

## MEGAN HENTE, CEM

### Education

MS – Geospatial Science, Missouri State University, 2017

BS – Environmental Science, Saint Louis University, 2014



*Megan Hente, CEM*

### Specialty Certifications

Nevada Certified Environmental Manager (No. EM2480)

State of Nevada Asbestos Abatement Consultant (No. IM-2110)

AHERA Certified Asbestos Building Inspector and Supervisor/Contractor

Water Pollution Control Manager

X-Ray Fluorescence (XRF) Training

EPA Lead-based Paint Inspector

OSHA 40-Hour HAZWOPER

OSHA 10-Hour Construction- Health and Safety

### Professional Experience

Ms. Hente is an Environmental Project Manager with significant experience in environmental investigation and monitoring. Her experience includes Phase I and II Environmental Site Assessments (ESAs), soil and groundwater sampling, drilling and excavation oversight, asbestos inspections and clearances in accordance with AHERA and NAC 618, and lead inspections following HUD regulations. She is also proficient in the use of ArcGIS software to develop site maps, groundwater potentiometric maps, and other necessary figures for report preparation.

### Overview of Experience and Expertise

**Phase I ESAs.** As Project Manager, Ms. Hente has conducted numerous Phase I ESAs. Properties assessed include undeveloped and vacant land, gasoline and automotive service stations, dry cleaning facilities, residential properties, industrial and manufacturing facilities, and office/retail sites. Her projects have included coordination with city, county, state, and federal agencies, as well as property owners, land managers, tenants/occupants, and other parties. She conducts assessments following accepted consulting practices, and by applicable ASTM International Standards 1527 or 2247, the EPA's All Appropriate Inquiry (AAI) ruling, and individual client scopes, including Vapor Encroachment Screening and Business Environmental Risks evaluation for asbestos, lead paint, radon, and mold.

**Phase II Limited Site Investigations.** Ms. Hente has experience as a Project Manager responsible for coordinating and conducting environmental media sampling of commercial and private properties in Nevada, to assess for the presence of contamination in soil and/or groundwater. Her projects include evaluating petroleum releases associated with underground storage tanks (USTs), dry cleaning chemicals, and residual contamination from previous use of chemicals of concern. She is responsible for preparing report figures, reporting findings following analytical results, and managing project budgets and schedules.

**Water Quality Monitoring.** Ms. Hente is experienced as a Project Manager responsible for installing monitoring wells and conducting on-site groundwater monitoring well sampling for Phase II ESA

investigations and ongoing remediation projects in Nevada. Her responsibilities include scheduling and coordinating site access for sampling, sample collection, data interpretation, and report preparation, including report figures.

**Hazardous Material Inspections.** Ms. Hente is responsible for conducting hazardous material inspections in Nevada for various commercial, industrial, residential, and medical facilities on these projects. She performs hazardous material sampling to evaluate the presence of asbestos-containing building materials (ACBMs), naturally occurring asbestos, lead-based paint (LBP), and asbestos/lead contaminated soils. She develops sampling analysis plans, samples suspect materials, interprets data, and prepares reports to comply with applicable regulations.

**Hazardous Material Abatement and Oversight.** As a Project Manager, Ms. Hente is responsible for abatement oversight and air clearance sampling. Her responsibilities include cost estimation of abatement clearance inspections; preparing bid documents (including technical abatement plans and specifications); providing oversight during abatement activities; and conducting final visual inspections and air clearance sampling once abatement activities are complete.

## **Representative Project Experience**

**City of Las Vegas Municipal Courthouse, Las Vegas, NV (2019-2022).** Elevated levels of perchloroethylene (PCE) and trichloroethylene (TCE) were discovered during groundwater sampling for planned dewatering activities during construction of the new courthouse. The Nevada Division of Environmental Protection (NDEP) was notified and requested additional groundwater monitoring wells to be installed in the vicinity of the original monitoring well to assess the discovered chemicals. Ms. Hente was the Certified Environmental Manager (CEM) on behalf of the City of Las Vegas. She and her team created a work plan for the installation of the monitoring wells and initial groundwater sampling plan. The plan was submitted and approved by the City of Las Vegas and the NDEP. Ms. Hente installed, developed, and sampled the additional groundwater monitoring wells and worked with the City and NDEP to continue assessment activities for further delineation and corrective actions.

**City of Las Vegas Floyd Lamb Gun Club Remediation (2021).** Ms. Hente was the CEM of record for the City of Las Vegas during the Floyd Lamb Gun Range remediation project. She performed soil sampling for lead and polycyclic aromatic hydrocarbons (PAHs) prior to remediation, and provided oversight during excavation activities and final sampling prior to the contractor placing the clean soil cap at the site. She managed the project budget, and correspondence between the City and NDEP, and prepared a final report summarizing results and findings.

**Las Vegas Boulevard Improvements: Environmental Drilling, Las Vegas, NV (2019).** Ms. Hente performed environmental drilling on Las Vegas Boulevard to monitor for petroleum contamination. Soil samples were collected at 5-foot intervals using a hollow stem auger and split-spoon SPT sampler. She performed in-situ monitoring of the soils using a photo-ionization detector (PID); collected samples with the highest PID reading as directed by a Nevada CEM; and transported samples under chain-of-custody procedures to a Nevada accredited laboratory for verification analysis. Drill cuttings were placed into drums for disposal at an approved facility.

**Former Gun Range, North Las Vegas, NV (2019).** Ms. Hente performed soil-lead sampling under guidance of a Nevada CEM at a former gun range in North Las Vegas. She determined sampling locations; performed soil sampling and collected in-situ measurements of lead in soil using a hand-held XRF analyzer; transported samples under chain-of-custody to a Nevada-accredited laboratory for verification analysis; and generated a report and supplemental figures detailing project information.

The report included an introduction, background, methods, results, and discussion sections under the guidance of a CEM.

**Hacienda and Polaris Soil Sampling, Las Vegas, NV.** Ms. Hente performed excavation oversight and environmental sampling of jet fuel-contaminated soil under the guidance of a Nevada CEM. She monitored soil conditions in-situ using a PID, and collected samples under chain-of-custody procedures for verification analysis at a Nevada-accredited laboratory. She ensured that contaminated soil was placed in correct containers for disposal at US Ecology, an approved disposal facility, and generated a report and supplemental figures detailing project information, which included an introduction, background, methods, results and discussion sections under the guidance of a CEM.

**Union Pacific Railroad Yard, Las Vegas, NV.** Ms. Hente performed drilling oversight and environmental sampling at the historic Union Pacific Railroad Yard. Subsurface soils were sampled using a PID to monitor for volatiles, and soil samples collected to determine methods of disposal. Samples were labeled and placed on ice to maintain integrity. She created chain-of-custody documents for the samples, which were analyzed using a Nevada-accredited laboratory.

**Phase I ESAs Throughout the Las Vegas Valley, NV.** Ms. Hente has performed numerous Phase I ESAs following ASTM 1527-13 throughout the Las Vegas Valley, and some Phase I ESAs in northern Nevada, California, and Colorado. Properties included undeveloped land, commercial, residential and industrial locations. Ms. Hente also regularly reviews Phase I ESAs prepared by others in the NOVA environmental department since obtaining her CEM in September 2019.

## Previous Experience

**Universal Engineering Sciences.** As Senior Environmental Manager, Ms. Hente prepared cost proposals and managed/maintained client relations, as well as ensuring that projects were completed on time and within budget. During her time with Universal Engineering Sciences, she managed and performed Phase I and II ESAs, and prepared reports following ASTM standards. She provided quality assurance and quality control (QA/QC) for western region Phase I ESA reports, and performed asbestos/lead inspections and clearances. Additionally, she prepared soil and groundwater sampling plans, and performed drilling and excavation oversight, all while supervising and directing field staff and implementing site health and safety procedures.

**College of Southern Nevada.** Ms. Hente was a part-time Adjunct Instructor who taught environmental courses as assigned and scheduled by the Department Chair in a Web-Remote or In-Person format. She also created semester schedule, course objectives, and PowerPoint lectures for NRES 210 - Environmental Pollution, NRES 322 - Soils, and ENV 360 - Environmental Assessment Methods. Ms. Hente developed syllabi that conformed to CSN standards and provided students with a week-to-week overview of course and teacher expectations, grading policies, and outcomes, and responded to student emails in a thoughtful and professional manner.

**Amec Foster Wheeler.** While working as an Environmental Scientist, Ms. Hente developed and prepared detailed boring logs and cross-sections in accordance with USACE, as well as performing XRF in-situ and ex-situ analysis of lead in soil. While with Amec, she conducted drilling oversight, soil sampling, well installation, and low-flow groundwater sampling at a former refinery in Illinois. She also collected and organized data, prepared preliminary reports, and created maps using ArcGIS software.

**Ozarks Environmental and Water Resources Institute (OEWRI).** Ms. Hente was a Laboratory Manager responsible for maintaining laboratory supplies, instruments, and equipment, as well as

developing new standard operating procedures. She also provided oversight of water and soil sample chains-of-custody, laboratory analyses, and quality assurance, and generated sediment and water sample reports for OEWRI clients.

**Missouri State University.** Ms. Hente was a Graduate Research Assistant responsible for collecting water samples for the Municipal Separate Storm Sewer Systems (MS4) seasonal storm water sampling, and evaluating the quality of water samples. She also performed geomorphic surveys of fluvial environments as part of a long-term monitoring project to assess natural and anthropogenic effects. In addition, she designed long-term monitoring sites in Mark Twain National Forest, using ArcGIS and following Forest Inventory and Analysis (FIA) sampling methods, and analyzed forest and soil data in the OEWRI Laboratory.

**Saint Louis University, Moquegua, Peru.** Ms. Hente was a Research Assistant working with Dr. A. Londoño (Professor at SLU), and archaeologists to identify structural features of buildings and palaces, irrigation canals, and reservoirs. She also operated Leica ScanStation2 ground-based lidar and Leica differential GPS equipment to map agricultural terraces and archeological sites. Additionally, she studied erosional processes occurring in an arid environment in the Western Andes, and aided in point cloud generation and management using Leica 3D point cloud processing software.

## Publications and Presentations

Hente, M., Pavlowsky, R. T., “Prescribed Burning Effects on Soil Conditions in Mark Twain National Forest, Southeast Missouri Ozarks.” Accepted Abstract, American Association of Geographers Annual Meeting Boston, MA 2017 (Illustrated paper).

Hente, M., Pavlowsky, R. T., “Prescribed Burning Effects on Soil Conditions in Mark Twain National Forest, Southeast Missouri Ozarks.” Accepted Abstract, Missouri Natural Resources Conference, 2017 (Poster).

Hente, M., Pavlowsky, R. T., Influence of Prescribed Burning on Upland Soil Properties in Mark Twain National Forest, Southeast Missouri Ozarks.” Accepted Abstract, Geological Society of America National meeting – Denver, CO, 2016 (Poster).

Hente, M., Pavlowsky, R. T., “Influence of Prescribed Burning on Upland Soil Properties in Mark Twain National Forest, Southeast Missouri Ozarks.” Interdisciplinary Forum at Missouri State University, 2016 (Poster).

Williams, P., Londoño, A., Hart, M., Nash, D., Chacaltana, S., Hente, M. “Surface Architectural Scanning of Archaeological Sites with Ground Based Lidar in Southern Peru.” Proceedings of the Digital Heritage International Congress, Vol. 2:605-608 – Marseille, France, 2013.

Londoño, A., Hart, M., Williams, P., Hente, M. “Geomorphological and Architectural Scanning of Pre-Columbian Earthworks in Southern Peru.” Accepted Abstract, Geological Society of America National meeting – Denver, CO, 2013 (Poster).

Londoño, A., Hart, M., Williams, P., Hente, M. “Ground Based Lidar of Ancient Andean Agricultural Systems.” Proceedings of the Digital Heritage International Congress, Vol. 2: 507-510 – Marseille, France, 2013.