

Treatment Summary

Alternative	Treatment Type	Number of Motorized equipment	Pros	Cons
Partial Pumping to Sioux Falls	Regional Service Agreement	3	<ul style="list-style-type: none"> Least cost regionalization alternative Buy as capacity as needed 	<ul style="list-style-type: none"> Maintain existing pond and potential odor issues Future sludge removal Expensive pumping charges Expensive capacity purchase
Complete Pumping to Sioux Falls	Regional Service Agreement	1	<ul style="list-style-type: none"> Simplest treatment alternative Buy as capacity as needed Lowest overall capital cost 	<ul style="list-style-type: none"> Expensive pumping charges Expensive capacity purchase
Sequencing Batch Reactor	Batch treatment	11	<ul style="list-style-type: none"> Small foot print Equipment located inside Low capital cost High energy efficiency 	<ul style="list-style-type: none"> Unforgiving process More difficult to operate and train personnel
Oxidation Ditch	Continuous flow	24	<ul style="list-style-type: none"> Forgiving process Easy to operate No equalization 	<ul style="list-style-type: none"> Large foot print Equipment located outside Higher capital cost High energy consumption
Aeromod - SEQUOX	Continuous flow, sequenced aeration	5	<ul style="list-style-type: none"> Small foot print Equipment located inside Easy to operate and maintain High energy efficiency 	<ul style="list-style-type: none"> First plant in South Dakota
SAGR	Continuous flow	3	<ul style="list-style-type: none"> Low capital and operating cost Easy to operate Low maintenance 	<ul style="list-style-type: none"> High energy consumption Buried aeration pipes Future sludge disposal

Cost Summary

Alternative	Capital Cost	Equivalent Annual Cost
Submerged Attach Growth (SAGR)	\$20,215,000	\$1,278,762
Sequencing Batch Reactor (SBR)	\$19,220,000	\$1,433,940
Aero-Mod SEQUOX®	\$19,804,000	\$1,437,208
Partial Pumping to Sioux Falls	\$11,412,297	\$1,570,733
Oxidation Ditch	\$20,762,000	\$1,597,669
Complete Pumping to Sioux Falls	\$8,044,125	\$1,642,367

Least Cost Option



Cost to Customer 30-year

