

TABLE 1: COST ESTIMATE
Glass Beach Stairs Replacement Project, Scenario A - Engineering Services

TASK DESCRIPTION	KEY PERSONNEL					TOTALS	
	C. Nelson, PE Project Mgr./ Resident Engineer \$170.00	A. McDade, PE, Site Engineer \$125.00	W. Hopkins, CEG, Sr. Eng. Geologist \$170.00	M. Feliciano, T. Clark, EIT, Field Engineer/ Constr. Inspector \$115.00	CAD/ Clerical \$90.00	Total Hours by Task	Total Fees by Task
Task 1: Pre-construction Assistance*							
1a: Review Work Order/Work Scope	4	4				8	\$1,180
1b: Review CEQA/Permits/SWPPP	2	6				8	\$1,090
1c: Attend Pre-construction Meeting	4	4				8	\$1,180
1d: Schedule management	4	16				20	\$2,680
Task 1 Subtotal	14	30	0	0	0	44	\$6,130
Task 2: Construction Management**							
2a: Construction Administration	4	8			6	18	\$2,220
2b: Geotechnical Services & Construction Staking		4	12	12		28	\$3,920
2c: Submittals, RFIs, Clarifications, CCOs	4	12	4			20	\$2,860
2d: Permit Compliance/Monitor Coordination	2	8				10	\$1,340
2e: Weekly Meetings, Agendas, Minutes	4	16			8	28	\$3,400
Task 2 Subtotal	14	48	16	12	14	104	\$13,740
Task 3: Daily Field Inspection***							
3a: Activities/Changes		6				6	\$750
3b: Workmanship & Materials, Quantities		6				6	\$750
3c: Permit/SWPPP Compliance Documentation		12				12	\$1,500
3d: Daily Records & Photos		6				6	\$750
3e: As-Built Progress Markups		10				10	\$1,250
3f: Construction Schedule/Update		10				10	\$1,250
3g: DBE/Labor Compliance	8					8	\$1,360
3h: Change Order/Construction Budget	8	12				20	\$2,860
Task 3 Subtotal	16	62	0	0	0	78	\$10,470
Task 4: Reports****							
4a: Daily Reports/Photos		6				6	\$750
4b: Weekly Meeting Agendas/Minutes		12				12	\$1,500
4c: Weekly Summary		8				8	\$1,000
4d: Monthly As-Built Update		8				8	\$1,000
Task 4 Subtotal	0	34	0	0	0	34	\$4,250
Task5: Close-out							
5a: Record Drawings/Photos					12	12	\$1,080
5b: Preliminary/Final Punch List	4	6				10	\$1,430
5c: Permit Compliance Report		4		12	6	22	\$2,420
5d: DBE/Labor Compliance Report	4	6				10	\$1,430
5e: Acceptance of Work/Completion Statement	4					4	\$680
Task 5 Subtotal	12	16	0	12	18	58	\$7,040
SUBTOTAL HOURS	56	190	16	24	32	318	
TOTAL LABOR BY TEAM MEMBER	\$9,520	\$23,750	\$2,720	\$2,760	\$2,880		\$41,630

DIRECT EXPENSES, SCENARIO A	
Printing and Reproductions	\$200
Travel	\$600
Per Diem	\$4,500
Construction Staking (Forrest Francis)	\$3,000
Compaction & Lab Testing	\$1,200
Miscellaneous	\$100
*Nesting Bird Survey (Wynn, assume 10 visits @ \$170)	\$1,700
**Mammal Haul Out Survey (Wynn, assume 1 visit @ \$206)	\$206
**Native American Coordination	\$1,200
TOTAL EXPENSES	\$12,706
TOTAL SCENARIO A COSTS	\$54,336

SCENARIO B	
***AM/PM Marine Mammal Count (Wynn, assume 30 days @ \$231)	\$6,930
****Flagging per Bird Nest (Wynn, assume 3 @ \$90)	\$270
Questa Management & Bio. Monitor Coordination	\$1,500
TOTAL SCENARIO B COSTS	\$8,700
TOTAL SCENARIO A & B COSTS	\$63,036