

Project Name: Forebay Outfall Modernization
 Client: San Antonio Water Company
 Forbay Outfall Modernization
 Time and Fee Estimate
 Date: February 24, 2023

Scope of Work	HOURS											Environ SubConst. (x1.15)	TOTAL COST
	PIC	PE	SrSE	D/CAD	Admin	CO	SM	2PS	Geotech SubConst. (x1.15)				
Task 1: Project Management	\$ 265.00	\$ 210.00	\$ 180.00	\$ 140.00	\$ 85.00	\$ 150.00	\$ 195.00	\$ 265.00					\$ 5,720.00
Project Management	0	24	0	0	8	0	0	0					\$ 5,720.00
Task 2: Preliminary Design Phase	4	48	72	96	20	0	24	44					\$ 55,580.00
Preliminary Design Report		24	24	16	4								\$ 11,940.00
Utility and Records Research		4	8		8								\$ 2,960.00
Field Survey and Investigation		4			8		24	44					\$ 17,860.00
Base Map and Preliminary Plans	4	16	40	80									\$ 22,820.00
Task 3: Environmental Phase	0	8	0	0	0	0	0	0					\$ 4,600.00
Environmental Phase		8											\$ 4,600.00
Task 4: Final Design Phase	4	16	24	60	0	0	0	0					\$ 17,140.00
90% Submittal (Plans, Specs, Cost Est.)		8	16	40									\$ 10,160.00
100% Final Submittal (Plans, Specs, Cost Est.)	4	8	8	20									\$ 6,980.00
Task 5: Bidding Phase	0	16	0	0	8	0	0	0					\$ 4,040.00
Bidding Phase		16			8								\$ 4,040.00
Task 6: Construction Phase	0	32	16	0	16	120	0	0					\$ 34,710.00
Construction Phase		32	16		16	120							\$ 34,710.00
HOURS	8	144	112	156	52	120	24	44					\$ 4,600.00
BUDGET													\$ 123,470.00

PIC = Principal Engineer (PE)
 PrPE = Principal Electrical Eng. (PE)
 PE = Project Engineer (PE)
 SE = Staff Engineer (EIT)
 CAD = CAD Operator
 Admin = Admin. Asst./Clerical
 2PS = Two Person Survey Crew

SrE = Senior Engineer (PE)
 PM = Project Manager
 SrSE = Sr. Project Engineer (PE)
 SrSE = Sr. Staff Engineer (EIT)
 D/CAD = Designer/CAD Operator
 D = Designer
 JrE = Jr. Engineer (Intern)
 CO = Construction Observer
 1PS = One Person Survey Crew

Fee Schedule

Task No.	Task Description	O/A/C		Principal In Charge	Project Manager	Project Engineer	Civil Designer	WSC Administration	WSC Labor Hours	WSC Labor Fee	Expenses	WSC Fee	LOR Geotechnical	WestLAND Group	Tom Dodson & Associates	H2O Urban Solutions	ALL FIRMS
		Jeffery Lawrence	Kristen Plinke														
1	Project Management	\$380	\$285	\$185	\$170	\$170											
1.1	Project Administration	6	42	4	18					\$ 16,380							\$ 16,380
1.2	Meetings	1	14	4	19					\$ 4,885							\$ 4,885
1.3	O/A/C	6	2		8					\$ 2,830							\$ 2,830
	SUBTOTAL	6	7	4	18	93				\$ 24,095							\$ 24,095
2	Preliminary Design Phase																
2.1	Data Collection and Review		6	12	18					\$ 3,870							\$ 3,870
2.2	Utility Research		4	20	24					\$ 4,800							\$ 4,800
2.3	Soils Investigation and Geotechnical Report		2	2	4					\$ 920			14,594				\$ 15,514
2.4	Survey and Basemap Preparation		2	2	4					\$ 890							\$ 890
2.5	Design Documents		48	82	194					\$ 39,250				22,373			\$ 39,250
	SUBTOTAL	0	62	116	66	244				\$ 49,730			\$ 14,594				\$ 86,697
3	Environmental Phase																
3.1	SEC Compliance		6	10	16					\$ 3,500							\$ 3,500
	SUBTOTAL	0	6	10	16					\$ 3,500							\$ 3,500
4	Final Design Phase																
4.1	San Bernardino County		2	8	10					\$ 2,030							\$ 2,030
4.2	Encroachment Permits		82	116	88					\$ 50,720							\$ 50,720
	SUBTOTAL	0	84	124	88	266				\$ 52,750							\$ 52,750
5	Bidding Phase																
5.1	Advertisement		3		3					\$ 825							\$ 825
5.2	Pre-bid Conference		6		6					\$ 1,650							\$ 1,650
5.3	Bidder Coordination & Addenda Preparation		8	16	30					\$ 6,180							\$ 6,180
5.4	Bid Opening		3		3					\$ 825							\$ 825
5.5	Award Recommendation		2	4	6					\$ 1,290							\$ 1,290
	SUBTOTAL	0	22	40	48	0				\$ 10,770							\$ 10,770
6	Construction																
6.1	Pre-Construction Meeting		6		6					\$ 1,550							\$ 1,550
6.2	Submittal Management		20	48	68					\$ 14,380							\$ 14,380
6.3	RFI's/RFC's		8	16	24					\$ 5,160							\$ 5,160
6.4	Construction Observation		42	32	74					\$ 17,470							\$ 17,470
6.5	Compaction & Materials Testing		8		8					\$ 2,200			32,592				\$ 34,792
6.6	Change Order Management		16	24	40					\$ 8,840							\$ 8,840
6.7	Progress Payment Administration		6	14	20					\$ 4,240							\$ 4,240
6.8	Project Closeout		14		14					\$ 3,850							\$ 3,850
	SUBTOTAL	0	120	134	264	0				\$ 57,790			\$ 32,592				\$ 90,382
	COLUMN TOTALS	6	7	322	408	180	18	921		\$ 198,635			\$ 47,166				\$ 372,361
OT 1	Optional Tasks																
OT 1.1	In-Conduit Hydroelectric Generation PDR		10	140	156	24				\$ 78,190							\$ 78,190
	Optional Tasks TOTAL	10	10	140	156	24	0	340		\$ 78,190							\$ 78,190
	OPTIONAL TASKS TOTAL	10	10	140	156	24	0	340		\$ 78,190							\$ 78,190

10% mark-up on direct expenses; 15% mark-up for sub-contracted services
 Standard mileage rate \$0.625 per mile (or current Federal Mileage Reimbursement Rate)
 Rates are subject to revision as of January 1 each year.

PROPRIETARY // Water Systems Consulting, Inc.