



Adam Holven, M.S., B.S., B.A. Senior Archaeologist/Project Manager

EXPERIENCE SUMMARY

Mr. Holven has extensive archaeological field experience, including large-scale research-based excavations in western Nebraska and Iowa, multi-square mile cultural resource surveys for wind parks in Iowa, Indiana, Minnesota, Nebraska, North Dakota, Ohio, and South Dakota, critical investigation analyses of wind resource areas in North Dakota, South Dakota, Minnesota, Ohio, Oklahoma, and Wisconsin, and Phase I and II cultural resource surveys for agricultural, transportation, and telecommunication projects throughout the upper Midwest and Great Plains.

The cultural resource projects the Mr. Holven manages are often a critical component in the development of environmental assessments (EA) and environmental impact statements (EIS) for projects requiring compliance with the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act (NHPA). For this work, he has developed the necessary project management skills by serving as a crew member, collaborator, field director, and principal investigator for a broad range of archaeological and cultural resource management projects.

Mr. Holven has also overseen the completion of NEPA categorical exclusions for cellular projects in Iowa, Minnesota, North Dakota, and South Dakota that have been reviewed by the Federal Communications Commission (FCC). He is highly proficient in GIS (including aerial photography, spatial statistics, and landscape modeling), zooarchaeology and vertebrate taphonomy, chipped stone analysis, historic archaeology, and has applied his educational background in geology and soils to the field of geoarchaeology.

Mr. Holven has also overseen curation activities at the Iowa State University Laboratory, where he trained undergrad students in federal curation regulations, as set forth in 36 CFR Part 79. This suite of archaeological experience coupled with cultural resources and NEPA project management, a background in GIS, geology, and soils has provided him with the necessary tools to complete a wide range of cultural resources projects both thoroughly and efficiently.

RELEVANT EXPERIENCE

Cultural Resource Management - National Environmental Policy Act (NEPA) Support

Federal Communications Commission (FCC) NEPA Compliance, Verizon Wireless, 2007 – Current. Mr. Holven has served as Principal Investigator and has completed cultural resource assessments and surveys for more than 600 telecommunication tower and antenna installation sites throughout the Upper Midwest, Great Plains, and Mountain West. Tasks

EDUCATION

- M.A., Anthropology, Iowa State University, 2006
- B.A., Anthropology, University of Northern Iowa, 2003
- B.S., Geology, University of Northern Iowa, 2001

AREAS OF EXPERTISE

- Archaeology
- Geology
- GIS

KEY TRAINING/ CERTIFICATIONS

- 40 Hour OSHA HAZWOPER Training
- 8-Hour Annual Refresher for HAZWOPER
- 10-hour OSHA Construction Safety and Health Training
- CPR and Standard First Aid Training
- Tetra Tech Project Manager II Training
- Tetra Tech Project Manager I Training
- Graduate Certificate, Geographic Information Systems, Iowa State University, Ames

OFFICE

Bloomington, Minnesota

YEARS OF EXPERIENCE

14

CONTACT

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have included cultural resource file searches at multiple state historic preservation offices, surface and subsurface testing, and consultation with the multiple state historic preservation offices, numerous American Indian Tribes, and local historical groups.

Cultural Resource Management – Wind Energy Support

Blazing Star Wind Farm, Lincoln County, Minnesota, Geronimo Energy, 2016 – current. Mr. Holven is the Principal Investigator for the Phase I Archaeological Investigation for the proposed Blazing Star Wind Farm in southwestern Minnesota. The project will require a Certificate of Need from the Power Utilities Commission (PUC); therefore, the Project is subject to review by the Minnesota Historic Preservation Office (SHPO). Mr. Holven is also the Project Manager, overseeing the completion the archaeological and architectural tasks, wetland and natural resource tasks, and the Phase I ESA task.

Cattle Ridge Wind Farm, Grant County, South Dakota, Geronimo Energy, 2016 – current. Mr. Holven is the Principal Investigator and Project Manager for the Level III Archaeological Investigation for the proposed Cattle Ridge Wind Farm in northeastern South Dakota. The project will require a Certificate of Need from the Power Utilities Commission (PUC); therefore, the Project is subject to review by the South Dakota State Historic Preservation Office (SHPO). Mr. Holven is also the Project Manager, overseeing the completion the archaeological and architectural tasks, wetland and natural resource tasks, and the Phase I ESA task.

Crocker Wind Farm, Clark County, South Dakota, Geronimo Energy, 2016 – current. Mr. Holven is the Principal Investigator and Project Manager for the Level III Archaeological Investigation for the proposed Crocker Wind Farm in northeastern South Dakota. The project will require a Certificate of Need from the Power Utilities Commission (PUC); therefore, the Project is subject to review by the South Dakota State Historic Preservation Office (SHPO). Mr. Holven is also the Project Manager, overseeing the completion the archaeological and architectural tasks, wetland and natural resource tasks, and the Phase I ESA task.

Hog Creek Wind Farm, Hardin County, Ohio, RES America, 2016 – current. Mr. Holven is the Principal Investigator and Project Manager for the Phase I Archaeological Investigation for the proposed Hog Creek Wind Farm in northwestern Ohio. The project was granted a Certificate of Environmental Compatibility and Public Need from the Ohio Power Siting Board (OSPB); therefore, the Project was reviewed by the Ohio Historic Preservation Office (OHPO).

Glacial Ridge Wind Energy Center, Barnes County, North Dakota, RES America, 2016 – current. Mr. Holven is the Principal Investigator for the Class III Cultural Resource Inventory for the proposed Glacial Ridge Wind Energy Center in east-central North Dakota. The project will require a Certificate of Site Compatibility from the North Dakota Public Service Commission (PSC); therefore, the Project is subject to review by the State Historical Society of North Dakota (SHSND) under the North Dakota Century Code 55-02-07. Mr. Holven is also the Project Manager, overseeing the completion the archaeological and architectural tasks, wetland and natural resource tasks, and the permitting tasks.

Red Butte Wind Farm and Transmission Line, Oliver and Mercer Counties, North Dakota, Tenaska, 2016 – current. Mr. Holven is the Principal Investigator for the Class III Cultural Resource Inventory for the proposed Red Butte Wind Farm and Transmission Line in central North Dakota. The project will require a Certificate of Site Compatibility and Certificate of Corridor Compatibility from the North Dakota Public Service Commission (PSC); therefore, the Project is subject to review by the State Historical Society of North Dakota (SHSND) under the North Dakota Century Code 55-02-07. Mr. Holven is also the Project Manager, overseeing the completion of the archaeological and architectural tasks, wetland and natural resource tasks, and the permitting tasks.

Brady Wind Energy Center, Stark County, North Dakota, NextEra Energy, 2015 – 2017. Mr. Holven was the Principal Investigator and Project Manager for the Class III Cultural Resource Inventory for the proposed Brady Wind Energy Center in west-central North Dakota. Mr. Holven lead crews that included archaeological staff from two divisions within Tetra Tech (TtEMI and TtCES) as well as two subcontractors (AECOM and Metcalf). The project was granted a Certificate of Site Compatibility from the North Dakota Public Service Commission (PSC)

and is currently operational. The Project was reviewed by the State Historical Society of North Dakota (SHSND) under the North Dakota Century Code 55-02-07. During this pedestrian survey and shovel probing, Tetra Tech documented archaeological resources ranging from Euro-American artifact scatters to large Native American lithic scatters.

Brady II Wind Energy Center, Hettinger and Stark Counties, North Dakota, NextEra Energy, 2015 – 2017.

Mr. Holven was the Principal Investigator and Project Manager for the Class III Cultural Resource Inventory for the proposed Brady II Wind Energy Center in west-central North Dakota. Mr. Holven lead crews that included archaeological staff from two divisions within Tetra Tech (TtEMI and TtCES) as well as two subcontractors (AECOM and Metcalf). The project was granted a Certificate of Site Compatibility from the North Dakota Public Service Commission (PSC) and is currently operational. The Project was reviewed by the State Historical Society of North Dakota (SHSND) under the North Dakota Century Code 55-02-07. During this pedestrian survey and shovel probing, Tetra Tech documented archaeological resources ranging from Euro-American artifact scatters to large Native American lithic scatters.

Oliver III Wind Energy Center, Morton County, North Dakota, NextEra Energy, 2011 – 2017.

Mr. Holven was the Principal Investigator and Project Manager for the Class III Cultural Resource Inventory for the proposed Oliver III Wind Energy Center and Transmission Line in central North Dakota. The project was granted a Certificate of Site Compatibility from the North Dakota Public Service Commission (PSC) and is currently operational. The Project was reviewed by the State Historical Society of North Dakota (SHSND) under the North Dakota Century Code 55-02-07. During this pedestrian survey and shovel probing, Tetra Tech documented archaeological resources ranging from Euro-American artifact scatters to large Native American stone feature sites consisting of multiple tipi rings and cairns.

Courtenay Wind Farm, Stutsman County, North Dakota, Geronimo Energy, 2013 – 2014; Xcel Energy, 2015 – 2016.

Mr. Holven was the Principal Investigator for the Class III Cultural Resource Inventory for the Courtenay Wind Farm in central North Dakota. The total area surveyed to date for the project is 2,832 acres (4.4 square miles). The project received a Certificate of Site Compatibility from the North Dakota Public Service Commission (PSC) and is operational. The Project was reviewed by the State Historical Society of North Dakota (SHSND) under the North Dakota Century Code 55-02-07. During this investigation, Tetra Tech documented archaeological resources ranging from Euro-American artifact scatters to Native American isolated finds.

Courtenay Wind Farm, Stutsman County, North Dakota, Geronimo Energy, 2013 – 2014.

Mr. Holven was the Principal Investigator for the Class III Cultural Resource Inventory for the Courtenay Wind Farm in central North Dakota. The total area surveyed to date for the project is 2,832 acres (4.4 square miles). The project received a Certificate of Site Compatibility from the North Dakota Public Service Commission (PSC) and is operational. The Project was reviewed by the State Historical Society of North Dakota (SHSND) under the North Dakota Century Code 55-02-07. During this investigation, Tetra Tech documented archaeological resources ranging from Euro-American artifact scatters to Native American isolated finds.

Dickinson Wind Energy Center, Stark County, North Dakota, NextEra Energy, 2015.

Mr. Holven was the Principal Investigator for the Class III Cultural Resource Inventory for the proposed Dickinson Wind Energy Center in west-central North Dakota. Mr. Holven lead crews that included archaeological staff from two divisions within Tetra Tech (TtEMI and TtCES), as well as a subcontractor (AECOM). During this investigation, Tetra Tech documented archaeological resources ranging from Euro-American artifact scatters to large Native American lithic scatters.

Grande Prairie Wind Farm, Holt County, Nebraska, Geronimo Energy, 2014 – 2015.

Mr. Holven was the Principal Investigator for the Phase I Archaeological Investigation for the proposed Grand Prairie Wind Farm in north central Nebraska. The total area surveyed to date for the project is 5,334 acres (8.3 square miles). Western Area Power Administration and the Nebraska State Historic Preservation Office (SHPO) have reviewed this

Project to ensure its compliance with Section 106 of the National Historic Preservation Act (NHPA) and the National Environmental Policy Act (NEPA). Mr. Holven provided the cultural resources documentation that was utilized in the Environmental Impact Statement (EIS). During this investigation, Tetra Tech documented archaeological resources ranging from Euro-American artifact scatters to Native American isolated finds.

Thunder Spirit Wind Energy Center, Adams County, North Dakota, Global Winds Harvest, 2013 – 2014. Mr. Holven was the Principal Investigator for the Class III Cultural Resource Inventory for the Thunder Spirit Wind Energy Center in southwest North Dakota. The total area surveyed to date for the project is 926 acres (1.4 square miles). The project was granted a Certificate of Site Compatibility from the North Dakota Public Service Commission (PSC) and is currently operational. The Project was reviewed by the State Historical Society of North Dakota (SHSND) under the North Dakota Century Code 55-02-07. During this investigation, Tetra Tech documented archaeological resources ranging from Euro-American artifact scatters to large Native American stone feature sites consisting of multiple tipi rings and cairns.

Wilton IV Wind Energy Center, Burleigh County, North Dakota, NextEra Energy, 2011 – 2015. Mr. Holven was the Principal Investigator for the Class III Cultural Resource Inventory for the proposed Wilton IV Wind Energy Center in central North Dakota. The total area surveyed to date for the project is 1,035 acres (1.6 square miles). Western Area Power Administration and the State Historical Society of North Dakota (SHSND) will review this Project to ensure its compliance with Section 106 of the National Historic Preservation Act (NHPA) and the National Environmental Policy Act (NEPA). Mr. Holven provided the cultural resources documentation that will be utilized in the Environmental Impact Statement (EIS). During the ongoing investigation, Tetra Tech documented archaeological resources ranging from Euro-American artifact scatters to large Native American stone feature sites consisting of multiple tipi rings and cairns.

Day County Wind Energy Center, Day County, South Dakota, NextEra Energy, 2009 – 2011. Mr. Holven was the Principal Investigator for the Level III Cultural Resource Survey for the Day County Wind Energy Center in eastern South Dakota. During this survey, human remains were identified on the surface at a mound group. Mr. Holven worked with the South Dakota Archaeological Research Center to document these remains and the mound group. Mr. Holven also worked with NextEra Energy Resources, LLC and their contractors daily during construction to educate these groups on the sensitive cultural resources in the area and the importance of avoiding such sites.

Crowned Ridge Wind Energy Center, Grant, Codington, and Deuel Counties, South Dakota, NextEra Energy, 2009 – 2015. Mr. Holven was the Principal Investigator for the Level III Cultural Resource Survey for the proposed Crowned Ridge Wind Energy Center in eastern South Dakota. The project required a Certificate of Site Compatibility from the South Dakota Public Utility Commission (PUC); therefore, the Project was subject to review by the South Dakota State Historic Preservation Office (SHPO). During the ongoing investigation, Tetra Tech documented archaeological resources ranging from Euro-American artifact scatters to large Native American stone feature sites consisting of multiple tipi rings and cairns.

High Point Wind Energy Center, Clay, Dickinson, and Osceola Counties, Iowa, NextEra Energy, 2010 – 2011. Mr. Holven served as the Principal Investigator for the Phase I Archaeological Survey for the High Point Wind Energy Center in northwest Iowa. Although this project did not require any federal or state permits, Mr. Holven conducted the survey in compliance with the Guidelines for Archaeological Investigations in Iowa (Kaufmann 1999) and The Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation [48 Federal Register 44716-44740] (National Park Service [NPS] 1983).

Flat Hills Wind Farm, Clay County, Minnesota, Noble Environmental Power, 2008 – 2009. Mr. Holven served as the Principal Investigator for the Phase I Archaeological Survey for the Flat Hills Wind Energy Center in west-central Minnesota. Mr. Holven provided the necessary cultural resources requirements as defined by the Minnesota Public Utilities Commission (PUC) and the SHPO for a Certificate of Need. These requirements included a consultation with the SHPO to identify concerns regarding cultural resources within the project area. Mr. Holven also conducted a Phase IA Cultural Resource Survey for the proposed project area and submitted the

results of this survey to the appropriate agencies and interested parties on behalf of the client. Mr. Holven also prepared the necessary cultural documentation of a state-level environmental assessment (EA).

Cultural Resource Management – Solar Energy Support

Proposed Community Solar Garden Projects, Minnesota, Geronimo, 2015 – current. Mr. Holven is providing cultural resource support and project management for Geronimo's proposed Community Solar Garden projects in Minnesota. The services included Phase I Archaeological Surveys, Wetlands and Waters Evaluations, and Phase I Environmental Site Assessments. Presently, services have been completed for 18 facilities, some of which are under construction. Mr. Holven is currently providing support for an additional 21 solar facilities.

Site Suitability Analyses, Proposed Community Solar Garden Projects, Indiana, juwi, 2015. Mr. Holven is providing cultural resource support for juwi's proposed Community Solar Garden projects in Indiana. File searches were conducted to determine if sensitive cultural resources were present in the Project Areas and if any additional services were necessary.

Site Suitability Analyses, Proposed Community Solar Garden Projects, Minnesota, SoCore Energy, 2014 – Present. Mr. Holven is providing cultural resource support for SoCore Energy's proposed Community Solar Garden projects in Minnesota. File searches were conducted to determine if sensitive cultural resources were present in the Project Areas and if any additional services were necessary.

Site Suitability Analyses, Proposed Community Solar Garden Projects, Minnesota, SunEdison, 2014 – 2015. Mr. Holven provided cultural resource support for SunEdison's proposed Community Solar Garden projects in Minnesota. File searches were conducted to determine if sensitive cultural resources were present in the Project Areas and if any additional services were necessary.

Cultural Resource Management – Transmission Line Support

Brady Transmission Line, Stark County, North Dakota, NextEra Energy, 2015 – 2016. Mr. Holven served as the Principal Investigator for the Class III Cultural Resource Inventory for the proposed Brady Transmission Line in west-central North Dakota. The project received a Certificate of Site Compatibility from the North Dakota Public Service Commission (PSC) and is operational. The Project was reviewed by the State Historical Society of North Dakota (SHSND) under the North Dakota Century Code 55-02-07.

Dickinson Transmission Line, Stark County, North Dakota, NextEra Energy, 2015. Mr. Holven served as the Principal Investigator for the Class III Cultural Resource Inventory for the proposed Dickinson Transmission Line in west-central North Dakota. The project required a Certificate of Site Compatibility from the North Dakota Public Service Commission (PSC); therefore, the Project was subject to review by the State Historical Society of North Dakota (SHSND) under the North Dakota Century Code 55-02-07.

Wilton IV Transmission Line, Burleigh County, North Dakota, NextEra Energy, 2014 – 2017. Mr. Holven served as the Principal Investigator for the Class III Cultural Resource Inventory for the proposed Wilton IV Transmission Line in central North Dakota. Western Area Power Administration and the State Historical Society of North Dakota (SHSND) will review this Project and ensure its compliance with Section 106 of the National Historic Preservation Act (NHPA) and the National Environmental Policy Act (NEPA). Mr. Holven provided the cultural resources documentation that will be utilized in the Environmental Impact Statement (EIS).

Day County II Transmission Line, Day County, South Dakota, NextEra Energy, 2014 – Current. Mr. Holven is the Principal Investigator for the Level III Cultural Resource Survey for the proposed Day County II Transmission Line in eastern South Dakota. The project will require a Certificate of Site Compatibility from the South Dakota Public Utility Commission (PUC); therefore, the Project is subject to review by the South Dakota State Historic Preservation Office (SHPO).

Courtenay Transmission Line, Stutsman County, North Dakota, Geronimo Energy, 2013 – Current. Mr. Holven is the Principal Investigator for the Class III Cultural Resource Inventory for the proposed Courtenay

Transmission Line in central North Dakota. Although this project did not require any federal or state permits, Mr. Holven conducted the survey in compliance with the North Dakota SHPO Guidelines Manual for Cultural Resource Inventory Projects (SHSND 2006) and The Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation [48 Federal Register 44716-44740] (National Park Service [NPS] 1983).

Oliver III Transmission Line, Morton County, North Dakota, NextEra Energy, 2011 – 2016. Mr. Holven served as the Principal Investigator for the Class III Cultural Resource Inventory for the proposed Oliver III Transmission Line in central North Dakota. The project required a Certificate of Site Compatibility from the North Dakota Public Service Commission (PSC); therefore, the Project was subject to review by the State Historical Society of North Dakota (SHSND) under the North Dakota Century Code 55-02-07. During this investigation, Tetra Tech documented archaeological resources ranging from Euro-American artifact scatters to large Native American stone feature sites consisting of multiple tipi rings and cairns.

Phase I Archaeological Survey for the Federal Emergency Management Association (FEMA) Electric Line Retrofit Project (DR-1763-0105), Northwest Iowa, North West Rural Electric Cooperative, 2012. Mr. Holven conducted an archaeological investigation for 25 miles of transmission line segments that FEMA had determined have “a moderate to high potential to contain archaeological resources that may be eligible for listing in the NRHP.”

Flat Hills Transmission Line, Clay County, Minnesota, Noble Environmental Power, 2008 – 2009. Mr. Holven served as the Principal Investigator for the Phase I Archaeological Survey for the Flat Hills Transmission Line in west-central Minnesota. Mr. Holven provided the necessary cultural resources requirements as defined by the Minnesota Public Utilities Commission (PUC) and the SHPO for a Certificate of Need. These requirements included consultation with the SHPO to identify concerns regarding cultural resources within the project area. Mr. Holven also conducted a Phase IA Cultural Resource Survey for the proposed project area and submitted the results of this survey to the appropriate agencies and interested parties on behalf of the client. Mr. Holven also prepared the necessary cultural documentation of a state-level environmental assessment (EA).

Northstar Transmission Line, Jackson County, Minnesota, National Wind, LLC, 2008 – 2009. Mr. Holven served as the Principal Investigator for the Phase I Archaeological Survey for the Northstar Transmission Line in southwest Minnesota. Mr. Holven provided the necessary cultural resources requirements as defined by the Minnesota Public Utilities Commission (PUC) and the SHPO for a Certificate of Need. These requirements included a consultation with the SHPO to identify concerns regarding cultural resources within the project area. Mr. Holven also conducted a Phase IA Cultural Resource Survey for the proposed project area and submitted the results of this survey to the appropriate agencies and interested parties on behalf of the client. Mr. Holven also prepared the necessary cultural documentation of a state-level environmental assessment (EA).

Cultural Resource Management – Other Projects

Archaeological Resource Assessment for the Proposed Camp Sherman Expansion Project, Chillicothe, Ohio, Ohio Army National Guard, 2016 - Present. Mr. Holven is the Principal Investigator for the archaeological resources assessment for the proposed 12-acre expansion. This work includes a pedestrian survey and soil probes to help identify areas that would require a Phase I Archaeological Survey in the event the property is purchased by the Ohio Army National Guard.

Phase I at the Proposed Laclede-Route 291 Pipeline Replacement, Sugar Creek, Jackson County, Missouri, 2016. Mr. Holven was the Principal Investigator for the Phase I archaeological investigations for the proposed Laclede-Route 291 Pipeline Replacement. No cultural resources were identified during this investigation.

Phase I and II Investigations at the Proposed St. Michael O'Donnell-LaBeaux Residential Development, St. Michael, Minnesota, Lakeview Development Company, LLC, 2015 – current. Mr. Holven is the Principal Investigator for the Phase I and II investigations for the proposed St. Michael O'Donnell-LaBeaux Residential

Development in St. Michael, Minnesota. During the Phase I investigation, two Precontact Woodland sites were identified. Tetra Tech developed a research plan and performed Phase II investigations and determined that one of the sites was eligible for listing on the National Register of Historic Places. Mr. Holven is currently working with the developer, the Minnesota State Historic Preservation Office, and the U.S. Army Corps of Engineers to develop a mitigation plan for the site, meeting the requirements for Section 106 of the National Historic Preservation Act.

United States Coast Guard/Minnesota State Historic Preservation Office: Memorandum of Agreement – Duluth North and South Lighthouse Fresnel Lens Removal, Duluth, Minnesota, 2015. Mr. Holven provided field support and technical review for the documentation of two fresnel lenses located at the Duluth North Pier Light and Duluth South Breakwater Light. The services included assistance with the photographic documentation of the lens, and review of submittals prior to delivery to the Coast Guard and the MN SHPO.

Phase I Investigation at the Proposed Saddle Club Residential Development Project, Lino Lakes, Minnesota, DuPont Holdings, Inc., 2014 – 2015. Mr. Holven served as the Principal Investigator for the Phase I investigation for the proposed Saddle Club Residential Development Project in Lino Lakes, Minnesota. The services included file searches, consultation, and field surveys regarding the regulatory requirements for Section 106 of the National Historic Preservation Act.

Site Suitability Analyses and Permitting Assistance, Proposed Railroad Upgrades, Minnesota and Wisconsin, Canadian National, 2014 – 2015. Mr. Holven provided cultural resource support for Canadian National's proposed railroad upgrade projects in Minnesota and Wisconsin. The services included file searches and consultation regarding the regulatory requirements for Section 106 of the National Historic Preservation Act.

Housing Site 2, Rock Island Arsenal, Rock Island County, Illinois, Rock Island Integrated Services, 2014. Mr. Holven is leading a Phase I archaeological investigation that included a detailed literature review, with specific attention paid to the historical use of Rock Island, a pedestrian survey, and subsurface testing for proposed housing development on the island.

Lake Manawa Diagnostic and Feasibility Study in Lake Manawa State Park, Pottawattamie County, Iowa, Iowa Department of Natural Resources, 2012. Mr. Holven conducted a Phase I archaeological investigation that included a detailed literature review, with specific attention paid to shipwrecks within Lake Manawa and the turn of the century resort known as Manhattan Beach, a pedestrian survey, and subsurface testing of selected areas within the park. The results of this investigation determined that two historic shipwrecks may be present within Lake Manawa; however, no archaeological materials were identified on land due to extensive development of the park in the 1980s.

SCIENTIFIC/TECHNICAL PUBLICATIONS

- “Breaking the Sod: A Call for Shovel Probing on the Northern Plains,” Poster presentation, Plains Anthropological Conference 73rd Session, Iowa City, Iowa, October 2015.
- “A Morphometric Approach to the Late Paleoindian and Early Archaic Lithic Assemblage from the Reese Site, Central Iowa,” Symposium Advances in the Study of Lithic Morphology, Society for American Archaeology, Vancouver, B.C., March 2008.
- “Dalton in Iowa: The Reese site,” Invited Speaker, Conference of Minnesota Archaeology, Mankato, Minnesota, February 2007.
- “Site Structure at the Clary Ranch Site,” Invited Speaker, Plains Anthropological Conference 64th Session, Topeka, Kansas, October 2006.
- “A GIS Approach to Intrasite Spatial Analysis: Site Formation and Late Paleoindian Activities at the Clary Ranch site,” Invited Speaker, University of Northern Iowa Department of Earth Science Awards Banquet, Cedar Falls, Iowa, April 2006.
- “Dalton in Iowa: The Reese site,” Poster presentation, Midwest Archeological Conference 51st Session, Dayton, Ohio, October 2005.
- “Mortality of Iowa River Bison,” Poster presentation, Midwest Archeological Conference 51st Session, Dayton, Ohio, October 2005.
- “A GIS Approach to Intrasite Spatial Analysis: Site Formation and Late Paleoindian Activities at the Clary Ranch site,” Poster presentation, Midwest Archeological Conference 51st Session, Dayton, Ohio, October 2005.
- “A GIS Approach to Intrasite Spatial Analysis: Site Formation and Late Paleoindian Activities at the Clary Ranch site,” Invited Speaker, University of Northern Iowa Geography Colloquium, Cedar Falls, Iowa, September 2005.
- “Bison Dentition Studies from the Eastern Great Plains: Analysis of Two Time Averaged Non-Catastrophic Naturally Accumulating Assemblages from Fluvial Setting in Central and Western Iowa,” Poster presentation, Iowa State University Anthropology Department Poster Symposium, Ames, Iowa, May 2005.
- “Proboscideans Fossil Remains in Iowa: An Updated Compendium of Fossil Specimens and Their Locations Across the State,” Poster presentation, Plains Anthropologist Conference 61st Session, Fayetteville, Arkansas, October 2003.

ADDITIONAL EXPERIENCE

MS Excel, MS Word, MS Outlook, MS Access, ArcGIS, ArcPAD, Trimble GPS,
 Zooarchaeology, Geoarchaeology, Historic Archaeology

EMPLOYMENT HISTORY

2006-2007	Archaeologist, The 106 Group Ltd, St. Paul, Minnesota
2003-2006	Research Archaeologist, Iowa State University, Ames, Iowa
2003-2005	Teaching Assistant, Iowa State University, Ames, Iowa