

| Item | Quantity | Units | Cost | Total Cost |
|---|-----------------|--------------|-------------|-------------------|
| Adsorption Columns [19] | 1 | ton | \$1,712 | \$1,712 |
| Tank [20] | 5 | tanks | \$8,500 | \$42,500 |
| Pump (364.58 gpm) [21] | 5 | pumps | \$5,692 | \$28,462 |
| Pump (1458.32 gpm) [21] | 2 | pumps | \$21,000 | \$42,000 |
| Electric Aeration System [22] | 5 | systems | \$1,831 | \$9,155 |
| Adsorption Tower [23] | 5 | containers | \$1,050 | \$5,250 |
| Pipe 1 (PVC, diameter 24 in) [20] | 140 | m | \$16 | \$2,265 |
| Pipe 2 (PVC, diameter 24 in) [20] | 80 | m | \$16 | \$1,294 |
| Aeration System Housing [24] | 5 | units | \$242 | \$1,210 |
| Installation and Labor Cost (estimate) | 5 | units/hole | \$130,000 | \$650,000 |
| Total Construction Cost | | | | \$783,850 |

| | | |
|--|---------|-----------|
| Staff Labor [25] | 70 | \$/hr |
| | 3 | operators |
| | 1680 | \$/day |
| | 0.03 | \$/bbl |
| Solids Disposal Cost [25] | 50 | \$/ton |
| | 134.2 | tons/year |
| | 6710 | \$/year |
| | 0.0004 | \$/bbl |
| Adsorption Material Purchasing [23] | 1712 | \$/ton |
| | 367.75 | lbs/year |
| | 315 | \$/year |
| | 0.00002 | \$/bbl |
| Electricity Cost [25] | 0.09 | \$/kWh |
| | 26.6 | kWh |
| Energy Requirements [25] | 0.11 | \$/bbl |
| | 1.27 | kWh/bbl |
| Natural Gas Cost [26] | 13.27 | \$/MCF |
| | N/A | \$/bbl |
| Total New Operating Costs | 0.16 | \$/bbl |