Phoenix Lake IRWM Retrofit

Attachment 4 - Budget

1.0 General Overview of Budget

This Attachment presents the budget for the Phoenix Lake IRWM Retrofit. Included are detailed estimates of costs and funding sources for all five component projects comprising the Retrofit. Also included are summary budgets for all five projects and a summary budget for the whole Retrofit proposal.

2.0 Explanation of Budget Items in Detailed Project Budgets

Following are notes that provide explanations and rationale for the various budget items.

- Budget category (a) Direct Project Administration costs are less than 5% of the
 individual project costs and the overall proposal cost. These costs have been
 generally allocated across the five projects according the each project's proportion
 of the total proposal construction cost. Specific additional costs in this category,
 e.g., preparation of an MOA between FZ9 and MMWD, have been allocated
 according to the needs of the individual projects, as noted in Attachment 3,
 Workplan.
- Budget category (b) Land Purchase/Easement has no cost because all proposal activities occur on property owned by MMWD; therefore, no land purchases or easements are needed.
- 3. Budget category (c) Planning/Design//Engineering/Environmental Documentation costs have been allocated according to the needs of the individual projects, except Environmental Documentation which has been allocated across the five projects according the each project's proportionate share of the total proposal construction cost, as noted in Attachment 3, Workplan.
 - A contingency of 25% has been assigned to this category for all projects because all projects are currently at the Concept (30%) Design stage and no environmental review or permitting work has been completed, except for an initial, informal consultation regarding dam issues with DSOD. The contingency is intended to cover unforeseen requirements that might arise as the projects progress through further stages of design, environmental review, and permitting.
- 4. Budget category (d) Construction/Implementation costs have been allocated according to the needs of the individual projects, as noted in Attachment 3, Workplan.

Construction costs derive primarily from the estimated costs given in the Concept (30%) Design memoranda for the various projects as indicated in Attachment 3, Workplan.

5. Budget category (e) Environmental Compliance/Mitigation/Enhancement costs have been allocated according to the needs of the individual projects, as noted in Attachment 3, Workplan.

A contingency of 25% has been assigned to this category for all projects because all projects are currently at the Concept (30%) Design stage and no environmental review or permitting work, such as informal consultations with resource agencies, has been completed. The contingency is intended to cover unforeseen environmental compliance and mitigation requirements that might arise as the projects progress through further stages of design, environmental review, and permitting.

6. Budget category (f) Construction Administration costs have been allocated according to the needs of the individual projects, as noted in Attachment 3, Workplan.

Costs include labor (a melded staff rate of \$80 per hour) and resources that will be expended by FZ9 and MMWD staff to monitor field construction work and administer contracts.

3.0 Explanation of Budget Items in Summary Budgets

Following are notes that provide explanations and rationale for the various budget items.

- 1. The summary budgets show a 50%/50% funding match for all projects categories across all projects. The source of the Non-State share is the FZ9 drainage fee.
- 2. A contingency of 25% has been assigned to Construction/Implementation Contingency for all projects because all projects are currently at the Concept (30%) Design stage and no environmental review or permitting work, such as informal consultations with resource agencies, has been completed. The contingency is intended to cover unforeseen construction costs that might arise as the projects progress through further stages of design, environmental review, and permitting and any unlisted items not detailed in the construction cost estimate.

Table 1a Project Budget

Proposal Title: Phoenix Lake IRWM Retrofit

Project Title: Flood Damage Reduction Project

		(a)	(b)	(c)	(d)	(e)
В	udgetary Category	Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$203,000	\$202,000	\$0	\$405,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	
Ι	Planning/Design/ Engineering/ Environmental Documentation	\$397,000	\$396,000	\$0	\$793,000	50%
(d)	Construction/ Implementation	\$4,126,000	\$4,125,000	\$0	\$8,251,000	50%
(e)	Environmental Compliance/ Mitigation/ Enhancement	\$131,000	\$130,000	\$0	\$261,000	50%
(f)	Construction Administration	\$202,000	\$202,000	\$0	\$404,000	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	
(h)	Construction/ Implementation Contingency (25%)	\$1,032,000	\$1,031,000	\$0	\$2,063,000	50%
(i)	Grand Total	\$6,089,000	\$6,088,000	\$0	\$12,177,000	50%

^{*} Non-State funding source: FZ9 drainage fee

Table 1b Project Budget

Proposal Title: Phoenix Lake IRWM Retrofit

Project Title: Water Supply Project

		(a)	(b)	(c)	(d)	(e)
Bu	dgetary Category	Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$15,000	\$15,000	\$0	\$30,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	
(c)	Planning/Design/ Engineering/ Environmental Documentation	\$71,000	\$70,000	\$0	\$141,000	50%
(d)	Construction/ Implementation	\$138,000	\$137,000	\$0	\$275,000	50%
(e)	Environmental Compliance/ Mitigation/ Enhancement	\$75,000	\$75,000	\$0	\$150,000	50%
(f)	Construction Administration	\$9,000	\$8,000	\$0	\$17,000	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	
(h)	Construction/ Implementation Contingency (25%)	\$35,000	\$34,000	\$0	\$69,000	50%
(i)	Grand Total	\$341,000	\$341,000	\$0	\$682,000	50%

^{*} Non-State funding source: FZ9 drainage fee

Table 1c Project Budget

Proposal Title: Phoenix Lake IRWM Retrofit

Project Title: Water Quality Project

		(a)	(b)	(c)	(d)	(e)
В	udgetary Category	Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$2,500	\$2,500	\$0	\$5,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	
I	Planning/Design/ Engineering/ Environmental Documentation	\$12,000	\$12,000	\$0	\$24,000	50%
(d)	Construction/ Implementation	\$68,000	\$67,000	\$0	\$135,000	50%
(e)	Environmental Compliance/ Mitigation/ Enhancement	\$75,000	\$75,000	\$0	\$150,000	50%
(f)	Construction Administration	\$17,000	\$17,000	\$0	\$34,000	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	
(h)	Construction/ Implementation Contingency (25%)	\$17,000	\$17,000	\$0	\$34,000	50%
(i)	Grand Total	\$191,000	\$191,000	\$0	\$382,000	50%

^{*} Non-State funding source: FZ9 drainage fee

Table 1d Project Budget

Proposal Title: Phoenix Lake IRWM Retrofit

Project Title: Ecosystem Restoration Project

		(a)	(b)	(c)	(d)	(e)
В	udgetary Category	Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$2,500	\$2,500	\$0	\$5,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0		
I	Planning/Design/ Engineering/ Environmental Documentation	\$50,000	\$49,000	\$0	\$99,000	50%
(d)	Construction/ Implementation	\$65,000	\$65,000	\$0	\$130,000	50%
(e)	Environmental Compliance/ Mitigation/ Enhancement	\$0	\$0	\$0		50%
(f)	Construction Administration	\$2,000	\$2,000	\$0	\$4,000	50%
(g)	Other Costs	\$0	\$0	\$0		
(h)	Construction/ Implementation Contingency (25%)	\$17,000	\$16,000	\$0	\$33,000	50%
(i)	Grand Total	\$136,000	\$135,000	\$0	\$271,000	50%

^{*} Non-State funding source: FZ9 drainage fee

Table 1e Project Budget

Proposal Title: Phoenix Lake IRWM Retrofit

Project Title: Recreation and Public Access Project

		(a)	(b)	(c)	(d)	(e)
Bı	udgetary Category	Non-State Share * (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$31,000	\$30,000	\$0	\$61,000	50%
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0	
I	Planning/Design/ Engineering/ Environmental Documentation	\$110,000	\$109,000	\$0	\$219,000	50%
(d)	Construction/ Implementation	\$554,000	\$554,000	\$0	\$1,108,000	50%
(e)	Environmental Compliance/ Mitigation/ Enhancement	\$6,500	\$6,500	\$0	\$13,000	50%
(f)	Construction Administration	\$66,000	\$66,000	\$0	\$132,000	50%
(g)	Other Costs	\$0	\$0	\$0	\$0	
(h)	Construction/ Implementation Contingency (25%)	\$139,000	\$138,000	\$0	\$277,000	50%
(i)	Grand Total	\$905,000	\$905,000	\$0	\$1,810,000	50%

^{*} Non-State funding source: FZ9 drainage fee

		(a)	(b)	(c)	(d)	(e)
Ind	ividual Project Title	Non-State Share * (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match
(a)	Flood Damage Reduction Project	\$6,089,000	\$6,088,000	\$0	\$12,177,000	50%
(b)	Water Supply Project	\$341,000	\$341,000	\$0	\$682,000	50%
(c)	Water Quality Project	\$191,000	\$191,000	\$0	\$382,000	50%
(d)	Ecosystem Recreation Project	\$136,000	\$135,000	\$0	\$271,000	50%
(e)	Recreation and Public Access Project	\$905,000	\$905,000	\$0	\$1,810,000	50%
(f)	Grand Total	\$7,661,000	\$7,661,000	\$0	\$15,322,000	50%

Project Budget Details Proposal Title: Phoenix Lake IRWM Retroft Project Title: Flood Damage Reduction Project

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iget Category (a): Direct Project Administration Costs				-																			Lahin.			
Task 1: Administration																		3860	60	\$ 313,600	\$ 9,40	8		S	323,008	
Task 2: Labor Compilance Program																		500		\$ 40,000	\$ 1,20	0		\$	41,200	
Task 3: Reporting																		500		\$ 40,000	\$ 1,20	0		\$	41,200	
Subtotal																				\$ 393,600	s 11,8	08		s	405,408	
udget Category (b): Land Purchase/Easement									14								les,								LHU	
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Task 5: Final Design	50	80	6	0 180	40	100	20	0 80	20									60	60	\$ 129,850	\$ 3,89	6		\$	133,746	
Task 6: Environmental Documentation	40									200	300	40	0 650	200	150	0		120	80	\$ 217,400	\$ 6,52	2		s	223,922	
Task 7: Permitting	1	40				60	10	10		100						5		100	40	\$ 128,900	\$ 3,86	7		s	132,767	
Sub-Subtotal		40	4			1	1	<u> </u>		1 100	1 100	4	7							\$ 532,475				s	634,449	
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dget Category (e): Environmental compliance/Mitigation/Enhancement						Т									Ī						T					
Task 10: Environmental Compliance/Mitigation/Enhancement	40	i .				40)					60	0					60	80	\$ 86,400	\$ 2,59)2		s	89,000	\$ 150,000
Contingency (25%)										0.25										\$ 21,600	\$ 64	18		\$	22,250	
Subtotal																				\$ 108,000	\$ 3,2	40		s	111,250	\$ 150,000
dget Category (f): Construction Administration																		TO SE								
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Total Costs			_			-			\$ 1,800				\$ 97,500				s -	\$ 440,000	10.		s 47,9	55		S	1,714,000	\$ 8,402,000

Project Budget Details
Proposal Title: Phoenix Lake IRWM Retroft
Project Title: Water Supply Project

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Task 1: Administration																		240	60	\$ 24,000	\$ 720			\$ 24,720		s
Task 2: Labor Compilance Program																		30		\$ 2,400	\$ 72			\$ 2,472		s
Task 3: Reporting																		30)	\$ 2,400	\$ 72			\$ 2,472		\$
Subtotal																				\$ 28,800	S 864			\$ 29,664		\$
Budget Category (b): Land Purchase/Easement	4 4 4 5																LI WI		5.14							4
Not needed																						ļ				
Budget Category (c): Planning/Design/Engineering/Environmental Documentation																										4
Task 4: Assessment and Evaluation	10	0 7	75 10	0	10														5 5	\$ 31,875	\$ 956	i		\$ 32,831		s
Task 5: Final Design	40	0 10	00 2	0 20	0 20														5 5	\$ 52,000	\$ 1,560	ĵ.		\$ 53,560		\$
Task 6: Environmental Documentation	10	0								10	0 20	0 20	0 4	0 10	0	5		19	5	\$ 13,950	\$ 419	i		\$ 14,369		\$
Task 7: Permitting	20	0 4	40															10	5	\$ 11,900	\$ 357	,		\$ 12,257		s
Sub-Subtotal																				\$ 109,725	\$ 3,292	2		\$ 113,017		s
Contingency (25%)										0,25	Į.									\$ 27,431	\$ 823	3		\$ 28,254		\$
Subtotal																				\$ 137,156	S 4,115	5		s 141,271		s
Budget Category (d): Construction/Implementation										SHI Z																4
Task 8: Construction Contracting	20	0 6	60															2	20	\$ 17,400	\$ 522	2			\$ 17,922	2 \$
Task 9: Construction																				s -	\$	-			\$ 257,000	0 \$
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Subtask 9.2 Project Construction																				s -	\$	-			\$ 237,000	00 \$
Subtask 9.3 Performance Testing and Demobilization																				\$ -	\$	- 0			\$ 8,000	0 \$
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Task 10: Environmental Compliance/Mitigation/Enhancement																				\$ -	\$			s -	\$ 150,000	0 S
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Budget Category (f): Construction Administration							100		The same									Tig V								
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Total Costs			5 \$ 18,600				s -	- \$ -	s -		-	\$ 2,000		-		s -	s -	-	\$ 10,400			1		s 188,000	\$ 425,000	00 \$

Project Budget Details Proposal Title: Phoenix Lake IRWM Retroft Project Title: Water Quality Project

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Task 2: Labor Compilance Program																			0							1
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Task 4: Assessment and Evaluation		Contractive Contractive														172	S 1									
Task 5: Final Design	4		Considerable Consideration														324	s								
Task 6: Environmental Documentation	- 3	5	Continue														382	\$								
Task 7: Permitting																ļ			5	\$ 400 \$	12			s	112	\$
Sub-Subtotal														10						\$ 18,825 \$	565			\$ 19,	390	s 1
Contingency (25%)										0.3	25									\$ 4,706 \$	141			\$ 4,	347	s
Subtotal																				\$ 23,531 S	706			S 24	237	S 2
Budget Category (d): Construction/Implementation								-			MILE															
Task 8: Construction Contracting	1	0	40															2	0 10	\$ 11,250 \$	338				\$ 11,58	S 1
Task 9: Construction																		710		s - s	1-				\$ 123,00	\$ 12
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Subtask 9.3 Performance Testing and Demobilization																				s - s	Ve				\$ 2,00	s s
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Project Budget Details Proposal Title: Phoenix Lake IRWM Retroft Project Title: Ecosystem Restoration Project

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Project Budget Details

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Budget Category (a): Direct Project Administration Costs																Ī		600		\$ 48,000	\$ 1,440			\$ 40	140	- 5
Task 1: Administration																		700								-
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Task 3: Reporting	<u> </u>									1			1					70	1							-
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Budget Category (b): Land Purchase/Easement			T		l	1							T	T		Ι								T	T	7
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Budget Category (c): Planning/Design/Engineering/ Environmental Documentation			T							T T			1													4
Task 4: Assessment and Evaluation													di							s -	S -			\$	•	s
Task 5: Final Design	40	200	80	400	0 20)												20	60	\$ 106,400	\$ 3,192			\$ 109,	592	\$
Task 6: Environmental Documentation										20	60	61	0 8	0 20	2	0		20	40	\$ 31,600	\$ 948			\$ 32,	548	S
Task 7: Permitting		20	1														063	s								
Sub-Subtotal																				\$ 170,100	\$ 5,103			\$ 175	203	\$
Contingency (25%)										0.25										\$ 42,525	\$ 1,276			\$ 43	801	\$
Subtotal																				S 212,625	\$ 6,379			S 219	004	s
Budget Category (d): Construction/Implementation	LIETE,																							NA SE		4
Task 8: Construction Contracting	10	80)															20	60	\$ 22,250	\$ 668				\$ 22,91	18 \$
Task 9; Construction																				s -	\$ =				\$ 1,085,00	00 \$
Subtask 9.1 Mobilization and Site Preparation																				\$ -	s -				\$ 24,00	000 \$
Subtask 9.2 Project Construction																				s -	s -				\$ 1,034,00	000 \$
Subtask 9.3 Performance Testing and Demobilization																				s -	s -				\$ 27,00	000 \$
Subtask 9.4 Monitoring system																				s -	s -		11			
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Budget Category (e): Environmental compliance/Mitigation/Enhancement					The same					1 70 17																
Task 10: Environmental Compliance/Mitigation/Enhancement												100	0							s 10,000	\$ 300			\$ 10	300	s
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Budget Category (f): Construction Administration Task 11: Construction Administration	20	100		1		T						888	0			Г		1	200	S 128,400	s 3,852			s 132	300	s
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