

Hoyle, Tanner 125 College St., 4th Floor Burlington, VT 05401 802-860-1331	Town of Richmond, VT Richmond WWTF - 20 Year Evaluation Upgrade Engineer's Opinion of Probable Project Costs Total Project Cost	Project No.: 102601 By: KDW CK By: JO Date: 1/11/2024
Process Area	Costs¹ ENR = 13514.76 (Dec 2023)	Projected Costs² ENR = 15800 (April 2027)
Collection System Upgrades		
Collection System Rehabilitation and Maintenance	\$ 65,000	\$ 76,000
Collection System Upgrades Subtotal	\$ 65,000	\$ 76,000
WWTF Upgrade		
Influent Pumping Upgrade	\$ 488,000	\$ 571,000
Headworks Upgrade Alt. 2 Multirake Screen	\$ 1,654,000	\$ 1,934,000
Anoxic Selector Upgrade Alt. 2 - Compressed Gas Mixing	\$ 72,000	\$ 85,000
Biological Process Upgrade	\$ 462,000	\$ 541,000
RAS System Upgrade	\$ 57,000	\$ 67,000
WAS Pumping System Upgrade	\$ 95,000	\$ 112,000
Filtration System Upgrade	\$ 217,000	\$ 254,000
UV System Upgrade	\$ 230,000	\$ 269,000
Effluent Flow Measurement	\$ 15,000	\$ 18,000
Operations Building	\$ 686,000	\$ 802,000
Site	\$ 545,000	\$ 638,000
WWTF Upgrade Subtotal	\$ 4,521,000	\$ 5,291,000
Flood Mitigation Upgrade		
Bridge Street Pump Station Upgrade	\$ 1,068,000	\$ 1,249,000
Effluent Pump Station	\$ 514,000	\$ 601,000
Flood Doors	\$ 26,000	\$ 31,000
Flood Mitigation Upgrade Subtotal	\$ 1,608,000	\$ 1,881,000
Septage Receiving Facilities Upgrade		
Septage Receiving Unit Upgrade	\$ 871,000	\$ 1,019,000
Septage & Sludge Storage Alt. 2 - Compressed Gas Mixing, Transfer Pumps, Odor Control	\$ 821,000	\$ 960,000
Dewatering Facilities Upgrade	\$ 2,137,000	\$ 2,499,000
Septage Receiving Facilities Upgrade Subtotal	\$ 3,829,000	\$ 4,478,000
Construction Cost Subtotal¹	\$ 10,023,000	\$ 11,726,000
Engineering & Construction Contingency @ 30%	\$ 3,007,000	\$ 3,518,000
Total Construction Cost¹	\$ 13,030,000	\$ 15,244,000
Engineering Costs		
Preliminary Engineering - Step I ³	\$154,000	\$154,000
Pre-Design Phase (Survey, Geotechnical, Pre-Procurement, Funding Assistance)	\$87,000	\$87,000
WWTF Upgrade Final Design - Step II ⁴	\$385,000	\$385,000
Flood Mitigation Final Design - Step II ⁴	\$210,000	\$210,000
Septage Upgrade Final Design - Step II ⁴	\$326,000	\$326,000
Bid, Construction Administration & Inspection - Step III ⁴	\$1,245,000	\$1,456,000
Legal, Administrative, Permitting 0.5%	\$65,000	\$76,000
Total Project Cost	\$15,502,000	\$17,938,000
Notes:		
1) ENR Construction Cost Index = 13514.76 (December 2023)		
2) ENR Construction Cost Index projected for April 2027 = 15800		
3) Executed contract dated 3/21/2023		
4) Engineering Fee is calculated based on percentage of construction value and past project experience		