



Surface Water Hydrologic Studies

Surface water hydrology studies are vitally important in understanding the total hydrologic flow regime, not only to evaluate flow and water quality characteristics in the stream, but also the potential hydraulic and geochemical interactions with shallow ground water. JCHA has over two decades of experience working on projects associated with surface water hydrology.

Our areas of expertise in surface water hydrologic studies include the following services:

- Stream flow measurements
- Stream water quality sampling
- Gain/loss studies
- Statistical analyses of flow
- Evaluation of frequency/duration of events
- Storm routing
- Floodplain analyses
- QUAL2E, HECRAS, and DAMBRK modeling
- Reservoir operational studies
- Reservoir/stream evaporation studies

