

Cash Flow for Brine Well - Based on 20 Year Bond

(assumes 20% annual salt increase avoidance)

	Build Year	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	Yr7	Yr8	Yr9	Yr10	Yr11
Cash Inflows												
Debt Proceeds	\$1,700,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Reduced Costs	\$0	\$180,000	\$216,000	\$259,200	\$311,040	\$373,248	\$447,898	\$537,477	\$644,973	\$773,967	\$928,760	\$1,114,513
Year total	\$1,700,000	\$180,000	\$216,000	\$259,200	\$311,040	\$373,248	\$447,898	\$537,477	\$644,973	\$773,967	\$928,760	\$1,114,513
Cumulative total	\$1,700,000	\$180,000	\$396,000	\$655,200	\$966,240	\$1,339,488	\$1,787,386	\$2,324,863	\$2,969,835	\$3,743,802	\$4,672,563	\$5,787,075
Cash Outflows												
One time investment	(\$1,700,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P&I on Debt	\$0	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)	\$(125,089)
Maintenance Cost	0	(7,000)	(7,210)	(7,426)	(7,649)	(7,879)	(8,115)	(8,358)	(8,609)	(8,867)	(9,133)	(9,407)
Year total	(\$1,700,000)	(\$132,089)	(\$132,299)	(\$132,515)	(\$132,738)	(\$132,968)	(\$133,204)	(\$133,447)	(\$133,698)	(\$133,956)	(\$134,222)	(\$134,496)
Cumulative total	(\$1,700,000)	(\$132,089)	(\$264,388)	(\$396,903)	(\$529,641)	(\$662,609)	(\$795,813)	(\$929,260)	(\$1,062,958)	(\$1,196,915)	(\$1,331,137)	(\$1,465,634)
Net Effect on Cash												
Annual Savings	\$0	\$47,911	\$83,701	\$126,685	\$178,302	\$240,280	\$314,694	\$404,030	\$511,274	\$640,011	\$794,538	\$980,016
Cumulative Savings	\$0	\$47,911	\$131,612	\$258,297	\$436,599	\$676,879	\$991,573	\$1,395,602	\$1,906,877	\$2,546,888	\$3,341,426	\$4,321,442

Total Cost

Brine Well	
Design	\$150,000.00
Construction	\$1,550,000.00
Total Investment	\$1,700,000.00

Debt Proceeds \$1,700,000.00

P&I on \$1,700,000 bond 20 yrs, 4% \$125,089.00

Ongoing Costs

Maintenance - Brine Well \$7,000.00 3% annual increase

Reduced Costs - Water Plant

Plant Salt reduction \$180,000.00 Based on 2019 Univar rate of \$180 per ton and the 2001-2018 average annual per ton usage of 1,000. Assumes 20% annual increase.

Note: After examination it was determined that additional water usage from new developments would be offset by water reducing technology. Therefore this calculation assumes flat water usage.