

Fee Proposal

Carollo's fee for this project is based on the proposed ozone and biofiltration approach (option 3). We have initially assumed approximately 250 drawings would be required for this project and have included 30%, 60%, and 90% design milestones. We are open to negotiating the fee based on the Town's preference for how to progress the design and whether this project is ultimately delivered as Design Bid Build or CMAR. We have also included a series of optional tasks for your consideration.

Town of Johnstown | Johnstown WTP Expansion Carollo Engineers, Inc. Fee Estimate | 2/05/2020

Task	Description	Senior Specialist	Senior Professional	Lead Project Professional	Project Professional	Professional	Assistant Professional II	Assistant Professional I	Senior Designer	Senior Technician	Technician	Doc Processing	Clerical	Carollo Hours	Carollo Labor Cost	Sub Consultants	Carollo ODCs	Total Engineering Cost
1	Task 1 - Project Management																	
1.1	Project Coordination	20	200											220	\$55,500	\$-	\$-	\$55,500
1.2	Progress Meetings	20	60	20	20	40	40	40				10		250	\$49,200	\$-	\$750	\$49,950
	Subtotal Hours Task 1	40	260	20	20	40	40	40	0	0	0	10	0	470				
	Subtotal Task 1	\$11,000	\$65,000	\$4,500	\$4,000	\$7,000	\$6,400	\$5,600	\$-	\$-	\$-	\$1,200	\$-	470	\$104,700	\$-	\$750	\$105,450
2	Task 2 - Preliminary Process Selection and Design																	
2.1	Process Alternatives Evaluation	20	80		20	40	40	80		8				288	\$55,380	\$-	\$250	\$55,630
2.2	Survey and Geotechnical Engineering		4		8		16			8	8			44	\$7,520	\$32,670	\$100	\$40,290
2.3	Preliminary Design	10	40	40	60	80	80	120	40	100	200	20	20	810	\$131,950	\$-	\$100	\$132,050
2.4	Preliminary QC	10	40	40										90	\$21,750	\$-	\$100	\$21,850
2.5	Conceptual Cost Estimate	4	80				10							94	\$22,700	\$-	\$100	\$22,800
	Subtotal Hours Task 2	44	244	80	88	120	146	200	40	116	208	20	20	1326				
	Subtotal Task 2	\$12,100	\$61,000	\$18,000	\$17,600	\$21,000	\$23,360	\$28,000	\$7,200	\$18,560	\$28,080	\$2,400	\$2,000	1326	\$239,300	\$32,670	\$450	\$227,970
3	Task 3 - Detailed Design (60% Drawings and Specifications)																	
3.1	Site Civil and Yard Piping				10		40		20		40	10		120	\$18,600	\$-	\$-	\$18,600
3.2	Structural		20				160		20	60	80	10		350	\$55,800	\$-	\$-	\$55,800
3.3	Architecture							40				4		44	\$6,080	\$41,580	\$-	\$47,660
3.4	Process Mechanical		20		80			180	40	60	200	10		590	\$91,200	\$-	\$-	\$91,200
3.5	Building Mechanical			20				100	20	60	100	10		310	\$46,400	\$-	\$-	\$46,400
3.6	Electrical					160			20	140	100	10		430	\$68,700	\$-	\$-	\$68,700
3.7	I&C					200		40	20	120	160	10		550	\$86,200	\$-	\$-	\$86,200
3.8	60% QC	12	60	60										132	\$31,800	\$-	\$-	\$31,800
3.9	60% Cost Estimate	4	30			4		4						42	\$9,860	\$-	\$-	\$9,860
	Subtotal Hours Task 3	16	130	80	90	364	200	364	140	440	680	64	0	2568				
	Subtotal Task 3	\$4,400	\$32,500	\$18,000	\$18,000	\$63,700	\$32,000	\$50,960	\$25,200	\$70,400	\$91,800	\$7,680	\$-	2568	\$414,640	\$41,580	\$-	\$456,220
4	Task 4 - Final Design (90% Drawings and Specifications)																	
4.1	Site Civil and Yard Piping				60		20		20	60	80	8		248	\$40,160	\$-	\$-	\$40,160
4.2	Structural		20				100		20	80	80	8		308	\$49,160	\$-	\$-	\$49,160
4.3	Architecture						40					4		44	\$6,880	\$20,790	\$-	\$27,670
4.4	Process Mechanical	4	40		80			140	60	100	120	8		552	\$90,660	\$-	\$-	\$90,660
4.5	Building Mechanical			40				100		60	80	8		288	\$44,360	\$-	\$-	\$44,360
4.6	Electrical					200			20	100	200	8		528	\$82,560	\$-	\$-	\$82,560
4.7	I&C					100		40	20	200	100	8		468	\$73,160	\$-	\$-	\$73,160
4.8	90% QC	4	60	60	40									164	\$37,600	\$-	\$-	\$37,600
4.9	90% Cost Estimate		24		4	4		6						38	\$8,340	\$-	\$-	\$8,340
	Subtotal Hours Task 4	8	144	100	184	304	160	286	140	600	660	52	0	2638				
	Subtotal Task 4	\$2,200	\$36,000	\$22,500	\$36,800	\$53,200	\$25,600	\$40,040	\$25,200	\$96,000	\$89,100	\$6,240	\$-	2638	\$432,880	\$20,790	\$-	\$453,670
5	Task 5 - Issued For Construction																	
5.1	IFC Drawings and Specifications	4	20		40	40	40	80	40	40	140	40	20	504	\$78,000	\$6,930	\$250	\$85,180
	Subtotal Hours Task 5	4	20	0	40	40	40	80	40	40	140	40	20	504				
	Subtotal Task 5	\$1,100	\$5,000	\$-	\$8,000	\$7,000	\$6,400	\$11,200	\$7,200	\$6,400	\$18,900	\$4,800	\$2,000	504	\$78,000	\$6,930	\$250	\$85,180
6	Task 6 - Permitting																	
6.1	Permitting	8	30		40	40		60		10		4	0	192	\$35,180	\$-	\$-	\$35,180
	Subtotal Hours Task 6	8	30	0	40	40	0	60	0	10	0	4	0	192				
	Subtotal Task 6	\$2,200	\$7,500	\$-	\$8,000	\$7,000	\$-	\$8,400	\$-	\$1,600	\$-	\$480	\$-	192	\$35,180	\$-	\$-	\$35,180
	Total Base Project Hours	120	828	280	462	908	586	1,030	360	1,206	1,688	190	40	7,698				
	Total Base Direct Labor Dollars	\$33,000	\$207,000	\$63,000	\$92,400	\$158,900	\$93,760	\$144,200	\$64,800	\$192,960	\$227,880	\$22,800	\$4,000		\$1,304,700	\$101,970	\$1,450	\$1,363,670
	Optional Tasks																	
	Electrical System Study		8			80	60	12			20		10	190	\$30,980	\$-	\$-	\$30,980
	Raw Water Pump Station and Pipeline Alternatives Evaluation		80		80					40				200	\$42,400	\$-	\$-	\$42,400
	CMAR Selection Support	12	20				12	12						56	\$11,900	\$-	\$-	\$11,900
	Ozone Bench Testing		8					12						20	\$3,680	\$-	\$25,000	\$28,680