

ERRATA SHEET

Table 4A-3
Estimated Costs for Carbon Adsorption

System Parameters: 60 gpm 20 µg/L influent MTBE concentration Effluent contains no detectable MTBE (0.5 mg/L)				
Item	Cost			
Carbon Adsorption Unit ¹	\$67,368			
SUBTOTAL	\$67,368			
Piping, Valves, Electrical (30%)	\$20,210			
Site Work (10%)	\$6,737			
SUBTOTAL	\$94,315			
Contractor O&P (15%)	\$14,147			
SUBTOTAL	\$108,462			
Engineering (15%)	\$16,269			
SUBTOTAL	\$124,732			
Contingency (20%)	\$24,946			
TOTAL CAPITAL	\$149,678			
AMORTIZED CAPITAL²	\$12,062			
ANNUAL O&M	\$60,582			
TOTAL ANNUAL COST	\$72,644			
TOTAL COST PER 1,000 GALLONS TREATED	\$2.30			
Summary of Annual O&M Costs				
Item	Unit	Quantity	Unit Cost	Cost
Replacement Carbon ³	event	1.9	\$3,125	\$5,938
Changeout Labor/Transport	event	1.9	\$1,000	\$1,900
O&M Labor ⁴	year	1	\$21,000	\$21,000
Analytical Testing ⁵	samples	156	\$200	\$31,200
Power (\$0.08/kWh)	kWhr	6,800	\$0.08	\$544
ANNUAL O&M				\$60,582

- 1 Carbon system size: three 2,500-pound vessels in series.
- 2 Amortization based on 30-year period at 7-percent discount rate.
- 3 Based on \$1.25/pound and 2,500 pound/event; changeout frequency per Table 4-6.
- 4 Includes analytical sampling, oversight during changeouts, and general system O&M.
- 5 Based on three samples per weekly event, 52 weeks per year.