Ryan Jones, C.E.M.
Senior Geologist

Professional Experience

Mr. Jones graduated from the University of Southern Indiana with a Bachelor of Science degree in Geology and has over 13 years of professional experience managing a variety of environmental projects. Mr. Jones is a Nevada Certified Environmental Manager and has extensive experience managing projects, personnel, contracts, and subcontractors. Mr. Jones is an OSHA Certified Asbestos Inspector for the states of Nevada and Texas. Mr. Jones is knowledgeable in areas of indoor air quality assessment; sampling of hazardous materials such as asbestos, lead-based paint, mold, and radon; project design for abatement/mitigation; soil and groundwater characterization; design, permitting, installation, and operation of soil and groundwater remediation systems; client and regulatory agency liaison for project operations and funding via state funds; evaluation and interpretation of environmental regulatory policy; Third Party litigation support; ESA historical document review, site reconnaissance, and data compilation; vapor intrusion assessment; SWPPP design and inspection; and comprehensive report preparation.

Project Experience

Mr. Jones' professional experience includes the management of numerous projects for Clark County (asbestos, lead, mold, SWPPP, emergency response, and indoor air quality); City of Las Vegas (remediation, groundwater, and soil sampling); City of North Las Vegas (Brownfields); Nye County (Brownfields, asbestos, lead, CEM excavation oversight); Federal Bureau of Investigation (indoor air quality, radon); Creech AFB (CEM oversight, IH/IAQ, LEED, SWPPP); Nellis AFB (asbestos, lead, radon); Boyd Gaming (asbestos); Station Casinos (Phase I ESAs); City of Scottsdale (Phase I ESAs); United States Army Corp of Engineers (UST removal oversight, soil sampling); NV Energy (quarterly groundwater sampling, asbestos, legionella); White Pine County (asbestos); Bank of America (third party litigation support, asbestos, lead, mold, Phase I ESA's, vapor intrusion); City of Henderson (asbestos, asbestos awareness training); and City Center Las Vegas (Phase I ESA, well installation, aquifer testing, soil and groundwater assessment, asbestos).

- **Union Pacific Railroad, California, Idaho, Louisiana, Nevada, Texas, Utah, and Wyoming:** Project Manager during air quality assessments for train crews operating from several Union Pacific rail yards. The objective of the air quality assessments was to evaluate noise and general air quality parameters as close to the engineer's seat as possible and in accordance with the analytical methods and equipment specified in the UPRR Emission Sampling Guidelines, dated November 12, 2004. Mr. Jones' duties included measuring air quality parameters (diesel exhaust); utilizing portable gas monitors during the sampling events to collect data on concentrations of oxygen, nitrogen dioxide, carbon monoxide, combustible gases, and sulfur dioxide; conducting full shift noise dosimetry on the train crews, in accordance with DOT/FRA Rule on Noise, 49 CFR 227 and 229; and performing personal volatile profile monitoring using evacuated mini-cans. Additional sampling was performed for crews working on cribber and adzer equipment. Work was performed under the direct supervision of a Certified Industrial Hygienist (CIH).
- **Clark County Detention Center, Las Vegas, Nevada:** Project Manager during an Indoor Air Quality (IAQ) assessment and pre-renovation asbestos, lead based paint (LBP), radon, and microbial contamination surveys for a twelve-story, 475,000 square-foot building. The objective

of the IAQ was to evaluate lighting, noise, and general air quality parameters in areas specified by the client for compliance in accordance with the American Correctional Association (ACA) Adult Local Detention Facilities (ALDF) Standards 3-ALDF-2D-01 through 3-LDF-2D-09. Mr. Jones' duties included measuring IAQ parameters, including air flow, respirable dust, viable and non-viable fungi, relative humidity, carbon dioxide concentrations, and carbon monoxide concentrations; submitting airborne viable and non-viable fungal spore samples for laboratory testing; measuring ambient noise levels, including daytime and simulated nighttime; and measuring ambient light levels in areas of the detention center specified by the client. Work was performed under the direct supervision of a CIH.

- **Clark County Walsh Building, Las Vegas, Nevada:** Project Manager during an IAQ assessment, microbial contamination survey, allergens sampling, and ozone sampling for a two-story office building. The objective of the IAQ assessments was to evaluate general air quality parameters in response to employee concerns regarding the overall indoor air quality of the building. Mr. Jones' duties included measuring IAQ parameters, including respirable dust, viable and non-viable fungi, relative humidity, temperature, carbon dioxide concentration, and carbon monoxide concentration; collecting ozone samples; heating ventilation and air conditioning (HVAC) inspections; submitting airborne viable and non-viable fungal spore samples for laboratory testing; and comprehensive report preparation. Work was performed under the direct supervision of a CIH.
- **Federal Bureau of Investigation Building, North Las Vegas, Nevada:** Project Manager during an IAQ assessment and radon sampling for a three-story municipal building. The objective of the IAQ was to evaluate general air quality parameters to fulfill occupancy requirements by the Government Service Administration (GSA) regarding radon in water and air, as well as, complaints of sewer-like odors by the occupants. Mr. Jones' duties included measuring IAQ parameters, including relative humidity, temperature, carbon dioxide concentration, carbon monoxide concentration, and sulfur dioxide concentration; collecting water and air samples for radon; collecting evacuated canister samples for volatile organic compounds (VOCs); sewer drain inspections; and comprehensive report preparation.
- **Former 5th Street School, Las Vegas, Nevada:** Project Manager during a comprehensive asbestos, LBP, and hazardous building material surveys (HBMS), a Phase I Environmental Site Assessment, abandonment of three monitoring wells, and area air monitoring for the removal of hazardous building materials, including materials coated with LBP, and asbestos-containing materials (ACM). The restoration of the Historic 5th Street School included restoring the 29,256 square-foot, 72-year old building to its original condition and transforming the City's first grammar school into a home for several arts and educational institutions, as well as a home for the Las Vegas chapter of the American Institute of Architects. In October, 2010, the School was honored with a Preservation Honor Award from The National Trust for Historic Preservation.
- **Creech Air Force Base, Indian Springs, Nevada:** Project Manager during area and personal air monitoring for respirable silica, ethylbenzene, methyl isobutyl ketone, and xylene during blasting and coating activities. Respirable silica samples were collected during abrasive blasting of a 250,000-gallon potable water tank. Air monitoring for solvents was conducted during the application of primer and paint to the water tank. The purpose of the air monitoring was to document the airborne levels of respirable silica in the work area and to estimate employee exposure to respirable silica and selected organic solvents. The air samples were collected and analyzed in general accordance with National Institute of Occupational Safety and Health (NIOSH) and Occupational Safety and Health Administration (OSHA) validated methods.

Additional duties included Nevada Certified Environmental Manager (CEM) inspections; Leadership in Energy and Environmental Design (LEED) inspections; collecting potable water samples for chlorine concentrations; and comprehensive report preparation.

- **Nevada Department of Transportation (NDOT) – Boulder City Bypass, Boulder City, Nevada:** Project Manager during the collection and analysis of surface and subsurface soil, deeper geologic materials, ambient air, and activity-based samples for Phase I and II of the Boulder City Bypass project. The purpose of the sampling was to characterize the site for naturally occurring asbestos (NOA) present within the area, complete an initial risk estimate, and prepare construction mitigation measures associated with concerns for NOA on Phase I and II of the Boulder City Bypass construction project. Additional tasks for this project included reviewing engineering and environmental documents to assist with the preparation of a large-scale Sampling and Analysis Plan (SAP). Approximately 140 solid matrix samples were submitted to two asbestos-certified laboratories for polarized light microscopy (PLM) analyses to evaluate asbestos concentrations. Approximately 20 percent of the solid matrix samples (28 samples) were analyzed using transmission electron microscopy (TEM) procedures to quantify asbestos at lower detection limits and to correlate results with previous analyses. Perimeter and personal air sampling was also performed during characterization activities for worker protection.
- **Maslonka Powerline/Western Area Power Administration – Boulder City Bypass, Boulder City, Nevada:** Project Manager during the collection and analysis of perimeter and personal air sampling for worker protection. The monitoring was performed during the Boulder City Bypass – Phase 2, 230-KV Transmission Line Modifications located in soils identified to contain NOA. Mr. Jones' duties included preparation of an Asbestos Dust Mitigation Plan; preparation of an Asbestos Compliance Plan; preparation of a Stormwater Pollution Prevention Plan; Asbestos Awareness Training and respirator fit testing for workers; and preparation of a comprehensive report.
- **Castaways Hotel & Casino, Las Vegas, Nevada:** Project Manager during a pre-implosion asbestos survey of a 19-story hotel and casino building with associated structures. Duties included the performance of a comprehensive asbestos survey for building interiors and exteriors; full-time asbestos abatement air monitoring during asbestos abatement activities, as well as final visual inspections and air clearances after the asbestos abatement was complete; submitting air samples to an accredited laboratory for analysis; and preparing a comprehensive report.
- **Desert Rose Apartments, Las Vegas, Nevada:** Project Manager during a hazardous building materials survey (HBMS) of thirteen, two-story apartment buildings and 236 dwelling units. The HBMS included performance of a comprehensive asbestos survey, LBP survey, microbial assessment, and soil sampling for polychlorinated biphenyls (PCBs) in accordance with applicable regulations. Mr. Jones' duties included the collection of asbestos bulk samples, collection of XRF/paint chip samples, collection of baseline Air-O-Cell samples for fungal analysis, collection of surface tape lift samples of suspect microbial growth, collection of soil and wipe samples for PCBs, visual assessment of surfaces, data interpretation, and preparation of a comprehensive written report. Mr. Jones successfully performed expert witness testimony on behalf of the client. The client was granted receivership based on the results of the HBMS.
- **New Economy Lot, McCarran International Airport, Clark County, Nevada:** Project Manager during preparation of a site-specific Health and Safety Plan (HASP) and an Environmental Management Plan (EMP) for an 11- parcel, 44.3-acre site formerly used for

rental car facilities at the McCarran International Airport. Mr. Jones' duties included providing health and safety oversight of the contractor and monitoring compliance with the approved HASP; performing sampling and analysis of suspected contaminated soil encountered during construction activities; and managing segregation and disposal of excavated contaminated soil.

- **Titanium Metals Corporation – Northwest Ditch Excavation, Henderson, Nevada:** Project Manager during the performance of excavation activities to remove asbestos impacted soil. Mr. Jones' duties included correspondence with Clark County Air Quality and Environmental Management officials, oversight of work practices to ensure worker and public safety, delineation of asbestos work zones, collection of samples to evaluate suspect materials encountered during the excavation activities for asbestos content, collection of perimeter air samples to evaluate whether engineering controls were sufficient in preventing an asbestos fiber release and report preparation. GEI Consultants subcontracted for Mr. Jones to provide asbestos abatement consultant services during the removal of impacted soil from two unlined drainage ditches historically used to carry process waste through the Titanium Metals Corporation (TIMET) facility. Mitigation of the impacted soil was performed through large-scale excavation activities using heavy equipment over a six-week period. In addition to numerous other identified contaminants of concern, sections of the unlined drainage ditch were identified to contain elevated concentrations of asbestos.
- **Boardwalk Hotel & Casino, Las Vegas, Nevada:** Project Manager during a pre-implosion asbestos survey associated with 4-story, 6-story, and 16-story hotel buildings. Duties included performing a comprehensive assessment and sampling of suspect ACM to perform a detailed asbestos survey of the interior and exterior of the buildings; performing full-time asbestos abatement air monitoring during asbestos abatement operations, as well as, final visual inspections and air clearances after the asbestos abatement was complete; submitting air samples to an accredited laboratory for analysis; and preparing a comprehensive report, including laboratory and findings, conclusions, and recommendations.
- **University of Nevada Las Vegas (UNLV) - Moyer Student Union Building, Las Vegas, Nevada:** Project Manager during a comprehensive asbestos and LBP survey and preparation of asbestos abatement plans and specifications of a three-story building that was constructed during the early 1960s. Duties included performing a thorough assessment and sampling of suspect ACM and LBP for detailed surveys of the interior and exterior of the buildings; performing full-time asbestos abatement air monitoring during asbestos abatement activities, as well as, final visual inspections and air clearances after the asbestos abatement was complete; submitting air samples to an accredited laboratory for analysis; and preparing a comprehensive report
- **UNLV Solar Technology Center, Boulder City, Nevada:** Project Manager during an Environmental Assessment (EA) for the proposed research, development, educational training, and outreach center for renewable energy and conservation. The EA was prepared in accordance with the National Environmental Policy Act (NEPA). Mr. Jones' duties included review of published federal, state, and local documents concerning the site's cultural, environmental, and physical resources; performance of a site reconnaissance to assess the environmental resources that exist at the site and potential impacts to those resources as a result of the planned site development; and preparation of a final report.
- **Former 5th Street School, Las Vegas, Nevada:** Asbestos/Lead Inspector during an asbestos and lead-based paint survey of six buildings for the purpose of demolition and historical renovation. Mr. Jones' duties included following Asbestos Hazard Emergency Response Act (AHERA) and Housing and Urban Development (HUD) guidelines for the collection of

asbestos bulk samples and X-Ray Fluorescence (XRF)/paint chip samples in each building, visual assessment of surfaces, data interpretation, and preparation of a comprehensive written report. Mr. Jones performed oversight during asbestos and lead-based paint abatement activities.

- **Rebel Oil, Las Vegas, Nevada:** Senior Staff Geologist for this former gasoline station remediation project, which included quarterly groundwater monitoring and injection of hydrogen peroxide into groundwater monitoring wells. Duties included collection of samples of groundwater, injection of hydrogen peroxide solution into selected monitoring wells, compilation of quarterly groundwater monitoring data into a database and quarterly monitoring report, design and oversight of remedial action, coordination of system and well abandonment, and coordination of contractors and project staff.
- **Bonneville Underpass Remediation System, Las Vegas, Nevada:** Project Manager providing environmental consulting services for the Bonneville Avenue underpass remediation system located at the 600 Block of Bonneville Avenue, approximately 500 feet west of Main Street. Mr. Jones performed routine maintenance on the remediation system, conducted the quarterly

Education

B.S., Geology, University of Southern Indiana, Evansville, Indiana, 2003.

Certifications and Registrations

Certified Environmental Manager, NV
Asbestos Consultant: NV, TX, UT
EPA Lead Inspector: NV, AZ
EPA Lead Risk Assessor: NV, AZ,
Certified Mold Consultant: TX
OSHA Hazwoper 40 Hour Certification and 8 Hour Refresher.
OSHA 10 Hour Construction Safety and Health
Thermo Scientific Portable XRF Analyzer Safety Training
Basic First Aid/Adult CPR Training

Affiliations

Member: Nevada Professional Facility Managers Association

Publications

Durbin, James, Jones, Ryan, Anslinger, Brendan, and Danise Guy, 2002, Wesley Chapel Gulf Revisited: Geomorphic Processes Affecting Development of the Alluvial Floor of a Karst Gulf in Orange County, Indiana: Proceedings of the Indiana Academy of Science

Durbin, James M., Orr, Gregory, Jones, Ryan C., 2002, The Stratigraphy and Geomorphology of the Patoka River Valley, Southwestern Indiana: 2002 GSA Denver Annual Meeting, Paper 58-10

Jones, Ryan C. and Durbin, James M., 2003, Effect of Jetties on Erosion Rates Along the Wabash River, New Harmony, Indiana: North-Central Section (36th) and Southeastern Section (51st), 2002 GSA Joint Annual Meeting