



Nate is an engineering designer and Project Manager with TCE who oversees our junior engineering staff while designing and managing a diverse range of projects. He directs TCE’s potable water and wastewater design quality control program among other quality assurance roles, and also administers our extensive annual inspection program for storm and waste water permit compliance.

Nate is a dedicated father and an avid hiker, snowboarder, and surfer. He fully embraces TCE’s “Work Hard, Play Hard” mantra and enjoys the great outdoors when he can.

With over 14 years of experience in the engineering field, his attention to detail helps to ensure the accuracy of designs leaving the office. He believes that the completeness of records and documentation is critical to managing complex projects in a regulatory landscape that is constantly evolving. Nate’s strong communication skills benefit our clients and their projects.

## **Nathan Howells, P.E.**

*Project Engineer/Manager*

*9 Years at TCE*

### **Education**

B.S. Civil Engineering ‘03  
*University of Vermont*

### **Certifications**

Licensed Professional Engineer  
*State of Vermont #60545*  
*State of California #71099*

Certified Site Designer,  
*Class 1*

### **Work History**

Los Angeles County DPW  
*Los Angeles, CA 2003-2008*

Trudell Consulting Engineers  
*Williston, VT 2000-2003*

R.A.M. Engineering  
*Haverhill, MA 1999*

### **Volunteer Work**

Jim’s House  
Yard Maintenance Volunteer

### *Recent Project Experience*

**Jay Peak Resort, Jay, VT** Nate was a key member of construction observation team for multiple projects at the resort. He was also lead water and wastewater design for many of the upgrades and expansions of the resort’s utility network. Erosion control became a critical issue during construction and Nathan worked with the client, State regulators and the site contractor to bring the site into compliance with the design plans and permits.

**Jericho Market, Jericho, VT** Nate served as the lead design and construction engineer for the site improvements at the Jericho Market on Route 15. The project involved a complex on-site wastewater system designed to maximize capacity for high-strength effluent and a municipal water extension. He completed complex calculations to permit the increase of flows to this system, without additional construction, after the Market’s opening.

**Mountain View Mobile Home Park, Hinesburg, VT** Nate designed a unique replacement Indirect Discharge on-site septic system for this residential park with 10 separate, failing community innovative/alternative systems serving over 50 units. Because all of the failing systems could not be incorporated into the limited replacement system, Nate prioritized the systems to be discontinued and designed a network of force mains and valves to continue utilization of the most functional disposal trenches for this project funded via the State CWSRF program.

### *Additional Projects*

- Vermont Country Store, Rockingham
- Point Bay Marina, Colchester
- Winooski Housing Authority
- J. Hutchins Inc.
- Cooperative Development Institute
- Vermont State Housing Authority
- AnC Biotech, Newport
- Orvis, Manchester
- Bolton Valley Resort, Bolton

### *Key Skills*

- High Strength Wastewater Systems
- Potable Water Systems
- On-Site Wastewater Systems
- Municipal Sewer Systems
- Septic Pump Stations
- Water & Wastewater Permitting
- Property Conditions Assessment
- Construction Administration
- Construction Engineering