Client

City of Colusa

Project Job No. Est. By Date

Water Master Plan Update 22-5-060

Cost Estimate for City of Colusa Water Master Plan Update

DD NO.	22-5-060	
st. By	AC/OS	
ate	5/19/2022	

Task 1.1 – Project Kickoff  Task 1.2 – Project Coordination, Meetings and Administration  Task 1.3 – Data Review and Tabulation  Task 2 – Evaluate Existi  Task 2.1 - Evaulate Data and Develop Water Use Factors  Task 2.2 – Hydraulic Model Update  Task 2.3 – Develop Summary TM	SubTotal  Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Hours	2 \$450 \$450 12 \$2,700 \$2,700	\$200 \$400 \$400 \$6,000 \$6,000 \$6,000 4 \$800 \$800 \$800 \$2,000 \$2,000 \$3,200 \$3,200	\$175 4 \$700 \$700 \$700 \$700 16 \$2,800 \$2,800 \$3,500 \$3,500 40 \$7,000 \$7,000 \$1,400	\$83	sk Cost Estimate	\$8,700 20 \$3,600 \$0 \$3,600 \$13,909  24 \$4,300 \$0 \$4,300 \$9,000
Task 1.1 – Project Kickoff  Task 1.2 – Project Coordination, Meetings and Administration  Task 1.3 – Data Review and Tabulation  Task 2. – Evaluate Existi Task 2.1 - Evaulate Data and Develop Water Use Factors  Task 2.2 – Hydraulic Model Update  Task 2.3 – Develop Summary TM  Task 3.1 - Evaulate Water Distribution & Metering System  Task 3.2 – Develop	Task Hours Task Cost Direct Expenses SubTotal	2 \$450 \$450 12 \$2,700 \$2,700	\$400 \$400 30 \$6,000 \$6,000 4 \$800 \$800 \$800 10 \$2,000 \$2,000 4 \$3,200	\$700 \$700 \$700 \$16 \$2,800 \$2,800 \$3,500 \$3,500 \$7,000 \$7,000	Total Ta	sk Cost Estimate	\$1,600 \$1,600 \$8,700 \$8,700 \$3,600 \$13,900 \$13,900 \$4,300 \$50 \$9,000 \$12
Task 1.2 - Project Coordination, Meetings and Administration  Task 1.3 - Data Review and Tabulation  Task 2 - Evaluate Existi  Task 2.1 - Evaulate Data and Develop Water Use Factors  Task 2.2 - Hydraulic Model Update  Task 2.3 - Develop Summary TM  Task 3 - Evaluate Water Task 3.1 - Evaulate Water Distribution & Metering System	Task Cost Direct Expenses SubTotal Task Hours Task Hours Task Hours Task Cost Direct Expenses SubTotal	\$450 \$450 12 \$2,700 \$2,700	\$400 \$400 30 \$6,000 \$6,000 4 \$800 \$800 \$800 10 \$2,000 \$2,000 4 \$3,200	\$700 \$700 \$700 \$16 \$2,800 \$2,800 \$3,500 \$3,500 \$7,000 \$7,000	Total Ta	sk Cost Estimate	\$1,600 \$1,600 \$8,700 \$8,700 \$3,600 \$13,900 \$13,900 \$4,300 \$50 \$9,000 \$12
Task 1.2 - Project Coordination, Meetings and Administration  Task 1.3 - Data Review and Tabulation  Task 2 - Evaluate Existi  Task 2.1 - Evaulate Data and Develop Water Use Factors  Task 2.2 - Hydraulic Model Update  Task 2.3 - Develop Summary TM  Task 3 - Evaluate Water Task 3.1 - Evaulate Water Distribution & Metering System	SubTotal  Task Hours Task Cost Direct Expenses SubTotal	\$450 12 \$2,700 \$2,700	\$400 30 \$6,000 \$6,000 4 \$800 \$800 \$800 \$10 \$2,000 \$2,000 4 \$3,200	\$700 16 \$2,800 \$2,800 \$3,500 \$3,500 40 \$7,000 87,000	Total Ta	sk Cost Estimate	\$1,609 42 \$8,700 \$0 \$8,700 \$0 \$3,600 \$13,909 \$13,909 \$24 \$4,300 \$50 \$9,000 \$12
Coordination, Meetings and Administration  Task 1.3 – Data Review and Tabulation  Task 2 – Evaluate Existi  Task 2.1 - Evaulate Data and Develop Water Use Factors  Task 2.2 – Hydraulic Model Update  Task 2.3 – Develop Summary TM  Task 3 – Evaluate Water Task 3.1 - Evaulate Water Distribution & Metering System	Task Hours Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Cost Direct Expenses SubTotal	12 \$2,700 \$2,700	\$6,000 \$6,000 4 \$800 \$800 \$800 10 \$2,000 \$2,000 4 \$3,200	20 \$3,500 \$3,500 40 \$7,000 87	Total Ta	sk Cost Estimate	42 \$8,700 \$8,700 20 \$3,600 \$3,600 \$13,909 24 \$4,300 \$4,300 \$9,000
Coordination, Meetings and Administration  Task 1.3 – Data Review and Tabulation  Task 2 – Evaluate Existi  Task 2.1 - Evaulate Data and Develop Water Use Factors  Task 2.2 – Hydraulic Model Update  Task 2.3 – Develop Summary TM  Task 3 – Evaluate Water Task 3.1 - Evaulate Water Distribution & Metering System	Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Hours Task Hours Task Hours Task Hours Task Hours Task Cost Direct Expenses SubTotal	\$2,700 \$2,700	\$6,000 \$6,000 4 \$800 \$800 \$800 10 \$2,000 \$2,000 4 \$3,200	\$2,800 \$2,800 \$3,500 \$3,500 40 \$7,000 \$7,000	Total Ta	sk Cost Estimate	\$8,700 \$0,500 \$8,700 \$3,600 \$3,600 \$13,909 \$13,909 \$4,300 \$9,000 \$9,000
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and Tabulation  Task 2 – Evaluate Existi  Task 2.1 - Evaulate Data and Develop Water Use Factors  Task 2.2 – Hydraulic Model Update  Task 2.3 – Develop Summary TM  Task 3 – Evaluate Water  Task 3.1 - Evaulate Water Distribution & Metering System	Task Hours Task Cost Direct Expenses SubTotal  Task Hours Task Cost Direct Expenses	ls .	\$800 \$800 \$800 \$800 \$2,000 \$2,000 \$2,000 \$3,200	\$2,800 \$2,800 \$3,500 \$3,500 40 \$7,000 \$7,000	Total Ta	sk Cost Estimate	20 \$3,600 \$3,600 \$13,909 24 \$4,300 \$0 \$4,300 \$9,000
and Tabulation  Task 2 – Evaluate Existi  Task 2.1 - Evaulate Data and Develop Water Use Factors  Task 2.2 – Hydraulic Model Update  Task 2.3 – Develop Summary TM  Task 3 – Evaluate Water  Task 3.1 - Evaulate Water Distribution & Metering System	Direct Expenses SubTotal  mg and Future Water Demand Task Hours Task Cost Direct Expenses SubTotal		\$800 \$800 \$800 10 \$2,000 \$2,000 4 \$3,200	\$2,800 \$3,500 \$3,500 40 \$7,000 \$7,000	Total Ta	sk Cost Estimate	\$3,600 \$0 \$3,600 \$13,909 24 \$4,300 \$0 \$4,300 \$9,000 \$9,000
Task 2 - Evaluate Existi Task 2.1 - Evaulate Data and Develop Water Use Factors  Task 2.2 - Hydraulic Model Update  Task 2.3 - Develop Summary TM  Task 3 - Evaluate Water Task 3.1 - Evaulate Water Distribution & Metering System	SubTotal  Task Hours Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal		\$800 \$800 10 \$2,000 \$2,000 4 \$3,200	20 \$3,500 \$3,500 40 \$7,000 \$7,000	Total Ta	sk Cost Estimate	\$3,600 \$13,909 24 \$4,300 \$0 \$4,300 50 \$9,000 \$0
Task 2.1 - Evaulate Data and Develop Water Use Factors  Task 2.2 - Hydraulic Model Update  Task 2.3 - Develop Summary TM  Task 3 - Evaluate Water Task 3.1 - Evaulate Water Distribution & Metering System	Task Hours Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal Task Cost Direct Expenses SubTotal Direct Expenses SubTotal		\$800 \$800 10 \$2,000 \$2,000 4 \$3,200	20 \$3,500 \$3,500 40 \$7,000 \$7,000	Total Ta	sk Cost Estimate	\$13,909  24 \$4,300 \$0 \$4,300  50 \$9,000 \$12
Task 2.1 - Evaulate Data and Develop Water Use Factors  Task 2.2 - Hydraulic Model Update  Task 2.3 - Develop Summary TM  Task 3 - Evaluate Water Task 3.1 - Evaulate Water Distribution & Metering System	Task Hours Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal Task Cost Direct Expenses SubTotal Direct Expenses SubTotal		\$800 \$800 10 \$2,000 \$2,000 4 \$3,200	\$3,500 \$3,500 40 \$7,000 \$7,000			24 \$4,300 \$0 \$4,300 50 \$9,000 \$0
and Develop Water Use Factors  Task 2.2 – Hydraulic Model Update  Task 2.3 – Develop Summary TM  Task 3 – Evaluate Water  Task 3.1 - Evaulate Water Distribution & Metering System  Task 3.2 – Develop	Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal Task Cost Direct Expenses SubTotal	stems	\$800 \$800 10 \$2,000 \$2,000 4 \$3,200	\$3,500 \$3,500 40 \$7,000 \$7,000			\$4,300 \$0 \$4,300 50 \$9,000 \$0 \$9,000
and Develop Water Use Factors  Task 2.2 – Hydraulic Model Update  Task 2.3 – Develop Summary TM  Task 3 – Evaluate Water  Task 3.1 - Evaulate Water Distribution & Metering System  Task 3.2 – Develop	Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal Task Cost Direct Expenses SubTotal Direct Expenses SubTotal	stems	\$800 10 \$2,000 \$2,000 4 \$3,200	\$3,500 40 \$7,000 \$7,000			\$4,300 \$0 \$4,300 \$9,000 \$9,000
Task 2.2 – Hydraulic Model Update  Task 2.3 – Develop Summary TM  Task 3 – Evaluate Water  Task 3.1 - Evaulate  Water Distribution & Metering System  Task 3.2 – Develop	SubTotal Task Hours Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal  Direct Expenses SubTotal  Distribution and Metering Sy Task Hours Task Cost	stems	\$2,000 \$2,000 \$2,000 4 \$3,200	\$7,000 \$7,000 \$7,000			\$4,300 50 \$9,000 \$0 <b>\$9,00</b>
Model Update  Task 2.3 – Develop Summary TM  Task 3 – Evaluate Water  Task 3.1 - Evaulate Water Distribution & Metering System  Task 3.2 – Develop	Task Cost Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal  Distribution and Metering Sy Task Hours Task Cost	stems	\$2,000 \$2,000 4 \$3,200	\$7,000 \$7,000 8			\$9,000 \$0 <b>\$9,00</b> 0
Model Update  Task 2.3 – Develop Summary TM  Task 3 – Evaluate Water  Task 3.1 - Evaulate Water Distribution & Metering System  Task 3.2 – Develop	Direct Expenses SubTotal Task Hours Task Cost Direct Expenses SubTotal  Distribution and Metering Sy Task Hours Task Cost	stems	\$2,000 4 \$3,200	\$7,000			\$0 <b>\$9,000</b> 12
Task 2.3 – Develop Summary TM  Task 3 – Evaluate Water  Task 3.1 - Evaulate  Water Distribution &  Metering System  Task 3.2 – Develop	SubTotal Task Hours Task Cost Direct Expenses SubTotal  Distribution and Metering Sy Task Hours Task Cost	stems	\$3,200	8			<b>\$9,000</b>
Summary TM  Task 3 – Evaluate Water  Task 3.1 - Evaulate  Water Distribution &  Metering System  Task 3.2 – Develop	Task Cost Direct Expenses SubTotal  Distribution and Metering Sy  Task Hours Task Cost	stems	\$3,200				
Summary TM  Task 3 – Evaluate Water  Task 3.1 - Evaulate  Water Distribution &  Metering System  Task 3.2 – Develop	Direct Expenses SubTotal  Distribution and Metering Sy Task Hours Task Cost	stems		Φ1, <del>4</del> 00			64.000
Task 3.1 - Evaulate Water Distribution & Metering System Task 3.2 - Develop	Distribution and Metering Sy Task Hours Task Cost	stems	\$3,200				\$4,600 \$0
Task 3.1 - Evaulate Water Distribution & Metering System Task 3.2 - Develop	Task Hours Task Cost	stems		\$1,400	T-4 15	als Contact	\$4,600
Task 3.1 - Evaulate Water Distribution & Metering System Task 3.2 - Develop	Task Hours Task Cost	3(EIIIS			Total Ta	sk Cost Estimate	\$17,900
Water Distribution & Metering System  Task 3.2 – Develop	Task Cost		8	20			28
Metering System  Task 3.2 - Develop	Direct Expenses		\$1,600	\$3,500			\$5,100
	SubTotal		\$1,600	\$3,500			\$0 \$5,100
	Task Hours		4	12			<b>\$5,100</b>
Summary IM	Task Cost		\$800	\$2,100			\$2,900
	Direct Expenses SubTotal		\$800	\$2,100			\$0 <b>\$2,900</b>
					Total Ta	sk Cost Estimate	\$8,000
Task 4 – Evaluate Wells	and Treatment Systems						
	Task Hours			24			24
Task 4.1 - Field Visit	Task Cost Direct Expenses			\$4,200		\$59	\$4,200 \$59
	ŞubTotal			\$4,200			\$4,259
Task 4.2 – Evaluate	Task Hours Task Cost		\$1,600	20 \$3,500			28 \$5,100
Wells & Treatment Systems	Direct Expenses						\$0
-,	SubTotal Task Hours		\$1,600	\$3,500 12			<b>\$5,10</b> 0
Task 4.3 - Develop	Task Cost		\$800	\$2,100			\$2,900
Summary TM	Direct Expenses SubTotal		\$800	\$2,100			\$0 \$2,900
1-11	04010141			55,100	Total Ta	sk Cost Estimate	\$12,259
Task 5 – Source Capacit	y and Storage Analysis						
Task 5.1 - Evaulate	Task Hours		4	12			16
Source Capacity and	Task Cost Direct Expenses		\$800	\$2,100			\$2,900 \$0
Storage	SubTotal		\$800	\$2,100			\$2,900
Task 5.2 - Develop	Task Hours Task Cost		\$800	\$1,400			12 \$2,200
Summary TM	Direct Expenses						\$0
	SubTotal		\$800	\$1,400	Total Ta	sk Cost Estimate	\$2,200 \$5,100
Task 6 – Capital Improve	ment Plan				TOTAL 18	or Ange Farmara	ΨJ, 100
. 207 4 - Oubital Implove	Task Hours	8	16	40		Т	64
Task 6.1 - Develop CIP	Task Cost	\$1,800	\$3,200	\$7,000			\$12,000
201010p 011	Direct Expenses SubTotal	\$1,800	\$3,200	\$7,000		<del></del>	\$0 \$12,000
				1000000	Total Ta	sk Cost Estimate	\$12,000
Task 7 – Draft and Final	Master Plan Update Preparati	on					
- 1 - 4	Task Hours	4	20	20	2		46
Task 7.1 - Draft Master Plan	Task Cost Direct Expenses	\$900	\$4,000	\$3,500	\$166	\$200	\$8,566 \$200
	SubTotal	\$900	\$4,000	\$3,500	\$166		\$8,766
Task 7.2 -	Task Hours Task Cost	\$4,500	20 \$4,000			+	40 \$8,500
Presentations to City Staff/Council	Direct Expenses					\$59	\$59
- Jan Joung	SubTotal	\$4,500	\$4,000	10	2		<b>\$8,559</b>
Task 7.3 – Final Master	Task Hours Task Cost		\$1,200	\$1,750	\$166		\$3,116
Plan	Direct Expenses		\$1,200	\$1,750	\$166	\$100	\$100 <b>\$3,21</b> 6
	SubTotal		φ1,200	J1,/5U		sk Cost Estimate	\$3,216 \$20,541
	Total LSCE Hours	46	148	266	4		460
SUMMARY	Total LSCE Cost Direct Expenses	\$1 <u>0,350</u>	\$32,000	\$46,550	\$332	\$417	\$89,232 \$417