

Table 1
Site Cost Matrix
Aspen In-Situ Storage Screening Study

Site ID	Site Name	Foundation Geology	Water Delivery Infrastructure (To/From)	Area (acres)	Perimeter (feet)	Estimated Depth to Bedrock (feet)	Estimated Storage Volume Rounded to nearest 50 AF (Acre-feet)	Estimated Slurry Wall Area (ft ²)	Unit Slurry Wall Construction Cost (\$/ft ²)	Estimated Storage Construction Cost	Storage Cost per Acre-foot (\$/AF)	Distance to WTF (miles)	Estimated Water Delivery Cost (\$250/foot)	Water Delivery Cost per Acre-foot (\$/AF)	Estimated Project Cost*	
1	North Star Preserve	Precambrian Quartz Monzonite (granite)	Augmented alluvial wells/ Pipeline to WTF	25.7	4943	100	550	509,129	\$35.00	\$17,820,000	\$32,400	2.3	2.3	\$3,036,000	\$5,520	\$34,400,000
2	Moore Open Space	Castle Creek Fault Zone: Overturned Triassic - Permian Sedimentary Rocks	Merolt Ditch/ Pipeline to WTF	33.8	4951	85	550	435,688	\$35.00	\$15,249,000	\$27,700	0.8	0.8	\$1,056,000	\$1,920	\$26,900,000
3A	Aspen Golf Course	Castle Creek Fault Zone: Overturned Triassic - Permian Sedimentary Rocks	Merolt Ditch/ Pipeline to WTF	49.6	5936	85	650	1,400	522,368	\$35.00	\$18,283,000	\$29,500	1.0	\$1,848,000	\$1,300	\$71,300,000
3B		Castle Creek Fault Zone: Overturned Triassic - Permian Sedimentary Rocks		75.0	9225	85	760		659,560	\$35.00	\$23,085,000		1.4			
4	Zoline Open Space	Mancos Shale and Possibly Castle Creek Fault Zone	Augmented alluvial wells/ Pipeline to WTF	42.0	5921	85	650	521,048	\$35.00	\$18,237,000	\$28,100	1.8	1.8	\$2,376,000	\$3,655	\$34,000,000
5A	Aspen Airport	Mancos Shale	Augmented alluvial wells, Spring Creek (?)/ Pipeline to WTF	61.4	7757	50	400	1,400	426,635	\$5.50	\$2,346,000	\$7,690,000	2.6	\$5,148,000	\$3,700	\$21,200,000
5B		Mancos Shale		58.2	6840	50	350		276,100	\$5.50	\$1,519,000		2.9			
5C		Mancos Shale		62.3	7305	50	300		309,650	\$5.50	\$1,703,000		3.3			
5D		Mancos Shale		67.7	8596	50	350		385,880	\$5.50	\$2,122,000		3.9			
6A	Cozy Point Ranch	Mancos Shale	Augmented alluvial wells/ Pipeline to WTF	13.1	3819	50	100	200	210,045	\$5.50	\$1,155,000	\$2,027,000	5.4	\$7,392,000	\$37,000	\$15,500,000
6B		Mancos Shale		11.8	3374	50	100		158,620	\$5.50	\$872,000		5.6			
7	Woody Creek	Mancos Shale	Augmented alluvial wells, Salvation Canal/ Pipeline to WTF	45.0	6217	50	300	341,935	\$5.50	\$1,881,000	\$6,300	6.4	6.4	\$8,448,000	\$28,160	\$17,000,000
8	Vagneur Gravel Pit	Mancos Shale	Augmented alluvial wells, Salvation Canal/ Pipeline to WTF	42.9	6794	50	1,000	373,670	\$5.50	\$10,055,000	\$10,100	6.8	6.8	\$8,976,000	\$8,976	\$31,400,000

*Construction Costs rounded to nearest \$100,000 and marked up by 65%:

10% Mobilization

5% Permitting

15% Engineering

5% Miscellaneous

30% Contingency

Does not include land acquisition costs