



Grab Samples for Laboratory Analysis



Stream Flow Measurements



Water Sample Collection from Drainage Pipe

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Hydrologic Monitoring

Watershed management requires in-depth regulatory knowledge, excellent communications, as well as broad-based technical capabilities in hydrology, aquatic biology and ecology, aquatic and sediment chemistry, field sampling, water quality modeling, ecological impact analysis, and risk assessment.

Currently, CASI is supporting Bechtel Jacobs Company, LLC (BJC) in the Oak Ridge Reservation (ORR) Water Resources Restoration Program (WRRP). This program was established by the Department of Energy (DOE) in 1996 to implement a consistent approach to long-term environmental monitoring across the ORR. Water quality projects are in place for the major facilities on the ORR: East Tennessee Technology Park (ETTP); Oak Ridge National Laboratory (ORNL), including Bethel and Melton Valley; Y-12 National Security Complex, including Bear Creek Valley, Upper East Fork Poplar Creek (UEFPC). One of four major objectives in the WRRP is:

- ❖ To perform Best Management Practice monitoring to support watershed management decisions [*e.g.*, baseline water quality and pre-Record of Decision (ROD) monitoring]

CASI personnel possess a hydrologic framework that is characterized by complex geology, large-scale cut and fill, transient interactions with bounding surface water bodies, and a high degree of anthropogenic influences, including building sumps, french drains, and leaking subsurface utilities.

As part of the hydrologic monitoring activities, CASI supports the following areas, which include but are not limited to:

- Continuous Stream Flow Monitoring & Sampling
- Field Parameter Analysis
- Stream Channel and Erosion Survey
- Contaminant/Pollutant Source Identification