



## Brad Rasmussen, P.E. | Principal

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Mr. Rasmussen, a Principal at AQUA Engineering, has more than 28 years engineering experience, with the majority spent in the design and project management of wastewater treatment facilities for municipalities and industry. Brad has an extensive computer background, modeling water quality in water distribution systems, sewer system modeling, water quality modeling, and process modeling. He is experienced working with regulators, communities and industrial sectors to coordinate project issues. Brad has done extensive facility planning, facility design and is established as an expert in discharge permit negotiations for numerous facilities.

### Project Experience

#### Brigham City Project Planning

Project Elements: Nutrient compliance  
Analyzed treatment facility upgrade alternatives for future growth and evaluated alternatives for meeting 2020 phosphorus limit.

#### Tremonton City Facility Planning and Impact Fee Development

Project Elements: Nutrient compliance, future growth  
Analyzed treatment facility upgrade alternatives for future growth and evaluated alternatives for meeting 2020 phosphorus limit.

#### South Davis Sewer District Nutrient Removal Planning

Project Elements: Nutrient compliance  
Analyzed treatment facility upgrade alternatives for meeting 2020 phosphorus limit.

#### Spanish Fork City Treatment Facility Evaluation

Project Elements: Existing Plant cost evaluation  
Evaluated value of treatment facility for buy-in costs for other municipalities.

#### Payson City Facility Planning

Project Elements: Existing facility evaluation, future processes required for additional growth, permit compliance, and nutrient removal  
Facility planning to address redundancy, growth, and nutrients. Evaluated existing treatment facility for life expectancy of existing equipment.

#### Spanish Fork City Facility Planning

Project Elements: Digesters, and thickening  
Facility Planning / Impact Fee Development

#### Heber Valley Sanitary Sewer District

Project Elements: Facility planning and impact fee analysis  
Facility Planning to address solids reduction and increase capacity in existing lagoons

#### Mountain Green Wastewater Treatment Lagoons

Project Elements: Facility planning and impact fee analysis  
Facility Planning / Impact fee development

#### South Davis Sewer District, Utah

Project Elements: Nutrient Removal, plant upgrade  
Design phosphorus removal system using Clearas algae treatment system

#### South Davis Sewer District Wasatch Resource Recovery, Utah

Project Elements: Food Digester, Nutrient Removal  
Services: Design digester system to convert food waste to natural gas

#### City of Las Vegas Wastewater Treatment Facility

Project Elements: Hypochlorite building expansion  
Services: Sodium hypochlorite building expansion

### Education

B.S. Computer Drafting Design, Southern Utah University, 1990

M.S. Civil Engineering, University of Utah, 1999

### Registration

Professional Engineer:  
Utah, Nevada, Colorado, Montana

### Work Experience

28 Years

### Affiliations

WEAU ASCE AWWA

### Expertise

- Permitting
- Wastewater/Treatment
- Water Treatment
- Wastewater Reuse
- Mechanical Installations
- Modeling
- Wastewater Process Modeling
- Lagoon Treatment
- On-Site Treatment

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### Project Experience (continued)

#### **Heber Valley Wastewater Treatment Facility**

Project Elements: Parallel mechanical treatment system

Expanded treatment facility from 2mgd to 4mgd by installing a new STM Aerotor treatment system utilizing RIB for wastewater disposal.

#### **Salt Lake City Wastewater Treatment Facility**

Project Elements: Thickening Facility

Designed a new thickening facility for Salt Lake City.

#### **Payson City Dewatering Facility**

Project Elements: Dewatering Facility

Installed a new screw press to dewater biosolids

#### **Brigham City Wastewater Treatment Facility**

Project Elements: Headworks, final clarifier, dewatering, UV Disinfection

Installed a new screw press to dewater biosolids, new headworks screens, new final clarifier, and updated UV disinfection

#### **Spanish Fork City Wastewater Treatment Facility**

Biosolids expansion and installation of a new two-meter belt press facility

