Milestone Workshee	et
Preliminary design package including de	esign drawings and design report (Manual 22, Appendix C)
Review:	
Washington Department of FISH and WILDLIFE	WASHINGTON STATE Recreation and Conservation Office
Approved: Yes No	Approved: Yes No
Date: Click here to enter a date.	Date: Click here to enter a date.
Name: Click here to enter text.	Name: Click here to enter text.
Reason	Reason

See SRFB Manual 5 for additional information regarding allowable costs.

				OVERALL PROJECT	GRANT REQUEST	ACTUAL COSTS			MATCH		
				OVERALL PROJECT	GRAINT REQUEST	Construction costs			ATCII		
					Enter only the		t The Grant Request and Match should equal the total project cost and Budget Check cell should be 0.				
				for all costs to	amount of the grant	copied from bid sheet					
				complete the project	request	of low bidder (4/16/2024)	sponsors must	uccount for all sources	and types of match need to	o complete the project.	
						(4/10/2024)			Source (Grant, Cash,		
								New Match Not	Materials, Labor,	Martala Trusa (fordaya) atata	
										Match Type (federal, state,	
				Amount	Amount	Amount	Match in PRISM	Previously Recorded	Volunteers, etc)	local)	
	Construction		1			•					
Category (choose one)	Task Description	Qty	Rate					Ι.			
Mobilization	Mobilization	1.00	\$ 133,000.00		\$ 133,000	\$ 259,000		\$ 100,000			
Demolition and site prep	Clearing and grubbing	1.00	\$ 22,000.00	\$ 22,000		\$ 275,000	\$ 22,000	\$ 65,000	Labor and equipment use	Wahkiakum County	
Demolition and site prep	Removal of culvert	1.00	\$ 10,000.00	\$ 10,000		\$ 11,600	\$ 10,000		Labor and equipment use	Wahkiakum County	
Demolition and site prep	Roadway excavation w/ haul	57.00	\$ 33.00	\$ 1,881		\$ 36,800	\$ 1,881		Labor and equipment use	Wahkiakum County	
Demolition and site prep	Select borrow w/ haul	308.00	\$ 17.60	\$ 5,421	\$ 5,421	\$ 98,768					
Demolition and site prep	Embankment compaction	154.00	\$ 6.60			\$ -					
Construction	Channel excavation w/ haul	2,067.00				\$ 107,394	\$ 10,000	\$ -	Labor and equipment use	Wahkiakum County	
Construction	Drop inlet type 1	1.00				\$ -					
Materials	Streambed sediment	334.00	\$ 82.50			\$ 13,000					
Materials	Streambed aggregate	216.00	\$ 82.50								
Materials	Habitat boulder - 2 man	6.00	\$ 82.50			\$ 9,600					
Construction	Handling and installation of	5.00	\$ 1,100.00	\$ 5,500	\$ 5,500	\$ 73,000					
	large wood material										
Materials	Logs for log structure	5.00	\$ 1,000.00	\$ 5,000	\$ 5,000	\$ -					
Equipment and equipment use	Temporary stream diversion	1.00	\$ 55,000.00	\$ 55,000	\$ 55,000	\$ -		\$ -			
Equipment and equipment use	Fish exclusion	1.00	\$ 1,100.00	\$ 1,100	\$ 1,100	\$ -		\$ -			
Construction	Temporary bridge installation	1.00	\$ 173,800.00	\$ 173,800	\$ 173,800	\$ -					
	and removal										
Construction	Storm sewer	1.00	\$ 10,626.00	\$ 10,626	\$ 10,626	\$ 45,000					
Construction	Shoring excavation w/ haul (footings and structural earth walls)	1.00	\$ 115,500.00	\$ 115,500	\$ 115,500	\$ -		\$ -			
Construction	Structure excavation w/ haul (footings and structural earth walls), cubic yard	1,392.00	\$ 44.00	\$ 61,248	\$ 61,248	\$ -					
Materials	Gravel backfill for structural earth wall	95.00	\$ 55.00	\$ 5,225	\$ 5,225	\$ 4,900					
Construction	Furnish and drive steel test pile	2.00	\$ 11,000.00	\$ 22,000	\$ 22,000	\$ -					
Construction labor	Drive steel piles	12.00	\$ 2,200.00	\$ 26,400	\$ 26,400	\$ 98,600	\$ -	\$ -			
Materials	Steel piles, per linear foot	370.00	\$ 110.00			\$ -					
Materials	Steel pile tip or shoe	12.00	\$ 220.00				\$ -	\$ -			
Materials	Steel reinforcement bar, per	3,333.00	\$ 1.65			\$ -	\$ -	\$ -			
	pound						·				
Materials	Class 4000 concrete, cubic yards	46.00	\$ 880.00	,		\$ 131,500	\$ -	\$ -			
Construction	Transport, modify, install, and finish concrete girders	1.00	\$ 90,182.00	,		\$ 240,000	\$ -	\$ -			
Materials	Bridge girders	4.00	\$ 23,750.00			\$ 597,000		\$ -	Materials	Wahkiakum County	
Materials	Texas T6 bridge railing, linear feet	125.00	\$ 88.00	\$ 11,000	\$ 11,000	\$ 57,040					
Materials	Structural earth wall, square feet	4,903.00	\$ 55.00	\$ 269,665	\$ 269,665	\$ -					

Lower Columbia Habitat Project Application Detailed Cost Estimate 2/1/2013

Assessments (geologic, hydraulic, etc Administrative In AA&E Budg A&E maximum allowed in PRISI A&E validatio	Grant management and billing by CREST Indirect Costs Description Indirect (CREST) Indirect et Check M \$ 487,867.50	104.00 Approved Rate 28.680% 0.000%	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ Total Project Base \$ 11,344.00	\$ - \$ - \$ - \$ 234,912 \$ 3,253 \$ - \$ 3,253 \$ 1,959,391	\$ - \$ 3,253	\$ 212,340 \$ 2,711,376	\$ - \$ - \$ - \$ 5 -	\$ - \$ - \$ - \$ - \$ - \$ -		
Administrative II	Grant management and billing by CREST Indirect Costs Description Indirect (CREST) Indirect Indirect	Approved Rate 28.680%	\$ - \$ - \$ - \$ - \$ STotal	\$ - \$ - \$ - \$ - \$ 234,912 \$ 3,253 \$ - \$ 3,253	\$ - \$ - \$ - \$ - \$ 170,512 \$ 3,253 \$ - \$ 3,253		\$ - \$ - \$ - \$ - \$ 64,400	\$ - \$ - \$ - \$ - \$ - \$ -		
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Administrative	Grant management and billing by CREST ndirect Costs Description Indirect (CREST)	Approved Rate 28.680%	\$ - \$ - \$ - \$ STotal **Total Project Base \$ 11,344.00 \$ -	\$ - \$ - \$ - \$ - \$ 234,912 \$ 3,253 \$ -	\$ - \$ - \$ - \$ - \$ 170,512 \$ 3,253 \$ -	\$ 212,340	\$ - \$ - \$ - \$ - \$ 64,400	\$ - \$ - \$ - \$ - \$ - \$ -		
Administrative	Grant management and billing by CREST ndirect Costs Description Indirect (CREST)	Approved Rate 28.680%	\$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ Total Project Base \$ 11,344.00	\$ - \$ - \$ - \$ - \$ 234,912 \$ 3,253	\$ - \$ - \$ - \$ - \$ 170,512	\$ 212,340	\$ - \$ - \$ - \$ - \$ 64,400	\$ - \$ - \$ - \$ - \$ -		
Administrative	Grant management and billing by CREST Indirect Costs Description	Approved Rate	\$ - \$ - \$ - \$ STotal	\$ - \$ - \$ - \$ 5 \$ 234,912	\$ - \$ - \$ - \$ - \$ 170,512	\$ 212,340	\$ - \$ - \$ - \$ - \$ 5 \$ - \$ 64,400	\$ - \$ - \$ - \$ - \$ - \$ -		
Administrative	Grant management and billing by CREST	104.00	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	\$ 212,340	\$ - \$ - \$ - \$	\$ - \$ - \$ - \$ -		
	Grant management and	104.00	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	\$ 212,340	\$ - \$ - \$ - \$	\$ - \$ - \$ - \$ -		
	Grant management and	104.00	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ -	ė 343.210	\$ - \$ - \$ - \$	\$ - \$ - \$ - \$ -		
	Grant management and	104.00	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ -		\$ - \$ - \$ -	\$ - \$ - \$ -		
	Grant management and	104.00	\$ -	\$ -	\$ -		\$ -	\$ -		
	Grant management and	104.00								
	Grant management and	104.00	\$ 53.00	\$ 5,512.00	\$ 5,512		\$ -	-		
Assessments (geologic, hydraulic, etc	jor apaatea sriage acsign	1						\$ -		
	c.) Update hydraulic assessment for updated bridge design	1.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000	\$ 25,470	\$ -	\$ -		
Final design	Modify bridge design to fit existing road alignment	1.00				\$ 138,070		\$ -	Cash	Wahkiakum County
	and modifications									
Other	Engineering-during- construction for questions	1.00	\$ 70,000.00	\$ 75,000.00	\$ 75,000	\$ 48,800	\$ -	\$ -		
Other	SPCC plan prep and submittal	1.00					\$ 4,400		Cash	Wahkiakum County
Category	Task Description	Qty	Rate							
Administrative,	Architechtural & Engineer	ring				From actual costs and Proposed EDC quote				
	Ib. olect	1	STotal	\$ 1,721,226	\$ 1,490,454	\$ 2,499,036	\$ 135,771	\$ 245,000		
Construction supervision	County supervision of overall project	45.00	\$ 150.00	\$ 6,750		\$ -	\$ 6,750		Labor	Wahkiakum County
action super vision	project site for construction oversight, per mile	1,1230		, , , , , , , , , , , , , , , , , , , ,	, , , , , , ,					
ermits Construction supervision	Contracted services for updated permitting Travel for CREST staff to	1.00		\$ 4,000 \$ 716		\$ -	\$ -	\$ -		
ormite	and construction oversight, per hour	4.00	ć 4,000.00	ć 4.000	ć 4.000	Ċ	ć	ć		
Construction supervision	CREST project management	108.00	\$ 54.00	\$ 5,832	\$ 5,832	\$ -	\$ -	\$ -		
Construction	Trench safety system	1.00	\$ 1,100.00	\$ 1,100	\$ 1,100	\$ -				
Surveys Construction	Surveying Roadside cleanup	1.00	. ,			\$ 79,120				
	and planting	2.00		,		\$ 79,120				
Construction	CESCL and BMPs Post-construction seeding	1.00		\$ 21,406		\$ 5,624				
Construction	Erosion Control, including	1.00		\$ 42,240	\$ 42,240	\$ 151,000	9 03,140		Labor and equipment ase	Wankiakam county
Construction	Guardrail Temporary traffic control	4.00 1.00		\$ 15,400 \$ 85,140	\$ 15,400	\$ 30,000	\$ 85,140		Labor and equipment use	Wahkiakum County
Lonstruction	Paint line, linear feet	400.00		\$ 440	\$ 440	\$ 5,090				
Construction Construction	Asphalt - HMA Cl. 1/2 in. PG 58S-22, per ton	280.00				\$ 120,000	\$ -	\$ 80,000		
			\$ 77.00			*				

Lower Columbia Habitat Project Application Detailed Cost Estimate 2/1/2013