


**NATHAN E. GOODMAN**  
**Statement of Professional Qualifications**

<b>United States Nuclear Regulatory Commission Official Hearing Exhibit</b> <b>In the Matter of:</b> CROW BUTTE RESOURCES, INC. (License Renewal for the In Situ Leach Facility, Crawford, Nebraska)	<b>ASLBP #:</b> 08-867-02-OLA-BD01 <b>Docket #:</b> 04008943 <b>Exhibit #:</b> NRC-004-00-BD01 <b>Admitted:</b> 8/18/2015 <b>Rejected:</b> <b>Other:</b>	<b>Identified:</b> 8/18/2015 <b>Withdrawn:</b> <b>Stricken:</b>
		

**Education:**

**Johns Hopkins University**

Master of Science in Environmental Science (December 2000)

- Completed thesis research investigating biomasses of red-backed salamanders in eastern deciduous forests as an indicator of overall health and quality of the surrounding environment

**Muhlenberg College**

Bachelor of Science in Environmental Science (May 1998)

**Experience:**

**U.S. Nuclear Regulatory Commission (NRC)**

**2006 to present**

Project Manager; Terrestrial and Aquatic Biologist

Current duties at the US NRC are the lead project manager for two Environmental Assessments under the National Environmental Policy. Additional current duties include expertise in section 106 activities under the National Historic Preservation Act, Section 7 consultations under the Endangered Species Act, and the ecologist responsible for oversight of all ecology projects within the branch. Current duties also include leading a training seminar catered toward Native Americans on the National Environmental Policy Act, applicable environmental laws, and the National Historic Preservation Act. Past duties have included managing the overall project for the Prairie Island Nuclear Generating Plant license renewal EIS, writing EISs and EAs for the division of License Renewal, performing EAs for the current operations of nuclear reactors, as well as power uprates, and working with the US FWS and NMFS on section 7 consultations on threatened and endangered species. Primary duties throughout my time at the US NRC have focused on managing EIS and EA projects, managing contracts for sections of these EISs and EAs, writing EIS sections pertaining to terrestrial and aquatic ecology, hydrology, geology, cultural resources, and alternatives, which, for the purpose of NRCs EISs, have to do with renewal and alternative energy. Writing EIS and EA sections for the NRC involves both aspects of fieldwork and office work, including site audits, research, and writing the document. I have worked on the license renewals for the following nuclear power facilities; Prairie Island, Kewaunee, Three Mile Island, Vermont Yankee, Pilgrim, Shearon Harris, Wolf Creek, Fitzpatrick, Indian Point, Susquehanna, and Vogtle. Additionally, at the NRC, I have taken many courses both in school and on the job specifically relating to NEPA. Helped the NRC recreate the cumulative impacts sections of their EISs for the division of license renewal, and given several presentations on looking at cumulative impacts within NEPA. Also at NRC, I have used my certification as a wetland delineator to assist in the completion of NRC's environmental reviews as well as used my expertise in wetland science, wetland banking, wetland soils, and wetland hydrology.

**Greenhorne and O'Mara (G&O)**

**2005 to 2006**

Wetland Specialist

Duties included writing Jurisdictional Delineations (JD) for private contractors building within the vicinity of or on wetland habitat, GIS-mapping of wetlands, and preparing NEPA documents as a federal contractor for the Department of the Interior, National Park Service, and the Federal Bureau of Investigation. I performed wetland delineations in the field, concentrating on soils, hydrology, and vegetation, and wrote corresponding JDs. I utilized my GIS skills to map wetland areas and to assist the Department of Surveys and Engineering to complete detailed survey maps. I worked closely with the U.S. Army Corps of Engineers to ensure the proper wetland assessments were completed. Additionally, I wrote EAs for the NEPA division of G&O, specifically pertaining to the National Park Service. I also assisted in one EIS contract for the FBI concerning the construction of an office in Winchester, VA. While at G&O, I completed courses in soils and hydrology to complement my expertise in wetlands.

**The Lab School of Washington****2003 to 2005**

Teacher, Tutor

Duties included teaching high school math, science, and health courses. The Lab School targets children with learning disabilities and encourages alternative forms of education and learning approaches. To this end, I developed innovative teaching approaches designed to foster the unique talents of learning disabled children. I was elected the keynote speaker at graduation in April of 2005. Duties also included private tutoring for students in grades 4-12, academic advising for senior projects, mentoring, and athletic coaching.

**EDAW INC.****2002 to 2003**

Environmental Scientist and Planner, Planning Division

Duties included Federal contracts on wetland analysis and managing Department of Planning and Engineering projects (DPE). I created maps and analyzed geospatial relationships using GIS. As a project manager, I researched and authored an EIS for the creation of a casino in Mississippi, prepared EAs for several National Park Service projects, and directed numerous wetland analyses in Maryland, Virginia, Washington DC, and Delaware.

**Tetra Tech Inc.****2000 to 2002**

Environmental Scientist, Water Resources Group

Duties included working with several local Maryland government offices as well as the state of Mississippi in their National Pollution Discharge Elimination System (NPDES) permitting process. Specifically, I worked on storm water sampling and analysis, rapid bioassessment protocol (RBP), geomorphology analysis, best management practices, and total maximum daily loads (TMDL). I performed RBP analysis by removing benthic macroinvertebrate populations and fish through fish shocking in order to determine stream health trends, such as EPT indexes. I performed geomorphology analysis by creating stream cross-sections and determining health factors such as runoff and flow. I completed a three-month statewide stream assessment for Mississippi Department of Environmental Quality. This assessment included flagging over 1,000 streams, taking benthos using approved RBP methods, storm water sampling, and rudimentary geomorphology analysis. I also used GIS at Tetra Tech to assist with water models as well as TMDL analysis.

**U.S. Fish and Wildlife Service (US FWS)****Summer 1999**

Intern

As an intern for the U.S. FWS, I helped create a website for the Division of Refuges. The website contained a publically available, keyword searchable database of all hunting and fishing rules and regulations for all wildlife refuges nationwide, as well as an index of commonly hunted fish and bird species were hunted at each refuge. To complete this website, I had to analyze Code of Federal Regulations, contact all refuges in the U.S. to verify hunting and fishing status, and coordinate with FWS headquarters to ensure no regionally protected species were listed as allowable to hunt.

**Wyatt Group****1997**

Intern and Technician

As an intern with the Wyatt Group, I helped with an American shad restoration project that gill netted American shad on the Hudson River in the Catskills, collected and fertilized the eggs, and delivered the eggs to a hatchery on the Susquehanna River. Successful American shad returns have been reported on the Susquehanna River due to this project.