

**Stephen Buechner, PE, MS**  
*Water Resources Engineer,*  
*DiNatale Water Consultants*

Mr. Buechner is a water resources engineer with nine years of experience in water resource engineering consulting. His experience includes assisting with water supply master planning, water rights issues and Colorado water law compliance for a wide variety of clients. He has a Bachelor of Science degree in Civil Engineering from the University of Colorado at Boulder and a Master of Science degree in Civil Engineering from the University of Colorado at Denver. Stephen has extensive experience in water right evaluation and analysis, groundwater modeling, historical consumptive use analyses, assisting clients with water rights administration, and developing substitute water supply plans and plans for augmentation for water court applications. Additionally, Stephen is an experienced user of various modeling software platforms including Microsoft Excel, MODFLOW, AWAS, IDSCU and ArcGIS, which help him in assisting clients with their compliance to the State of Colorado's water laws. Stephen also serves on the board for the Colorado chapter of the American Water Resources Association and has been a member of the education committee for over 8 years.

**Relevant Project Experience**

**Water Right Evaluation & Analysis**

Completed water right evaluations, including historical consumptive use analyses of agricultural ditch rights and stream depletion analyses. He is experienced with the Blaney-Criddle and ASCE Penman-Monteith methods of calculating potential evapotranspiration, including the use of both the IDSCU and StateCU tools. He has also conducted periodic water rights accounting procedures for several clients.

**Water Court Assistance**

Mr. Buechner has served as an expert engineer in Water Court and has provided engineering services as part of case settlement negotiations and processes. He is experienced in providing water rights engineering support for Water Court applications and case reviews in Colorado Water Divisions 1 & 2.

**Substitute Water Supply Plans & Augmentation Plans**

Experienced in the preparation and review of Substitute Water Supply Plans and Plans for Augmentation in Colorado Water Divisions 1 & 2.

**Groundwater Supply Modeling**

Experienced with the Glover and SDF methods for computing stream depletions and recharge accretions for alluvial groundwater systems, including the use of the IDS AWAS tool.

**GIS Applications**

Experienced in the use of GIS applications related to water resources, including use of ArcGIS, ERDAS Imagine and QGIS platforms.

**Experience**

Water Resources Engineer,  
DiNatale Water Consultants, Inc.  
2019–Present

Water Resources Engineer,  
Applegate Group, Inc.  
2010–2019

Water Resources Engineer,  
High Country Hydrology  
2010

**Registrations**

Professional Engineer: Colorado

**Education**

M.S. Civil Engineering  
University of Colorado (Denver)  
2015

B.S. Civil Engineering  
University of Colorado (Boulder)  
2009