

SANDRA RIPPLINGER, CIH, CSP

Education

BS – Occupational and Environmental Health and Safety, Brigham Young University (Provo, Utah), 1987

Professional Licenses

American Board of Industrial Hygiene (ABIH) Certification in the Comprehensive Practice of Industrial Hygiene (CIH No. 7697)

Board of Certified Safety Professional (BCSP) Certification in the Comprehensive Practice of Safety Engineering (SCP No. 22645)

Licensed Asbestos Abatement Consultant, State of Nevada, Department of Business and Industry Occupational Safety and Health Administration (No. IJPM 0025) (1988, Inspector, Management Planner, Project Designer, and Project Monitor)

Specialty Certifications

EPA Accredited Building Inspector, Management Planner, Project Designer, and Contractor/Supervisor under Model Accreditation Plan of the Asbestos Hazard Emergency Response Act (AHERA)

EPA Accredited Lead Based Paint Inspector and Risk Assessor (No. NV-R-403-3) Occupational Safety and Health Administration (OSHA) 40-Hour and 8-Hour Hazardous Waste Operations and Emergency Response (HAZWOPER) Certifications

OHSAS 18001 Lead Auditor (No. E4670)

ISO 14001:2015 Lead Auditor (No. E4885)

Radiation Safety Officer

Visible Emissions Evaluation (Federal Reference Method 9)

Hazardous Waste Operations and Emergency Response (HAZWOPER) 40-hour Initial and 8-hour Refreshers

Mine Safety and Health Administration (MSHA) Surface Miner Initial and 8-hour Refreshers
First Aid/CPR

Professional Affiliations

American Industrial Hygiene Association (AIHA)

Past-President, President-Elect, and Director of the AIHA Nevada Local Section

Indoor Air Quality Association

Professional Experience

Ms. Ripplinger is a Board Certified Industrial Hygienist (CIH) and Safety Professional (CSP) with 33 years of experience providing occupational and environmental health and safety services. Currently serving as the Corporate Health and Safety Director, with experience as an Office Manager and Project Director with SCS's Environmental Health Services Division and based in SCS's Henderson, NV office. Her experience includes providing program management and industrial hygiene expertise

for facility health and safety audits, process safety management audits, training, environmental evaluations involving mold, indoor air quality, asbestos, lead-based paint, lead worker exposure, OSHA worker exposure, ionizing and non-ionizing radiation surveys and exposure issues, and hazardous waste drum sampling for unknowns. Her industrial hygiene and environmental consulting experience includes designing and overseeing remediation projects involving mold, asbestos, hazardous waste (metals and solvents), hazardous materials, polychlorinated biphenyls (PCBs), mercury, and other Resource Conservation and Recovery Act (RCRA) heavy metals; conducting both area and personal industrial hygiene sampling for metals, solvents, vapors, diesel exhaust constituents, mold, asbestos, and lead; conducting environmental sampling of soil, air, and water; and providing expert witness testimony.

Ms. Ripplinger has worked on Department of Defense contracts on the Nevada Test and Training Range and with regulators at local, state, and federal levels, and has performed hundreds of comprehensive industrial hygiene shop surveys, indoor air quality assessments, ionizing radiation, non-ionizing radiation, noise exposure studies, chemical exposure assessments, and workers' compensation and environmental investigations. She has supported many government agencies, large commercial companies (mining, construction, gaming), and residential development companies across the state of Nevada, and other states.

A representative sampling of Ms. Ripplinger's extensive project experience is provided below.

General Dynamic, Nationwide Provide Health and Safety Program Management to include; process safety management, hazard communication program, ammunition and explosives noise assessments, airborne heavy metals evaluations, general safety awareness training, safety program development, personal protective equipment assessments, and industrial hygiene program oversight.

Clark County, NV. During the current and past contracts, Ms. Ripplinger has served as the Principal Certified Industrial Hygienist/Certified Safety Professional providing industrial hygiene, safety, and environmental health services to Clark County, NV. Her duties included managing and performing assessments for an on-call contract for services including environmental evaluations involving mold assessments, remediation protocols, remediation oversight and monitoring, indoor air quality, asbestos, lead-based paint, lead worker exposure, hazardous building materials assessments, ergonomics, noise, training, OSHA complaint investigations, OSHA worker exposure and OSHA worker compensation investigations for Clark County facilities and personnel.

Verallia/St. Gobain/Ardough, Nationwide On-call industrial hygiene and safety services, to include; machine guarding assessments, Powered Industrial Truck Safety (PITs), train-the-trainer sessions, and general industrial hygiene and safety program services.

City of Henderson/College of Southern Nevada, NV. Ms. Ripplinger has served as a Certified Industrial Hygienist/Certified Safety Professional providing industrial hygiene, safety, and environmental health services to the City of Henderson. She has performed indoor air quality, asbestos, lead-based paint, mold, lead worker exposure, hazardous building materials assessments, ergonomics, and noise assessments for various City of Henderson/College of Southern Nevada personnel and facilities.

Walmart Conducted Indoor Air Quality assessments and provided recommendations for a complex warehouse configuration to include Heating Ventilation, and Air Conditioning (HVAC) and local exhaust ventilation system assessments. General area and potential personnel exposure evaluations were included.

Southern Nevada Regional Housing Authority, NV. During the current and past contracts, Ms. Ripplinger has served as the Principal Certified Industrial Hygienist/Certified Safety Professional responsible for conducting indoor air quality, asbestos and mold assessments and monitoring for over 2,000 homes and facilities operated by the Southern Nevada Regional Housing Authority. Assessments include sample collection, data gathering, and submittal to certified laboratories. Remediation/abatement recommendations, contractor oversight, clearance assessments, and all data and information are provided in a final written report.

U.S. Army Corps of Engineers (USACE), Sacramento, CA. Ms. Ripplinger conducts Hazardous Waste Operations and Emergency Response (HAZWOPER) refresher training on a quarterly basis for the USACE Sacramento District. SCS has a 5-year contract to update and provide ongoing training for engineers with HAZWOPER certifications.

Los Angeles Department of Recreation and Parks, Los Angeles, CA. Conducted a microbial assessment, and lead-based paint and asbestos surveys within an abandoned downtown facility slated for demolition. The project included collecting X-ray Fluorescence (XRF) samples for painted surfaces, collecting bulk surface microbial and bulk asbestos samples and submitting them to an accredited laboratory for analysis. Data was evaluated and interpreted, and recommendations were provided in a site assessment and demolition report.

Nevada Test and Training Range (NTTR)/Nevada Test Site (NTS), NV. Certified Industrial Hygienist/Certified Safety Professional providing industrial hygiene, safety, and environmental health services to various organizations at the NTTR, NTS, and associated ranges in Nevada. Duties included OSHA 300 Log maintenance and reporting, accident/injury investigations, soil and water contamination assessments, sample collection, and remediation recommendations. Duties also included managing and performing assessments for ionizing and non-ionizing radiation, indoor air quality, asbestos, lead-based paint, lead worker exposure, hazardous building materials assessments, ergonomics, noise, training, OSHA worker exposure monitoring, and OSHA worker compensation investigations for NTTR/NTS facilities and personnel. Ms. Ripplinger currently holds a DOD TS/SCI Security Clearance.

U.S. Bureau of Reclamation, Hoover Dam, Boulder City, NV. Conducted noise assessments, including sound level surveys and noise dosimetry for personnel working within the facility, and provided associated recommendations and details for a hearing conservation program. Conducted lead-based paint assessments of the turbines and overflow channels. The project included development of lead-based paint abatement plans, sample collection to monitor employees and general areas for airborne lead during remediation activities, and providing clearance sampling upon completion of abatement activities. All project tasks were documented and summarized in a detailed project report.

Southern Nevada Health District, NV. Ms. Ripplinger serves as a Certified Industrial Hygienist/Certified Safety Professional providing industrial hygiene, safety, and environmental health services to the Southern Nevada Health District. She has performed indoor air quality, asbestos, lead-based paint, lead worker exposure, hazardous building materials assessments, and ergonomics assessments for various Southern Nevada Health District projects and personnel.

Regional Justice Center, Las Vegas, NV. Managed and conducted several indoor air quality and microbial assessments in various offices within the Regional Justice Center. Indoor air quality assessments include collecting data for carbon dioxide, carbon monoxide, temperature, relative humidity, and particulates. Visual inspection of various HVAC components and review of maintenance schedules are included as part of the assessments. Asbestos and microbial assessments include visual assessment, data collection (air and/or surface samples, as needed),

building envelope assessment, remediation recommendations, contractor oversight, clearance assessments, and all data and information are provided in a final written report.

Clark County Detention Center, Las Vegas, NV. During the current and past contracts, Ms. Ripplinger has conducted mold assessments and detention center accreditation monitoring activities, including general indoor air quality monitoring, lighting, noise, and ventilation assessments for inmate areas (individual cells, holding cells, day rooms, multi-purpose rooms, dormitory areas, common areas, and restrooms). Assessments include visual inspection of the heating, ventilation, and air conditioning (HVAC) system, data gathering, and comparison to applicable standards, ventilation calculations, and recommendations when necessary. Managed and conducted lead-based paint and asbestos assessments of the 12-story, approximately 475,000-square-foot Clark County Detention Center. Developed and implemented operations/maintenance programs throughout the facility, and conducted environmental surface and air monitoring within the facility.

Spring Mountain Youth Camp, Angel Peak, NV. Principal Certified Industrial Hygienist/Certified Safety Professional during indoor air quality and mold assessments of dormitories and offices within the Spring Mountain Youth Camp youth detention facility in Angels Peak, Clark County, NV. Duties included performing visual reconnaissance to evaluate indoor air quality issues, asbestos and mold assessments, collecting direct reading data and air and/or bulk-surface asbestos and microbial samples and submitting each to a certified laboratory for analysis, and preparing a comprehensive report summarizing field activities, laboratory tests results, and conclusions and recommendations.

Circus-Circus, NV. Ms. Ripplinger serves as a Certified Industrial Hygienist/Certified Safety Professional providing industrial hygiene, safety, and environmental health services to the City of Henderson. She has performed indoor air quality, asbestos, lead-based paint, lead worker exposure, hazardous building materials assessments, ergonomics, noise assessments, and training for various projects and personnel.