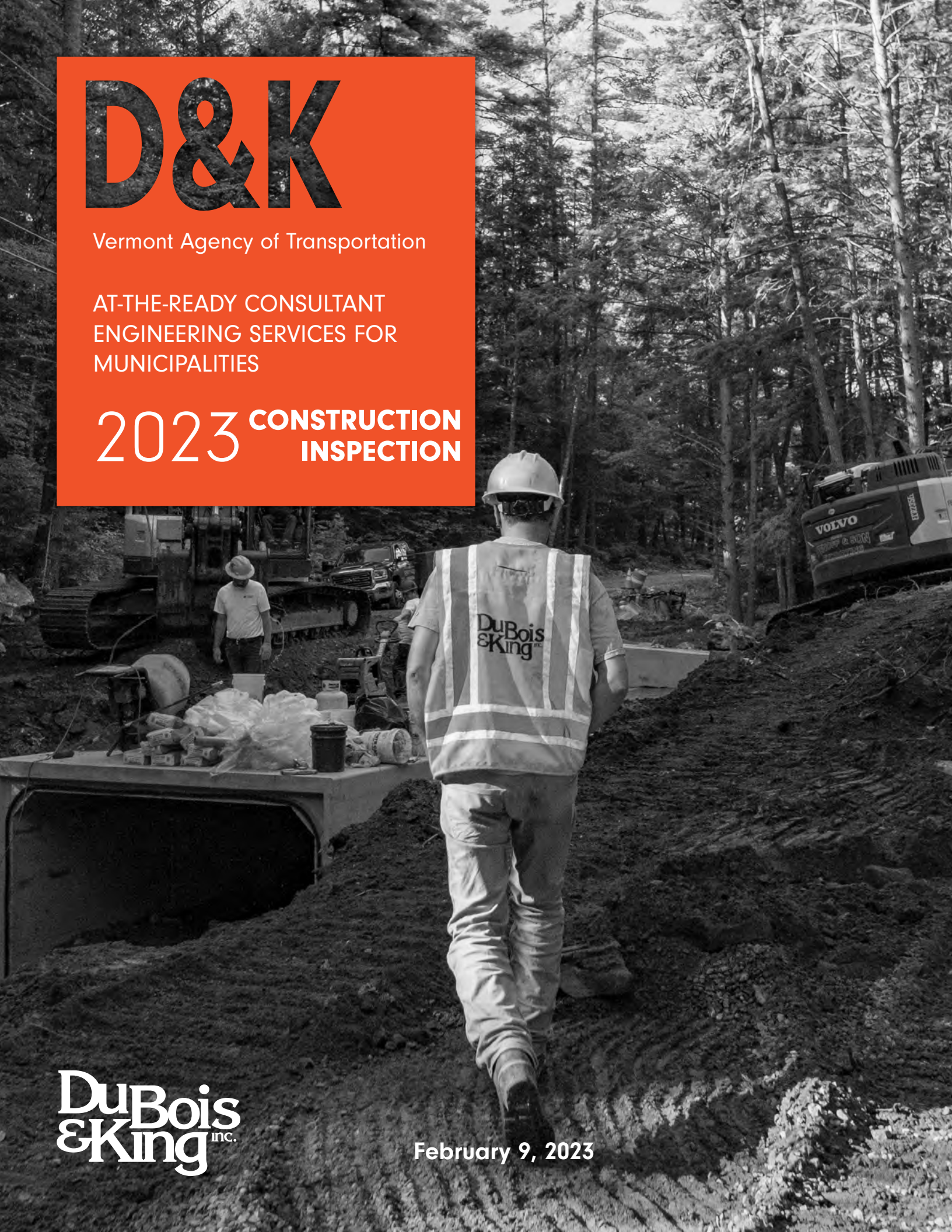


D&K

Vermont Agency of Transportation

AT-THE-READY CONSULTANT
ENGINEERING SERVICES FOR
MUNICIPALITIES

2023 CONSTRUCTION
INSPECTION



DuBois
& King inc.

February 9, 2023

A. COVER LETTER





628793X
February 9, 2023

Nydia Lugo, Civil Engineer
Vermont Agency of Transportation
Highway Division - Municipal Assistance
219 North Main Street
Barre, VT 05641

Subject: RFQ—Two-Tier Qualifications-Based Selection for At-The-Ready Consultant Engineering Services for Municipalities 2023—Construction Inspection Services

Dear Ms. Lugo and Members of the Selection Committee:

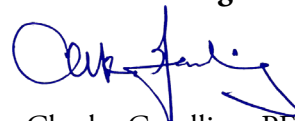
DuBois & King (D&K) is pleased to submit our Statement of Qualifications for Construction Inspection Services in response to your Request for Qualifications for At-the-Ready (ATR) Consultant Engineering Services for Municipalities 2023. D&K offers significant experience working with VTrans on numerous ATR projects and many other municipal projects.

For more than 100 projects, D&K has provided scoping, design, municipal project management, and/or construction phase services for Municipal Assistance Section projects since the program's inception in the 1990s. D&K regularly leads projects receiving grants from the State of Vermont, FHWA, FEMA, FAA, and EPA throughout Vermont and New England. Our firm has a clear understanding of the requirements of federally funded, municipally managed transportation projects and the needs of municipal governments ranging in size from Vermont's smallest town to its largest city. Our staff maintain positive working relationships with Vermont's regional planning commissions and the regulatory community. We are committed to providing qualified, well-equipped, experienced, and responsible professionals who provide high-quality services on a consistent basis.

D&K's team of over 130 includes dedicated planning, design, and construction professionals who have provided services on hundreds of projects throughout Vermont over our 61-year history. Our construction management experience includes roadway/highway reconstruction, paving and pavement management, bridges, intersections, culverts, dams, water/wastewater, sidewalks/pathways, historic facilities, utility reconstruction and replacement, stormwater, riverbank and slope stabilization, vertical construction, and site improvements.

D&K's multidisciplinary, in-house personnel are supported by subconsultant S. W. Cole for materials testing to address the needs of municipal projects. We appreciate your consideration of our qualifications and look forward to continuing to support Vermont municipalities on state-funded and federally funded transportation and infrastructure improvement projects. We would be pleased to answer any questions you may have. Please do not hesitate to give me a call at 802.728.3376 or contact me via email at cgoodling@dubois-king.com.

Sincerely,
DuBois & King



Charles Goodling, PE
Contract Manager

B. GENERAL FIRM INFORMATION



GENERAL FIRM INFORMATION



CONTACT INFORMATION

DUBOIS & KING, INC.
CHARLES GOODLING, PE
28 NORTH MAIN STREET
RANDOLPH, VT 05060
802.728.3376
CGOODLING@DUBOIS-KING.COM



DUBOIS & KING

Established in 1962, DuBois & King (D&K) is a Vermont-based consulting engineering firm with 130 professional engineers, planners, designers, surveyors, technicians, environmental and permitting specialists, and support personnel. As described in the following pages, the firm maintains an experienced Construction Department with staff who have provided observation and administration for dozens of Municipal Assistance Section (MAS) projects and numerous federally funded transportation and infrastructure projects with identical construction requirements and standards.

CONSTRUCTION INSPECTION EXPERIENCE AND CAPABILITIES

D&K provides construction administration, bid phase, and observation/resident engineering services for projects designed by the firm and for projects designed by others. As the owner's representative, D&K field staff operate as the liaison between the owner and the contractor to obtain contractor adherence to project design, schedule, and budget. Services are provided to municipal, federal, state, institutional, and commercial clients for a range of projects, including roadways, sidewalks, bridges, dams, wastewater facilities, airports, stormwater, and site improvements.

Management Personnel

Corporate Officers

Jeffrey Tucker, PE, LEED AP, CEO

Charles Goodling, PE, President

John Baumann, Senior VP, CFO

Alan Gould, PE, VP, Director, Building Services Div.

Melissa Stephen, Director, Marketing & Business Development Div.

Operational Officers and Managers

David Conger, PE, VP, Director, Site & Land Div.

Andy Hoak, PE, PG, Director, Environmental Services Div.

Jonathan Ashley, PE, Director, Public Works and Facilities Div.

Guy Rouelle, CM, Director, Aviation Div.

Timothy Dall, PE, SE, LEED AP, Director, Structures Div.

Megan Ooms, PE, Manager, Bridge Dept.

Robert Kischko, PE, Manager, Electrical Dept.

Steve Dumas, PE, CxA, BCxP, LEED AP, Manager, Mechanical Dept.

Chris Lathrop, PE, Manager, Highway Dept.

Chris Sargent, AICP, CFM, Manager, Planning Dept.

Randall Otis, LS, Manager, Survey Dept.

D&K's services include:

- **Contract Administration**
- **Receipt of Bids**
- **Construction Administration**
- **Construction Observation**
- **Change Orders**
- **Submittals**
- **Records Maintenance**
- **Field Directives**
- **Periodic Progress/Budget Reports**
- **Substantial and Final Completion**
- **Cost Estimating**
- **Grant Administration**
- **Record Drawings**
- **Testing Oversight**

S. W. COLE

Established in 1979 in Bangor, Maine, S. W. Cole Engineering, Inc., is a geotechnical engineering, construction materials testing and special inspections firm serving private and public sector clientele across New England from offices in Vermont, Maine, New Hampshire, Massachusetts, and Rhode Island. The firm's team of engineers and technicians provide services on more than 2,200 projects each year.

GEOTECHNICAL ENGINEERING

Subsurface Investigations, Foundations, Earthwork, Pavement. S. W. Cole's licensed engineers provide sensible geotechnical solutions for foundations, earthwork, and pavements associated with building, site development, and infrastructure projects in New England. The firm's services include:

- **Geotechnical Feasibility Studies**
- **Subsurface Investigations**
- **Spread Footing Design Parameters**
- **Deep Foundation Engineering and Design**
- **Ground Improvement Engineering**
- **Excavation and Dewatering Consulting**
- **Retaining Wall and Slope Stability Analyses**
- **MSE Retaining Wall Design**
- **Pavement Engineering and Design**
- **Geotechnical Laboratory Testing**



S. W. Cole and D&K worked closely together on the \$20M US Route 7 Segment 6 project in downtown Brandon.

CONSTRUCTION MATERIALS TESTING AND SPECIAL INSPECTIONS

Soil, Concrete, Grout, Asphalt, Masonry, Steel, Fireproofing. S. W. Cole's certified technicians provide field and laboratory testing for soil, concrete, masonry, steel, fireproofing, and asphalt construction materials, including:

- **Construction QA/QC Programs and Monitoring**
- **Earthwork Observations and Compaction Testing**
- **Reinforced Concrete Testing and Special Inspections**
- **Soil/Aggregate Sampling and Testing**
- **Structural Masonry Testing and Special Inspections**
- **Structural Steel Testing and Special Inspections**
- **Spray-Applied Fireproofing Testing and Special Inspections**
- **Pavement Evaluation and Testing**
- **IBC Special Inspection Coordination**
- **Slab Flatness and Moisture Testing**
- **Certified Welding Inspector Testing**

CONSTRUCTION PHASE SERVICES UNDERSTANDING

Upon selection, D&K will initiate the following activities:

- **Review the Contract Documents.** Obtain and review a copy of the Contract Documents in order to understand the scope and duration of the project, the type of construction activities involved, materials testing requirements, and any special conditions or permit-related requirements specific to this project.
- **Draft a Scope of Services.** Develop a draft scope of services and corresponding budget for review with the client, Municipal Project Manager (MPM), and VTrans representative.
- **Select the Most Qualified RPR.** D&K will review our list of inspectors and match the experience and skills of an individual with the project-specific requirements.



Once concurrence has been reached with all parties and the engineering services agreement has been executed, D&K will initiate services. The MAS Local Projects Guidebook requires the construction inspection firm to be on board prior to the preconstruction meeting.

Based on our experience on past MAS and transportation improvement projects, D&K has a strong understanding of construction-related items that we will manage from the onset of the construction phase through to successful project completion:

- **Project Communications and Documentation.** D&K's approach to a successfully constructed project stresses good documentation and clear lines of communication. A typical scope of work includes biweekly Construction Status Meetings during the construction period to review project status and address current issues. Our RPR will attend these meetings along with our Construction Manager, the contractor, representatives from the municipality, and other interested project parties. D&K's RPR will record and distribute meeting minutes. It is expected that less formal project coordination meetings, which will be attended by our RPR, will occur on site on a more frequent basis.
- **Schedule.** The D&K RPR will maintain frequent communications with the MPM and monitor the project schedule, which will be updated by the contractor on a biweekly basis.



- **Erosion Prevention and Sediment Control (EPSC).** Our RPR will become familiar with any project-specific erosion/sediment control requirements. The contractor will be instructed to address deficient erosion control measures observed as construction proceeds.
- **Vehicular and Pedestrian Traffic Control.** Most projects are located on or near roads, intersections, and/or pedestrian areas, and will temporarily impact the traveling public. The Contract Documents will require the contractor to maintain vehicular traffic during the construction period, monitoring and limiting pedestrian movement through the construction site and maintaining access to adjacent properties. The safety of pedestrians, cyclists, and motorists during construction will be addressed

through the implementation, maintenance, and monitoring of the contractor's pedestrian and traffic control plan. Traffic control is to be accomplished through the implementation of the MUTCD and VTrans standards.

- **Materials Sampling and Testing.** D&K's RPR is responsible for arranging the required testing for the project by an independent qualified laboratory. The D&K team includes the services of S. W. Cole Engineering to provide the required materials testing services which are typically outlined in the Contract Documents. Our RPR will observe required testing and review test results in accordance with the VTrans Material Sampling Manual.
- **Field Measurements.** D&K's RPR will make field measurements of all appropriate pay items to calculate and verify final contract quantities. We will assist in making sure that quantities/costs are being tracked properly to allow efficient review and contractor payment. These are to be a daily responsibility of the RPR with direct communication with the contractor.
- **Contractor Applications for Payment.** D&K will provide review and oversight of payment applications. Our RPR will work with the contractor's superintendent to reach concurrence on the quantity installed for each pay item during the biweekly payment period. These quantities are summarized on an application for payment form and include a statement from the contractor that the work covered in the application for payment has been performed in accordance with the Contract Documents. Each payment application will be accompanied by a cover sheet documenting that Materials Acceptance Requirements have been satisfied for each pay item. The RPR will confirm that the appropriate certifications have been received, that material testing indicates conformance, and/or if a particular item appears on the Pre-Approved Products List. D&K will forward the payment application to the MPM with D&K's recommendation for payment.
 - **Cost Containment.** D&K will work to identify changes and overruns in advance to inform municipalities of cost increases and work with stakeholders to reach a decision on cost options.



- **Record Drawings.** D&K's RPR will maintain a set of plans for the project to record conditions and changes in the design. These plans will be maintained on site, with record information from the contractor, to be presented to the municipality as a record of the constructed project upon completion.
- **Responsibilities of the Design Engineer.** The RPR will coordinate with the design engineer for shop drawing reviews, contractor plan reviews, differing conditions, and design questions or changes. The RPR will include the design engineer in project meetings (as needed) and in the final inspection.

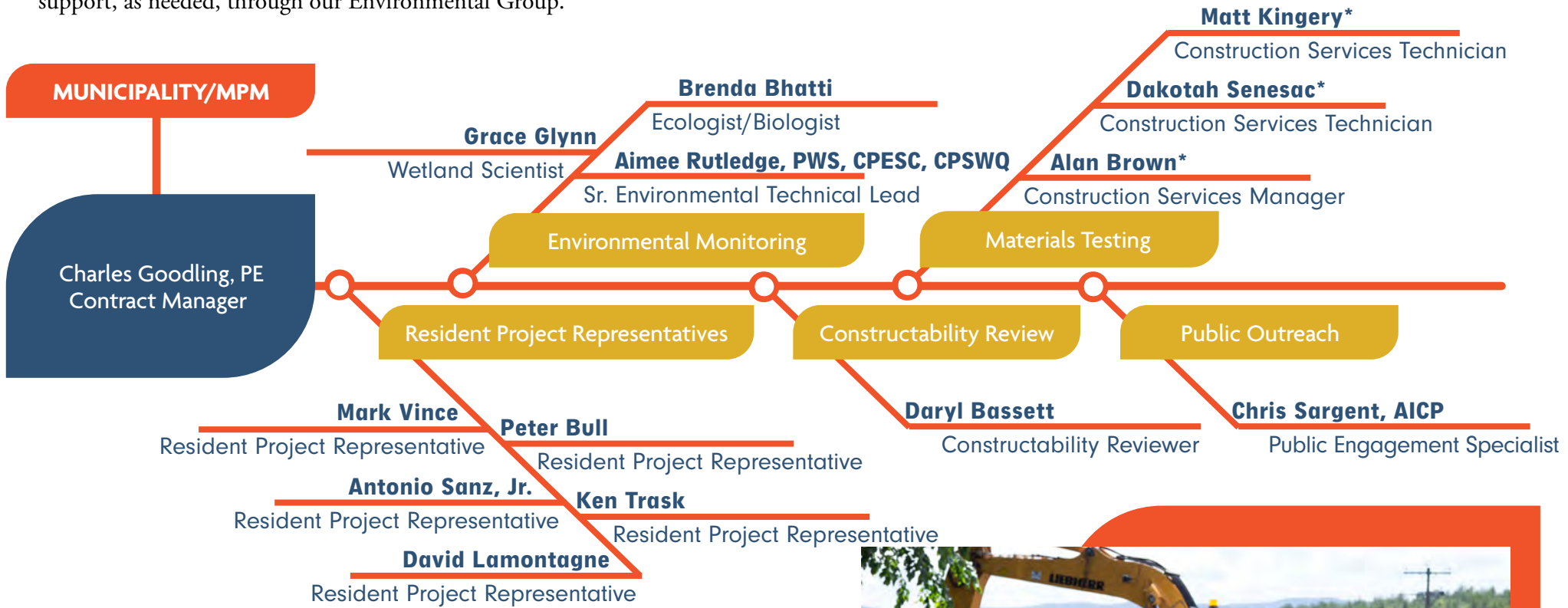


C. ORGANIZATIONAL CHART



ORGANIZATIONAL CHART

Following are key staff available for municipal projects. The D&K RPRs are located throughout Vermont and are available to provide services on site for municipal projects. D&K can also provide permitting and natural resources support, as needed, through our Environmental Group.



*Indicates subconsultant partner



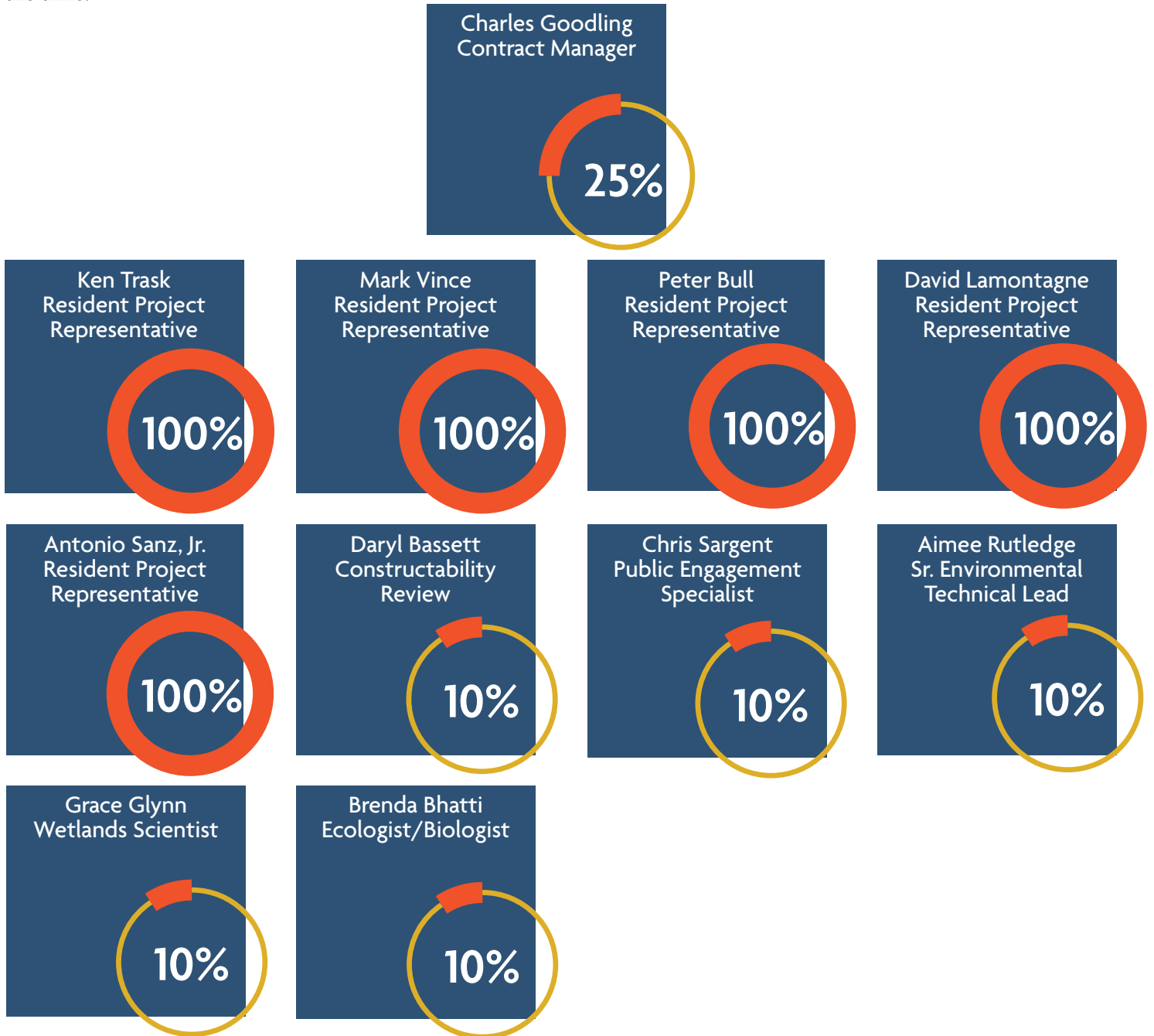
D. AVAILABILITY CHART



AVAILABILITY CHART

D&K developed an overview of staff availability based on typical levels of effort for construction projects. Typically, field staff will be dedicated to the project throughout its duration (up to 100% of their time). The contract manager will typically provide administration services up to 25% of the time. These levels will be adjusted to suit the needs of a particular project.

The Resident Project Representatives presented typically work on municipal infrastructure projects 100% of the time.



S.W. COLE

Materials Testing

- Alan Brown** Construction Services Manager
- Dakotah Senesac** Construction Services Technician
- Matt Kingery** Construction Services Technician



E. TECHNICAL CAPABILITY

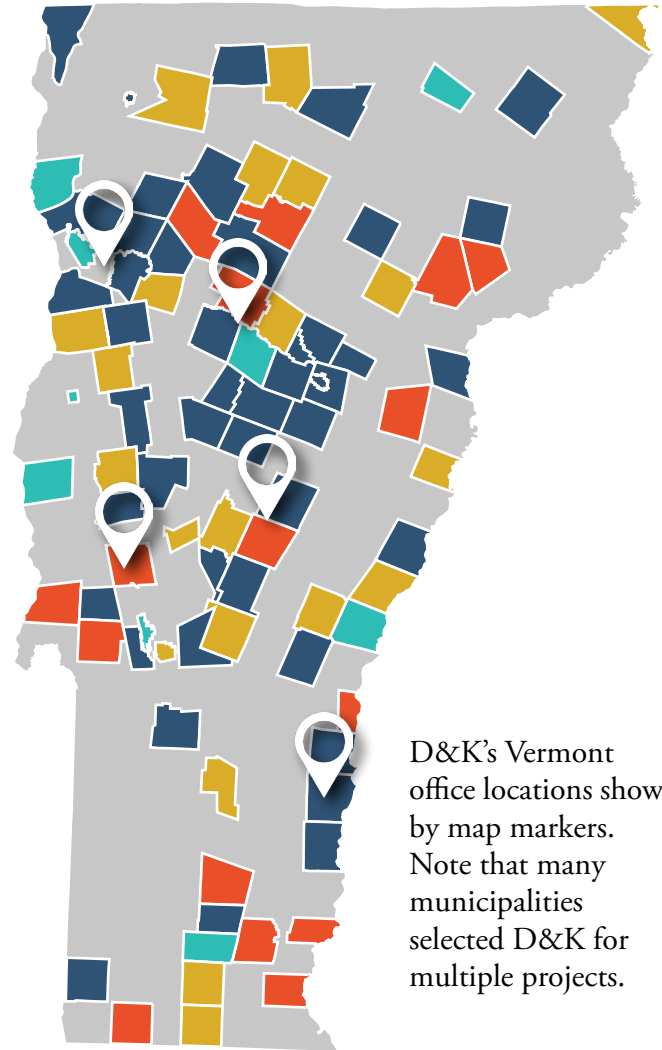


TECHNICAL CAPABILITY

QUALIFICATION AND EXPERIENCE OF THE FIRM

D&K has been providing construction administration, resident engineering, and related services to VTrans and Vermont municipalities for many years, including dozens of successful projects administered through the Municipal Assistance Section (MAS) since the program's inception. Over this period, D&K's Construction Department has developed and expanded a team of qualified Resident Project Representatives (RPRs) who have practical experience with the specific requirements of the MAS program as identified in the Construction (Phase C) section of the MAS Local Projects Guidebook. D&K has a clear understanding of the requirements and expectations for delivering construction inspection services on MAS projects.

D&K'S VTRANS ATR EXPERIENCE MAP



D&K's Vermont office locations shown by map markers. Note that many municipalities selected D&K for multiple projects.



MUNICIPAL EXPERIENCE

- 100+ MAS projects in Vermont (see experience map)
- 50+ federally funded municipal projects in New Hampshire and Maine
- Municipal projects constitute the largest share of D&K's work



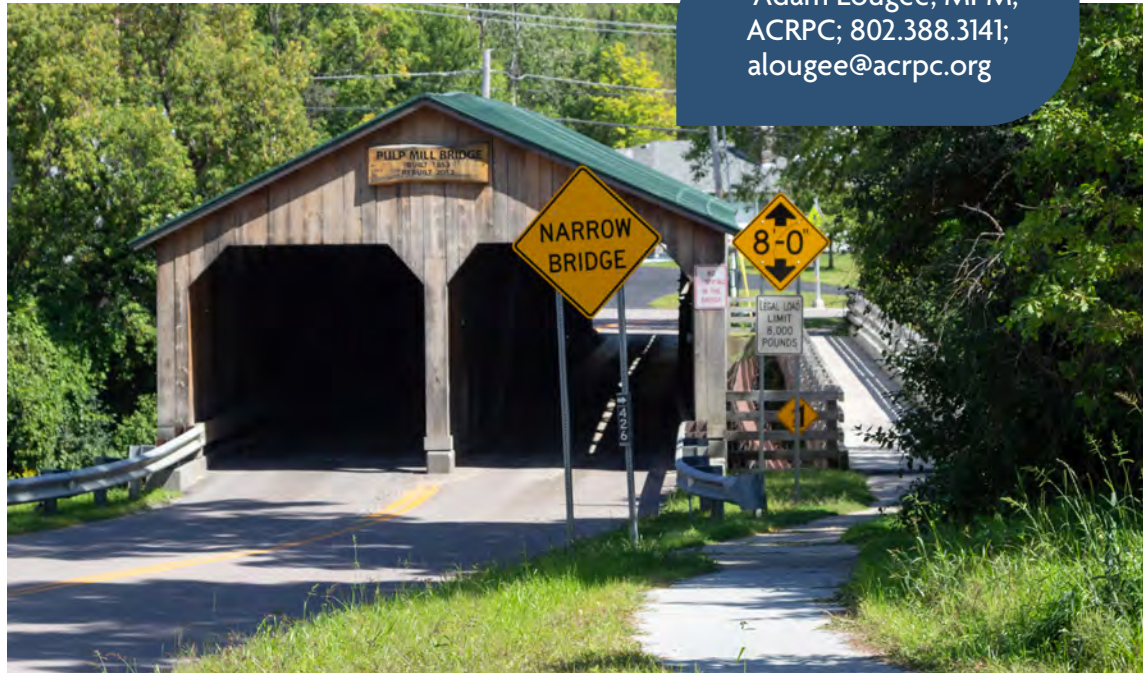
PROJECT EXAMPLES

PULP MILL BRIDGE ROAD/WYBRIDGE AND SEYMORE STREETS SIDEWALK AND DRAINAGE IMPROVEMENTS, TOWN OF MIDDLEBURY

D&K provided Construction Observation and Materials and Equipment Inspection and Testing Services for the construction of two sections of concrete sidewalk; drainage improvements through the use of ditching, new catch basins, and associated piping; signage; pavement markings; full depth road reclamation and reconstruction; granite curbing; slope grading; and associated traffic control and erosion control practices.

This project was developed through the MAS with funding for the sidewalk project from state grants and some Town funds and with funding for the road improvements solely from the town of Middlebury. The objective of this project was to provide safe pedestrian access to the historic covered bridge and along the intersection roadway to address existing drainage issues, improving sidewalk conditions.

Key Staff: Chuck Goodling, Antonio Sanz



Adam Lougee, MPM,
ACRPC; 802.388.3141;
alougee@acrpc.org

POPPLE DUNGEON CULVERT REPLACEMENT, TOWN OF CHESTER

D&K led construction administration and observation for a project that replaced a rusted corrugated metal arch pipe culvert with a 50-ft-span bridge with cast-in-place footings and abutments and a precast post tensioned deck.

Key Staff: Mark Vince



Julie Hance, Town
Manager; 802.875.2173;
julie.hance@chestervt.gov

VT 4A/VT 30 SIDEWALK CONSTRUCTION ADMINISTRATION, TOWN OF CASTLETON

D&K led construction administration and observation for new sidewalks and associated site features along approximately 2,800 feet of roadway.

Key Staff: David Lamontagne



Michael Jones, Town
Manager; 802.468.5319;
manager@castletonvt.org

US 7 SEGMENT 6, TOWN OF BRANDON

D&K led construction administration and observation for a \$20M roadway, streetscape, and utility reconstruction project and staffed the project with seven full-time employees over three years. Led drone observation provided by others.

Key Staff: Mark Vince, Peter Bull, and Chuck Goodling



David Atherton, Town Manager; 802.247.3635 ext. 210; datherton@townofbrandon.com

LAMOILLE VALLEY RAIL TRAIL, WEST DANVILLE TO ST. JOHNSBURY

D&K led construction administration and observation for project that converted an unused rail corridor to a 15.3-mile, four-season multiuse path.

Key Staff: Chuck Goodling

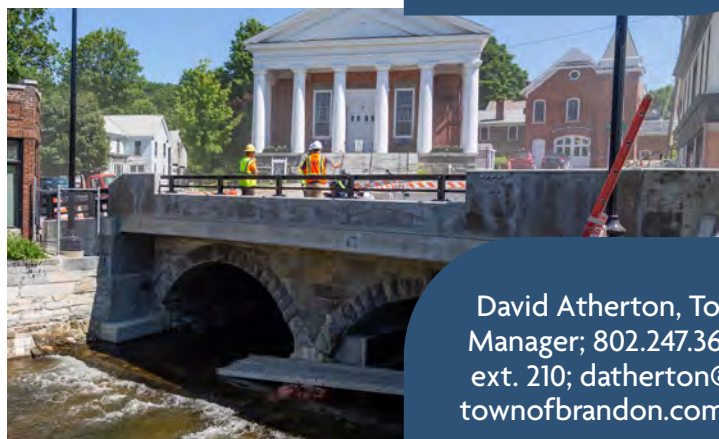


Cindy Locke, VAST Executive Dir.; 802.229.0005 ext. 11; cindy@vtvast.org

CENTRAL STREET BRIDGE, TOWN OF BRANDON

D&K led construction administration and observation for a project that includes historically appropriate structural improvements and a sidewalk replacement. This project was completed in close coordination with the US 7 Segment 6 project using the MAS process.

Key Staff: Mark Vince and Chuck Goodling

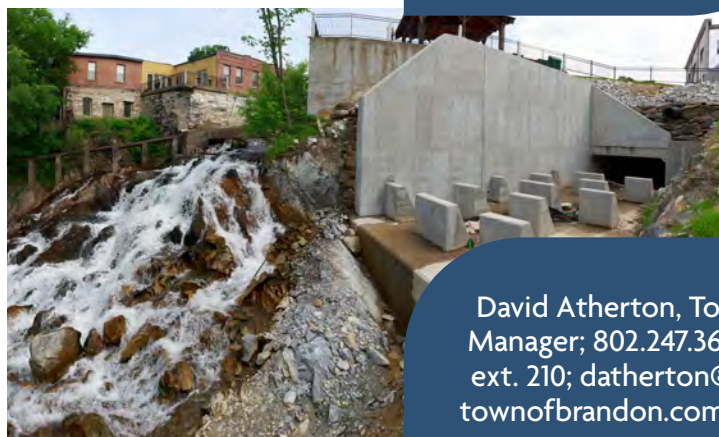


David Atherton, Town Manager; 802.247.3635 ext. 210; datherton@townofbrandon.com

NESHOBE RIVER OVERFLOW CULVERT, TOWN OF BRANDON

D&K led construction administration and observation for a new 278-ft-long, 6-ft-high precast culvert that relieves pressure from an adjacent large, stone arch bridge and properties for storms up to the 500-year event. This project received FEMA HMGP funding.

Key Staff: Chuck Goodling



David Atherton, Town Manager; 802.247.3635 ext. 210; datherton@townofbrandon.com

KEY PERSONNEL

MANAGEMENT STAFF

Charles Goodling, PE, Contract Manager, is President of D&K and a civil engineer with 36 years of experience. Chuck was previously the head of D&K's construction department. His experience includes:

- **Management of over 20 MAS projects**
- **Management of four successive VTrans on-call contracts for construction inspection services**
- **Experience working on projects in all eight VTrans Maintenance Districts**
- **Experience providing and managing design, permitting assistance, and construction phase services for municipal projects**



RESIDENT PROJECT REPRESENTATIVES

Mark Vince, Resident Project Representative, has experience with VTrans as a district highway technician and a geodetic survey technician. He has experience with highway projects and layouts; has supervised many district paving projects, culvert replacements, and small bridge rehabilitation projects; and has experience working with local contractors. Mark is knowledgeable of MUTCD and VOSH/OSHA construction practices and VTrans standards, including for guardrail and highway access.

Peter Bull, Resident Project Representative, provides expertise in field engineering, design, and observation of civil projects for VTrans, the New Hampshire Department of Transportation (NHDOT), and municipalities. His observation experience ranges from safety improvements to construction of roadway and bridges. He acted as Resident Project Representative for the Waterbury Roundabout Project, providing construction inspection services for the intersection of US 2 and VT 100.

Antonio Sanz, Jr., Resident Project Representative, has provided construction observation for water resources and MAS infrastructure assignments at D&K. These projects include dams, river embankments, roads and bridges, facilities, and on-site wastewater disposal systems. As Resident Project Representative, Antonio is responsible for observation, review of technical specifications, data collection, and construction observation.

Ken Trask, Resident Project Representative, has expertise in the planning, designing, construction and operation of water and wastewater projects. He has been responsible for all phases of wastewater collection and treatment; sludge handling, treatment and disposal; water treatment, distribution and storage; and stormwater and CSO management. Ken's responsibilities include preliminary evaluation of problems, development of solutions, preparation and review of construction plans and specifications, troubleshooting with operators, and construction administration.

David Lamontagne, Resident Project Representative, has over 40 years of experience as a resident project representative, construction project management, and general contractor. He has recently acted as the RPR for a sidewalk project in Castleton along VT 4A and VT 30 and for the Grove Street Bridge rehabilitation project in Rutland.

CONSTRUCTABILITY REVIEW STAFF

Daryl Bassett, Constructability Review, has served as an inspector, resident engineer, and technician for VTrans for 21 years. He is currently providing constructability and biddability review on multiple projects for VTrans through D&K. He provides engineering review services throughout the scoping, conceptual, and contract plan phases that focus on project constructability and limiting change orders

during the construction phase. Daryl will be available for periodic site visits and inspections and for submittal reviews to troubleshoot specific issues.



habitats, including radio telemetry, anabat surveys, mist netting, and Tuttle traps. She is a Qualified Airport Wildlife Biologist in training and is affiliated with a number of societies, including The Wildlife Society, the New Hampshire Association of Natural Resource Scientists, and the National Association of Wetland Managers.

PUBLIC OUTREACH

Chris Sargent, AICP, Public Engagement Specialist, has over 20 years of experience working with communities to engage and inform the public. As a community planner, he has a firm understanding of planning, permitting, and public process for the development of transportation and planning projects for local, state, and federal clients. Chris will assist with public outreach on municipal projects and will draw on his experience as a planner to work with municipalities to facilitate the public process.

ENVIRONMENTAL STAFF

Aimee Rutledge, PWS, CPESC, CPSWQ, has 22 years of experience in environmental work, including NEPA documentation, wetlands, water resources, stormwater, wildlife studies, and NEPA. She can provide environmental assessments; wetland delineations, wetland restoration design and monitoring; wetland mitigation design and monitoring; ecological assessments; wildlife inventory and assessments; threatened and endangered species surveys; wetland functions and values assessments; and erosion and sediment control design and monitoring.

Grace Glynn, Wetland Scientist/Field Naturalist, is a field naturalist and wetland scientist with experience in NEPA, permitting, natural resource inventories and assessments, field survey, watershed plans, wetland delineation and mitigation, and threatened and endangered species surveys. Grace is a recipient of the Botanical Society of America Young Botanist Award and is Vermont-certified in Natural Shoreland Erosion Control.

Brenda Bhatti, Ecologist/Biologist, has over 21 years of experience providing natural resource inventories, environmental planning, and regulatory permitting in New England. She is a bat specialist and uses a range of techniques to measure and monitor bats and their

MATERIALS TESTING

Alan Brown, Construction Services Manager, is the manager of S.W. Cole's White River Junction office. He has more than 25 years of experience in field and laboratory inspection of construction materials and holds several certifications from ACI, ICC, and NETTCP. Alan serves on the Board of Directors International Code Council, Vermont Chapter.

Dakotah Senesac, Construction Services Technician, joined S.W. Cole in February 2019 in the White River Junction office. Dakotah is qualified to perform field and laboratory testing on soils, aggregate, and concrete. He has several certifications, including NETTCP HMA Paving Inspector, NETTCP Soils & Aggregate Lab Technician, and NETTCP Soils and Aggregate Inspector, and several certifications from ACI in Aggregate and Concrete Testing.

Matt Kingery, Construction Services Technician, joined S.W. Cole in June 2020 in the White River Junction office. Matt is qualified to perform field and laboratory testing of soil aggregate and concrete. He is a NETTCP Soil & Aggregate Inspector and an ACI Concrete Field Testing Technician - Grade 1.

F. RESUMES





CHARLES GOODLING, PE

Contract Manager

Total Years of Experience: 36

Years with D&K: 34

EDUCATION

B.S., Civil and Environmental Engineering, Utah State University, 1984
A.A.S., Ecology & Environmental Technology, Paul Smith's College, 1981

REGISTRATIONS

Civil Engineering: VT 5797

CERTIFICATIONS

NH LPA Certification: 2057

Mr. Goodling is a Senior Engineer with 36 years of evaluation, design, and construction experience for state and municipal infrastructure projects. As President of DuBois & King, Chuck's responsibilities include client and community liaison, quality control, cost estimating, and scheduling. Chuck is also in charge of the firm's Construction Services Department. He has served as Manager of Construction Phase Services for significant site development and utility projects and for complex, multimillion dollar, long-term roadway reconstruction projects, and all types of MAS-funded projects.

CONSTRUCTION INSPECTION SERVICES, PULP MILL BRIDGE ROAD AND SEYMOUR STREET SIDEWALK, MIDDLEBURY STP BP 14(8), MIDDLEBURY, VT. Principal/Construction Manager for construction phase services for the installation of new sidewalk at two locations. D&K provided inspection of Pulp Mill Bridge Road and Weybridge Road, extending approximately 2,300 LF along Pulp Mill Bridge Road. Additional sidewalk section extends approx. 700 LF from the intersection of Seymour Street and Seymour Street Extension. This VTrans MAS project includes construction of new concrete sidewalk, granite curbing, drainage improvements, signage, a retaining wall, surface restoration and related improvements.

CONSTRUCTION INSPECTION SERVICES, KILLINGTON AVENUE SIDEWALK EXTENSION, RUTLAND, VT. Construction Manager for construction phase services for 1,480 feet of new sidewalk including drainage improvements and box culvert replacement. The project was developed through VTrans MAS. D&K provided construction administration, construction observation, and oversight of inspection and sampling/testing of construction materials on behalf of the municipality.

CONSTRUCTION PHASE SERVICES, US ROUTE 7 SEGMENT 6, BRANDON, VT. Principal-in-Charge for full-time construction administration and observation services on a \$22M roadway/utilities improvement project in the heart of downtown Brandon. The project includes reconstruction of more than a mile-long section of US Route 7 roadway, all associated intersections and two parks. D&K provided six full-time construction inspectors to support the improvements. The project was developed through VTrans MAS.

CONSTRUCTION INSPECTION SERVICES, CITY OF BURLINGTON, VT. Principal/Construction Manager for full time construction inspection services for the installation of up to 2,900 linear feet of water mains, water services connection piping, corporation stops, curb stops, fire hydrants, temporary water, curb replacement, sidewalk replacement, and pavement restoration. Provided administrative support and oversight of construction administration, construction inspection, and materials and equipment testing.

CREEK ROAD SIDEWALK AND ROAD RECONSTRUCTION PROJECT, MIDDLEBURY, VT. Principal-in-Charge for construction observation and administration for construction of a 5-foot-wide concrete sidewalk, drainage improvements, and roadway reconstruction project. Funding for the sidewalk was administered by the VTrans MAS. The roadway reconstruction component was completed using municipal funds.



MARK VINCE

Resident Project Representative

Total Years of Experience: 31

Years with D&K: 12

EDUCATION

A.S., Civil Engineering Technology,
Vermont Technical College, 1991

CERTIFICATIONS

NETTCP-Concrete Inspection Certification
Nuclear Cert.
NHDOT LPA Certification: 2059

Mr. Vince has 31 years of construction inspection experience that includes 6 years of employment with the Vermont Agency of Transportation (VTrans) as a Technician IV in District #3 (Rutland) and as a Geodetic Survey Technician IV. He has resident inspection experience in a wide variety of transportation projects, including district paving, culvert replacement, bridge rehabilitation and replacement, and aviation projects, and has extensive experience working with contractors. Mark's experience includes construction survey and stakeout, overseeing materials testing, and materials, quantity, and cost tracking. Mark is knowledgeable in VOSHA/OSHA construction practices and VTrans standards specifically for guardrail and highway access. He is familiar with traffic control planning/requirements and is a MUTCD-certified flagger.

US ROUTE 7 SEGMENT 6 CONSTRUCTION INSPECTION, BRANDON, VT. Resident Project Representative for full-time construction inspection services for a major roadway and underground infrastructure reconstruction project through the heart of downtown Brandon. The project consists of roadway widening, sidewalks and curbs, pavement markings, traffic signs, signal, water main, sanitary sewer, aerial and underground utilities and stormwater improvements for the Brandon Village portion of U.S. Route 7. Included are portions of Franklin Street, Park Street, Center Street, Conant Square, Grove Street, and associated intersections and side roads. The project reconstructs a major north-south highway link through downtown to create a geometric configuration that will serve the high traffic volumes and access of abutting properties.

POPPLE DUNGEON ROAD BRIDGE REPLACEMENT, TH-10 CHESTER, VT. Resident Project Representative responsible for the daily reporting of progress and quantities for the replacement of a failed large metal culvert. The new 50-ft-span bridge had cast-in-place footings and abutments and a precast post tensioned deck. The project included streambed and bank restoration. The bridge was installed as part of a VTrans MAS project.

CENTRAL STREET BRIDGE REHABILITATION, BRANDON, VT. Resident Project Representative for rehabilitation of a historic concrete bridge carrying US 7/Central Street and various utilities over the Neshobe River in an urban area. The project is being completed concurrently and in close coordination with the \$20M US 7 Segment 6 roadway/utilities reconstruction project. Responsible for on-site construction observation, preparation of daily work reports, observation of materials testing, review of payment requests, coordination of responses to RFIs, attendance of project-related meetings and serving as a liaison between the Town, regulatory agencies, the contractor, and the design engineer.

CONSTRUCTION INSPECTION/CHIEF INSPECTOR, VT ROUTE 66 RECLAIM, VTRANS, RANDOLPH, VT. Construction Inspector/Chief Inspector for reclaiming and repaving 7.192 miles of VT Route 66. Services included engineering design and plan development, roadway banking improvements, pavement markings, signage, pedestrian ramps, guardrail improvements, truncated domes, rehabilitation of drainage structures, and cost/quantity estimation. As Chief Inspector, Mark oversaw the work of one state employee and another consultant inspector. Responsible for proofreading paperwork from the field to pass along to the office engineer for data entry. Responsible for coordinating with adjacent landowners to resolve drainage and mailbox/driveway access issues.

IMG SIGN(54) SIGNING, INTERSTATE 91, VTRANS, WHITE RIVER JUNCTION-SPRINGFIELD, VT. Construction Inspector providing construction observation and concrete inspection services for signing improvements for 34 miles of Interstate 91 northbound and southbound, main line and ramps between Exit 7 and Exit 11. Project included the installation of the large extruded signs on W-Beam posts and the construction of multiple spread footing for overhead signs as well rolling roadblocks.



PETER BULL

Resident Project Representative

Total Years of Experience: 28

Years with D&K: 10

EDUCATION

B.S., Business Management and Technology, Vermont Technical College, Randolph, VT 2009

A.S., Civil Engineering Technology, Vermont Technical College, Randolph, VT 1991

CERTIFICATIONS

Troxler Nuclear Gauge

NETTCP Hot Mix Asphalt Paving Inspector: 2573

ACI Concrete Field Testing: 000934933

Mr. Bull has 28 years of experience in field engineering, design, and observation of civil projects for the Vermont Agency of Transportation (VTrans), the New Hampshire Department of Transportation (NH DOT) and local municipalities. His observation experience has ranged from safety improvements to construction of roadway and bridges. He was previously employed as a construction inspector for NH DOT, where his responsibilities included observing layout of new interstate, full depth reclamation of I-89, and layout of curbing and drainage.

RESIDENT PROJECT REPRESENTATIVE, WATERBURY ROUNDABOUT, WATERBURY, VT. Assistant Construction Inspector for the construction of a new vehicular roundabout at the intersection of US 2 and VT 100. This \$3.9M project included: modification and rehabilitation to existing bridges for roadway and pedestrian accommodation; partial and complete roadway reconstruction; imprinted island construction; stormwater management; parking reconfigurations and improvements; new sidewalks, curbing, crosswalks, and signage; undergrounding of utilities; replacement and extension of water and sewer mains; and lighting, landscaping, and streetscaping. Responsibilities include preparing daily inspection reports; maintaining a photographic record of construction; coordinating required materials testing by an independent qualified laboratory and assuring preliminary process control tests on material samples are performed in accordance with VTrans requirements; reviewing quantities and Contractor's progress pay requests; and coordinating with the municipality, contractor, and design engineer.

ENTERPRISE ALY AND DEPOT SQUARE RECONSTRUCTION, BARRE, VT. Resident Project Representative for the construction phase of an urban brownfield redevelopment project that has improved traffic circulation, parking, pedestrian facilities, aesthetics, and implementation of a corrective action plan (CAP) from a former dry cleaning facility, which leached trichloroethene (TCE) into the nearby soils. The project included installation of closed drainage systems, buried liquefied propane tanks serving area businesses, sewer service upgrades, and a water line service. The project also included lighting, landscaping improvements. Services included close coordination with the City, abutting property owners, and the VTrans Rail Section for the abutting railroad. Provided full time resident engineering; tasks included construction observation, participation in coordination meetings weekly, review of submittals and pay requests, maintaining a field book that includes daily activities, review of as-constructed conditions, and response to requests for information. Provided observation of the soil vapor extraction system.

RESIDENT ENGINEER, ROADWAY RECONSTRUCTION, US ROUTE 7, BRANDON, VT. Resident Inspector for a \$20M major, full depth roadway reconstruction of 3 miles of US Route 7. The project included streetscape improvements: street trees, lighting, brick/decorative sidewalk treatments, benches, trash cans, common redevelopment (two fountains and a gazebo). This project was the largest completed project in Vermont history for the VTrans MAB. Responsibilities included removal and replacement of storm drainage and structures, new sewer and water mains, paving. Services included tracking quantities, testing and as-builts, traffic control for safety of traveling public, and day-to-day documentation for payment and final records. Finalized the drainage portion of the project in accordance with VTrans standards.

RUNWAY AND TAXIWAY EXTENSION, STEPHEN A. BEAN MUNICIPAL AIRFIELD, RANGELEY, ME. Construction Observation services for 1,100-ft runway and taxiway extension to accommodate aircraft from Lifeflight, a nonprofit medical flight service.



ANTONIO SANZ, JR.

Resident Project Representative

Total Years of Experience: 22

Years with D&K: 22

EDUCATION

A.S., Civil/Environmental Technology,
Vermont Technical College, 2000

CERTIFICATIONS

Nuclear Moisture/Density
Equipment: 12595
NETTCP Hot Mix Asphalt Certified: 2595
Confined Space Certification
State of Vermont, Class A
Licensed Designer
ACI Concrete Field Testing

Mr. Sanz has 22 years of experience as a Resident Project Representative supporting water resources, civil/site, and transportation infrastructure assignments at DuBois & King. These roads, bridges, highway design, dams, facilities, and on-site wastewater disposal systems. As Resident Project Representative, Antonio is responsible for review of technical specifications, data collection, and performing construction observation.

BETHEL MOUNTAIN ROAD SLOPE STABILIZATION, ROCHESTER, VT. Resident Project Representative responsible for construction observation for a 2,800-LF emergency roadway repair project. The project implemented long-term repairs to sections of the embankment that failed during a heavy spring rainfall and snowmelt event that closed the road, including upgraded drainage systems and structures, slope repair, and roadway reconstruction and minor realignment. Serving as a valuable mountain connector road between VT 100 and VT 12, rapid reopening and stabilization of the roadway was a critical need, which dictated a significantly compressed schedule. The project was managed by the Town of Rochester and received FHWA-ER funding. *VT ACEC Grand Award Winner.*

PULP MILL BRIDGE ROAD/WEYBRIDGE AND SEYMORE STREETS SIDEWALK AND DRAINAGE IMPROVEMENTS, ACRPC, WEYBRIDGE, VT. Resident Project Representative to provide construction observation and materials inspection and testing services for the construction of two sections of concrete sidewalk totaling approximately 3,000 ft. The project included drainage improvements through the use of ditching, new catch basins, and associated piping; signage; pavement markings; full depth road reclamation and reconstruction; granite curbing; slope grading; and associated traffic control and erosion control practices.

BULL RUN ROAD SLOPE STABILIZATION, ROXBURY, VT. Resident Project Representative responsible for providing construction observation in support of repairs to a failed roadway embankment (approximately 75-ft-long by 50-ft-wide). Provided part-time observation of contractor's activities. The project includes stabilization of the roadway embankment; reconstruction and stabilization of the failed slope; stabilization of the roadway; completion and submission of permitting applications; and development of contract documents.

RESIDENT PROJECT REPRESENTATIVE, BRIDGE REHABILITATION, US 2/VT100 ROUNDABOUT, WATERBURY, VT. Construction observation for a new \$3.9M roundabout project that addressed unsafe conditions, including high traffic volumes and inadequate pedestrian facilities in an area serving as a gateway to the village of Waterbury and area businesses. Provided observation for deck replacement to a two-lane bridge serving US 2/VT 100/Main Street. Responsibilities included preparing daily observation reports; maintaining a photographic record of construction; coordinating required materials testing by an independent qualified laboratory and assuring preliminary process control tests on material samples were performed in accordance with VTrans requirements; reviewing quantities and contractor's progress pay requests; and coordinating with the municipality, Contractor, and design engineer. Project was funded through VTrans MAS and complied with the MAS Guidebook for Locally Managed Projects.

RESIDENT PROJECT REPRESENTATIVE, DISTRICT #4, VTRANS, VARIOUS LOCATIONS, VT. After Tropical Storm Irene, emergency or temporary repairs were made to numerous sites within District #4. VTrans initiated inspections of the condition of the emergency or temporary repairs in advance of making permanent repairs. Provided construction observation at select sites for permanent repairs.



KEN TRASK

Resident Project Representative

Total Years of Experience: 40+

Years with D&K: 13

EDUCATION

M.S., Sanitary Engineering,
Northeastern University, Boston,
MA, 1977

B.S., Civil Engineering, Northeastern
University, Boston, MA, 1974

Mr. Trask is a civil engineer with over 40 years of experience in the planning, designing, construction and operation of water and wastewater projects. Responsible for all phases of wastewater collection and treatment; sludge handling, treatment and disposal; water treatment, distribution and storage; stormwater and CSO management. Responsibilities include preliminary evaluation of problems, solution development, preparation and review of construction plans and specifications, troubleshooting with operators, and construction administration.

WASTEWATER TREATMENT FACILITY BIOSOLIDS IMPROVEMENT PROJECT, CITY OF BARRE, VT.

Resident Project Representative for replacement of existing steel digester cover with a new stainless steel cover, installation of a new waste gas burner assembly and piping, and miscellaneous piping revisions. Monitored contractor operations for compliance with plans and specifications, tracked quantities, kept record information, observed testing, startup procedures and operator training and prepared daily field reports.

STORMWATER SYSTEM UPGRADE, FEMA HMGP, CITY OF BARRE, VT.

Resident Project Representative for installation of 1,000 LF of 12- and 18-inch storm drain along Granite Street including an outfall. Responsible for providing observation during contractor activities, maintaining a set of record drawings, and completing daily reports of contractor activities.

MOUNTAIN WASTEWATER TREATMENT FACILITY TERTIARY FILTER REPLACEMENT, SUGARBUSH RESORT, WARREN, VT.

Resident Project Representative for removal and replacement of the existing tertiary wastewater filter with two new tertiary wastewater filters, miscellaneous improvements to the filter room, construction of a new blower building with two new lagoon blowers, aeration piping and appurtenances. Monitored contractor operations for compliance with plans and specifications, tracked quantities, kept record information, observed testing, startup procedures and operator training and prepared daily field reports.

CONTRACT #2, TROY COLLECTION SYSTEM & CONTRACT #3, TOWNS OF TROY AND JAY, VT.

Responsible for design and permitting of approximately 12 miles of collection sewers, 4.5 miles of force mains and two pumping facilities. The Troy pumping facility incorporated progressive cavity pumps due to the long force main and high head. Chemical feed and aeration were designed into the facility to prevent septic conditions from occurring in the long force main. Responsible during construction for inspection of Contract No. 2 and No. 3. Managed up to four inspectors on the two contracts. Responsible for start-up, operator training, Operation and Maintenance manual preparation and conducted the one-year operation and performance monitoring following acceptance of the facilities by the Owner.

WWTFS AND PUMP STATION IMPROVEMENTS, CANAAN, VT, AND STEWARTSTOWN, NH.

Senior Engineer for a study and design of improvements to the wastewater treatment facilities and pump stations. Recommendations included a new pump station at the treatment plant, new headworks with screening and grit removal, a new fine bubble aeration system in the lagoons, solar powered mixers in the first two lagoons, a new chlorine contact tank, new sludge removal and dewatering with geotubes, new septage receiving system, a new control building and converting the pump stations to submersible pumps.

DAVID LAMONTAGNE

Resident Project Representative

Total Years of Experience: 40+

Years with D&K: 1

EDUCATION

University of Virginia, Evening
Division, 1988

Coursework: Construction Project
Management, Surveying, Estimating,
Industrial Safety, and Quality
Control Engineering

Mr. Lamontagne is a resident project representative and a former business owner with over 40 years of experience in production management for construction. His experience includes the inspection and construction as owner and superintendent of a 20-25-person contracting firm responsible for completing site-civil improvements, high-profile and secure federal government buildings and facilities, and commercial projects, including surveying, excavation, sheeting and shoring, foundations, site work, building structure, piping systems, heavy electrical, ventilation, atmospheric controls, mechanical and security systems, and digital and analog telemetry systems.

SIDEWALK PROJECT, CASTLETON, VT. Resident Project Representative responsible for providing part-time construction observation services for a 2,800-LF sidewalk project along VT 4A and VT 30 in Castleton. This project utilized VTrans specifications and pay items.

GROVE STREET BRIDGE REHABILITATION, RUTLAND, VT. Resident Project Representative for the construction phase of this bridge rehabilitation project. Responsible for on-site construction observation, preparation of daily work reports, observation of materials testing, review of payment requests, coordination of responses to RFIs, attendance of project-related meetings, and serving as a liaison among D&K, the town, regulatory agencies, and the contractor. D&K services included a study, design, and construction phase services for the substructure rehabilitation and replacement of the joints and bearings for a three-span, non-continuous, 169-ft-long steel stringer bridge with a concrete deck.

CULVERT AND BRIDGE IMPROVEMENTS, OLD DOMINION RAILROAD PARK, FAIRFAX, VA.

General Contractor responsible for the repair and reconstruction of six stone culverts and two bridge abutments for a 100-year-old, 45-mi-long railway bed. Activities included removal of debris and accumulated silt and sand, jacking and repositioning the existing stonework and patching stone joints with mortar. Duties included attending pre-bid coordination meetings, overseeing bid development, negotiation of contracts, submission of RFIs, completing change orders, providing value engineering, and supervision of construction crews.

WATERFRONT PARK, POTOMAC RIVER, OXEN HILL, MD.

Contractor responsible for the excavation, extension, and reconstruction of a 900-LF x 60-LF riprap embankment, including laying new geo fabric, backfilling, and placing 250 tons of riprap. Duties included attending pre-bid coordination meetings, overseeing bid development, negotiation of contracts, submission of RFIs, completing change orders, providing value engineering, and supervision of construction crews.

BRIDGE ABUTMENT REPAIR, AMERICA ONLINE, VIENNA, VA. General Contractor responsible for the partial demolition and structural repair of six on-campus bridge abutments, including chipping, sandblasting, rebar replacement, and concrete patching totaling approximately 1,200 SF. Duties included attending pre-bid coordination meetings, overseeing bid development, negotiation of contracts, submission of RFIs, completing change orders, providing value engineering, and supervision of construction crews.

KENNEDY CENTER FOR THE PERFORMING ARTS, WASHINGTON, DC. General Contractor responsible for the reconstruction of the graduated theater seating and balconies at the 2,465-seat and two balcony Concert Hall and the 2,500-seat Eisenhower Theater. Scope included forming, reinforcing, and placing approx. 230 CY of concrete for steps, ramps, balconies and stage slabs. Duties included attending pre-bid coordination meetings, overseeing bid development, negotiation of contracts, submission of RFIs, completing change orders, providing value engineering, and supervision of construction crews.



DARYL BASSETT

Constructability Review

Total Years of Experience: 22

Years with D&K: 1

EDUCATION

A.E., Civil and Environmental Engineering, Vermont Technical College, 1999
Magna Cum Laude

CERTIFICATIONS

ACI Concrete Field-Testing Technician, Grade I
NETTCP Driven Pile Foundation Inspector

Mr. Bassett is a senior resident project representative who has 22 years of relevant experience, including serving as an inspector, resident engineer, and technician for the Vermont Agency of Transportation (VTrans) for 21 years. Prior to joining VTrans, he served in the Army and National Guard as a combat engineer. Daryl's hands-on project experience serving as a construction inspector, resident engineer, and resident project representative for bridge, roadway, slope rehabilitation, ledge removal, stream relocation, and general maintenance projects. His bridge experience includes accelerated bridge construction, steel, plate girder, precast concrete, timber, interstate, rail, and historic rehabilitation projects.

CONSTRUCTABILITY AND BIDDABILITY REVIEW, MULTIPLE PROJECTS, VTRANS, STATEWIDE, VT. Constructability Reviewer responsible for providing engineering review services through the scoping, conceptual, preliminary, final, and contract plan phases that focus on project constructability and limiting change orders during the construction phase. Also responsible to perform field visits to confirm the existing conditions of structures, to provide an intensive review of project-specific documentation, and to review the project scope for appropriateness. This information is used to collaborate with VTrans Project Managers throughout the plan development phases to develop alternatives, mitigate risk, and ensure overall project success. Reviews support the delivery of high-quality project plans and contracts prepared by D&K and other consultants.

- **US 2 BRIDGE REHABILITATION, WATERBURY.** Constructability Review of design of superstructure replacement and substructure repairs to a 243-ft-long, 3-span, rolled-beam bridge crossing the Little River. Project challenges include safely detouring large trucks, passenger cars, pedestrians, and cyclists through a tight site during construction.
- **VT 102 HISTORIC TRUSS BRIDGE REHABILITATION, BLOOMFIELD.** Constructability Review for evaluation and design for the rehabilitation of Bridge 9, a circa-1937, 130-ft-span steel through truss bridge over the Nulhegan River. The project addresses corrosion throughout the superstructure as well as appurtenant improvements to the substructure. Adjacent to a recreational easement and the VT/NH border, the project includes substantial stakeholder engagement.

BRIDGE IMPROVEMENTS, WINDSOR IM 091-1(64) AND ROCKINGHAM IM 091-1(66), WINDSOR AND ROCKINGHAM, VT. VTrans Resident Engineer for two design-build projects of large bridges in and over streams. Oversaw Environmental Compliance Officers for both projects. Responsible for oversight of work and adherence to permitting requirements.

RIVER/STREAM STABILIZATION, WOODSTOCK ER 0241(40), WOODSTOCK, VT. VTrans Resident Engineer for a stream restoration and roadway stabilization project that required a complete stream diversion during construction.

BRIDGE AND INTERSTATE, US, AND STATE HIGHWAY PROJECTS, VTRANS, VARIOUS LOCATIONS, VT. Resident Engineer and/or Resident Inspector responsible for observing contractor activities, completing daily reports, coordinating testing, supporting construction contract administration, and/or coordinating between project parties.



CHRIS SARGENT, AICP

Public Engagement Specialist

Total Years of Experience: 21

Years with D&K: 6

EDUCATION

M.S., Resource Management & Administration, Antioch New England Graduate School, 2001

B.A., Johnson State College, 1993

CERTIFICATIONS

M.S., Resource Management & Administration, Antioch New England Graduate School, 2001

B.A., Johnson State College, 1993

Mr. Sargent has 21 years of experience in community planning with expertise in municipal planning and government, zoning regulation, permit analysis, facilitation, and public process. He has extensive experience working with communities to engage the public, having worked with over 30 communities to develop their own municipal vision for the future. Chris has overseen the development of long-range regional planning policy, including land use, natural resource protection, and energy. He has assisted multiple municipalities with local planning, including zoning, flood hazard, and subdivision regulations, and assisted state agencies with the development of land use and energy planning policy that guides regional and municipal renewable energy planning. As a Community Planner, he has a firm understanding of planning, permitting, and public process for the development of transportation and planning projects for local, state, and federal clients.

BEAVER MEADOW SIDEWALK SCOPING STUDY, NORWICH, VT. Project Manager for a scoping study to develop a plan to enhance connectivity and safety for pedestrians and cyclists traveling along Beaver Meadow Road between Huntley Avenue and Morre Road, and eventually to Ballard Trail trailhead. When complete, this project will create a contiguous safe walking route linking the Town center, Huntley Meadows, and some of Norwich's most densely settled neighborhoods. Responsible for managing day-to-day development, public engagement, senior-level planning, scheduling, budgeting, and QA review of deliverables. This project is funded in part by the Federal Highway Administration, the Town of Norwich, and VTrans MAS.

TRI-PARK MASTER PLAN, BRATTLEBORO, VT. Project Manager responsible for developing a master plan and approach to moving more than 40 mobile homes located near or inside a floodway to other areas within the Park. Located at the confluence of Whetstone Brook and two other waterways, homes within Tri-Park have encountered damage and in some cases have been removed as a result of flooding in 2005 and 2011. Tri-Park is the largest manufactured housing cooperative in Vermont with 323 homes located on site. Responsible for working with Tri-Park and Town officials, completing a large-scale public engagement initiative to gather input, and overseeing concurrent economic analysis and hydraulic and hydrologic analysis as part of the project. Utilizing GIS to develop flood hazard and master plan maps. Developed a narrative and graphical report that summarizes existing conditions, steps forward, costs, and coordination with funding and regulatory officials to remove homes from hazardous areas within the park. *The project received a Grand Award for Engineering Excellence and Green Mountain (overall) Award from ACEC-VT and a Certificate of Merit from the Vermont Planners Association.*

DESIGN OF 5 CORNERS, CCRPC, ESSEX, VT. Project Manager/Senior Planner responsible for land use planning and public engagement for a plan that explored the benefits of reconfiguring the five-way intersection as a four-way junction to improve traffic flow for people driving through, and reduce crossing distances and exposure to traffic for pedestrians. The project included documenting parking utilization throughout the Village to determine the community's parking needs and how to best accommodate them. The project also included a detailed step-by-step implementation plan, and development of language to modify the village plan to set the project on a path for implementation. Public engagement included hosting a booth at the local farmers market and a community presentation held at an art gallery.

BRADFORD TOWN PLAN, TRORC, BRADFORD, VT. Lead Author/Project Manager working with the Town to develop a new Municipal Plan that was consistent with the community's vision for the future. The project utilized two forms of public engagement, a written survey, and a hands-on charrette-style event that allowed residents to identify areas where conservation was a priority. The information collected resulted in a significantly improved plan that defined how and where the community would encourage growth, and how natural resources should be protected for the future.



AIMEE RUTLEDGE, PWS, CPESC, CPSWQ

Senior Environmental Technical Lead

Total Years of Experience: 23

Years with D&K: 1

EDUCATION

B.S., Environmental Management,
University of Rhode Island, 1999

CERTIFICATIONS

Society of Wetland Scientists,
Professional Wetland Scientist: 2238
Certified Professional in Erosion and
Sediment Control: 4647
Certified Professional in Stormwater
Quality: 732
VT Natural Shoreland Erosion Control
Practices Certification

Ms. Rutledge has 23 years of experience completing environmental work, including environmental assessments; wetland delineations, and mitigation site design and monitoring; restoration design; ecological assessments; wildlife inventory and assessments; threatened and endangered species surveys; wetland functions and values assessments; and erosion and sediment control design and monitoring. Aimee is experienced in communicating with government, academic, and industry researchers and scientists, including attending meetings with third parties/clients and representing clients at public meetings and hearings. She has extensive knowledge and experience navigating the state and federal regulations and permits in Vermont, as well as New York and Rhode Island, and has established working relationships with the agencies and staff.

VTRANS NATURAL RESOURCES SERVICES TERM AGREEMENTS, STATEWIDE, VT. Senior Environmental Analyst and Project Manager responsible for managing several task assignments; performing wetland delineation; stream assessment; identifying rare, threatened, and endangered species; and state and federal permitting. Under numerous term contracts, provided a wide range of environmental services to VTrans, including wetland delineations, wildlife connectivity analyses, stream channel characterization, state and US Army Corps of Engineers (USACE) wetland permitting, bat surveys, and rare mussel surveys and relocation.

ALBURGH VILLAGE WATER SYSTEM, ALBURGH, VT. Senior Environmental Technical Lead responsible for natural resource inventory for the relocation of the town's existing water storage tank. The project area was reviewed for threatened, endangered, and rare species, wildlife habitat, wetlands, cultural, and other natural resources which could potentially be impacted by the project. The information gathered was used to complete a VTDEC Environmental Report.

VT 104A BRIDGE OVER ARROWHEAD MOUNTAIN LAKE, VTRANS, GEORGIA, VT. Senior Environmental Analyst responsible for performing natural resource identification and permitting for the Highbridge Road bridge replacement project. Responsibilities included wetland and waterway delineation, identification of rare, threatened, and endangered species, and state and federal permitting review.

FAIR HAVEN CULVERT (62) IMPROVEMENTS, VTRANS, FAIR HAVEN, VT. Senior Environmental Analyst and Project Manager responsible for managing natural resource identification and permitting for a culvert lining project along US 4. The project involved coordination with VTrans environmental and VTDEC personnel. The project involved the preparation of a VT Wetland General Permit. The work was completed within a tight schedule requested by VTrans.

ENVIRONMENTAL ASSESSMENT, NORTHEAST KINGDOM INTERNATIONAL AIRPORT, VTRANS, NEWPORT, VT. Senior Environmental Analyst responsible for wetland field identification for compensatory wetland mitigation required for wetland impacts as a result of airport projects. This high-profile project involved preparation of the design plans, permits, and an Environmental Assessment for a proposed runway extension, as well as a new terminal, maintenance hangars, fire and rescue building, corporate hangars, manufacturing facility, and warehouses. With extensive new impervious areas and poorly draining soils, stormwater management was an area of particular focus. Conducted a public outreach effort and coordinated with local stakeholders through an Advisory Committee. Permits and approvals were obtained within a challenging time frame to meet funding deadlines.



GRACE GLYNN

Wetland Scientist

Total Years of Experience: 6

Years with D&K: 2

EDUCATION

M.S., Field Naturalist and Ecological Planning, University of Vermont, 2020
B.A., Botany, Connecticut College, 2014
Courses, Evolutionary Biology and Ecology, Universidad San Francisco De Quito, 2013

CERTIFICATIONS

VT Natural Shoreland Erosion Control Practices Certification (2022)

Ms. Glynn is a field naturalist who is experienced with botany, forestry, invertebrate biology, ornithology, microbiology, macrobiology, evaluating inland and coastal aquatic ecosystems, vernal pools, landscapes, and soils, and developing ecological inventories. She has significant, hands-on experience completing research, providing public interpretation, and technical writing for municipalities, nonprofit organizations, and universities for large-scale resource inventories, planning studies, mapping programs, and educational projects.

NEW ENGLAND POWER ENVIRONMENTAL PERMITTING, READSBORO, VT. Field Naturalist/Wetland Scientist leading rare, threatened, and endangered plant species inventory of a 1.5-mile section of utility corridor in southern Vermont. Responsible for completing natural resource assessments and permitting in compliance with Section 248.

NEW ENGLAND POWER ENVIRONMENTAL PERMITTING, VERNON, VT. Field Naturalist/Wetland Scientist leading rare, threatened, and endangered plant species inventory of a two-mile section of utility corridor in southeastern Vermont. Conducted three site visits to document numerous rare species in the project area, and conducted general plant inventory, habitat review, and natural community mapping. Coordinated with the Agency of Natural Resources to complete natural resource assessments and permitting in compliance with Section 248. Prepared vegetation management plan for the right-of-way in order to guide management activities with the goal of protecting rare species and significant natural communities. Acted as the on-site environmental monitor during archaeological work and construction, working with contractors to protect rare plant populations.

NATURAL RESOURCE ASSESSMENT, GRANVILLE, VT. Wetland Scientist/Field Naturalist conducted natural community and rare plant inventory and mapping across 450 acres in Granville. Conducted a survey of bear-scarred American beech trees across a 70-acre subject parcel. Delineated and assessed four wetlands along the proposed access route, and conducted a spring wetland survey to determine the extent of use as feeding grounds by black bear, utilizing game cameras and field observations.

CROSS BROTHERS DAM REMOVAL, VERMONT NATURAL RESOURCES COUNCIL, NORTHFIELD, VT. Wetlands Scientist to support the partial removal of a concrete dam on the Dog River. Assisted with field investigations by providing wetlands delineation of the area upstream and surrounding the dam, surveying the area for rare species, and advising the client on focal species for improvement of Aquatic Organism Passage.

CABOT NATURAL RESOURCE STUDY, CABOT, VT. Field Naturalist assisting with a Natural Resource study of the site of a proposed Resource Recovery Facility at Cabot Creamery, including desktop landscape analysis and field surveys for wetlands and rare, threatened, and endangered species and natural communities. Responsibilities also included assistance with Section 248 proceedings.

SITE ASSESSMENT REPORT, BOYCE HILL TOWN FOREST, FAYSTON, VT. Project Manager and Field Naturalist responsible for assessing a 94-acre site and writing a report summarizing findings and management recommendations based upon sensitive natural resources found on site. D&K assisted the Fayston Conservation Commission in public outreach by delivering a presentation on the study's findings, leading an interpretive field walk at the site, and providing maps for use at kiosks.



BRENDA BHATTI

Ecologist/Biologist

Total Years of Experience: 21

Years with D&K: 1

EDUCATION

M.S., Environmental Studies, Antioch New England Graduate School, 2001
B.S., Zoology/Wildlife Biology, Ohio University, 1991

CERTIFICATIONS

QAWB (with mentor), Qualified Airport Wildlife Biologist (in training)

Ms. Bhatti has over 21 years of natural resources, environmental planning, and regulatory permitting experience throughout New England. Brenda has significant experience in environmental and land use project planning and management, ecological fieldwork, land protection, community and stakeholder engagement, and regulatory and permitting strategy. She has worked on hundreds of environmental, wetlands, wildlife and permitting projects as part of transportation, commercial, industrial, and residential construction and environmental compliance projects. Her work has included preparation and support of permit applications and documentation under NEPA, VANR DEC wetlands, and the VT Natural Resources Board Act 250 programs.

NON-NATIVE INVASIVE SPECIES MANAGEMENT PLAN, ENFIELD, NH. Field Naturalist/QA/QC for a project providing services for the development a non-native invasive species management plan to control non-native invasive terrestrial and aquatic plant species. Creating field inventory methods and maps to capture the NNIS and to prioritize certain areas for management. Responsible for quality assurance/quality control.

ENVIRONMENTAL ASSESSMENT, LEBANON MUNICIPAL AIRPORT, LEBANON, NH. Senior Environmental Planner responsible for overseeing and developing an Environmental Assessment under the National Environmental Policy Act (NEPA) in accordance with FAA criteria. Evaluations encompass runway safety improvements, including a runway extension that involves vegetative clearing. Leading the natural resource field investigation efforts, including participating in wetlands delineations, preliminary potential bat roost locations within the project area, and overseeing other species investigations in conjunction with D&K naturalists, the New Hampshire Natural Heritage Bureau and the USFWS. Conducted historical and archeological desktop reviews in collaboration with the New Hampshire Division of Historical Resources. Led NHDOT Natural Resource Agency Coordination (NRAC) meeting and presented the project. Collaborating with other consulting firms regarding engineering specifications, stormwater studies, alternatives impacts, and mitigation. Successfully acquired a Finding of No Significant Impact for the project.

WEST SWANZEY AA MEMORIAL PARK REDEVELOPMENT, SWANZEY, NH. Senior Environmental Planner on a municipal project using federal funding. Responsible for evaluating impacts to jurisdictional natural resources adjacent to the Ashuelot River, including field studies to determine the Ordinary High Water (OHW); permitting to include state permits under the NH Department of Environmental Services (NHDES) wetlands, shoreland, and Alteration of Terrain (AOT) programs and regulations; and collaborating with the Town Planner, NHDES, and USFWS agents to confirm jurisdictional and permit concerns.

JEWELL BROOK WATERSHED PROJECT PLAN ENVIRONMENTAL ASSESSMENT, USDA NRCS, VT. Environmental Planner prepared portions of the Plan relating to the Ecosystem Services Framework to comply with both the NRCS Plan-EA guidance and the USDA Policy DR 9500-013. An amendment to PL 83 566, the Watershed Rehabilitation Amendments of 2000 (PL 106-472), Section 313, authorizes financial and technical assistance to rehabilitate dams under the USDA Watershed Rehabilitation Program. The rehabilitation of each of these four dam sites are authorized under this amendment. Because the source of funding is under the Federal water resource investments, in addition to the NRCS Plan-EA guidance, this analysis was completed under USDA Policy DR 9500-013, "Conducting Analyses Under the Principles, Requirements, and Guidelines (PR&G) for Water and Land Related Resources Implementation Studies and Federal Water Resource Investments" and the affiliated Department Manual (DM) 95-0013 (2017).



S.W.COLE
ENGINEERING, INC.

ALAN I. BROWN

Construction Services Manager

EDUCATION:

Vermont Technical College
A.A.S. Architectural and Building
Engineering Technology

CERTIFICATIONS:

- ACI Field Technician Level 1
- PCI Quality Technician
Grade III
- ICC Reinforced Concrete
Special Inspector, Soils
Special Inspector,
Fireproofing Special
Inspector, Structural
Steel and Bolting Special
Inspector, Welding Special
Inspector, Master of Special
Inspections
- NETTCP Concrete
Technician, HMA Plant
Technician, HMA Paving
Inspector, Soils and
Aggregate Special
Inspector
- Ground Penetrating Radar
Inspector
- Dipstick Floor Flatness
Operator
- AWS Certified Welding
Inspector

AFFILIATIONS:

- Board of Directors,
International Code Council,
Vermont Chapter

EXPERIENCE

Alan Brown joined S. W. Cole Engineering, Inc. in 2013 as the Construction Services Manager for the firm's White River Junction office. Prior to working for S.W.COLE, Alan held the position of Vice President of New England Operations with Advance Testing Company, Inc. for four years and was also Vice President of New England Testing Company, Inc. for eight years.

Alan has more than 25 years of experience in field and laboratory inspection of construction materials.

RESPONSIBILITIES

As Construction Services Manager, Alan's responsibilities at S.W.COLE include contract and business development, project management and assisting with testing services such as soil density, concrete, masonry, and performing special inspections and associated laboratory testing.



DAKOTAH R. SENESAC

Construction Services
Technician - Grade II

EDUCATION:

Johnson State College

B.A. Theatre Arts

CERTIFICATIONS:

- Floor Flatness & Levelness
- OSHA 10 Hour
- NETTCP HMA Paving Inspector
- NETTCP Soils & Aggregate Lab Technician
- NETTCP Soils and Aggregate Inspector
- ICC General Requirements
- GSSI StructureScan
- APNGA Portable Nuclear Gauges
- APNGA U.S. D.O.T. HAZMAT Certification Portable Nuclear Gauges
- ACI Aggregate Testing Technician - Level 1
- ACI Concrete Strength Testing Technician
- ACI Concrete Laboratory Testing Technician - Level 1
- ACI Concrete Field Testing Technician - Grade 1

ABOUT

Dakotah Senesac joined S.W. Cole Engineering, Inc. (S.W. COLE) in February 2019 as a Construction Services Technician in our White River Junction, Vermont office. Prior to his employment with S.W. COLE, Dakotah worked with a property management company in the Stowe, Vermont area.

RESPONSIBILITIES

As a Construction Services Technician - Grade II Dakotah is qualified to perform field and laboratory testing on soils, aggregate and concrete.



S.W.COLE
ENGINEERING, INC.

MATT N. KINGERY

Construction Services
Technician - Grade I

EDUCATION:

Lake Land College
B.S. Civil Engineering

CERTIFICATIONS:

- OSHA 10 Hour Construction Safety
- NETTCP Soil & Aggregate Inspector
- ICC General Requirements
- APNGA U.S. D.O.T. HAZMAT Portable Nuclear Gauges
- ACI Concrete Field Testing Tech-Grade 1

ABOUT

Matt Kingery joined S.W. Cole Engineering, Inc. (S.W.COLE) in June 2020 as a construction services technician in our White River Junction office. Zach has previous experience working as a laboratory technician for a construction materials firm in Illinois.

RESPONSIBILITIES

As a CST Grade I Matt is qualified to perform both field and laboratory testing of soil aggregate and concrete.