

THE KISSIMMEE RIVER ASR (KRASR) PILOT SITE

4000 Southwest 99th Drive, Okeechobee, FL 34974

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The Kissimmee River ASR (KRASR) Pilot Site is the first "environmental" ASR system in Florida. The objective is to determine feasibility of ASR as a water management strategy for Everglades ecosystem restoration. At this site, Kissimmee River surface water is filtered and UV-disinfected prior to storage in the upper Floridan Aquifer System. Recovered water is aerated prior to discharge back into the Kissimmee River. This system differs from more common drinking water ASR systems in that source water is disinfected, but minimally pre-treated prior to recharge, which results in some important differences in water quality trends during cycle testing. Two cycle tests have been

completed at this site, and a third is underway (2010). To date, this site shows high percent recovery (95 to 98 percent), in part due to the low salinity of the aquifer locally. Preliminary interpretations suggest that arsenic mobilization diminishes with successive cycles. Phosphorus concentrations also decline through cycle testing. An intensive geochemical, geotechnical, and operational data collection effort is continuing at KRASR in order to assess technological feasibility, effective management, and cost-effectiveness of environmental ASR for ecosystem restoration.

For more information: http://www.evergladesplan.org/pm/projects/asr_tour/asr_interactive.aspx

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