

### Cost of Engineering Services

The hourly rate for each engineer was determined using the average reported hourly rates for each kind of engineering. The base hourly rate for each engineering position is listed below:

- Project Manager, PM: \$38.60
- Quality Assurance, QA: \$25.74
- Materials Engineer, ME:\$25.74
- Structural Engineer. SE: \$29.41
- Reinforcement Engineer, RE: \$27.57

The hourly rate was then factored using a net fee multiplier of 2.72. This multiplier was used to account for overhead costs. The project staffing costs are displayed in Table 1.

Table 2: Projected Staffing Cost

Cost of Engineering Services				
	Classification	Hours	Rate	Cost
Personnel	PM	300	\$105/hr	\$31,500
	QA/QC	300.5	\$70/hr	\$21,035
	ME	400.25	\$70/hr	\$28,017.5
	SE	350	\$80/hr	\$28,000
	RE	300	\$75/hr	\$22,500
			<b>Total</b>	<b>\$127,452.5</b>

Personnel costs were projected through the final schedule. Personnel rates were determined using the listed hourly wages and the net fee multiplier. The overall cost for the concrete canoe is projected to be \$127,452.5.