

Strategic Plan for Water Supply, Treatment and Storage City of Beacon, NY															
		Managing Engineer, Managing Scientist, Project Manager 2, Sr. Technical Director	Managing Engineer, Managing Scientist, Project Manager 1, Technical Director	Managing Associate, Project Associate, Technical Associate, Eng/Sci/Arch 3	Sr. Project Engineer, Sr. Project Design, Sr. Project Scientist, Sr. Scientist, Sr. Design, Sr. Engineer	Project Engineer, Project Scientist, Project Designer, Eng/Sci/Arch 2	Design Engineer, Designer, Scientist, Eng Tech 3	Staff Engineer, Staff Scientist, Staff Designer, Eng/Sci/Arch 1, Admin 3	Design Drafter, Technician, Sr. Division Secretary, Office Administrator	Technical Drafter, Regional Office Secretary, Project Controls Admin	Total Hours	Total Labor Cost	Expenses	Total Labor Plus Expenses	Task Totals
Tasks	Officer, Program Director														
Task 1 - Kickoff Conference Call and Data Collection															\$ 792
Kickoff conference call		2									2	\$ 396		\$ 396	
Data collection		2									2	\$ 396		\$ 396	
Task 2 - Review Water Demands															\$ 198
Review water demands provided by the City		1									1	\$ 198		\$ 198	
Task 3 - Update Safe Yield Model															\$ 1,188
Collect streamflow data		1									1	\$ 198		\$ 198	
Update safe yield model		2									2	\$ 396		\$ 396	
Conduct modeling runs and summarize results		2									2	\$ 396		\$ 396	
Identify timing for bringing online new water supply alternatives		1									1	\$ 198		\$ 198	
Task 4 - Evaluate Water Treatment Plant Capacity															\$ 4,338
Conduct site visit		8									8	\$ 1,584	\$ 300	\$ 1,884	
Evaluate capacity of water treatment plant		1			4						5	\$ 818		\$ 818	
Identify alternatives to improve capacity of water treatment plant		1			4						5	\$ 818		\$ 818	
Identify conceptual cost and timing for implementation of alternatives		1			4						5	\$ 818		\$ 818	
Task 5 - Update Water Storage Analysis															\$ 990
Update water storage needs based on projected water demands		4									4	\$ 792		\$ 792	
Identify conceptual cost and timing for implementation of new storage tanks		1									1	\$ 198		\$ 198	
Task 6 - Develop Water System Model and Conduct Analyses															\$ 5,924
Collect and review data		2									2	\$ 396		\$ 396	
Develop water system model		2			8						10	\$ 1,636		\$ 1,636	
Calibrate water system model		1			4						5	\$ 818		\$ 818	
Analyze water system		1			4						5	\$ 818		\$ 818	
Identify system deficiencies and evaluate alternatives		1			8						9	\$ 1,438		\$ 1,438	
Identify conceptual cost and timing for implementation of new storage tanks		1			4						5	\$ 818		\$ 818	
Task 7 - Conduct Bathymetric Survey															\$ 34,000
Conduct bathymetric survey field program												\$ 24,000		\$ 24,000	
Data processing to generate volume estimates												\$ 10,000		\$ 10,000	
Task 8 - Prepare Letter Report															\$ 6,764
Prepare draft report		12			4						16	\$ 2,996		\$ 2,996	
Revise draft report based on comments		4									4	\$ 792		\$ 792	
Work Session on Conclusions and Draft Report		8									8	\$ 1,584	\$ 400	\$ 1,984	
Prepare final report		4									4	\$ 792	\$ 200	\$ 992	
Task 9 - Project Management															\$ 1,848
General program management services (scheduling, progress reports, etc.)		8								4	12	\$ 1,848		\$ 1,848	
Project Totals	0	71	0	0	44	0	0	0	0	4	119	\$ 55,142	\$ 900	\$ 56,042	\$ 56,042
Hourly Billing Rates (2017)	\$220	\$198	\$181	\$162	\$155	\$135	\$115	\$95	\$80	\$66					