Is there population Is this an area with growth or water present or projected conflict? groundwater Climate: wet and shortages? dry seasons? Is there enough No surface water for Can water be purchased ASR project? and piped in during lowest rate times? Water rights to Nο use this water? Can water rights be No obtained? No STOP Is initial cost of ASR less than other storage options? No Will future water revenue cover installation No cost? Is water treatment economically feasible? Nο Can existing wells be retrofitted No for ASR? Can new wells be installed? No STOP Would stored water be protected from withdrawal by No or impact on other wells? Does the aquifer have No STOP sufficient storage? STOP Category Legend Water-Groundwater-Rock Is native GW quality acceptable? an Recharge with drinking water interactions maintain a recoverable bubble? Economic/ Engineering Geochemistry: Are there reactions STOP Between GW, recharge water and aquifer that will cause Regulatory Considerations mineral precipitation and well clogging Can water or aquifer be Yes treated to prevent Environmental Constraints mineral precipitation? Recovery efficiency: Can most of No Aquifer Parameters the injected water be recovered at the same well? No There is a good chance the site is suitable.

Figure 3-5: ASR Site Assessment Decision Tree: Is this a suitable ASR site?