

BMS Blivet - Sewage Treatment Systems

Estimated Annual Operation & Maintenance

Newfoundland & Labrador

December 2009

Estimated annual cost to operate each unit based on the following:

1. De-sludging 3 times per year at cost of \$0.45 per gallon
2. Electricity at \$0.09 per kilowatt hour
3. Grease bearings and couplers at time of each de-sludge at \$5 per each bearing and coupler
4. Change gear oil every third de-sludge (annual)
5. Visual inspection of unit monthly, which would be incidental to Town's employee regular duties.

Unit	De-sludge	Electricity	Grease	Oil Change	Total	Allow
BL 300	\$111	\$292	\$45 (2B;1C)	\$100	\$548	\$600
BL 500	\$277	\$292	\$45 (2B;1C)	\$100	\$714	\$750
BL 1000	\$554	\$292	\$45 (2B;1C)	\$100	\$991	\$1,100
BL 1500	\$831	\$434	\$90 (4B;2C)	\$120	\$1,475	\$1,600
BL 2000	\$1,100	\$434	\$90 (4B;2C)	\$120	\$1,744	\$1,800
BL 3000	\$1,377	\$592	\$135 (6B;3C)	\$150	\$2,254	\$2,300
BL 3500	\$1,803	\$592	\$135 (6B;3C)	\$150	\$2,680	\$2,750
BL 4000	\$2,204	\$868	\$135 (6B;3C)	\$150	\$3,357	\$3,400

Under Heading "Grease": B - bearing; C - chain coupler

Spare parts: (fob Mount Pearl, NL)

1. Motor \$ 600.00 (expected life 10+ years)
2. Sludge return pump \$ 300.00 (expected life 5+ years)
3. Gearbox \$2,600.00 (expected life 25+ years)
4. Bearing \$ 275.00 (expected life 25+ years)
5. Coupler \$ 150.00 (expected life 25+ years)