

TABLE 16

Financial Assessment of Septage Treatment, Haulage and Treated Biosolids Disposal  
2004 Cost for 20-Year Design  
Municipalities of Grey County

Alt. No.	Description	Capital Cost for Treatment	Annual Operation Cost for Treatment	Septage Haulage Cost (m <sup>3</sup> )	Annual Septage Haulage Cost (m <sup>3</sup> )	Treated Biosolids Disposal Costs (m <sup>3</sup> )	**Annual Treated Biosolids Disposal Costs	*Annual Capital Cost for Treatment of Septage	Total Annual Cost to Haul, Treat and Dispose of Septage	Total Cost per cubic metre	Comments
1	Upgrade One (1) Wastewater Treatment Plant in Each Municipality	\$8,200,000	\$600,000	\$3.50	\$149,600.00	\$15.00	\$320,600	\$658,000	\$1,728,200	\$54.45	<ul style="list-style-type: none"> <li>• 6 wastewater treatment plants</li> <li>• A portion of the existing hydraulic and organic capacity may be used for treatment of septage</li> </ul>
2	Upgrade One (1) Municipal Wastewater Treatment Plant Within the County of Grey to Treat All Septage	\$9,900,000	\$275,000	\$15.98	\$683,009.00	\$15.00	\$320,600	\$794,400	\$2,073,009	\$65.32	
3	Upgrade Three (3) Wastewater Treatment Plants to Accept and Treat All Septage Across the County	\$13,660,000	\$450,000	\$7.63	\$326,118.00	\$15.00	\$320,600	\$1,096,100	\$2,192,818	\$69.09	
4	Privately Owned/Operated Dewatering & Composting Facility at One (1) Existing Wastewater Treatment Plant	\$6,700,000	\$490,000	\$15.98	\$683,009.00	\$0.00	\$0	\$537,600	\$1,710,609	\$53.90	<ul style="list-style-type: none"> <li>• \$500,000 for using Durham wastewater treatment plant</li> <li>• \$1,000,000 for site servicing, road, hydro, addition to building cost.</li> </ul>
5	Privately Owned/Operated Wastewater Treatment Plant to Dewater, Compost and Treat Effluent for Discharge Back to a Receiving Water Body	-	-	-	-	-	-	-	-	-	<ul style="list-style-type: none"> <li>• Cost estimated from Environmental Treatment Services</li> <li>• Too low; not detailed enough</li> </ul>
6	Mobile, Privately-Owned/Operated Treatment Facility to Treat Septage and Biosolids	-	-	-	-	-	-	-	-	-	<ul style="list-style-type: none"> <li>• Cost evaluation</li> <li>• Much more information needed</li> </ul>
7	Specialized Pumper Trucks to Separate Solids and Liquids from Septage at Septic Tank Site	-	-	-	-	-	-	-	-	-	<ul style="list-style-type: none"> <li>• Appears to be Not financially feasible or socially acceptable</li> </ul>
8	Privately Owned/Operated Treatment Facility Covering a Larger Geographic Area than Grey County	-	-	-	-	-	-	-	-	-	<ul style="list-style-type: none"> <li>• Haul costs could be excessive without transfer stations</li> </ul>
9	Liquid Lime Stabilization in Tanker Truck by Private Hauler and Spreading on Agricultural Land	-	-	-	-	-	-	-	-	-	<ul style="list-style-type: none"> <li>• Interim measure only</li> </ul>

Notes:

\* Annual cost @ 5 percent interest on 20 years - \$0.08024

\*\* 173.9 m<sup>3</sup>/day for 182.5 days @ 2.5% (@ 3.7 percent solids - 117.1 m<sup>3</sup>/day)