



## GRANT NOVAK

Senior Aquatic Biologist

Grant Novak is a natural resources management specialist with over 16 years of experience designing and conducting environmental monitoring studies, quantitatively assessing construction/restoration project-related impacts to endangered species, and successfully managing complex projects with tight budget constraints and unique logistical challenges. His expertise includes salmon life-cycle modeling, GIS analysis, and in-water flora and fauna surveys using SCUBA in marine and freshwater environments. Grant's thorough understanding of ecology, especially nearshore marine, riverine, and riparian ecosystems, melds efficiently with his knowledge of current development issues and technical writing experience to make him a valuable asset and effective author for projects with aquatic components. He has authored numerous technical memos, environmental assessments, environmental impacts statements (EISs) and study reports concerning project-related impacts to the aquatic environment to meet clients' regulatory responsibilities. Grant has considerable experience using SCUBA equipment to conduct preliminary as well as advanced aquatic vegetation and macroalgae surveys. He also has conducted numerous surveys using underwater video equipment — both hand- and remotely operated. Grant is an experienced and safety-conscious boat captain. He has developed numerous boating safety plans in support of marine survey projects that include a boating element.

### Representative Projects

**Chelan County Riparian Parcel Prioritization, Chelan County Natural Resources Department, Wenatchee, WA.** *Project Manager.* In this ongoing project, analysis of multi-spectral imagery and LiDAR-derived elevation data are supporting an examination of riparian habitat quality in the Wenatchee River watershed to aid in the identification and prioritization of parcels for riparian restoration.

**Manke Marine Pier Replacement and Aquaculture Expansion Permitting, Manke Resources, Shelton, WA.** *Project Manager.* Provided permitting support for project to replace an existing commercial pier and install additional shellfish aquaculture facilities in Oakland Bay, including floating upwelling systems (FLUPSYs). Work included completing environmental surveys and habitat mapping, and preparing the following documents: biological evaluation for Endangered Species Act (ESA) consultation, Joint Aquatic Resource Permits Application (JARPA), State Environmental Policy Act (SEPA) checklist, Washington Department of Fish and Wildlife (WDFW) Hydraulic Project Approval, and a water quality monitoring plan to meet Washington State Department of Ecology requirements.

**Columbia River Dredge Removal Permits – River Miles 80 to 90, CalPortland Company, Portland, OR.** *Technical Lead.* Provided technical analyses and documentation for numerous regulatory efforts throughout the life of this project. Produced a biological evaluation for Section 7 ESA consultation, a human health assessment following the



### EDUCATION

M.S., Environmental Sustainability Management, University of Washington, 2013  
B.S., Marine Biology, Minor in Geography (GIS/Remote Sensing), Florida Atlantic University, 2004

### CERTIFICATIONS

Open Water SCUBA certified since 1992, PADI  
U.S. Department of Transportation, Remote Pilot License, Certificate Number Pending (Application ID 1331139)  
Certified Forage Fish Spawning Surveyor, WDFW, 2009  
Surf Smelt Spawning Surveys, WDFW, 2009

### EXPERTISE

Aquatic Biology and Ecology  
GIS Analysis  
Habitat/Fish Surveys and Field Assessments  
Endangered Species Act  
NEPA  
Project Management

### ADDITIONAL TRAINING

Eelgrass Delineation Guidance Workshop, U.S. Army Corps of Engineers, June 2017



Sediment Evaluation Framework, a Water Quality Monitoring Plan to meet Clean Water Act Section 401 requirements, and an analysis of how the project could affect Public Works projects to meet requirements codified in Section 408 of Title 33 of the U.S. legal code. Researched potential project related effects thoroughly to ensure that each assessment was robust enough to withstand rigorous scientific scrutiny while remaining readable and easy to understand by laypersons. This project provided the opportunity to distill large volumes of environmental data into easily understood charts, maps, and drawings that were used to tell a clear story of potential project-related effects and the manner in which they would be avoided and/or minimized.

**Point Defiance Right Timber Floating Dolphin Replacement, Washington State Department of Transportation (WSDOT), Tacoma, WA.** *Senior Aquatic Biologist.* Conducted 3 years of post-construction monitoring to determine effects to eelgrass beds and confirm recovery in areas disturbed by the project. Survey methods included underwater video and diver transects to map resources according to methods approved by regulatory agencies. Completed survey report including all information necessary to satisfy WDFW eelgrass/macroalgae survey guidelines.

**State Route (SR) 520 Pontoon Construction Project EIS, WSDOT, Grays Harbor, WA.** *Task Manager/Aquatic Ecologist.* Completed numerous eelgrass and macroalgae surveys using submersible video equipment. This work was instrumental to WSDOT's site selection for the replacement pontoon construction site. Conducted a study to monitor rates of attachment and growth of marine organisms on concrete plates moored in Grays Harbor. Because pontoons were moored in Grays Harbor for an extended length of time, this multi-year study characterized the floral and faunal habitat likely to attach to the submerged portions of the pontoons. Study results were used to aid in development of measures to prevent transport of non-native species from Grays Harbor into Puget Sound and Lake Washington.

**Chehalis Basin Flood Storage Project, Washington Office of Financial Management, Olympia, WA.** *Project Manager/Aquatic Ecologist.* Advised and organized a team of consultants, agency personnel, and local stakeholders during planning phases of this large flood storage assessment project. Project required daily communication with a large project team to coordinate a complex environmental assessment of flood control alternatives and associated impacts. The team modeled and analyzed potential project-induced flow, temperature, and habitat alterations that would result in direct impacts to aquatic species. Led the development of innovative GIS analyses to determine the spatial extent of flooding effects to aquatic habitat utilized by fish and amphibians. Assessed impacts to aquatic species in the face of climate change by developing action hypotheses to relate flood reduction and climate change alternatives to habitat and species effects, thereby providing an approach for incorporating climate change into technical and policy considerations.

**Gateway Pacific Terminal NEPA/SEPA Third Party EIS, U.S. Army Corps of Engineers, Washington Department of Ecology, Whatcom County.** *Aquatic Ecologist.* Responsible for developing a marine resource survey study plan in conjunction with the project Co-Lead Agencies. Also conducted surveys to characterize the nearshore habitat and analyze effects to the natural environment due to construction of this multimodal marine port facility. Authored sections of the EIS pertaining to marine mammals and invertebrates.

**Big Eddy-Knight Transmission Line EIS, Bonneville Power Administration, The Dalles, WA.** *Technical Lead/GIS Analyst.* Responsible for design and implementation of all GIS analyses and products for the transmission line project. Analyses included expected project impacts to a variety of natural resources, including wetlands, sensitive vegetation, fish-bearing streams, and soils. Performed advanced, three-dimensional visibility analyses to determine how local views would be affected by the many different alternative construction options.