



Statement of Qualifications

We Save Structures™

CATHODIC PROTECTION

DURABILITY CONSULTING

POST-TENSION SERVICES

NON-DESTRUCTIVE TESTING

CORROSION ASSESSMENT

STRUCTUREVIEW® MONITORING

vcs-engineering.com



Niagara Falls Rainbow Bridge corrosion assessment and non-destructive testing

VCS Overview

VCS specializes in extending the service life of existing and new structures through non-destructive testing, corrosion engineering, material science, cathodic protection design and structural health monitoring services.

As part of your design team, VCS gains a thorough understanding of service life objectives and budget. Utilizing the most modern tools and techniques, our engineers and technicians perform an on-site evaluation and develop a sound understanding of the cause and extent of deterioration.

Once we define the durability challenges facing your structures, our experience allows us to implement practical, cost effective repair and rehabilitation solutions, even in the most severe environments.

Company Profile

- Incorporated in 2014 in the State of Florida
- Corporate office in Tampa, FL. with branch offices in Massachusetts, Michigan, Illinois, Oregon, New Mexico, South Florida, the United Kingdom and Canada
- Over 500 projects completed
- Over 30 employees including our NDT Division
- Registered professional engineers in over 25 States
- Certified Small Business with the U.S. Small Business Administration
- Certified small business enterprise for professional engineering consulting services with the South Florida Water Management District (SFWMD)
- NACE certified cathodic protection specialists and technicians
- Members of ACI International, ASCE, ICRI, PTI, AMPP and AAPA



Crystal Sands condominium balconies CP design, QC and monitoring



Siesta Key Bridge piles StructureView® monitoring of CP jackets

Non-Destructive Testing and Condition Assessments



- Concrete sampling and testing
- Corrosion rate testing
- Corrosion potential surveys
- Ground penetrating radar surveys
- Infrared thermography
- Impact echo and pulse velocity
- Borescope inspection
- Post-tension system investigation services
- Ultrasonic thickness

VCS engineers and technicians have significant training and experience in the use of non-destructive test methods on infrastructure to assess the cause and extent of deterioration.

Standard inspection techniques like visual and hammer sounding can only find near-surface, late-stage deterioration. To test a structure to identify areas of current and future deterioration, VCS implements various non-destructive methods. This provides a better understanding of the structure so VCS can evaluate various repair strategies for their effectiveness and efficiency.



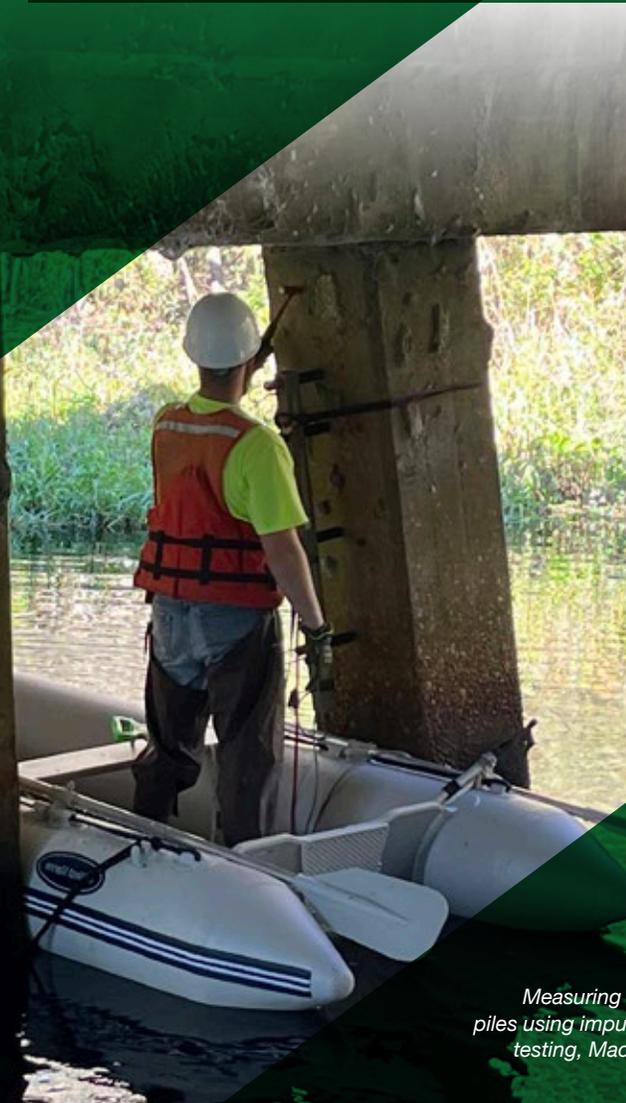
Corrosion potential survey of a pier in St. John's, Antigua



Impact echo/pulse velocity testing of a hangar at the Kansas City Airport



Rainbow Bridge deck assessment with ground penetrating radar (GPR), Niagara Falls, New York



Measuring the length of piles using impulse response testing, Madison, Florida



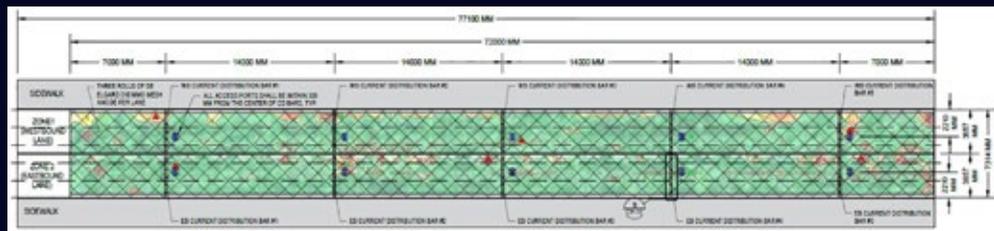
Parcel 1B building foundation, impressed current cathodic protection system for new construction

Cathodic Protection Consulting

- Design of galvanic and impressed current systems
- Materials and equipment selection
- Contract document preparation
- QA/QC services
- Contractor training and support
- Commissioning
- On-site and remote monitoring
- Cathodic protection system troubleshooting(SFWMD)
- NACE certified cathodic protection specialists and technicians

VCS engineers and technicians are nationally renowned experts in cathodic protection (CP) of infrastructure. VCS has designed a myriad of galvanic and impressed current systems that have been used in a variety of applications and environments. VCS is also on the forefront of two-stage anode technology, using both galvanic and impressed current CP in the same application.

VCS engineers and technicians also perform construction installation support, verification of proper installation and evaluation of existing CP systems. VCS staff provide support to make sure that CP systems are properly installed and provide proper corrosion mitigation.



Design of a impressed current cathodic protection deck overlay, Courtenay, British Columbia



Pinellas Bayway bridges cathodic protection quality control



Seismic refraction survey assessing soil layers and rock elevations



Automated concrete rail-tie testing (implementing non-contact sensors)

Geophysical Testing

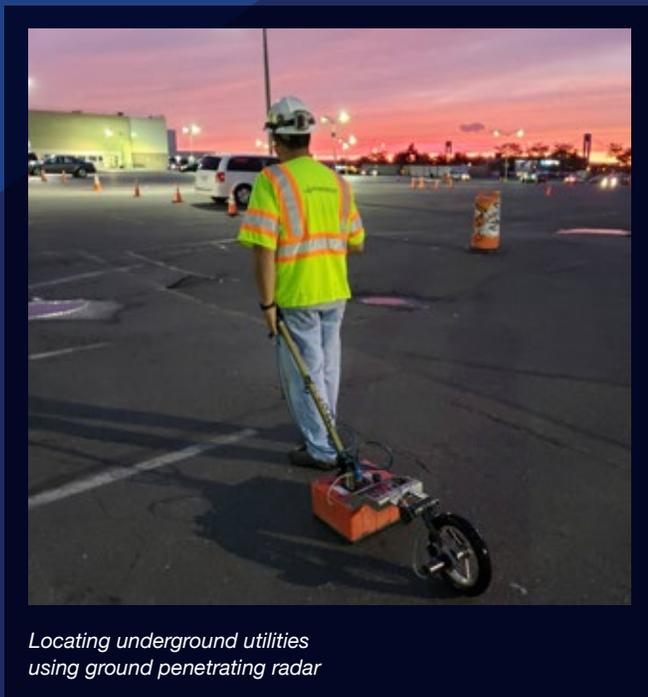


- Refraction survey
- Bedrock profiling
- Utility location services
- Vertical seismic profiling (downhole)

In 2017, VCS acquired NDT Corporation (NDT Corp.), a Sterling, MA based testing firm founded in 1994 to expand our footprint in the non-destructive testing field. As of January 2024, NDT Corporation operates as a division of VCS Engineering and goes by the name NDT Division (NDT).

NDT has been a pioneer in the development of specialized equipment to nondestructively evaluate reinforced concrete and post-tensioned structures. NDT provides engineers with professional, high-resolution, non-destructive concrete, and geophysical testing services. The results of the investigations provide engineers and infrastructure owners quantitative data to make replacement decisions or implement proactive and efficient rehabilitation strategies.

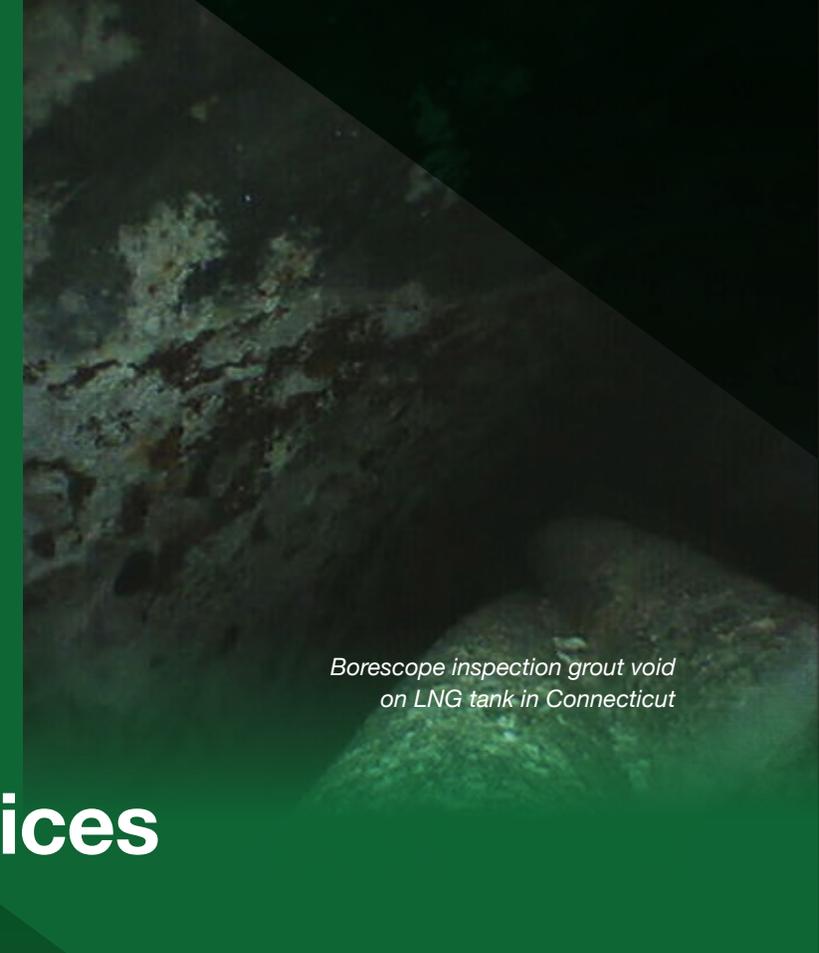
NDT specializes in geophysical testing to understand subsurface conditions. This includes mapping soil stratification, identifying the extent and layout of unknown structure foundations, and locating utilities.



Locating underground utilities using ground penetrating radar



*Chloride contaminated tendon
5th Street bridge in Calgary, AB*



*Borescope inspection grout void
on LNG tank in Connecticut*

Post-Tension Services

VCS has a reliable and effective approach to assessing PT tendons that includes technologies and techniques that have been developed over many years of experience.

- Evaluation of both internal and external tendons
- Non-destructive evaluation of post-tensioning to locate grout defects
- Evaluation of bonded and unbonded systems
- Borescope inspection of defects
- Laboratory analysis of grout specimens

Throughout the world, voids and soft grout problems have been found within post-tension (PT) ducts due to improper/ineffective grouting during construction.

These grouting defects often create environments within the ducts that promote corrosion of the high strength steel strands. The major challenge with PT grout defects is that they cannot be identified through standard bridge inspections methods like visual and sounding inspection. As a result, issues in the grout are often unidentified until advanced deterioration has occurred.

VCS has located and assessed grout defects and corrosion activity on many PT bridges throughout North America.



Acoustic testing of external tendon for grout defects, Sarasota, FL



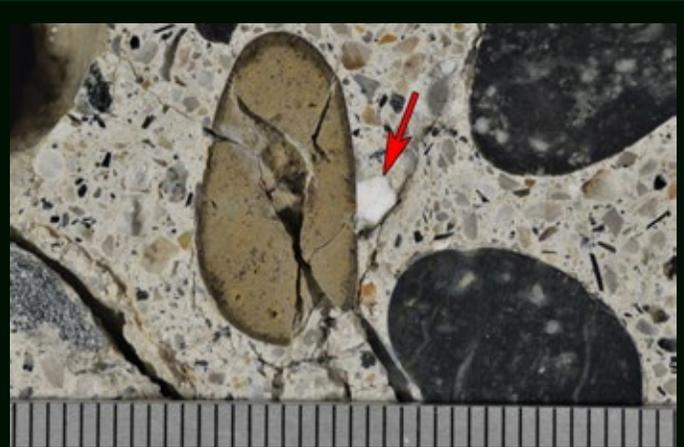
*Post-tension void detection using sonic/ultrasonic testing
and ground penetrating radar, Orangethorpe, CA*

Durability

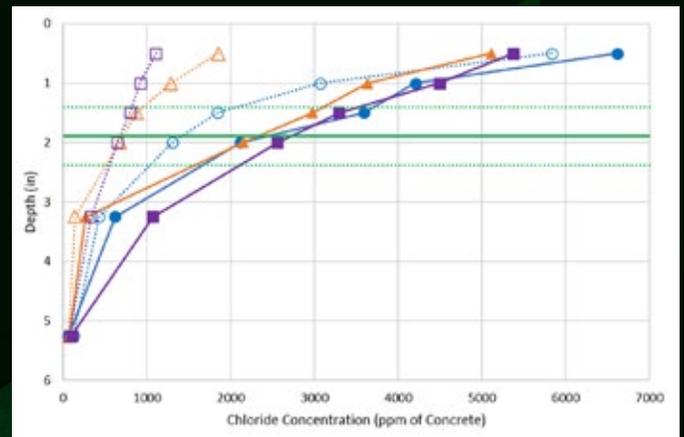
- Concrete design and troubleshooting
- Laboratory analysis of concrete and steel samples
- Durability modeling
- Asset management
- Life cycle cost analysis
- Mass concrete thermal analysis
- Service life modeling

Durability is of critical concern for civil infrastructure, and with many structures in harsh environments meeting the required service life can be challenging. In addition, 100-year service life requirements are becoming more common. Having experts in reinforced concrete critical for a well-rounded design team.

VCS engineers can support in the selection of materials and repair procedures that will provide the necessary service life for a structure. VCS can also inspect existing structures, determine the amount of service life that is remaining, and help develop rehabilitation strategies that will extend the service life as required.



Petrographic examination of concrete suffering from alkali silica reaction



Chloride diffusion profiles of chloride in concrete



Assessment of alkali silica reaction in the concrete of the Mineral King bridge in Tulare County, CA



Monitoring Solutions

Siesta Key Bridge StructureView® monitoring of cathodic protection jackets

In 2016 VCS introduced the StructureView® remote monitoring system. StructureView® is a robust data acquisition system connected to an internet portal that allows customized sensor configuration for a wide range of applications like cathodic protection systems, environmental conditions, and structural response.

Uses & Benefits

Monitoring solutions are designed for temporary or permanent installation in new construction or existing structures.

- Determine in-place performance
- Validation of design and modeling
- Develop and verify repair strategies
- Monitor construction impact on adjacent structures
- Hazard monitoring for increased safety
- Early detection of deterioration

Remote Access

Many projects will benefit from the capability of remote access to locally collected data.

- Web interface
- Automated data collection
- Cloud based data storage
- Display and analyze data online or in PDF format

- Programmable alarms with email and SMS alerts
- Secure access and tiered user credentials
- Reduced inspection costs
- Corrosion Monitoring

Corrosion Monitoring

Corrosion is a significant deterioration mechanism that impacts service life. The system uses monitoring to alert the onset of corrosion or to determine corrosion progression over time.

Cathodic Protection Monitoring

Cathodic protection monitoring measures the performance and determines the service life of galvanic and impressed current cathodic protection systems.

Structure Monitoring

Structural monitoring measures stress, strain, deflection, rotation, and how infrastructure performs and responds to the environment over time.

Construction Site Monitoring

Construction site monitoring analyzes environmental conditions on the job site and the effect of construction activities on adjacent structures for reduced risk and improved safety.

Health, Safety and the Environment



VCS is committed to providing high-quality service in a manner that ensures a safe and healthy workplace for our employees and minimizes our potential impact on the environment.

Our commitment at VCS is to prevent injury to workers, damage to equipment and property, and to protect the customer, the public, and the environment from accidents. We hold the personal safety and health of each employee of primary importance.

Our objective is to maintain a health and safety policy that will reduce the number of injuries and illnesses to an absolute minimum. Our goal is zero accidents and injuries.

VCS Has Defined Corporate Safety Policy

- Drug and alcohol free workplace
- Pre-employment background checks
- Pre-employment and random drug screening OSHA 10-hour training
- Task specific safety training
- SafeStart® safety awareness program



Cement storage silos corrosion investigation and damage survey



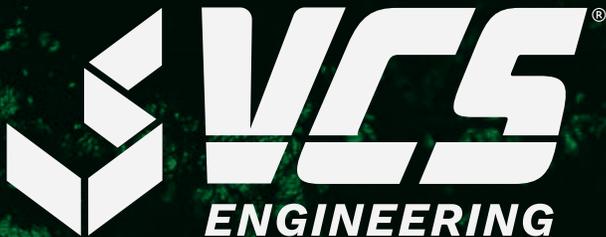
Hume Lake Dam non-destructive evaluation with impact echo and infrared thermography



Saint Petersburg Pier service life assessment



Projects



We Save Structures™

List of Representative Projects



Year	Project	Customer	Location	Condition Assessment	CP Design	CP QA/QC	Durability Consulting	Structural Monitoring
BRIDGES/TUNNELS/CULVERTS								
2023	Columbia-Wrightsville Bridge	RK&K	Columbia, PA	X	X		X	
2023	Ki-a-Kuts Bridge	David Evans and Associates	Portland, OR	X	X	X		
2023	Broad Causeway	BCC Engineering of Transportation	Fort Lauderdale, FL	X				
2023	Robert St Bridge	Micheal Baker	St Paul, MN	X	X			
2022	Wagner Ford Rd	EL Robinson	Dayton, OH	X	X			
2022	Dauphin Island Bridge	Micheal Baker	Coden, AL	X	X			
2022	Coquille River Bridge	Oregon DOT	Bandon, OR		X			
2022	Fifth Street Bridge	Vector Construction	Courtenay, BC	X	X	X		X
2021	Hampton Roads Bridge and Tunnel	HRCF	Hampton Roads, VA		X			
2021	Hwy 3 and Hwy 12	Saskatchewan Ministry of Transportation	Saskatchewan	X				
2021	Tunney Bridge	WSP	Toms River, NJ	X	X	X		
2020	Market Street Bridge	Gannet Fleming	Harrisburg, PA	X				
2020	Seabreeze Bridge	KCA	Daytona Beach, FL	X				
2019	Arlington Memorial Bridge	Kiewit	Washington, DC	X	X	X		X
2019	Kamehaha Highway	Nagamine Okawa Engineers	Oahu, HI	X	X			
2019	Schuylkill River Bridge	Gannett Fleming	Berks County, PA	X				
2019	Brooklyn Queens Expressway	Triple Cantilever JV	NYC, NY	X			X	
2018	SW-SE Freeway	Parsons Transportation	Washington, DC	X				
2018	Stan Gober Memorial Bridge	FDOT	San Marco Island, FL	X				
2018	FDR Promenade	NYCDOT	New York, NY	X				
2018	Highway 2 over Missouri River	HDR	Nebraska City, NE	X				
2018	Wonderwood Bridge	FDOT	Jacksonville, VA	X				X
BUILDINGS								
2023	Federal Reserve Bank		Boston, MA	X	X			
2022	Starlight Condominium		St. Petersburg, FL			X		
2022	TCU Pool	WJE	Fort Worth, TX		X	X		
2022	Miami Marine Stadium	Johnson-Lax	Miami, FL		X	X		
2021	Honolulu Club	SSFM	Honolulu, HI	X			X	
2021	150 Bay Street	GFP Real Estate	Jersey City, NY	X			X	
2020	Oak Ridge National Laboratory	University of Tennessee	Oak Ridge, TN	X	X		X	
2019	Venetian Isles Condominiums	Turrell Hall Associates	Naples, FL	X	X	X		
2019	Franklin Field, University of Pennsylvania	CVM Professional Services	Philadelphia, PA	X		X	X	X
2018	Crystal Sands Condominiums	Crystal Sands Board of Directors	Siesta Key, FL	X	X	X	X	X

Year	Project	Customer	Location	Condition Assessment	CP Design	CP QA/QC	Durability Consulting	Structural Monitoring
MARINE STRUCTURES								
2023	Port of Protland		Portland, OR			X		
2023	Twin Dolphins Marina		Bradenton, FL			X		
2023	Chatham Fish Pier		Chatham, MA			X		
2022	Port of Pascagoula		Pascagoula, MS		X	X		
2022	Seasgirt Berth 3		Baltimore, MD	X	X			
2022	Port of San Juan		San Juan, PR	X			X	
2021	Fall River Bulkhead	City of Fall River	Fall River, MA		X			
2021	Port of Tampa Berth 214	Moffatt & Nichol	Tampa, FL		X			
2021	Port of Tampa Cruise Term. 3	Moffatt & Nichol	Tampa, FL		X			
2020	Moffatt & Nichol	Port of Tampa	Tampa, FL		X			
2019	Port of Corpus Christi	J.M. Davidson	Corpus Christi, TX		X	X		X
2019	Port Everglades	Callaway Marine	Fort Lauderdale, FL		X	X		
2019	Port of Port Arthur	Collins Engineering	Port Arthur, TX	X	X	X		
2019	Coal Pier XI	Dominion Terminal Associates	Hampton Roads, VA	X				
2018	Port Manatee	RS&H	Port Manatee, FL	X	X	X		
PARKING STRUCTURES								
2023	Wilkes University	Maarv Waterproofing Inc.	Wilkes-Barre, PA		X	X		
2022	Municipal Parking Garage	City of Burlington	Burlington, IA	X			X	
2022	STL Park-n-Fly	Pcubed Associates	St Louis, MO					
2022	Dane County Parking Garage	MP Squared	Madison, WI	X	X	X		
2021	9th Street Parking Garage	Hanson	Springfield, IL	X				
2021	MKE Parking Garage	WJE	Milwaukee, WI	X			X	
2020	McCormack Garage CP Evaluation	Simpson, Gumpertz & Heger	Boston, MA	X	X			
2019	St. Clair County Courthouse	Farnsworth Group	Belleville, IL	X	X	X	X	
2018	Sacred Heart Hospital Parking	Tim Haahs	Allentown, PA	X				
2018	Windsor Gardens Parking Garage	Windsor Gardens	Denver, CO	X	X			
SEWER AND WATER								
2023	Pembroke Pines Precast Concrete Cylinder Pipe	Pembroke Pines, FL	New York, NY	X				
2022	Honouliuli Wastewater Treatment Plan	Honolulu, HI	New York, NY		X			
2021	W 28th Flush Pit	Con Edison	New York, NY			X	X	
2021	Hells Gate Flush Pit	Con Edison	New York, NY	X				
2020	Hickam AFB Sewer Lift Stations	NOEI	Pearl Harbor, HI	X				
2020	Wikao Street Pipeline	SSFM International	Honolulu, HI		X			
2020	North School Street Pipeline	SSFM International	Honolulu, HI		X			
ENERGY, POWER AND DAMS								
2023	Cooling Tower Evaluation	Omaha Public Power District	Nebraska City, NE	X				
2022	Dunlap Dam	Zachry Construction	San Antonio, TX			X		
2021	Pine Grove Dam	Gannett Fleming	Oxford, PA	X			X	
2020	Sanford Power Plant	Miller Electric	Sanford, FL			X		X
2020	Transmission Line Foundations	Sargent & Lundy	Baltimore, MD		X			
2018	Capital Power Plant R-Tunnel	RMF Engineering	Washington, DC	X			X	
2014-2016	Chalk Point Cooling Tower Cathodic Protection	Vector Construction	Aquasco, MD		X	X		X

List of Representative Projects



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RAIL/TRANSIT								
2023	MTA Viaduct	KCI Tech	Baltimore, MD	X				
2023	Corrosion Manual Development	Union Pacific	Omaha, NE		X	X		
2023	Galveston Arch Bridge	BNSF	Galveston, TX	X				
2022	Amtrak Dock Bridge	Hardesty & Hanover	Newark, NJ	X	X			
2021	Long Island Railroad Bridge	Hardesty & Hanover	New York, NY	X	X		X	
2021	McKernan-Belgravia LRT	Graham Construction	Edmonton, AB	X	X			
2021	Union Pacific 485.7	TranSystems	Pine Bluff, AR		X			
2020	CSX Bridge Pile Study	HDR	Charleston, SC	X	X			
2020	UP Bridge 220-08	Transystems	Lake Charles, LA		X			
MILITARY								
2023	Joint Base Pearl Harbor	SSFM International	Honolulu, HI	X				
2022	Tyndall Air Force Base		Panama City, FL		X	X		
2021	Naval Air Station Jacksonville	RS&H	Jacksonville, FL	X			X	
2021	USCG Alameda Pier	Advanced Technologies	Alameda, CA			X		
2021	Kings Bay Dry Dock	Dawson	Kings Bay, GA	X	X	X		
2021	MacDill Air Force Base Water Tanks	Akima Facilities Management	Tampa, FL			X		
AIRPORTS								
2022	Boston Logan Airport	STV	Boston, MA	X				
2020	Kansas City Airport Hangar	Walter P. Moore	Kansas City, MO	X				
2019	JFK Airport	Twin Towers Enterprises	New York, NY			X		
PULP AND PAPER								
2021	Kimberly Clark Paper Plant	Vector Construction	Owensboro, KY		X	X		
2018	Marlboro Paper Plant	Domtar Paper	Bennettsville, SC	X			X	
AGRICULTURE/FOOD AND BEVERAGE								
2022	Bayer Research Facilities	Bayer	St. Louis, IL	X				
2021	Cargill pH Pit	Cargill	Eddieville, IA	X				
2017	Monolithic Dome Rehabilitation	Cargill	Savage, MN	X				
MINING								
2022	Coal Silos	Ash Grove	Louisville, NE	X				
2018	Titan America Cement Silos	ABS Consulting	Medley, FL	X				
CHEMICALS								
2022	Clarifer Tank	The Chemours Company	Deepwater, NJ	X				
2017	Concrete Settling Tank	The Chemours Company	Deepwater, NJ	X				

Staff Profiles



We Save Structures™

Staff Profiles



VCS KEY TECHNICAL PERSONNEL



**Matthew A. Miltenberger, P.E., NACE CP-4,
Vice President**

Matthew has 40 years of experience in the concrete industry in various roles starting as a draftsman, QC inspector, contractor, materials researcher, professional engineer, and cathodic protection specialist. Matt has authored over 35 peer reviewed papers, received the ACI Wason Medal for most meritorious paper in 2000, prepared CP designs for restoration projects receiving ICRI project awards in 2016, 2018, and 2020 and the DJC Oregon 1st Place Infrastructure project award in 2021. He is an active AMPP and ACI technical committee member. His areas of expertise include cathodic protection design, concrete condition assessments, repair and restoration, concrete materials, durability, mass concrete thermal modeling, and construction troubleshooting. Matt is an active member of ACI Committees 222 Corrosion of Metals in Concrete, and 365 Service Life Modeling and was a past subcommittee chair of ASTM C09.42 on fiber-reinforced concrete. Matt has a M.S. in Civil Engineering (Structures) and a B.S. in Civil Engineering from the University of Maryland, and a B.A. in Business Administration (Construction Management) from the University of Miami.



**Brian Pailles, Ph.D., P.E., NACE CP-4,
Principal Engineer**

Brian is a professional engineer and certified NACE Cathodic Protection Specialist (CP4). Brian has extensive experience in the field of non-destructive evaluation (NDE), material testing, structural evaluation, cathodic protection, and corrosion. He earned a Ph.D. in Civil Engineering from Rutgers University, an M.S. in Civil Engineering from the University of Virginia and a B.S. in Civil Engineering from Northeastern University. Brian has also obtained a Graduate Certificate in Engineering Geophysics. Brian is the Chairman of the AMPP Concrete Infrastructure Standards Committee and an active member of TRB Corrosion Committee, ASNT Infrastructure Committee, and ASCE COPRI Asset Management Task Force.



**Natallia Shanahan, Ph.D., P.E., NACE CP-2
Senior Project Manager**

Natallia is a graduate of the University of South Florida, where she earned her Ph.D. in Civil Engineering with a concentration in materials and an M.S. and B.S. in Civil Engineering. She has extensive experience in assessing concrete structures, including non-destructive techniques, such as ground penetrating radar and impact echo. In addition, Natallia is an expert in concrete materials, durability, and service life modeling.



**Shayan Yazdani, M.S., P.E., NACE CP-3
Project Manager**

Shayan is a Professional Engineer and a NACE certified Cathodic Protection Technician (CP-2) who has obtained his B.S. and M.S. in Civil Engineering with a concentration in Materials Engineering from the University of South Florida (USF). Shayan has extensive experience in corrosion evaluation and assessment of reinforced concrete structures. He specializes in cathodic protection system design and analysis. Shayan is an expert in providing repair and rehabilitation strategies, determining the appropriate non-destructive testing (NDT) for structures, conducting structural life prediction analysis and forensic engineering.

Staff Profiles



VCS KEY TECHNICAL PERSONNEL



Pratik Murkute, Ph.D., P.E., NACE CP-3
Senior Project Engineer

Pratik is a graduate of Oregon State University where he earned his Ph.D. in Materials Science, he completed his M. Tech in Materials Engineering from IIT Kanpur, India and a B. Tech in Metallurgical and Materials Engineering from VNIT Nagpur, India. Pratik has authored over 15 peer reviewed papers. He is an expert in the ferrous metallurgy and electrochemical, corrosion assessment of metals, with a focus on chloride-induced corrosion of steel in concrete. Pratik also has experience in non-destructive techniques, such as ground penetrating radar, acoustic testing and impact echo with extensive knowledge in laboratory corrosion tests, steel metallurgy and materials engineering.



Sameer Telang, M.S., E.I.T., NACE CP-2
Project Engineer

Sameer has a Masters in Civil Engineering with a concentration in Structures from the University of South Florida (USF) as well as Masters in Physics and BE in Civil Engineering from BITS Pilani. Sameer has extensive experience in corrosion assessment, non-destructive techniques for structural evaluation, performing QA/QC of galvanic CP installation and troubleshooting active ICCP systems. He leads the development and implementation of remote monitoring technology, StructureView[®], for cathodic protection systems and structural health monitoring.



Luke Longhofer, E.I.T., NACE CP-2, SSPC PCI Level 2
Engineer III

Luke is a NACE Certified Cathodic Protection Technician (CP-2) and Engineer II who graduated cum laude with his B.S. in Chemical Engineering from the University of South Florida (USF). Luke has extensive experience with a vast array of coatings and has worked in the USF corrosion laboratory on the effectiveness of reinforcement coatings. Luke is also skilled in the use of coating inspection equipment and is a level 2 SSPC Protective Coating Inspector as well as a Bridge Coating Inspector level 1. In addition, Luke has a deep understanding of various non-destructive testing methods, which include impact echo, corrosion potential, and ground penetrating radar amongst others.



Nicholas Brumbaugh, NACE CP-3, CIP-1
Engineer I

Nicholas is an Engineer I with seven years of experience in the analysis of corrosion, and design of cathodic protection systems. Nicholas holds a B.S. in Corrosion Engineering from the University of Akron. Nicholas has his NACE CP-3 certification along with the NACE Coating Inspector Level 1. He has significant experience in the installation, evaluation, troubleshooting and repair of both impressed current cathodic protection, galvanic cathodic protection, and AC corrosion mitigation systems for underground structures.

Staff Profiles



VCS KEY TECHNICAL PERSONNEL



Jeremy Smith, M.S.
Engineer I

Jeremy graduated from Oregon State University where he received a bachelor's of science in civil engineering and a master of science in civil engineering. He has done extensive research in the durability of concrete materials with a masters focused on the use of alternative cement high early strength concrete. His research also evaluated the critical chloride threshold and corrosion rate for steel in these alternative systems. Jeremy has presented research work at both ASTM International in Houston, TX, 2019, and at ACI San Francisco, 2023.



Giovanni Maselli, B.S
Engineer I

Giovanni graduated from Florida Gulf Coast University where he received a bachelor's of science in civil engineering. He has extensive research resting the durability of various concrete mixes, focusing on recycled concrete aggregate and various admixtures. His research studied and determined the feasibility of using recycled concrete aggregates for potential structural concrete mixes. He was also an officer for the student ASCE chapter for the university.



Ryan Blanchard, M.S.
Engineer I

Ryan is an Engineer I and a graduate of the University of New Orleans where he earned his Master's in Civil Engineering. There he studied concrete design and analysis and wrote his thesis "An Investigation and Analysis of the 2021 Surfside Condo Collapse." He received his Bachelor's in Physics and Computer Science from Loyola University New Orleans. Ryan has experience with non-destructive testing, structure condition assessment, and service life cycle analysis.



Lindsey Woodrow
Drafter I

Lindsey is a Drafter I with over five years experience in drafting and designing in AutoCAD. She previously worked at Engineering firms working in Land Survey, managing crews in both land development and construction projects. She has significant experience in drafting, creating clear and clean drawings and designs for a wide range of projects.

Staff Profiles



VCS KEY TECHNICIANS



Aaron Veres, NACE CP-2
Senior Engineering Technician

Aaron has over 20 years of experience in the concrete industry, specifically the restoration of concrete infrastructure. Prior to becoming a member of the VCS team, Aaron worked as a concrete restoration contractor, specifically on marine structures in Florida. This construction experience included installation of galvanic and impressed current CP systems along with other research and development projects. Aaron has conducted QA/QC testing of both galvanic and impressed current installations. Aaron has inspected and troubleshot active CP systems. Aaron is well versed in the use of various non-destructive testing methods, including impact echo and ground penetrating radar. Aaron is also trained regarding the inspection and assessment of post-tensioning systems.



Brandon Mozley
Engineering Technician 1

Brandon's career has led him into various industries and positions throughout his career. He's held roles in finance, orthopedic healthcare, and natural gas. But it was through his experiences as a foreman in the natural gas industry that his passion for corrosion was ignited and eventually led him to VCS Engineering. As the safety manager and Engineering Technician I for VCS, Brandon lives and breathes VCS's safety protocols and ensures the team's safety is his top priority. As an Engineering Technician, he conducts QA/QC testing of galvanic and impressed current installations and is skilled in inspecting and assessing post-tensioning systems. He is also well-versed in various non-destructive testing methods, such as ground penetrating radar and impact echo.

NDT DIVISION



Bill Horne, P.E., M.S.
Vice President

Bill is a Professional Engineer and the president of NDT Corporation. Working in the consulting industry for over 25 years, Bill has experience successfully managing all types of infrastructure inspection/assessment and rehabilitation projects for many private and governmental clients. His technical background with all types of structures, knowledge of construction practices, experience with foundation/soil interaction and expertise in geophysical investigations demonstrate his unique qualifications for a wide variety of projects. Mr. Horne is published in the field of geophysical investigations and has also applied this technology to the non-destructive testing of concrete, steel, masonry and timber members. Bill obtained his BS and MS in Civil Engineering from Clarkson University in Potsdam, NY.



Keith Holster
Operations Manager

Keith has obtained his B.S. in Hydrology from the University of New Hampshire. Keith has over 25 years of experience with NDT Corp. conducting non-destructive testing measurements for projects evaluating the integrity and conditions of pipes, tunnel liners, piles and bridges; and geophysical measurements to detect sink holes and profile bedrock. Keith has directed field operations on multiple types of projects testing bridge decks, evaluating bridge foundations for scour, locating voids in grouted post-tensioning ducts, and conducting condition assessments of pipelines.

Staff Profiles



NDT DIVISION



Ben Armitage
R&D Manager

Ben obtained his B.S. in Electronic Engineering Technology from New England Technical College. Ben has over 26 years of experience with NDT Corp. and has used his electronic engineering skills to become the innovation manager that leads all the design and development of NDT Corp.'s testing equipment. Ben has supervised field operations for non-destructive testing measurements for projects evaluating the integrity and condition of slabs, bridge decks, pipes, piles, tunnel liners, and geophysical data to detect sinkholes and profile top of bedrock. Ben has led NDT's post tensioning inspections of grouted tendon ducts for 18 years.



Timothy Westerlind
Senior NDT Technician

Timothy is one of NDT's Senior NDT Technicians, and has over 17 years of experience with NDT Corporation. As one of NDT's Technicians he has conducted nondestructive testing measurements for projects evaluating the integrity and condition of slabs, bridge decks, pipes, piles, tunnel liners, and arches. He has also collected geophysical data to detect sink holes and profile the top of bedrock. Mr. Westerlind is experienced at acquiring impact velocity and impact echo, ground penetrating radar (GPR), and seismic refraction data. He is experienced in GPR data interpretation as well as report generation for various projects. Mr. Westerlind is also a Level 2 ultrasonic thickness (UT) metal Inspector and has completed inspections for various DOT's on numerous projects.



Clayton Besch
Engineer II

Tucker is one of NDT's Engineering Technicians. As one of NDT's Technicians he has conducted nondestructive testing measurements for projects evaluating the integrity and condition of slabs, bridge decks, pipes, piles, tunnel liners, and arches. He has also collected geophysical data to detect sink holes and profile the top of bedrock. Mr. Besch is experienced at acquiring IE/PV (impact echo and pulse velocity), ground penetrating radar (GPR), and seismic refraction data. He is experienced in GPR data interpretation as well as report generation for various projects. Tucker has experience researching and developing new testing equipment for NDT including the NDT deck cart, remote deployment of IE/PV equipment, and updating NDT's IE/PV testing equipment. Tucker is experienced in designing PCB circuits, designing objects for manufacture, and 3D printing and equipment maintenance and repairs.



Jim Burrows
Senior Engineering Technician

Jim has over 38 years of field experience. 25 of those years has been with NDT Corp. The majority of this work has been dedicated to the inspection, testing, and evaluation of various types and sizes of bridges throughout the United States. He also has extensive experience with other structures such as tunnels, buildings, dams, and highways. Jim is also involved in post tensioning inspections of grout tendon ducts. Prior to starting with NDT, Jim worked as a manager/lab director of a materials testing laboratory. This position also involved the exposure to both the field and laboratory side of various types of structures and materials.



We Save Structures™

USA, CORPORATE HEAD OFFICE

8413 Laurel Fair Circle | Ste 200-B
Tampa, FL | 33610 | USA
Tel: +1 (813) 501-0050
Email: info@vcs-engineering.com

CANADA OFFICE

474E Dovercourt Drive
Winnipeg, MB | R3Y 1G4 | CA
Tel: +1 (866) 559-1452
Email: info@vcs-engineering.com

USA, MASSACHUSETTS OFFICE

153 Clinton Road
Sterling, MA | 01564 | USA
Tel: +1 (978) 563-1327
Email: info@vcs-engineering.com

ENGLAND OFFICE

27a Upper High Street
Cradley Heath, UK | B64 5HX
Tel: +44 (0) 1384-671414
Email: info@vcs-engineering.com

SCOTLAND OFFICE

9-11 Harvie Street
Glasgow, UK | G51 1BW
Tel: +44 (0) 1384-671414
Email: info@vcs-engineering.com