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Nicholas S. Arnhold, MA, RPA	Archaeologist, Mid-Level	
<p>NPS Professional Qualification:</p> <ul style="list-style-type: none"> • Archaeologist <p>Email: nsarnhold@crai-ky.com</p> <p>Registered Professional Archaeologist ID: 39362366</p>	<p>Specific Duties:</p> <ul style="list-style-type: none"> • Fieldwork Supervision • Report Writing/Editing • Proposal Development • Business Development 	<p>Education and Training:</p> <p>M.A., Anthropology, University of Kansas</p> <p>B.A., Anthropology, West Chester University of PA</p>
Experience Summary Information		
<p>Staff Archaeologist II/Principal Investigator</p> <p>Cultural Resource Analysts, Inc. 8/2017 – present</p>	<p>Archaeological Principal Investigator</p> <p>AECOM 2014-2017</p>	<p>Lithic Analyst/Field Technician</p> <p>University of Kansas/Odyssey Archaeological Research Fund 2011-2014</p>
<p>Mr. Arnhold is responsible for archaeological fieldwork direction, investigation, interpretation, and evaluation, preparing scopes of work and budgets, technical report writing and editing, and assisting with business development, marketing and new business capture. He has participated in and led archaeological projects on behalf of Federal agencies, State Historic Preservation Offices, and private sector clients and interest groups in the Midwest, Middle Atlantic, and throughout the southeastern United States. He has additional project experience in the Great Plains and Great Basin. Just prior to joining CRA, Mr. Roberts served as an Archeologist for AECOM. His responsibilities included archaeological fieldwork direction, investigation, interpretation and evaluation, preparing budgets, and technical report writing and editing. He has led and assisted crews in all phases of archeological fieldwork throughout the Middle Atlantic and Southeast, having personally worked in 25 different units, for interpretive program development and facilitating compliance with the National Historic Preservation Act (NHPA). He has experience working in urban, military, industrial, and riparian landscapes. He has additional experience in deep testing, lithic analysis, and above and below ground assessments. He has represented NPS at public and professional outreach events and developed multimedia outreach materials to promote public awareness and interest in cultural resources. Mr. Arnhold is versed in the application of geospatial information systems to archaeological analysis, interpretation, and presentation using ESRI's ArcGIS software suite.</p> <p>SELECTED PROJECTS</p> <p>Mid-Atlantic</p> <ul style="list-style-type: none"> ▪ Atlantic City Electric Salem to Woodstown Phase I Survey, Salem County, New Jersey. Field Director and Report Co-Author for a Phase I archaeological survey of the approximately 10-mile stretch of the Salem-Woodstown transmission line update. ▪ I-64 Hampton Roads Crossing Expansion Project, Cities of Hampton and Norfolk, Virginia. Field director for an approximately 12-mile Phase I archaeological survey including the reinvestigation of a stretch of a NRHP-eligible prehistoric district for Virginia Department of Transportation. 		

- **Route 155 Phase I Survey, Charles City, Virginia.** Archaeologist for the Phase I survey of the Route 155 Survey.
- **Atlantic Sunrise Pipeline Phase I Survey, Pennsylvania.** Archaeologist for Phase I survey of the ASR Pipeline.
- **PPL Electric Utilities Corporation, PPL StantonBrookside 69kV/Providence 1 – Morgan 69 kV/Brookside – Morgan Tap 69 kV Rebuild, Lackawanna County, Pennsylvania.** Field Director and Report Author for the Phase I archaeological survey of the PPL Stanton-Brookside transmission line within northern Pennsylvania.
- **Shell Pipeline Company, LP Northeast Ethane Pipeline, Allegheny, Beaver, and Washington Counties, Pennsylvania.** Field Director and Report Co-Author for Phase I survey of an approximately 40-mile ethane pipeline in western Pennsylvania.
- **ACE Deepwater Reterminations Phase IB, Salem County, New Jersey.** Field Director and Report Co-Author for the Phase I archaeological survey of the ACE Deepwater reroute on the Delaware River Floodplain in southern New Jersey.
- **AGC-SWN Hickman to McCully, WV-PA Pipeline Phase I Archaeological Investigations, Ohio County, West Virginia and Washington County, Pennsylvania.** Archaeologist and surveyor for the Architectural History and Archaeological survey of the AGC-SWN Hickman to McCully Pipeline project.
- **AGC-SWN Burge to Liberty Pipeline Phase I Archaeological Investigations, Marshall County, West Virginia.** Archaeologist and surveyor for the Architectural History and Archaeological survey of the AGC-SWN Burge to Liberty Pipeline project.
- **US 35 Improvement Project, WV 869 to Mason Co 40, Putnam and Mason Counties, West Virginia.** Field Director for the Phase I archaeological survey of the WVDOH highway improvement, west of Charleston, WV.
- **DuPont Washington Works Island Cable Project, Blennerhassett Island, Phase I A/B and II Archaeological Evaluation and Investigations, Woods County, West Virginia.** Field Director and Report Co-Author for a Phase I/II archaeological evaluation and investigation of an approximately 2.5 mile access road modification and cable installation project to support existing water wells.
- **Shell Appalachia, LLC proposed Petrochemicals Plant, Phase IA/B and II Archaeological Evaluation and Investigations, Beaver County, Pennsylvania.** Field Director and Report Co-Author for the Phase I archaeological evaluation and Phase II excavation of 9 archaeological sites.
- **UGI Sunbury Phase I Pipeline Cultural Survey, Montour County, Pennsylvania.** Archaeologist for Phase I survey of the UGI Sunbury Pipeline.
- **Williams-Waterford Phase I Pipeline Project, Susquehanna County, Pennsylvania.** Field Director for the Phase I survey of an approximately 2.5 kilometer natural gas pipeline ROW.
- **Tioga CPF #2 Discharge, Tioga and Lycoming Counties, Pennsylvania.** Field Director for the installation of the seven-mile Tioga #2 natural gas Discharge.
- **Williams-Diaz Well Connect, Susquehanna County, Pennsylvania.** Crew chief for the cultural resources survey of an approximately 4.0 kilometer natural gas well connection.

Midwest

- **IndyGo Downtown Transportation Center Phase II/III Archaeological Investigations, Indianapolis, Indiana.** Field Director, Site Safety Officer, Archaeological Monitor, and Report Co-Author for the Phase II/III archaeological investigations of a city block in Indianapolis, IN.
- **Spectra Energy Adair Pipeline Project, Athens and Meigs Counties, Ohio.** Archaeologist for the Phase I survey of a pipeline expansion and compressor station.

Southeast

- **NCDOT C.F. Harvey Parkway Extension Phase I Survey, Lenoir County, North Carolina.** Field Director and Report Author for Phase I survey of an approximately 6-mile extension of the existing C.F. Harvey Parkway from NC 58 to NC 11.
- **PNG Line 434 Phase I/II Pipeline Survey, Richmond, Scotland, and Robeson Counties, North Carolina.** Field Director and Report Co-Author for Phase I and II excavations associated with the installation of new pipeline corridors.
- **SCE&G Chapin High Pressure Growth Feeder Project Phase I Survey, Lexington and Richland Counties, South Carolina.** Field Director and Report Author for the Phase I survey of a 3.3-mile pipeline.

- **Archaeological Survey and Evaluation for the Realignment and Improvement to ST 1228 (Liberty Road) and the New I-40/Liberty Road Interchange, Buncombe County, North Carolina.** Report Co-Author for the realignment and improvement of Liberty Road and the New I-40/Liberty Road Interchange.
- **NCDOT Data Recovery for the US19E Improvement to a Multilane Facility between Micaville and Spruce Pine, Yancey and Mitchell Counties, North Carolina.** Report Co-Author the US19E improvement Phase III survey.
- **Data Recovery (Phase III) of Sites 31RD1398 and 31RD1399 for Asheboro Southern Bypass, Randolph County, North Carolina: NCDOT Project R-2536.** Archaeologist assisting in the excavation of two prehistoric sites in central North Carolina.

Plains

- **Missouri Pipeline Phase I Archaeological Survey, Johnson County, Missouri:** Archaeologist for a pipeline expansion in central Missouri.
- **Oklahoma Phase I Survey of Fort Sill Military Base, Comanche County, Oklahoma.** Archaeologist for the re-investigation of Fort Sill Military base.
- **Central Oklahoma Phase I Pipeline, Pottawatomie County, Oklahoma.** Archaeologist for the Phase I Archaeological survey of a pipeline installation project in Central Oklahoma.
- **North Dakota Phase I Pipeline Survey, Burke and Renville Counties, North Dakota.** Archaeologist for a Phase I survey of a pipeline installation project through northern North Dakota.

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

- Registered Professional Archaeologist (ID 39362366)
- Federal Emergency Management Agency Badged Contractor

PROFESSIONAL TRAINING

- Hazardous Waste Operations and Emergency Response Training (HAZWOPER) 40-hour Certification, 2014
- Hazardous Waste Operations and Emergency Response Training (HAZWOPER) 8-hour Refresher, 2015, 2016, 2017
- ACHP Section 106 Essentials Course, 2016
- Competent Person: Excavation, Trenching, and Shoring (Professional Safety Training Services), 2015
- PEC Basic Orientation Safety Awareness Course – SafeGulf and SafelandUSA, 2014
- West Chester University of PA Archaeology Field School, Lancaster and Chester Counties, PA. 2009
- West Chester University of PA Archaeology Field School, Lancaster County, PA, 2010

SELECTED PUBLICATIONS/PRESENTATIONS

- *NCDOT C.F. Harvey Parkway Extension Project, Lenoir County, NC.* Co-authored with Matt Jorgenson, 2017
- *PNG Line 434 Pipeline Phase I Survey, Richmond, Scotland, and Robeson Counties, NC.* Co-Author with Peter Sittig and Marvin Jones, 2017.
- *Archaeological Survey and Evaluation for the Realignment and Improvement to ST 1228 (Liberty Road) and the New I-40/Liberty Road Interchange, Buncombe County, NC.* Co-authored with Peter Sittig, 2016.
- *SCE&G Chapin High Pressure Growth Feeder Project Phase I Survey, Lexington and Richland Counties, SC.* 2016
- *Shell Pipeline Company, LP Northeast Ethane Pipeline, Allegheny, Beaver, and Washington Counties, PA.* Co-authored with Jennifer Rankin and Mike Way, 2016
- *DuPont Washington Works Island able Project , Blennerhassett Island, Phase I A/B and II Archaeological Evaluation and Investigations, Woods County, WV.* Co-Author with Jennifer Rankin, 2015
- *Niche Construction of Predictable Landscapes: Redundant Caching in Ecological Niches on the Central Plains.* Paper presented at the Society for American Archaeology Conference, Orlando, FL, 2016

- *Settlement Analysis of Southeastern Pennsylvania: Late Archaic Traditions.* Paper presented at the PASSHE Undergraduate Anthropology Conference, Bloomsburg, PA, 2011
- *Settlement Analysis of Southeastern Pennsylvania: Late Archaic Traditions.* Paper presented at Society for Pennsylvania Archaeology Conference, Morgantown, PA, 2011
- *Settlement Analysis of Southeastern Pennsylvania: Late Archaic Traditions.* Paper presented at Middle Atlantic Archaeological Conference, Ocean City, MD, 2011