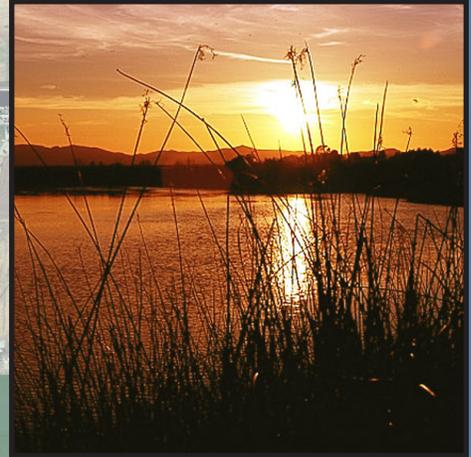


**Contra Costa Water District  
Proposition 1E Grant Proposal  
Round 2  
Attachment 4**

**Budget**



**East Contra Costa County Region  
Contra Costa Water District  
Round 2 Stormwater Flood Management Grant Proposal**

**ATTACHMENT 4 –  
BUDGET**

<u>Proposal</u>	<u>Page</u>
Contra Costa Canal Levee Elimination and Flood Protection Project Budget.....	4-1

This attachment summarizes the Contra Costa Canal Levee Elimination and Flood Protection Project (Project) budget for Phases 2 through 4. Each line item of the budget is described, and assumptions and back-up is provided to justify expected costs and expenditures.

As shown in Table 6, the total estimated project cost is \$20 M. The Project will be funded through the following mechanisms:

- \$10,000,000 in non-State funding (funding match) from CCWD
- \$10,000,000 in requested grant funding
- \$0 in other State funding

Tables 4-1 (PSP Table 5) presents the budget for the Project, and Table 4-2 (PSP Table 6) presents the overall proposal budget, which is the same as the Project budget. The following pages document the basis for this cost estimate. Tables 4-3 through 4-16 present the detailed labor, non-labor, and construction cost estimates that serve as the basis for the costs presented in Tables 4-1 and 4-2 (PSP Tables 5 and 6).

**Table 4-1: Project Budget**

**Table 5 – Project Budget**

Proposal Title: Contra Costa Water District Round 2 Stormwater Flood Management Grant Proposal

Project Title: Contra Costa Canal Levee Elimination and Flood Protection Project

Category		(a) Requested Grant Amount	(b) Cost Share: Non-State Fund Source* (Funding Match)	(c) Cost Share: Other State Fund Source*	(d) Total Cost
(a)	Direct Project Administration	\$0	\$140,000	\$0	\$140,000
(b)	Land Purchase/Easement	\$0	\$340,000	\$0	\$340,000
(c)	Planning/Design/Engineering/ Environmental Documentation	\$0	\$343,000	\$0	\$343,000
(d)	Construction/Implementation	\$10,000,000	\$7,849,000	\$0	\$17,849,000
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	\$383,000	\$0	\$383,000
(f)	Construction Administration	\$0	\$867,000	\$0	\$867,000
(g)	Other Costs	\$0	\$78,000	\$0	\$78,000
(h)	Construction/Implementation Contingency	\$0	\$0	\$0	\$0
(i)	<b>Grand Total (Sum rows (a) through (h) for each column)</b>	\$10,000,000	\$10,000,000	\$0	\$20,000,000

**\*List sources of funding:** \$2 million in non-state funding from CCWD, \$8 million in non-state funds from the US Army Corps of Engineers or alternative CCWD arranged financing.

**Table 4-2: Proposal Summary Budget**

Table 6 – Summary Budget						
Proposal Title: Contra Costa Water District Round 2 Stormwater Flood Management Grant Proposal						
Individual Project Title		Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost	% Funding Match (col. b/col. d)
(a)	Contra Costa Canal Levee Elimination and Flood Protection Project	\$10,000,000	\$10,000,000	\$0	\$20,000,000	50%
(i)	<b>Grand Total (Sum rows (a) through (h) for each column)</b>	\$10,000,000	\$10,000,000	\$0	\$20,000,000	50%

**Row (a) Costs: Task 1 – Project Administration**

Administration costs will cover general project administration including coordination with project sponsors/partners and preparation of project invoices. In addition, this budget covers development of the quarterly, annual and final reports required by the Grant Agreement and development of the Labor Compliance Program. Project administration costs have been estimated as \$140,000, which includes District labor, legal review of all agreements, and printing costs. This cost does not include construction administration costs (budgeted in line item f). The following Tables present the labor, non-labor, and construction cost estimates that served as the basis for the budget line items outlined above.

**Table 4-1: Total Cost of CCWD Labor for Task 1. Project Administration**

	Hourly Rate (\$/Hr)	Number of Hours	Total Cost \$1,000
<b>Construction</b>			
Dan Owre	86.34	35	\$3
Luis Llamas	60.62	198	\$12
Assoc. Engineer	54.93	437	\$24
Inspector	41.44	-	
Analyst	45.27	66	\$3
Admin.	35.86	84	\$3
Clerk	31.98	94	\$3
<b>General Management</b>	120	83	\$10
<b>Engineering</b>			
Chris Hentz (PM)	70.34	179	\$13
R. Murphy	86.34	31	\$3
Admin.	35.86	25	\$1
Clerk	31.98	56	\$2
<b>Planning</b>			
Mark Seedall	66.68	75	\$5
Marie Valmores	56.47	62	\$4
Admin.	35.86	28	\$1
Clerk	31.98	16	\$1
<b>Water Resources</b>			
Sr. WR Specialist	63.58	110	\$7
<b>Operations &amp; Maintenance</b>			
Tom Branch	55.92	18	\$1
Darryl Hensler	50.84	-	\$0
Maint. Mechanic	36.92	-	\$0
Sr. Engineer	60.62	-	\$0
Instrumentation Engr.	57.84	-	\$0
<b>Watershed &amp; Lands</b>			\$0
Manager	74.72		\$0
Real Pty. Agent	54.59		\$0
Real Pty. Specialist	46.18		\$0
<b>Total labor Costs</b>			<b>\$94</b>

**Table 4-4: Total Cost of Contracted Service for Task 1. Project Administration**

Contracted Services	Description	Total Cost \$1,000
Constr. Purchases	Printing	\$ 6
General Services	Legal review of agreements	\$ 40
<b>Non-Labor Totals</b>		<b>\$ 46</b>

**Row (b) Costs: Task 2 – Land Purchase/Easement**

A temporary construction easement (TCE) approximately 100 feet wide for the length of the project, immediately north of the Canal, and construction groundwater disposal land equaling approximately 850 acres are required from adjacent landowners to allow construction contractor access, staging, and dewatering disposal through irrigation of existing farmlands. It is anticipated that the District will receive no-fee easements and dewatering agreements on land owned by the State of California for the Dutch Slough Tidal Restoration Project. TCEs and agreements with other landowners and lessees of State-owned property are needed and included in this task. This task includes costs for District labor and consulting and technical services to develop plats and legal descriptions, obtain appraisals and title documents and make improvements to properties necessary for groundwater disposal and security. Costs for this task are estimated at \$340,000 based on the cost of similar agreements associated with Phase 1 and the Rock Slough Fish Screen Project. Cost estimates for this task are presented below.

**Table 4-5: Total CCWD Labor Cost by Department for Task 2. Land Purchase/Easements**

	Hourly Rate (\$/Hr)	Number of Hours	Total Cost \$1,000
<b>Construction</b>			
Dan Owre	86.34	7	\$0.6
Luis Llamas	60.62	40	\$2.4
Assoc. Engineer	54.93	87	\$4.8
Inspector	41.44	-	-
Analyst	45.27	13	\$0.6
Admin.	35.86	17	\$0.6
Clerk	31.98	19	\$0.6
<b>General Management</b>	120	-	-
<b>Engineering</b>			
Chris Hentz (PM)	70.34	179	\$12.6
R. Murphy	86.34	31	\$2.7
Admin.	35.86	25	\$0.9
Clerk	31.98	56	\$1.8
<b>Planning</b>			
Mark Seedall	66.68	-	-
Marie Valmores	56.47	-	-
Admin.	35.86	-	-
Clerk	31.98	-	-
<b>Water Resources</b>			
Sr. WR Specialist	63.58	-	-
<b>Operations &amp; Maintenance</b>			

	Hourly Rate (\$/Hr)	Number of Hours	Total Cost \$1,000
Tom Branch	55.92	27	\$1.5
Darryl Hensler	50.84	30	\$1.5
Maint. Mechanic	36.92	41	\$1.5
Sr. Engineer	60.62	25	\$1.5
Instrumentation Engr.	57.84	26	\$1.5
<b>Watershed &amp; Lands</b>			
Manager	74.72	52	\$3.9
Real Pty. Agent	54.59	687	\$37.5
Real Pty. Specialist	46.18	731	\$33.8
<b>Total labor Costs</b>			<b>\$110.2</b>

**Table 4-6: Total Cost for Contracted Service for Task 2. Land Purchase/Easements**

Contracted Services	Description	Total Cost \$1,000
Land	Easements	150
Other Services	Improvements for groundwater disposal	50
WS&L Services	Appraisals Plats & Legal Descriptions	30
Non-Labor Totals		230

**Row (c) Costs: Task 3 – Planning/Design/Environmental Documentation**

Project planning is complete, and environmental documentation has been filed. Design is nearly complete (99% Design), and will be finalized in preparation for construction to begin immediately following construction of Segment 2. Some additional environmental assessment is assumed to respond to questions from resource agencies and update permits, if needed. Budget requested in this task includes the final stages of design and environmental services, estimated as \$343,000. The following Tables present the labor, non-labor, and construction cost estimates that served as the basis for the budget line items outlined above.

**Table 4-7: Total CCWD Labor Cost by Department for Task 3. Planning and Environmental Documentation**

	Hourly Rate (\$/Hr)	Number of Hours	Total Cost \$1,000
<b>Construction</b>			
Dan Owre	86.34	-	-
Luis Llamas	60.62	-	-
Assoc. Engineer	54.93	-	-
Inspector	41.44	-	-
Analyst	45.27	-	-
Admin.	35.86	-	-
Clerk	31.98	-	-
<b>General Management</b>	120	-	-

	Hourly Rate (\$/Hr)	Number of Hours	Total Cost \$1,000
<b>Engineering</b>			
Chris Hentz (PM)	70.34	1075	\$75.6
R. Murphy	86.34	188	\$16.2
Admin.	35.86	151	\$5.4
Clerk	31.98	338	\$10.8
<b>Planning</b>			
Mark Seedall	66.68	337	\$22.5
Marie Valmores	56.47	279	\$15.8
Admin.	35.86	125	\$4.5
Clerk	31.98	70	\$2.3
<b>Water Resources</b>			
Sr. WR Specialist	63.58	-	-
<b>Operations &amp; Maintenance</b>			
Tom Branch	55.92	27	\$1.5
Darryl Hensler	50.84	30	\$1.5
Maint. Mechanic	36.92	41	\$1.5
Sr. Engineer	60.62	25	\$1.5
Instrumentation Engr.	57.84	26	\$1.5
<b>Watershed &amp; Lands</b>			
Manager	74.72	-	-
Real Pty. Agent	54.59	-	-
Real Pty. Specialist	46.18	-	-
<b>Total labor Costs</b>			<b>\$161</b>

**Table 4-8: Total cost of Contracted Services for Task 3. Planning./Environmental Documentation**

Contracted Services	Description	Cost \$,1000
Eng Purchases	Bid Document Printing	\$7.0
Eng. Services	Design	\$125.0
Planning Services	Assistance with Environmental Documents	\$50.0
Non-Labor Totals		\$182.0

**Row (d) Costs: Task 4 – Construction/Implementation**

Construction costs associated with agreements entered between CCWD and contractors will include mobilization, site clearing, procurement and fabrication of pipe, dewatering setup, Canal isolation, gravity pipeline around PP1, bypass pumping and power, earthwork, marsh creek crossing, pipeline installation, transition structures, importing fill material, programming of remote equipment, final grading, and WAPA relocation. Costs are provided in the following summary table. Detailed construction cost estimates, including quantities and unit prices, are provided in the attached construction cost estimate (Table 4-9). District labor associated with construction contracting and

implementation of District-installed elements have been included in the line item budget for Construction Administration. There is no anticipated CCWD labor associated with Task 4 Construction Implementation. The following table summarizes the projected cost of contracted services by task.

**Table 4-9: Total Contracted Services Cost of Task 4. Construction Implementation**

<b>Segment 2 - West of Sellers through Sellers</b>	<b>Construction Cost Estimate (\$ Thousand)</b>	<b>W/ CO Authority (\$Thousands)</b>
General Conditions	\$53	\$56
Earthwork	\$203	\$215
Pipeline	\$1,590	\$1,685
Access Structures	\$87	\$93
Unwatering and Creek Bypass	\$103	\$109
Channel Bypass		
Site Restoration & Imprvements	\$92	\$97
<b>Subtotal</b>	<b>\$2,127</b>	<b>\$2,255</b>
<b>Segment 3 - Sellers to Dutch Slouth</b>		
General Conditions	\$249	\$264
Earthwork	\$545	\$578
Pipeline	\$5,203	\$5,515
Access Structures	\$101	\$107
Unwatering and Creek Bypass	\$591	\$626
Channel Bypass	\$841	\$892
Site Restoration & Imprvements	\$161	\$170
<b>Subtotal</b>	<b>\$7,691</b>	<b>\$8,152</b>
<b>Segment 4 - Dutch Slough to East Cypress Road</b>		
General Conditions	\$199	\$211
Earthwork	\$396	\$420
Inlets	\$ 75	\$80
Pipeline	\$4,837	\$5,128
Access Structures		
Unwatering and Creek Bypass	\$373	\$396
Channel Bypass	\$762	\$808
Site Restoration & Imprvements	\$179	\$190
<b>Subtotal</b>	<b>\$6,822</b>	<b>\$7,232</b>
<b>Total</b>	<b>\$16,640</b>	<b>\$ 17,639</b>

**Row (e) Costs: Task 5 – Environmental Compliance/Mitigation/Enhancement**

Environmental compliance and mitigation costs have been estimated as \$383,000. These costs will include fish rescue, pre-construction surveys, biological monitoring, and weekly inspections. The following tables summarize projected CCWD labor and contracted services by task.

**Table 4-10: Total CCWD Labor Cost for Task 5. Environmental Compliance**

	Hourly Rate (\$/Hr)	Number of Hours	Total Cost (\$1,000s)
<b>Construction</b>			
Dan Owre	86.34	17	\$1.5
Luis Llamas	60.62	99	\$6.0
Assoc. Engineer	54.93	218	\$12.0
Inspector	41.44	0	
Analyst	45.27	33	\$1.5
Admin.	35.86	42	\$1.5
Clerk	31.98	47	\$1.5
<b>General Management</b>	120	-	-
<b>Engineering</b>			
Chris Hentz (PM)	70.34	90	\$6.3
R. Murphy	86.34	16	\$1.4
Admin.	35.86	13	\$0.5
Clerk	31.98	28	\$0.9
<b>Planning</b>			
Mark Seedall	66.68	262	\$17.5
Marie Valmores	56.47	217	\$12.3
Admin.	35.86	98	\$3.5
Clerk	31.98	55	\$1.8
<b>Water Resources</b>			
Sr. WR Specialist	63.58	-	-
<b>Operations &amp; Maintenance</b>			
Tom Branch	55.92	54	\$3.0
Darryl Hensler	50.84	59	\$3.0
Maint. Mechanic	36.92	81	\$3.0
Sr. Engineer	60.62	49	\$3.0
Instrumentation Engr.	57.84	54	\$3.0
<b>Watershed &amp; Lands</b>			
Manager	74.72	-	-
Real Pty. Agent	54.59	-	-
Real Pty. Specialist	46.18	-	-
<b>Total labor Costs</b>			<b>\$83</b>

**Table 4-11: Total Contracted Services Cost for Task 5. Environmental Compliance**

<b>Contracted Services</b>	<b>Description</b>	<b>Total Cost (\$1,000s)</b>
Environmental Services	Design and Construction monitoring	300
Non-Labor Totals		300

**Row (f) Costs: Task 6 – Construction Administration**

This task includes all construction administration activities, including advertisement for bids, bidding, contract award, insurance confirmation and tracking, submittal review and tracking, invoice review and payment, schedule maintenance, and contract closeout. In addition, this line item includes costs for Project Administration (refer to Task 1). Budget for this line item has been estimated at 2 percent of the construction cost, or \$867,000. The following tables summarize projected CCWD labor and contracted services by task.

**Table 4-12: Total Contracted Services Cost for Task 6. Construction Administration**

	<b>Hourly Rate (\$/Hr)</b>	<b>Number of Hours</b>	<b>Total Cost (\$1,000s)</b>
<b>Construction</b>			
Dan Owre	86.34	278	\$24
Luis Llamas	60.62	1584	\$96
Assoc. Engineer	54.93	3495	\$192
Inspector	41.44	0	
Analyst	45.27	530	\$24
Admin.	35.86	669	\$24
Clerk	31.98	750	\$24
<b>General Management</b>	120	-	-
<b>Engineering</b>			
Chris Hentz (PM)	70.34	179	\$13
R. Murphy	86.34	31	\$3
Admin.	35.86	25	\$1
Clerk	31.98	56	\$2
<b>Planning</b>			
Mark Seedall	66.68	0	\$0
Marie Valmores	56.47	0	\$0
Admin.	35.86	0	\$0
Clerk	31.98	0	\$0
<b>Water Resources</b>			
Sr. WR Specialist	63.58	-	-
<b>Operations &amp; Maintenance</b>			
Tom Branch	55.92	429	\$24
Darryl Hensler	50.84	472	\$24

	Hourly Rate	Number of Hours	Total Cost (\$1,000s)
Maint. Mechanic	36.92	650	\$24
Sr. Engineer	60.62	396	\$24
Instrumentation Engr.	57.84	415	\$24
<b>Watershed &amp; Lands</b>			
Manager	74.72	-	-
Real Pty. Agent	54.59	-	-
Real Pty. Specialist	46.18	-	-
<b>Total labor Costs</b>			<b>\$522</b>

**Table 4-13: Task 6. Construction Administration Task of Contracted Services**

Contracted Services	Description	Cost \$1,000
Material Testing Svcs	Field testing during installation	\$120
Design Services During Construction	Design	\$150
CM Services	Construction Management Support	\$75
Non-Labor Totals		\$345

**Row (g) Costs: Task 7 – Other Costs**

As part of the Project, CCWD will be required to amend existing permits (2081 Take Permit for Giant Gartner Snake and 1600 Streambed Alteration Agreement) with the Department of Fish and Game. These costs have been estimated as \$78,000. The following tables summarize projected CCWD labor and contracted services by task.

**Table 4-14: Task 7. CCWD Labor**

	Hourly Rate (\$/Hr)	Number of Hours	Total Cost (\$1,000s)
<b>Construction</b>			
Dan Owre	86.34	10	\$1
Luis Llamas	60.62	59	\$4
Assoc. Engineer	54.93	131	\$7
Inspector	41.44	0	
Analyst	45.27	20	\$1
Admin.	35.86	25	\$1
Clerk	31.98	28	\$1
<b>General Management</b>	120	-	-
<b>Engineering</b>			
Chris Hentz (PM)	70.34	90	\$6
R. Murphy	86.34	16	\$1
Admin.	35.86	13	\$0
Clerk	31.98	28	\$1
<b>Planning</b>			

	Hourly Rate (\$/Hr)	Number of Hours	Total Cost (\$1,000s)
Mark Seedall	66.68	75	\$5
Marie Valmores	56.47	62	\$4
Admin.	35.86	28	\$1
Clerk	31.98	16	\$1
<b>Water Resources</b>			
Sr. WR Specialist	63.58	-	-
<b>Operations &amp; Maintenance</b>			
Tom Branch	55.92	-	-
Darryl Hensler	50.84	-	-
Maint. Mechanic	36.92	-	-
Sr. Engineer	60.62	-	-
Instrumentation Engr.	57.84	-	-
<b>Watershed &amp; Lands</b>			
Manager	74.72	-	-
Real Pty. Agent	54.59	-	-
Real Pty. Specialist	46.18	-	-
<b>Total labor Costs</b>			<b>\$33</b>

Table 4-15: Task 7. Other Contracted Services Cost

Contracted Services	Description	Total Cost (\$1,000s)
Permits	RD 799	\$30
Planning Permits	RWQCB and DFG application fees	\$15
Non-Labor Totals		\$45

**Row (h) Costs: Construction/Implementation Contingency**

No construction contingency has been added for the Project.

**Row (i) Costs: Grand Totals**

The total estimated cost of this Project is \$20 M. The Project will be funded through the following mechanisms:

- \$2,000,000 in non-State funding from CCWD
- \$8,000,000 in non-State funding from the US Army Corps of Engineers or alternative CCWD arranged financing.
- \$10,000,000 in requested grant funding

The following table summarizes the labor, non-labor, and construction cost estimates that served as the basis for the budget line items outlined above.

Table 4-16: Summary of Cost by Task Values are in Thousands of Dollars

	CCWD Labor (\$1,000s)	Contracted Services (\$1,000s)	Total (\$1,000s)
<b>Task 1 - Project Administration</b>	\$94	\$46	\$140
<b>Task 2 – Land Purchase &amp; Easement</b>	\$110	\$230	\$340
<b>Task 3 – Planning, Design &amp; Environmental Documentation</b>	\$161	\$182	\$343
<b>Task 4 – Construction &amp; Implementation</b>	\$--	\$17,849	\$17,849
4.1 General conditions		\$ 531	\$531
4.2 Earthwork		\$ 1,213	\$1,213
4.2.1 Inlets		\$ 80	\$80
4.2.2 Pipeline		\$ 12,328	\$12,328
4.2.3 Access Structure		\$ 199	\$199
4.2.4 Unwatering and Creek Bypass		\$ 1,131	\$1,131
4.2.5 Channel Bypass		\$ 1,699	\$1,699
4.2.6 Site Restoration and Improvements		\$ 457	\$457
4.2.7 District Construction Trailer and Site Facilities		\$ 60	\$60
4.2.8 WAPA Relocation		\$ 150	\$150
<b>Task 5 – Environmental Compliance, Mitigation &amp; Enhancement</b>	\$83	\$300	\$383
<b>Task 6 – Construction Administration</b>	\$522	\$345	\$867
<b>Task 7 – Other Tasks</b>	\$33	\$45	\$78
<b>Total</b>	\$1,004	\$18,997	\$20,001

**Table 4-9: Construction Cost Estimate**

