

Appendix C
Approximate Costings for the Restoration

Rutherford Dust Society
RESTORATION OF THE RUTHERFORD REACH, NAPA RIVER, CALIFORNIA
REACH 1 (2000 lf)

ENGINEERS ESTIMATE (Conceptual)
April 24, 2003

Item	Description	Unit	Quantity	Unit Cost	Total Cost
General / Site Work					
1	Mobilization and Demobilization	LS	1	64,300	\$ 64,300
2	Clearing and Grubbing	Acres	1.0	1,000	1,000
3	Power Pole Relocation	EA	-	1,500	-
4	Levee Earthwork	CY	1,000	10	10,000
5	Terrace Earthwork	CY	-	8	-
6	In-channel Earthwork	CY	-	30	-
Structural - Biotechnical Creek Treatments					
7	Brush Mat	LF	-	150	-
8	Bank Stabilization	LF	-	300	-
9	Rock Barbs	EA	32	20,000	640,000
10	Terrace Roughness Elements	EA	16	3,000	48,000
11	Log Complexes	EA	32	15,000	480,000
12					-
13	Water and Sediment Control	EA	8	5,000	40,000
Planting					
14	Site Preparation	LS	1	8,000	8,000
15	Erosion Control Fabric	Acres	1	4,000	4,000
16	Planting	Acres	1	7,000	7,000
17	One-year Maintenance	Months	12.00	4,000	48,000

SUBTOTAL	\$ 1,350,300
CONTINGENCIES	20% \$ 270,100
TOTAL ESTIMATED COST	\$ 1,620,400

Full restoration design fee \$162,040
Note: all numbers are estimated
probable cost

Rutherford Dust Society
RESTORATION OF THE RUTHERFORD REACH, NAPA RIVER, CALIFORNIA
REACH 2 (4100 lf)

ENGINEERS ESTIMATE (Conceptual)
April 24, 2003

Item	Description	Unit	Quantity	Unit Cost	Total Cost
General / Site Work					
1	Mobilization and Demobilization	LS	1	48,300	\$ 48,300
2	Clearing and Grubbing	Acres	2.3	1,000	2,300
3	Power Pole Relocation	EA	-	1,500	-
4	Levee Earthwork	CY	7,400	10	74,000
5	Terrace Earthwork	CY	-	8	-
6	In-channel Earthwork	CY	-	30	-
Structural - Biotechnical Creek Treatments					
7	Brush Mat	LF	1,200	150	180,000
8	Bank Stabilization - Log and Rock Toe Revet	LF	1,200	300	360,000
9	Rock Barbs	EA	-	30,000	-
10	Terrace Roughness Elements	EA	20	3,000	60,000
11	Vegetated Soil Lifts	LF	600	300	180,000
12					-
13	Water and Sediment Control	EA	10	5,000	50,000
Planting					
14	Site Preparation	LS	1	10,000	10,000
15	Erosion Control Fabric	Acres	1	4,000	4,000
16	Planting	Acres	2	7,000	16,100
17	One-year Maintenance	Months	12.00	2,500	30,000

SUBTOTAL		\$ 1,014,700
CONTINGENICES	20%	\$ 202,900
TOTAL ESTIMATED COST		\$ 1,217,600

Full restoration design fee \$121,760
Note: all numbers are estimated
probable cost

Rutherford Dust Society
RESTORATION OF THE RUTHERFORD REACH, NAPA RIVER, CALIFORNIA
REACH 4 (3500 lf)

ENGINEERS ESTIMATE (Conceptual)
April 24, 2003

Item	Description	Unit	Quantity	Unit Cost	Total Cost
General / Site Work					
1	Mobilization and Demobilization	LS	1	89,000	\$ 89,000
2	Clearing and Grubbing	Acres	8.0	1,000	8,000
3	Power Pole Relocation	EA	10	1,500	15,000
4	Levee Earthwork	CY	10,900	10	109,000
5	Terrace Earthwork	CY	169,000	8	1,352,000
6	In-channel Earthwork	CY	-	30	-
Structural - Biotechnical Creek Treatments					
7	Brush Mat	LF	500	150	75,000
8	Bank Stabilization	LF	-	300	-
9	Rock Barbs	EA	-	30,000	-
10	Terrace Roughness Elements	EA	12	3,000	36,000
11					-
12					-
13	Water and Sediment Control	EA	5	5,000	25,000
Planting					
14	Site Preparation	LS	1	20,000	20,000
15	Erosion Control Fabric	Acres	3	4,000	12,800
16	Planting	Acres	10	7,000	67,200
17	One-year Maintenance	Months	12.00	5,000	60,000

SUBTOTAL		<u>\$ 1,869,000</u>
CONTINGENCIES	20%	<u>\$ 373,800</u>
TOTAL ESTIMATED COST		\$ 2,242,800

Full restoration design fee \$336,420
Note: all numbers are estimated
probable cost

Rutherford Dust Society
RESTORATION OF THE RUTHERFORD REACH, NAPA RIVER, CALIFORNIA
REACH 8 (4400 lf)

ENGINEERS ESTIMATE (Conceptual)
April 24, 2003

Item	Description	Unit	Quantity	Unit Cost	Total Cost
General / Site Work					
1	Mobilization and Demobilization	LS	1	48,300	\$ 48,300
2	Clearing and Grubbing	Acres	2.3	1,000	2,300
3	Power Pole Relocation	EA	-	1,500	-
4	Levee Earthwork	CY	7,400	10	74,000
5	Terrace Earthwork	CY	-	8	-
6	In-channel Earthwork	CY	-	30	-
Structural - Biotechnical Creek Treatments					
7	Brush Mat	LF	1,200	150	180,000
8	Bank Stabilization - Log and Rock Toe Revet	LF	1,200	300	360,000
9	Rock Barbs	EA		30,000	-
10	Terrace Roughness Elements	EA	20	3,000	60,000
11	Vegetated Soil Lifts	LF	600	300	180,000
12	Log Complexes	EA		20,000	-
13	Water and Sediment Control	EA	10	5,000	50,000
Planting					
14	Site Preparation	LS	1	10,000	10,000
15	Erosion Control Fabric	Acres	1	4,000	4,000
16	Planting	Acres	2	7,000	16,100
17	One-year Maintenance	Months	12.00	2,500	30,000

SUBTOTAL		<u>\$ 1,014,700</u>
CONTINGENICES	20%	<u>\$ 202,900</u>
TOTAL ESTIMATED COST		\$ 1,217,600

Full restoration design fee \$121,760
Note: all numbers are estimated
probable cost