Project Capital Improvement Plan

Fiscal Years 2007-08 through 2011-12

April 2007

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Clean Water Coalition, Nevada
Systems Conveyance and Operations Program
Project Capital Improvement Plan

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Capital Improvement Program

The Clean Water Coalition's Capital Improvement Program (CIP) is a five-year plan that is updated annually in conjunction with the preparation of the CWC's operating budget. The CIP identifies the activities of the various phases of the Systems Conveyance and Operations Program (SCOP), the anticipated cash flows for SCOP, and associated funding sources.

CAPITAL BUDGET PROCESS

The CIP is a multi-year plan for financing government facility construction, improvements, and equipment acquisition. The goals of the program are as follows:

- Assess capital needs
- Identify funding sources for the capital projects/programs, which ultimately will provide the greatest return on investment while meeting the increasing demand for infrastructure, public facilities and services.
- Improve financial planning through disclosure of future bond sales and assess fiscal impact.

Needs Assessment

In conjunction with the CWC's operational plan and preparation of the annual budget, the SCOP project is examined as to the current completion schedule regarding pre-design, final design and construction. Milestone deliverables are consistently updated with the most recent estimations to ensure capital authority and timely funding is available to maintain the pace of the project. Funding is anticipated to be derived from the following sources:

1. Proceeds from debt-the CWC has the legal authority to issue debt through both the Nevada State Bond Bank and the Clark County Bond Bank. All debt would be backed by revenue generated through wastewater usage and connection surcharges. Debt may be either short-term or long-term, depending, at the time of issuance, on which type of instrument is determined to best meet the CWC's needs.
2. Revenues generated through wastewater usage and connection surcharges not required for debt service, fund balance or operational expenses.
3. Proceeds from state or Federal grants, or revenues derived from special legislation. Even though revenues received from grants are not anticipated to be significant, every effort will be made to maximize federal and state participation and, therefore, reduce local funding requirements.

Capital Budget Preparation

The preparation and refinement of the CIP is an ongoing process that begins with identifying the various critical paths for deliverables for the SCOP project. Once all updated information is entered into the model, estimates of expenditures for future years are developed and included within both the annual budget and the revised CIP.

Once the revisions have been made by the CWC, the draft information is presented to each member agency's financial manager for review and comments. All comments are received and evaluated, and modifications to the CIP are made accordingly. The final CIP is approved by the CWC Board and each member agency's board. Per the Nevada Revised Statutes (NRS), final approval is required prior to the end of the fiscal year.

Modification of the Capital Plan

During the design stages of the SCOP project, new technologies may become available that would improve the final outcome of the project, increase the life expectancy of the project, or otherwise reduce the overall cost of the project. Such technologies will be reviewed by experts in the field and approved through various committees and boards before inclusion into the CIP. Any changes from the prior CIP will be specifically identified in a separate section to create a document that is as transparent as possible for public information.

Capital Improvement Plan - Scope

The CIP represents the lifespan of the SCOP project, with particular emphasis on the five-year planning horizon, FY 2007-2008 through FY 2011-2012. Information concerning expenses incurred in earlier years is displayed as a note to present a comprehensive view of the total project cost.

OVERVIEW OF CAPITAL IMPROVEMENT PLAN

Sources and Uses of Funds

Sources and uses of funds for the Clean Water Coalition's five-year CIP are shown in the following table (Table 1-1). The information includes sources and uses of funds for the active project for a five-year planning horizon, FY 2007-2008 through FY 2011-2012. Prior years' activities and FY 2006-2007 estimates are included to present a comprehensive view of the total project cost.

A total of $778 million in funding sources are identified. The CWC's primary sources of capital funding are from bond proceeds, wastewater connection and usage surcharges, and member agency contributions. The CWC's CIP identifies approximately $778 million in project costs.

Table 1-1

Capital Improvement Program - Sources and Uses of Funds ($ millions)

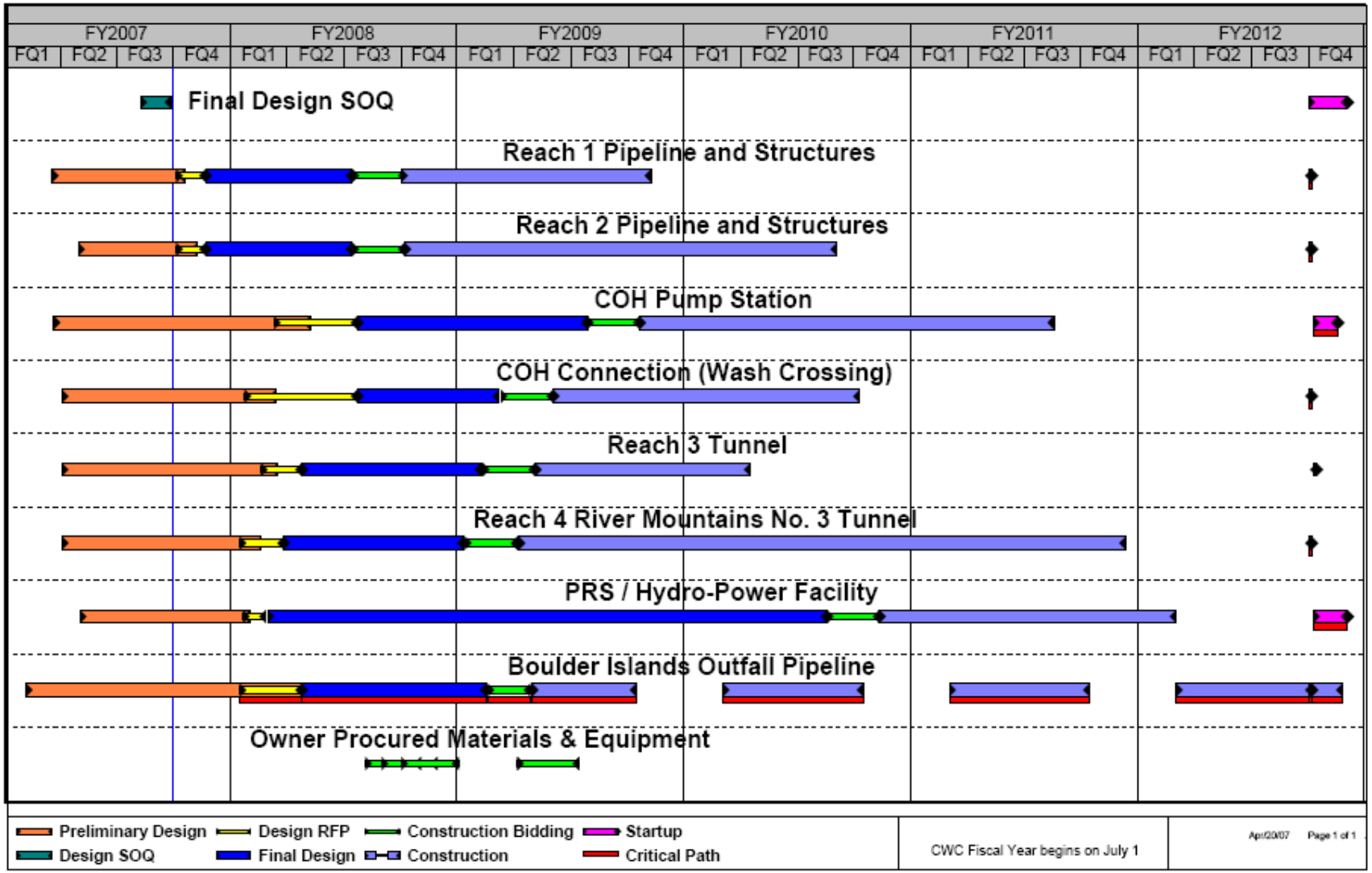
	Prior FYs	Est. FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	FY 13	Total	Percent
Beginning Balances	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	N/A
Funding Sources:										
Debt Proceeds	$ -	$ -	$ -	$ 82.36	$284.38	$220.01	$125.68	$ -	$712.43	91.6%
Connection/Usage Surcharges	$ -	$ -	$ -	$ 1.49	$ 1.54	$ 1.59	$ 1.65	$ -	$ 6.27	0.8%
Entity Contributions	$ 21.72	$ 12.45	$ 23.25	$ -	$ -	$ -	$ -	$ -	$ 57.42	7.4%
Interest Earnings/Misc	$ 0.03	$ 0.03	$ 0.20	$ 0.30	$ 0.30	$ 0.30	$ 0.30	$ -	$ 1.46	0.2%
Total Revenues*	$ 21.75	$ 12.47	$ 23.45	$ 84.15	$286.22	$221.90	$127.63	$ -	$777.57	
Total Resources*	$ 21.75	$ 12.47	$ 23.45	$ 84.15	$286.22	$221.90	$127.63	$ -	$777.57	
Uses by Activity:										
Pre-Design/EIS	$ 19.53	$ 11.18	$ 3.86	$ -	$ -	$ -		$ -	$ 34.58	4.4%
Final Design	$ -	$ 0.14	$ 16.60	$ 6.30	$ -	$ -		$ -	$ 23.04	3.0%
Construction	$ -	$ -	$ -	$ 74.76	$283.02	$218.59	$124.20	$ -	$700.57	90.1%
Administration	$ 2.22	$ 1.15	$ 2.99	$ 3.09	$ 3.20	$ 3.31	$ 3.43	$ -	$ 19.39	2.5%
Total Costs*	$ 21.75	$ 12.47	$ 23.45	$ 84.15	$286.22	$221.90	$127.63	$ -	$777.57	
Ending Balances	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Operating Impact**										
Est. Operating Expenses	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$(4.65)	$(4.65)	
Hydroelectric Power Value	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5.00	$ 5.00	
"Green" Credit Value	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 5.00	$ 5.00	
Net Operating Impact	*$ -*	*$ -*	*$ -*	*$ -*	*$ -*	*$ -*	*$ -*	*$ 5.35*	*$ 5.35*	

* Totals may vary due to rounding
** Operating Impact of the SCOP project will be positive once on-line in FY 2013, due to the hydroelectric generation plant

SCOP Timeline

A Gantt chart is used identify the phases of the SCOP lifecycle:

Figure 1-1



SCOP Cost Summary

Table 1-2 displays the summary costs for the SCOP construction and associated design phases (detailed costs by contract are displayed in the Appendix).

TABLE 1-2

Systems Conveyance and Operations Program
Cost Summary (FY 2005 Constant Dollars)

Description		Cost
City of Las Vegas Pipeline and Diversion Structure	**$**	**16,071,000**
Clark County Reclamation District -Reach 2	**$**	**29,476,700**
Reach 3 Tunnel	**$**	**46,171,200**
City of Henderson Connection -Wash Crossing	**$**	**7,036,800**
City of Henderson Pump Station	**$**	**17,709,600**
River Mountains Tunnel #3 (West)	**$**	**53,053,200**
River Mountains Tunnel #3 (East)	**$**	**51,813,600**
Hydroelectric Power Generating Facility	**$**	**50,350,000**
Boulder Islands Outfall	**$**	**130,719,600**
Total	**$**	**402,401,700**
General Conditions/General Requirements (7.75%)	**$**	**31,186,060**
Contingency	$	105,943,050
Construction Mgt. and Administration	$	52,030,515
Pre-Design	$	13,180,930
Final Design	$	14,538,925
Grand Total	**$**	**619,281,180**

SCOP Project Map

Cost Detail by Contract

(All amounts in constant 2005 dollars)

*The **first** section will include a diversion structure, Wash return, treatment plant connections, and effluent interceptor control structures, in addition to 7,000+ feet of 96-inch pipeline, two Wash crossing tunnels, and existing pipe crossings.*

City of Las Vegas Pipeline/Diversion Structure – Reach 1 Pipeline and Structures

Description	Cost
CLV Connection	
CLV Diversion Structure	$ 1,283,000
Allowances (10%)	128,300
Subtotal of Components	**1,411,300**
Reach 1	
Reach 1 – Main Cut-and Cover Pipeline	10,068,000
Reach 1 – Las Vegas Wash Tunnel Crossing	2,291,000
Reach 1 – SNWA Whitney Lateral Crossing	411,000
Reach 1 – CCWRD FM Pipeline Crossing	557,000
Allowances (10%)	1,332,700
Subtotal of Components	**14,659,700**
Total of Components	**16,071,000**
General Conditions/General Requirements (7.75%)	1,245,500
Subtotal	**17,316,500**
Contingency (20%)	3,463,300
CM and Admin (12%)	2,077,980
Pre-Design (2% of Component Total)	321,420
Design (5% of Component Total)	803,550
Total	**$ 23,982,750**

*The **second** section will include 12,500+ feet of 114-inch pipeline from the effluent interceptor structure to the connection with the Reach 3 tunnel.*

Clark County Water Reclamation District – Reach 2 Pipeline and Structures

Description	Cost
CCWRD Connection	
Central Plant Cut-and-Cover Piping	$ 254,000
Central Plan Wash Crossing	2,373,000
Central Plant Diversion Structure	584,000
AWT Cut-and-Cover Piping	232,000
El Control Structure	1,207,000
Control Structure – Overflow to Wash	747,000
Allowances (10%)	539,700
Subtotal of Components	**5,936,700**
Reach 2	
Reach 2 - Pipeline	21,400,000
Allowances (10%)	2,140,000
Subtotal of Components	**23,540,000**
Total of Components	**29,476,700**
General Conditions/General Requirements (7.75%)	2,284,400
Subtotal	**31,761,100**
Contingency (20%)	6,352,220
CM and Admin (12%)	3,811,330
Pre-Design (2% of Component Total)	589,530
Design (5% of Component Total)	1,473,840
Total	**$ 43,988,020**

*The **third** section includes 11,500+ feet of tunnel with 144-inch pipeline, terminating at the effluent site by Lake Las Vegas*

Tunnel and Piping to Lake Las Vegas – Reach 3 Tunnel

Description	Cost
Reach 3 – Mainline Tunnel	
Tunnel	$ 33,291,000
Working Shaft	2,958,000
Retrieval Shaft	2,227,000
Allowances (20%)	7,695,200
Total of Components	**46,171,200**
General Conditions/General Requirements (7.75%)	3,578,260
Subtotal	**49,749,460**
Contingency (25%)	12,437,365
CM and Admin (12%)	5,969,935
Pre-Design (4% of Component Total)	1,846,845
Design (3% of Component Total)	1,385,135
Total	**$ 71,388,740**

*The **fourth** section will include 1,700 feet of tunnel from the City of Henderson forcemain connection to the third section pipeline.*

City of Henderson – Wash Crossing Tunnel

Description	Cost
COH Forcemain Wash Crossing Tunnel	
Tunnel	$ 2,974,000
Working Shaft	2,890,000
Allowances (20%)	1,172,800
Total of Components	**7,036,800**
General Conditions/General Requirements (7.75%)	545,350
Subtotal	**7,582,150**
Contingency (25%)	1,895 535
CM and Admin (12%)	909,855
Pre-Design (3% of Component Total)	211,100
Design (5% of Component Total)	351,840
Total	**$ 10,950,480**

*The **fifth** section will include 5,000 feet of pipeline from the City of Henderson treatment facility to the pump station structure and machinery, and several improvements to the Las Vegas Wash.*

City of Henderson – Pump Station
Pipeline and Structures

Description	Cost
COH Pumping Station and Pipeline	
Effluent Pumping Station	$ 12,174,000
Forcemain – 54" Pipeline	2,223,000
Wash Return Improvements	361,000
Allowances (20%)	2,951,600
Total of Components	**17,709,600**
General Conditions/General Requirements (7.75%)	1,372,490
Subtotal	**19,082,090**
Contingency (25%)	4,770,520
CM and Admin (12%)	2,289,850
Pre-Design (5% of Component Total)	885,480
Design (7% of Component Total)	1,239,670
Total	**$ 28,267,610**

*The **sixth** section includes approximately 50% of the 39,000 feet of pipeline and tunnel from the effluent interceptor control structures to the hydroelectric plant.*

River Mountains Tunnel #3 – (West)
Pipeline and Tunnel

Description	Cost
River Mountain Tunnel #3	
Working Shaft RM3T West	$ 1,396,000
Tunnel	42,479,000
Subtotal of Components	**43,875,000**
El Terminus Site Work	
El Terminus – Site Grading/Restore	336,000
Allowances (20%)	8,842,200
Total of Components	**53,053,200**
General Conditions/General Requirements (7.75%)	4,111,620
Subtotal	**57,164,820**
Contingency (25%)	14,291,205
CM and Admin (12%)	6,859,775
Pre-Design (4% of Component Total)	2,122,125
Design (3% of Component Total)	1,591,595
Total	**$ 82,029,520**

*The **seventh** section includes approximately 50% of the 39,000 feet of pipeline and tunnel from the hydroelectric plant to the effluent interceptor control structures.*

River Mountains Tunnel #3 – (East)
Pipeline and Tunnel

Description		Cost
River Mountain Tunnel #3		
Working Shaft RM3T East		$ 699,000
Tunnel		42,479,000
	Allowances (20%)	8,635,600
	Total of Components	**51,813,600**
General Conditions/General Requirements (7.75%)		4,015,550
	Subtotal	**55,829,150**
Contingency (25%)		13,957,285
CM and Admin (12%)		6,699,495
Pre-Design (4% of Component Total)		2,072,540
Design (3% of Component Total)		1,554,405
	Total	**$ 80,112,875**

*The **eighth** section will include the hydroelectric plant structure and all machinery, including a pressure regulating structure. The facility will be built on the shore of Lake Mead and include transmission lines to the Alfred Merritt Smith Water Treatment Facility.*

Hydroelectric Power Generating Facility
Structure and Equipment

Description		Cost
Hydroelectric plant		
Civil/Structural		$ 22,760,000
Mechanical Equipment		9,316,000
Electrical Equipment		7,410,000
Transmission Line		794,000
	Allowances (25%)	10,070,000
	Total of Components	**50,350,000**
General Conditions/General Requirements (7.75%)		3,902,125
	Subtotal	**54,252,125**
Contingency (25%)		13,563,030
CM and Admin (12%)		6,510,255
Pre-Design (5% of Component Total)		2,517,500
Design (7% of Component Total)		3,524,500
	Total	**$ 80,367,410**

*The **ninth** section of the project includes pipeline anchors, five subaqueous high density polyethelene (HDPE) lines (each 16,500 feet in length and 63 inches in diameter), five dredged HDPE pipelines (each 5,300 feet in length and 63 inches in diameter), and five cut/cover HDPE pipelines (each 6,600 feet in length and 63 inches in diameter) from the pressure regulating structure to the lake water line.*

Boulder Islands Outfall Pipeline

Description	Cost
Boulder Islands Outfall Pipeline	
Subaqueous Pipeline	$105,861,000
Open-Cut PRS to Water Line	3,072,000
Allowances (20%)	21,786,600
Total of Components	**130,719,600**
General Conditions/General Requirements (7.75%)	10,130,765
Subtotal	**140,850,365**
Contingency (25%)	35,212,590
CM and Admin (12%)	16,902,040
Pre-Design (2% of Component Total)	2,614,390
Design (2% of Component Total)	2,614,390
Total	**$198,193,775**

Operating Impact

The estimated expenditures for operations and maintenance of the SCOP are comprised of the following (FY 2012 dollars):

- Estimated cost for general maintenance – materials - $ 750,000 annually
- Estimated cost of member agency personnel utilized to operate and maintain power generation plant - $ 1,500,000 annually
- Estimated cost of member agency personnel utilized to operate and maintain City of Henderson pump station - $ 250,000 annually
- Estimated cost of member agency personnel to maintain connection structures/ pipelines - $ 500,000 annually
- Estimated cost of materials for replacement or damaged/worn parts - $ 1,650,000 annually

The estimated costs for operation and maintenance of the SCOP are based on industry estimates, taking into account maximum anticipated costs at start-up. Operating costs displayed above do not include replacement of major components, such as turbines. Replacement of major components is included in the long-range forecast for revenue requirements. It is anticipated turbines will need to be replaced on a 20-year basis, while the pumping station equipment at the City of Henderson will require rebuilds on a 10-year cycle. Since equipment at the pump station has redundancy, no total replacement of equipment is anticipated in current forecast models.

SCOP Cash Flow by Fiscal Year

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	OTHER COSTS		CONTINGENCIES		TOTAL COSTS		TOTAL + Annual Inflation
					%	Adj. Est. Cost	%	Adj. Est. Cost	2005 $		Adj. Est. Cost
2007-2008											**2007-2008**
	Preliminary Design										**$3,859,581**
	Boulder Islands Outfall - Subaqueous Pipeline	23%	$2,610,000	$593,750	0%	$0	10%	$59,375	$653,125		$724,969
	COH Pump Station	51%	$885,000	$455,750	0%	$0	10%	$45,575	$501,325		$556,471
	Tunnel - Reach 3	43%	$2,000,000	$857,750	0%	$0	10%	$85,775	$943,525		$1,047,313
	Tunnel - River Mountains 3	31%	$4,042,000	$1,253,750	0%	$0	10%	$125,375	$1,379,125		$1,530,829
	Final Design										**$16,604,378**
	Hydroelectric Power Facility	50%	$3,524,000	$1,762,000	0%	$0	10%	$176,200	$1,938,200		$2,151,402
	EI Pipeline - Reach 1	100%	$803,000	$803,000	0%	$0	10%	$80,300	$883,300		$980,463
	EI Pipeline - Reach 2	100%	$1,474,000	$1,474,000	0%	$0	10%	$147,400	$1,621,400		$1,799,754
	Tunnel - Reach 3	50%	$1,385,000	$692,500	0%	$0	10%	$69,250	$761,750		$845,543
	COH Connection to EI Pipeline	60%	$352,000	$211,200	0%	$0	10%	$21,120	$232,320		$257,875
	COH Pump Station	50%	$1,240,000	$620,000	0%	$0	10%	$62,000	$682,000		$757,020
	Tunnel - River Mountains 3	60%	$3,140,000	$1,884,000	0%	$0	10%	$188,400	$2,072,400		$2,300,364
	Boulder Islands Outfall - Subaqueous Pipeline	80%	$2,614,000	$2,091,200	0%	$0	10%	$209,120	$2,300,320		$2,553,355
	LDE Final Design	N/A	N/A	$2,411,099	0%	$0	10%	$241,110	$2,652,209		$2,943,952
	CM Final Design	N/A	N/A	$1,700,000	0%	$0	7%	$115,000	$1,815,000		$2,014,650
	Additional Services										**$2,990,303**
	CWC Administration			$1,222,000	5%	$73,681	0%	$0	$1,295,681		$1,438,206
	Professional Service Contracts			$516,000	5%	$25,800	0%	$0	$541,800		$601,398
	Environmental Mitigation			$258,000	5%	$12,900	0%	$0	$270,900		$300,699
	BBAMP Modeling			$129,000	5%	$6,135	0%	$0	$135,135		$150,000
	BBAMP Water Quality			$430,000	5%	$20,450	0%	$0	$450,450		$500,000
2007-2008	**YEARLY TOTALS**			**$19,364,999**		**$138,966**		**$1,626,000**	**$21,129,965**		**$23,454,262**

Totals may not equal due to rounding

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	OTHER COSTS		CONTINGENCIES		TOTAL COSTS		TOTAL + Annual Inflation
					%	Adj. Est. Cost	%	Adj. Est. Cost	2005 $		Adj. Est. Cost
2008-2009											**2008-2009**
	Final Design										**$6,301,055**
	Tunnel - Reach 3	50%	$1,385,000	$692,500	0%	$0	10%	$69,250	$761,750		$873,727
	COH Connection to EI Pipeline	40%	$352,000	$140,800	0%	$0	10%	$14,080	$154,880		$177,647
	COH Pump Station	50%	$1,240,000	$620,000	0%	$0	10%	$62,000	$682,000		$782,254
	Tunnel - River Mountains 3	40%	$3,140,000	$1,256,000	0%	$0	10%	$125,600	$1,381,600		$1,584,695
	Hydroelectric Generation Facility	50%	$3,524,000	$1,762,000	0%	$0	10%	$176,200	$1,938,200		$2,223,115
	Boulder Islands Outfall - Subaqueous Pipeline	20%	$2,614,000	$522,800	0%	$0	10%	$52,280	$575,080		$659,617
	Construction										**$74,764,107**
	EI Pipeline - Reach 1	80%	$16,071,000	$12,856,800	20%	$2,571,360	15%	$1,928,520	$17,356,680		$19,908,112
	EI Pipeline - Reach 2	40%	$29,477,000	$11,790,800	20%	$2,358,160	15%	$1,768,620	$15,917,580		$18,257,464
	Tunnel - Reach 3	15%	$46,171,000	$6,925,650	20%	$1,385,130	25%	$1,731,413	$10,042,193		$11,518,395
	COH Connection to EI Pipeline	15%	$7,037,000	$1,055,550	20%	$211,110	25%	$263,888	$1,530,548		$1,755,538
	COH Pump Station	5%	$17,700,000	$885,000	20%	$177,000	25%	$221,250	$1,283,250		$1,471,888
	Tunnel - River Mountains 3 - West	15%	$53,053,000	$7,957,950	20%	$1,591,590	25%	$1,989,488	$11,539,028		$13,235,265
	Tunnel - River Mountains 3 - East	10%	$51,814,000	$5,181,400	20%	$1,036,280	25%	$1,295,350	$7,513,030		$8,617,445
	Additional Services Contracts										**$3,089,979**
	CWC Administration			$1,222,000	5%	$73,681	0%	$0	$1,295,681		$1,486,146
	Professional Service Contracts			$516,000	5%	$25,800	0%	$0	$541,800		$621,445
	Environmental Mitigation			$258,000	5%	$12,900	0%	$0	$270,900		$310,722
	BBAMP Modeling			$129,000	5%	$6,135	0%	$0	$135,135		$155,000
	BBAMP Water Quality			$430,000	5%	$20,450	0%	$0	$450,450		$516,666
2008-09	**YEARLY TOTALS**			**$54,202,250**		**$9,469,596**		**$9,697,939**	**$73,369,785**		**$84,155,141**

Totals may not equal due to rounding

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	OTHER COSTS		CONTINGENCIES		TOTAL COSTS		TOTAL + Annual Inflation
					%	Adj. Est. Cost	%	Adj. Est. Cost	2005 $		Adj. Est. Cost
2009-2010											**2009-2010**
	Construction										**$283,019,619**
	EI Pipeline - Reach 1	20%	$16,071,000	$3,214,200	20%	$642,840	15%	$482,130	$4,339,170		$5,154,934
	EI Pipeline - Reach 2	50%	$29,477,000	$14,738,500	20%	$2,947,700	15%	$2,210,775	$19,896,975		$23,637,606
	Tunnel - Reach 3	85%	$46,171,000	$39,245,350	20%	$7,849,070	25%	$9,811,338	$56,905,758		$67,604,040
	COH Connection to EI Pipeline	70%	$7,037,000	$4,925,900	20%	$985,180	25%	$1,231,475	$7,142,555		$8,485,355
	COH Pump Station	55%	$17,700,000	$9,735,000	20%	$1,947,000	25%	$2,433,750	$14,115,750		$16,769,511
	Tunnel - River Mountains 3 - West	40%	$53,053,000	$21,221,200	20%	$4,244,240	25%	$5,305,300	$30,770,740		$36,555,639
	Tunnel - River Mountains 3 - East	35%	$51,814,000	$18,134,900	20%	$3,626,980	25%	$4,533,725	$26,295,605		$31,239,179
	Hydroelectric Generation Facility	30%	$50,350,000	$15,105,000	20%	$3,021,000	25%	$3,776,250	$21,902,250		$26,019,873
	Boulder Islands Outfall - Subaqueous Pipeline	30%	$130,720,000	$39,216,000	20%	$7,843,200	25%	$9,804,000	$56,863,200		$67,553,482
	Additional Service s Contracts										**$3,200,431**
	CWC Administration			$1,222,000	5%	$73,681	0%	$0	$1,295,681		$1,539,269
	Professional Service Contracts			$516,000	5%	$25,800	0%	$0	$541,800		$643,658
	Environmental Mitigation			$258,000	5%	$12,900	0%	$0	$270,900		$321,829
	BBAMP Modeling			$129,000	5%	$6,135	0%	$0	$135,135		$160,540
	BBAMP Water Quality			$430,000	5%	$20,450	0%	$0	$450,450		$535,135
2009-2010	**YEARLY TOTALS**			**$168,091,050**		**$33,246,176**		**$39,588,743**	**$240,925,969**		**$286,220,050**

Totals may not equal due to rounding

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	OTHER COSTS		CONTINGENCIES		TOTAL COSTS		TOTAL + Annual Inflation
					%	Adj. Est. Cost	%	Adj. Est. Cost	2005 $		Adj. Est. Cost
2010-2011											**2010-2011**
	Construction										**$218,593,489**
	EI Pipeline - Reach 2	10%	$29,477,000	$2,947,700	20%	$589,540	15%	$442,155	$3,979,395		$4,890,676
	COH Connection to EI Pipeline	15%	$7,037,000	$1,055,550	20%	$211,110	25%	$263,888	$1,530,548		$1,881,043
	COH Pump Station	40%	$17,700,000	$7,080,000	20%	$1,416,000	25%	$1,770,000	$10,266,000		$12,616,914
	Tunnel - River Mountains 3 - West	40%	$53,053,000	$21,221,200	20%	$4,244,240	25%	$5,305,300	$30,770,740		$37,817,239
	Tunnel - River Mountains 3 - East	35%	$51,814,000	$18,134,900	20%	$3,626,980	25%	$4,533,725	$26,295,605		$32,317,299
	Hydroelectric Generation Facility	40%	$50,350,000	$20,140,000	20%	$4,028,000	25%	$5,035,000	$29,203,000		$35,890,487
	Boulder Islands Outfall - Subaqueous Pipeline	40%	$130,720,000	$52,288,000	20%	$10,457,600	25%	$13,072,000	$75,817,600		$93,179,830
	Additional Services Contracts										**$3,310,884**
	CWC Administration			$1,222,000	5%	$73,681	0%	$0	$1,295,681		$1,592,392
	Professional Service Contracts			$516,000	5%	$25,800	0%	$0	$541,800		$665,872
	Environmental Mitigation			$258,000	5%	$12,900	0%	$0	$270,900		$332,936
	BBAMP Modeling			$129,000	5%	$6,135	0%	$0	$135,135		$166,081
	BBAMP Water Quality			$430,000	5%	$20,450	0%	$0	$450,450		$553,603
2010-11	**YEARLY TOTALS**			**$125,422,350**		**$24,712,436**		**$30,422,068**	**$180,556,854**		**$221,904,373**

Totals may not equal due to rounding

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	OTHER COSTS		CONTINGENCIES		TOTAL COSTS		TOTAL + Annual Inflation
					%	Adj. Est. Cost	%	Adj. Est. Cost	2005 $		Adj. Est. Cost
2011-2012											**2011-2012**
	Construction										**$124,195,348**
	Tunnel - River Mountains 3 - West	5%	$53,053,000	$2,652,650	20%	$530,530	25%	$663,163	$3,846,343		$4,892,548
	Tunnel - River Mountains 3 - East	20%	$51,814,000	$10,362,800	20%	$2,072,560	25%	$2,590,700	$15,026,060		$19,113,148
	Hydroelectric Generation Facility	30%	$50,350,000	$15,105,000	20%	$3,021,000	25%	$3,776,250	$21,902,250		$27,859,662
	Boulder Islands Outfall - Subaqueous Pipeline	30%	$130,720,000	$39,216,000	20%	$7,843,200	25%	$9,804,000	$56,863,200		$72,329,990
	Additional Services Contracts										**$3,426,725**
	CWC Administration			$1,222,000	5%	$73,681	0%	$0	$1,295,681		$1,648,106
	Professional Service Contracts			$516,000	5%	$25,800	0%	$0	$541,800		$689,170
	Environmental Mitigation			$258,000	5%	$12,900	0%	$0	$270,900		$344,585
	BBAMP Modeling			$129,000	5%	$6,135	0%	$0	$135,135		$171,892
	BBAMP Water Quality			$430,000	5%	$20,450	0%	$0	$450,450		$572,972
2011-12	**YEARLY TOTALS**			**$69,891,450**		**$13,606,256**		**$16,834,113**	**$100,331,819**		**$127,622,073**

Totals may not equal due to rounding

Fiscal Year	SCOP Component	% of Contract	Contract Total	Estimated Costs	OTHER COSTS		CONTINGENCIES		TOTAL COSTS		TOTAL + Annual Inflation
					%	Adj. Est. Cost	%	Adj. Est. Cost	2005 $		Adj. Est. Cost
2007-08	**YEARLY TOTALS**			**$19,364,999**		**$138,966**		**$ 1,626,000**	**$ 21,129,965**		**$23,454,262**
2008-09	**YEARLY TOTALS**			**$54,202,250**		**$9,469,596**		**$9,697,939**	**$73,369,785**		**$84,155,141**
2009-10	**YEARLY TOTALS**			**$168,091,050**		**$33,246,176**		**$39,588,743**	**$240,925,969**		**$286,220,050**
2010-11	**YEARLY TOTALS**			**$125,422,350**		**$24,712,436**		**$30,422,068**	**$180,556,854**		**$221,904,373**
2011-12	**YEARLY TOTALS**			**$69,891,450**		**$13,606,256**		**$16,834,113**	**$100,331,819**		**$127,622,073**
PROGRAM TOTALS				**$436,972,099**		**$81,173,430**		**$98,168,863**	**$616,314,392**		**$743,355,899**

Note: FYs 2005, 2006 and 2007 are not reflected in totals.

Totals may not equal due to rounding

Clean Water Coalition

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Clark County Water Reclamation DISTRICT

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