

FEATURE: San Joaquin River Seepage Mitigation - Reach 4 Option: Soil-bentonite slurry cutoff wall - 40 ft deep wall Preliminary estimate per mile of wall length	PROJECT: San Joaquin River Restoration Program, California <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">WOID: AF648</td> <td>ESTIMATE LEVEL: Preliminary</td> </tr> <tr> <td>REGION: MP</td> <td>UNIT PRICE LEVEL: Jan-11</td> </tr> </table> FILE: C:\Documents and Settings\ddonaldson\Desktop\SJR Cutoff Wall\SJR - SB Cutoff 40 foot deep Wall.xlsx Template Sheet 1	WOID: AF648	ESTIMATE LEVEL: Preliminary	REGION: MP	UNIT PRICE LEVEL: Jan-11
WOID: AF648	ESTIMATE LEVEL: Preliminary				
REGION: MP	UNIT PRICE LEVEL: Jan-11				

PLANT ACCOUNT	PAY ITEM	DESCRIPTION	CODE	QUANTITY	UNIT	UNIT PRICE	AMOUNT	
	1	Mobilization (cost shown below Subtotal 1)			LS			
	2	Excavate trench for cutoff wall Assume wall is 3 ft wide x 40 ft deep x 5280 ft long (23,500 cy or 211,200 SF)		211,200	SF	\$15.00	\$3,168,000.00	
	3	Furnish bentonite for slurry (cost included in item 2 above)		3,100	Tons			
	4	Mix bentonite and excavated soil into slurry (cost included in item 2 above)		23,500	CY			
	5	Place slurry into trench (cost included in item 2 above)		23,500	CY			
		Subtotal 1					\$3,168,000.00	
		Mobilization	5%	+/-			\$160,000.00	
		Subtotal 1 with Mobilization					\$3,328,000.00	
		Design Contingencies	20%	+/-			\$665,600.00	
		Subtotal 2 = Subtotal 1 + Design Contingencies					\$3,993,600.00	
		Allowance for Procurement Strategies (APS)	3.0%	+/-			\$119,808.00	
		Type of solicitation assumed is: Request for Proposal (RFP)						
		Subtotal 3 = Subtotal 2 + APS					\$4,113,408.00	
		CONTRACT COST					\$4,100,000.00	
		Construction Contingencies	25%	+/-			\$1,000,000.00	
		FIELD COST					\$5,100,000.00	

Ref.: For appropriate use and terminology, see Reclamation Manual, Directives and Standards FAC; 09-01, 09-02 and 09-03.

QUANTITIES		PRICES	
BY Wayne Young	CHECKED Jeanne Major	BY Dan Donaldson <i>DD</i>	CHECKED <i>AA</i>
DATE PREPARED 04/14/11	PEER REVIEW / DATE Jeanne Major	DATE PREPARED 05/03/11	PEER REVIEW / DATE <i>Rob</i>

FEATURE: San Joaquin River Seepage Mitigation - Reach 4 Option: Soil-bentonite slurry cutoff wall - 60 ft deep wall Preliminary estimate per mile of wall length	PROJECT: San Joaquin River Restoration Program, California <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">WOID:</td> <td style="width:30%;">AF648</td> <td style="width:30%;">ESTIMATE LEVEL:</td> <td style="width:10%;">Preliminary</td> </tr> <tr> <td>REGION:</td> <td>MP</td> <td>UNIT PRICE LEVEL:</td> <td>Jan-11</td> </tr> </table> FILE: C:\Documents and Settings\donaldson\Desktop\SJR Cutoff Wall\SJR - SB Cutoff 60 foot deep Wall.xlsx\Template Sheet 1	WOID:	AF648	ESTIMATE LEVEL:	Preliminary	REGION:	MP	UNIT PRICE LEVEL:	Jan-11
WOID:	AF648	ESTIMATE LEVEL:	Preliminary						
REGION:	MP	UNIT PRICE LEVEL:	Jan-11						

PLANT ACCOUNT	PAY ITEM	DESCRIPTION	CODE	QUANTITY	UNIT	UNIT PRICE	AMOUNT	
	1	Mobilization (cost shown below Subtotal 1)			LS			
	2	Excavate trench for cutoff wall Assume wall is 3 ft wide x 60 ft deep x 5280 ft long (35,200 cy or 316,800 SF)		316,800	SF	\$18.00	\$5,702,400.00	
	3	Furnish bentonite for slurry (cost included in item 2 above)		4,600	Tons			
	4	Mix bentonite and excavated soil into slurry (cost included in item 2 above)		35,200	CY			
	5	Place slurry into trench (cost included in item 2 above)		35,200	CY			
		Subtotal 1					\$5,702,400.00	
		Mobilization	5%	+/-			\$290,000.00	
		Subtotal 1 with Mobilization					\$5,992,400.00	
		Design Contingencies	20%	+/-			\$1,198,480.00	
		Subtotal 2 = Subtotal 1 + Design Contingencies					\$7,190,880.00	
		Allowance for Procurement Strategies (APS)	3.0%	+/-			\$215,726.00	
		Type of solicitation assumed is: Request for Proposal (RFP)						
		Subtotal 3 = Subtotal 2 + APS					\$7,406,606.00	
		CONTRACT COST					\$7,400,000.00	
		Construction Contingencies	25%	+/-			\$1,900,000.00	
		FIELD COST					\$9,300,000.00	

Ref.: For appropriate use and terminology, see Reclamation Manual, Directives and Standards FAC; 09-01, 09-02 and 09-03.

QUANTITIES		PRICES	
BY Wayne Young	CHECKED Jeanne Major	BY Dan Donaldson <i>DD</i>	CHECKED <i>HA</i>
DATE PREPARED 04/14/11	PEER REVIEW / DATE Jeanne Major	DATE PREPARED 05/03/11	PEER REVIEW / DATE <i>HA</i>

FEATURE: San Joaquin River Seepage Mitigation - Reach 4 Option: Soil-cement-bentonite slurry cutoff wall - 60 feet deep wall Preliminary estimate per mile of wall length	PROJECT: San Joaquin River Restoration Program, California <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">WOID: AF648</td> <td style="width:33%;">ESTIMATE LEVEL: Preliminary</td> </tr> <tr> <td>REGION: MP</td> <td>UNIT PRICE LEVEL: Jan-11</td> </tr> </table> FILE: C:\Documents and Settings\ddonaldson\Desktop\SJR Cutoff Wall\SJR - SCB Cutoff 60 foot deep Wall.xlsx\Template Sheet 1	WOID: AF648	ESTIMATE LEVEL: Preliminary	REGION: MP	UNIT PRICE LEVEL: Jan-11
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PLANT ACCOUNT	PAY ITEM	DESCRIPTION	CODE	QUANTITY	UNIT	UNIT PRICE	AMOUNT	
	1	Mobilization (cost shown below Subtotal 1)			LS			
	2	Excavate trench for cutoff wall Assume wall is 3 ft wide x 60 ft deep x 5280 ft long (35,200 cy or 316,800 SF)		316,800	SF	\$25.00	\$7,920,000.00	
	3	Furnish bentonite for slurry (cost included in item 2 above)		4,600	Tons			
	4	Furnish cement for slurry (cost included in item 2 above)		16,850	Tons			
	5	Mix bentonite and excavated soil into slurry (cost included in item 2 above)		35,200	CY			
	6	Place slurry into trench (cost included in item 2 above)		35,200	CY			
		Subtotal 1					\$7,920,000.00	
		Mobilization	5%	+/-			\$400,000.00	
		Subtotal 1 with Mobilization					\$8,320,000.00	
		Design Contingencies	20%	+/-			\$1,664,000.00	
		Subtotal 2 = Subtotal 1 + Design Contingencies					\$9,984,000.00	
		Allowance for Procurement Strategies (APS)	3.0%	+/-			\$299,520.00	
		Type of solicitation assumed is: Request for Proposal (RFP)						
		Subtotal 3 = Subtotal 2 + APS					\$10,283,520.00	
		CONTRACT COST					\$10,500,000.00	
		Construction Contingencies	25%	+/-			\$2,500,000.00	
		FIELD COST					\$13,000,000.00	

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QUANTITIES		PRICES	
BY Wayne Young	CHECKED Jeanne Major	BY Dan Donaldson <i>DD</i>	CHECKED <i>MS</i>
DATE PREPARED 04/14/11	PEER REVIEW / DATE Jeanne Major	DATE PREPARED 05/03/11	PEER REVIEW / DATE <i>MS</i>