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

Is this an area with present or projected groundwater shortages?

Climate: wet and dry seasons?

Is there enough surface water for ASR project?

Can water be purchased and piped in during lowest rate times?

Water rights to use this water?

Can water be obtained?

Is initial cost of ASR less than other storage options?

Will future water revenue cover installation cost?

Is water treatment economically feasible?

Can existing wells be retrofitted for ASR?

Can new wells be installed?

Would stored water be protected from withdrawal by or impact on other wells?

Does the aquifer have sufficient storage?

Is native GW quality acceptable?

Can recharge with drinking water maintain a recoverable bubble?

Geochemistry: Are there reactions between GW, recharge water and aquifer that will cause mineral precipitation and well clogging?

Can water or aquifer be treated to prevent mineral precipitation?

Recovery efficiency: Can most of the injected water be recovered at the same well?

There is a good chance the site is suitable.