

HYDROLOGIC CONNECTIONS TO BIOLOGICAL RESOURCES

BIOSPHERE and HYDROSPHERE DYNAMICS

Technical Specialists

Groundwater
Surface water
Engineering
Geology

- Groundwater interactions with wetlands, springs, streams, lakes, vegetation, aquatic species
- Impact of groundwater pumping
- Groundwater contamination
- Seasonal and long-term variability
- Climate-change impacts
- Engineering design for mitigation measures & hydrologic controls

IDENTIFYING & QUANTIFYING
HYDROLOGIC INTERACTIONS
WITH
BIOLOGICAL RESOURCES



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REGULATORY PERMITTING
&
ENGINEERING
MITIGATION DESIGN

HYDROLOGIC CONNECTIONS TO BIOLOGICAL RESOURCES

SCOPING-LEVEL HYDROLOGIC ASSESSMENT to COMPREHENSIVE EVALUATION

Identify & mitigate hydrologic conditions that have significant impacts on biological resources

ANTICIPATE
THE CONDITIONS
THAT WILL BE
BENEFICIAL
OR
HARMFUL

MITIGATE & OFFSET IMPACTS

- Impacts analysis
- Evaluate mitigation and engineering options
- Engineering-control structure design
- Artificial recharge evaluation & design
- Predict impacts under varying climate conditions

SUPPORT SERVICES

Study plans
Monitoring & sampling plans
Monitoring networks
Hydraulic testing & interpretation
Geologic & Groundwater Modeling
Regulatory permits
Management plans

IDENTIFY
&
QUANTIFY
BIOSPHERE CHANGES