

# Capabilities Statement

## Bridges and Dams

[www.vertical-access.com](http://www.vertical-access.com)



Occoquan Dam in Fairfax County, VA

**We Go to Extremes**

Helping Architects & Engineers Deliver Superior Documents



## VERTICAL ACCESS LLC - FIRM OVERVIEW

Vertical Access LLC is a qualified small business that performs specialized inspection services on buildings, monuments, sculptures and civil structures. We are contracted by architects and engineers nationwide for our expertise in construction technologies, materials science, structural engineering, historic preservation, architectural conservation, and fall protection systems evaluation. We retain the services of our affiliated company, **Alta Access, LLC**, for contracting work that is outside the scope of professional consulting services that Vertical Access provides .

We use direct-to-digital software, TPAS® (Tablet PC Annotation System) for inspections. This system was developed specifically for the building industry and allows our technicians to input graphical and numerical conditions data and photos directly into AutoCAD drawings.

### Deliverables include:

- Assessment report with images and narratives
- Annotated AutoCAD and PDF drawings
- Spreadsheets of extracted data with quantities
- Photographs of condition anomalies keyed to drawings
- High definition video documentation
- Project website to view and share annotated drawings, photographs and quantities

## BUSINESS + CONTACT INFO

238190	Other Structure, and Building Exterior Contractors
541310	Architectural Services
541330	Engineering Services
541350	Building Inspection Services
541690	Other Technical Consulting Services

### BUSINESS CLASSIFICATION

Small Business - incorporated in 1998 in New York

TIN / EIN 16-1569768 | DUNS 077311459

### KEY CONTACT

Kent Diebolt, Founding Partner  
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[kent@vertical-access.com](mailto:kent@vertical-access.com)

### MAIN MAILING ADDRESS

PO Box 4135, Ithaca, NY 14852

### PHYSICAL OFFICE LOCATIONS

369 Asbury Road, Freeville, NY 13068  
32 Old Slip, 10th Floor, New York, NY 10005  
1053 31st St NW, 2nd Floor, Washington, DC 20006  
196 Whitfield St, Guilford, CT 06437  
234 E. 100 S., C2, Salt Lake City, UT 84111

## SPECIALIZED SERVICES

### PROFESSIONAL SERVICES

- Existing conditions documentation
- Industrial rope access - SPRAT certified
- Difficult access consulting
- Monitoring instrumentation installation
- Live-feed video

### NONDESTRUCTIVE TESTING SERVICES

- Infrared thermography
- Ultrasonics
- Borescope investigations
- Rebar location
- In situ materials sampling and characterization

### REFERENCES

**Andrew Micklus, Jr**, *VP/Chief Operating Officer*  
Freyssinet  
44880 Falcon Place, Suite 105  
Sterling, VA 20166  
703-378-2500  
[drew.micklus@freyssinetusa.com](mailto:drew.micklus@freyssinetusa.com)

**Michael Likavec**, *Project Engineer*  
PSE Puget Sound Energy  
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## RELEVANT PROFESSIONAL AFFILIATIONS

American Society for  
Nondestructive Testing

American Society for  
Safety Engineers

Association of State Dam  
Safety Officials

ASTM International

International Concrete  
Repair Institute

ANSI - American National  
Standards Institute



## ABOUT ALTA ACCESS

Vertical Access partners  
formed Alta Access in 2015  
to meet the contracting  
needs of many of our  
clients in order to perform  
tasks separate from the  
professional services  
offered by Vertical Access.

[www.altaaccess.com](http://www.altaaccess.com)

## PROJECT PROFILES

### Santeetlah Dam Graham County, NC

Client: Ground Engineering Contractors

#### Alta Access Scope of Work

- Assist with the cleaning and seepage investigation of the downstream face of the right abutment
- Power washed Blocks 3 and 4.
- Installed anchorages at the gate house for a suspended scaffold system and associated fall protection system.
- Developed plans for and assisted with construction of work platforms at the base of Block 5.
- Assisted with the removal of the work platforms at the base of Block 5 at project completion.
- Documented major seepage locations at the downstream face of the right abutment.
- Stabilized two pipes on the northwest face of the gate house.



### Lower and Upper Baker Dams Skagit and Whatcom Counties, WA

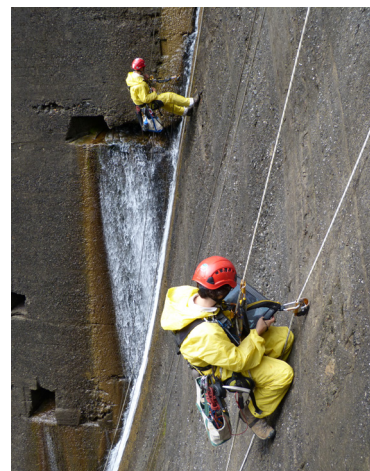
Client: Puget Sound Energy

#### Vertical Access Scope of Work

- Performed hands-on inspection of the downstream face of the Lower Baker Dam and spillway of the Upper Baker Dam.
- Hammer-sounded the concrete
- Documented existing conditions.

#### Alta Access Scope of Work

- Designed and installed a horizontal lifeline system on the outboard side of Upper Baker Dam's spillway. The system enables safe access to a previously inaccessible area at the site.



**Eucha Dam**  
**Delaware County, OK**

Client: AECOM

**Scope of Work**

- Used industrial rope access techniques to gain hands-on access to downstream structure of radial gates.
- Measured section loss at beams, gusset plates and rivets using digital calipers.
- Power washed select areas of radial gates to permit unobstructed investigation.

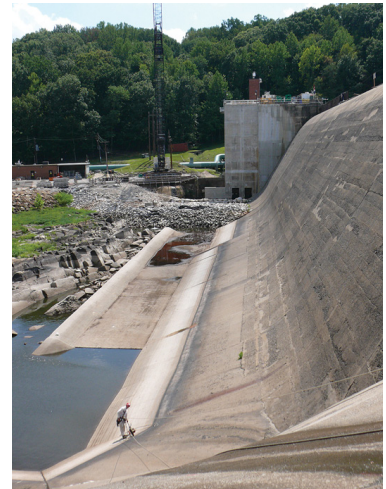


**Occoquan Dam**  
**Fairfax County, VA**

Client: Olson Engineering; Black & Veatch

**Scope of Work**

- Performed nondestructive testing of the side spillway using ground-penetrating radar (GPR) to determine rebar size and spacing.
- Provide fall protection for project team during non-destructive testing.

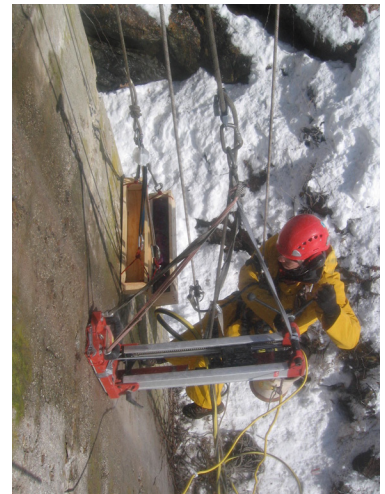


**Popolopen Creek Bridge**  
**Fort Montgomery, NY**

Client: WSP Sells

**Scope of Work**

- Took core samples up to two feet long from highly fractured concrete for testing of concrete physical properties.
- Performed in situ carbonation testing of concrete.
- Installed non-shrink grout at core sample locations following removal of cores.
- Gained access to pier below bridge deck with no closure or disturbance to vehicular traffic.



## Fire Island Lighthouse

### Bay Shore, NY

Client: John G. Waite Associates; National Park Service; Old Structures Engineering

#### Scope of work

- Performed hammer-sounding of the exterior concrete coatings and documented existing conditions using the Tablet PC Annotation System.
- Performed a live-feed video drop in order to facilitate understanding of observed conditions and discuss observations with the entire project team.
- Assisted with the ground penetrating radar investigation of the structure.
- Performed infrared thermographic investigation to identify areas of moisture and underlying metal elements.
- Performed borescope investigation at five locations.
- Removed three 4" diameter cores through the concrete coating and brick wythes, and repaired core holes.



## Lower Bucks Dam

### Plumas County, CA

Client: Olson Engineering; GENTERRA Consultants

#### Scope of Work:

- NDT was performed on the main section of the arch dam, the right abutment thrust block, and the left abutment overflow spillway.
- Impact Echo and Spectral Analysis of Surface Waves tests were performed at 10' vertical intervals at each drop location.
- Slab Impulse Response (SIR) tests were performed at five drop locations on the spillway
- A series of eight drops were performed along the dam to perform Seismic Refraction Tomography (SRT) tests.





### **Arthur Ravenel Jr. Bridge Charleston, SC**

Client: Freyssinet LLC; HDR | ICA

#### **Scope of Work**

- Performed several hands-on inspections of the high-density polyethylene (HDPE) stay cable ducts and steel formwork tubes in the pylons as part of phased warranty inspection.
- Deliverables included a letter of report, stay cable inspection forms, and photographs of survey conditions.
- Reinstalled top duct of a cable.
- Installed fasteners for lightning protection cable on one concrete pylon.



### **Irondequoit Bay Bridge Monroe County, NY**

Client: DiDonato Associates

#### **Scope of Work**

- Assisted with 2012-2013 and 2016-2017 Biennial and Interim Inspections for NY Department of Transportation Region 4 of this 2,375 foot, 10-span, 6-lane, continuous truss bridge.
- Performed hands-on inspection of lower lateral members, lower part of the sway frames, wind locks and concrete piers using a combination of industrial rope access and under-bridge units.
- Survey data and photos uploaded to web portal for instant review and export to inspection forms.
- Assisted with 2016 and 2018 Biennial Inspections of lower lateral members and concrete piers

