

APPENDIX 5.3D

Cultural Resource Resumes



Clint J. Helton, M.A., RPA

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CH2M HILL

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Education

- M.A., major in Anthropology, Brigham Young University, 1996
- B.A., major in Language and Literature, University of Utah, 1994

Training and Certifications

- CEQA Training
- NEPA Training
- Section 106/NHPA Training
- Registered Professional Archaeologist (RPA)
- Federal Antiquities Permit in California, Oregon, Washington, Utah, and Nevada

Areas of Expertise

Mr. Helton has a strong background in environmental impact studies, with specific experience in cultural resources requirements in California, Nevada, and Utah. Mr. Helton has directed technical studies, negotiated with lead agencies, responsible agencies and clients, and has written, edited and produced a substantial number of environmental review and technical documents.

His knowledge of regulatory compliance enables him to manage National Environmental Policy Act (NEPA), National Historic Preservation Act (NHPA) as well as California Environmental Quality Act (CEQA) compliance activities and document preparation. Mr. Helton has more than 9 years of environmental management experience in the western U.S., including his past three years of experience in California. He has authored numerous environmental technical reports, cultural resources studies, Programmatic Agreements, Memorandum's of Understanding, and contributed to many CEQA and NEPA documents for a variety of private and public sector clients.

Over the course of his career, Mr. Helton has honed valuable leadership and managerial skills, having successfully managed numerous on-call contracts, complex projects, and large numbers of staff. Mr. Helton has led many multi-disciplinary teams in support of many complex undertakings such as development of gas and petroleum pipelines, fiber optic cables, highways, utility lines, and land development projects. Mr. Helton possesses particularly strong capabilities in third-party environmental compliance/mitigation monitoring work, having managed several major projects for public utility proponents in Nevada and California, as well as private oil, gas, and technology companies. Mr. Helton is a particularly skilled strategist, and is skillful at running large contracts, delivering quality products on time and within budgets. In the course of his investigations, he has worked with many State and Federal agencies, as well as various Native American Tribal officials.

Mr. Helton is an active member of the Association of Environmental Professionals, Register of Professional Archaeologists, Society for American Archaeology, and American Anthropological Association.

Professional Experience

Project Scientist – CH2M HILL; Santa Ana, California (2005)

Scientist in the Environmental Services group in the Santa Ana office. Responsible for cultural resources services throughout Southwest Region. Also lead teams and contribute to preparation of Environmental Impact Statements and Reports, and other permitting assistance and document preparation. Report to Regional Business Group Manager.

Managing Principal – SWCA Environmental Consultants; Orange County, California (2001-2004)

Promoted from Program Director to Managing Principal of California operations. Responsible for operation of 60-person regional profit center, consisting of three offices in Sacramento, Orange County, and San Diego with. Reported to Regional Vice President Thomas Motsinger.

Cultural Resources Program Director—SWCA Environmental Consultants, Salt Lake City, Utah (2000-2001)

Promoted from Project Manager to Program Director while working with SWCA in the Salt Lake City office. Co-Managed Salt Lake City office, including all day-to-day activities of 35-person cultural resources division. Duties included project management, staff work load leveling, performing QA/QC review, hiring/mentoring staff, and business development. Managed all aspects of cultural resource management activities throughout Utah, Nevada, Idaho, and western Colorado, including marketing, proposal preparation, agency liaison, project management, oversight of personnel and physical resources, local and federal permits, as well as NHPA and NEPA document preparation. Reported to Regional Vice President.

Project Manager—SWCA Environmental Consultants; Salt Lake City, Utah (1998–2000)

Worked as project manager and analyst in the Salt Lake City office, responsible for preparation of environmental documents complying with NEPA and NHPA (Section 106) requirements. Prepared technical and cost proposals and research designs; conducted various aspects of surveys, testing projects, and excavation projects; and prepared reports involving historic and prehistoric resources in Utah and Nevada. Reported to Program Director.

Staff Archaeologist, Baseline Data; Orem, Utah (1996–1998)

Responsibilities include preparation of technical reports, conducting and supervision of various aspects of surveys, testing projects, and excavation projects; and preparing reports involving historic and prehistoric resources in Utah and Nevada.

Instructor, Brigham Young University, Provo, Utah (1995–1996)

Anthropology 312 “Intercultural Communication; Mexico and Central America Emphasis.” Designed curriculum for and taught undergraduate course on culture, history, language, and traditions of Mexicans, Central Americans, and Hispanic-Americans. Course focused on the

need for greater cultural awareness and improved communication between Hispanics and Anglo cultures and improving communication in general between diverse cultural groups.

Instructor, University of Utah; Salt Lake City, Utah (1994–1998)

Art 205, "Wheel-thrown Pottery" Taught course on wheel-thrown ceramics to classes of approximately 30 students.

Teacher, Salt Lake City School District; Salt Lake City, Utah (1991–1994)

Taught Spanish language classes to grades K-6 students. Designed curriculum. Taught English language classes to primarily Hispanic students of grades K-12. Taught students in other subject areas such as science and history when needed.

Select Project Experience

Deputy Project Manager, AES Pacific Inc., Highgrove Power Plant Project; California (2005): Co-managing preparation of Application For Certification from California Energy Commission for proposed power generation facility. Responsible for preparation of cultural resources component of project, as well as an interdisciplinary team of environmental specialists including archaeologists, biologists, and paleontologists. *Client: AES Pacific Inc. Client Contact: Confidential.*

Project Manager, Sacramento Municipal Utility District (SMUD) Cosumnes Power Plant and Gas Pipeline Project, Environmental Compliance; Sacramento, California (2003-2004): Managed interdisciplinary team of over 20 environmental specialists including archaeologists, biologists, and paleontologists during construction of 26-mile gas pipeline and associated power generation plant. Contract value was over \$2.0 million. *Client: Sacramento Municipal Utility District. Client Contact: Sacramento Municipal Utilities District; Kevin Hudson, 916.732.7101.*

Project Manager, 700-mile Kern River Pipeline Expansion Project; Utah, Nevada, and California (2002-2003): Managed major cultural resources services contract with Williams Energy, in support of the 700-mile Kern River Pipeline Expansion Project, traversing Utah, Nevada, Wyoming, and California. Individually sought by Williams Energy to provide regulatory guidance, regional technical expertise in cultural resources and project management support, as well as to provide leadership as the project's agency and subcontractor liaison, given the projects size, complexity, multi-state and multi-jurisdictional challenges and aggressive schedule. Assisted from project initiation with facilitation of project Programmatic Agreement and led coordination meetings with stakeholder agencies and permitting authorities in California, Utah, Nevada, and Wyoming. Coordinated the activities of three sub-consultants as well as the support of SWCA's regional offices and technical contributors. Played major role in the development of treatment plans to mitigate impacts to a large number of National Register eligible cultural sites. Contract value was over \$3.0 million. *Client: Ecology and Environment (Prime) and Williams Energy/Kern River Gas Transmission Company. Client Contact: Williams Energy; Jim Bloemker, 713.215.2656.*

Project Principal/QC Manager, Talega Residential Housing Development, Archaeological and Paleontological Compliance, Data Recovery, and Compliance Monitoring, San Clemente,

California (2001-2004): Acted as Project Principal for multi-disciplinary team providing environmental compliance services for this 3,700-acre home development in San Clemente. Assisted with frequent agency consultation with Army Corps of Engineers. Worked with Project Manager and supporting scientists to ensure adequate staffing and production of high-quality reports. Contract value was over \$1.5 million. *Client: Talega Associates. Client Contact: Talega Associates; Glen Land, 949.498.1366.*

Project Principal/QC Manager, Dayton Canyon Estates Development; San Clemente, California (2001-2004): Acted as Project Principal for multi-disciplinary team providing environmental compliance services for this 3,700-acre home development in San Clemente. Assisted with frequent agency consultation with Army Corps of Engineers. Worked with Project Manager and supporting scientists to ensure adequate staffing and production of high-quality reports. Contract value was over \$2.0 million. *Client: Sun Cal Companies. Client Contact: Sun Cal Companies; Ed Pickett, 818.348.3033.*

Project Principal /QC Manager, Western Area Power Administration, Transmission Line Project; Imperial County, California (2003-2004): Provided overall management of cultural resources services for the Parker-Blythe #1 161-kV transmission line project. The inventory extended from Blythe, California to Parker, Arizona. A total of 147 sites (136 in California and 11 in Arizona) were recorded. *Client: Western Area Power Administration.*

Project Principal /QC Manager, Williams Pipeline, Rockies Expansion Pipeline Construction; Idaho and Wyoming (2003): Provided overall management of cultural resources and paleontological resources compliance monitoring services for the Rockies Expansion pipeline construction project. *Client: Williams Pipeline.*

Project Manager, Level III Communications Fiber Optic Line; Salt Lake to Las Vegas, Nevada (2001): Managed multi-phased contract for this major interstate utility project. Managed cultural resources surveys of project ROW, cultural resources monitoring during construction, major data recovery excavations of significant archaeological sites, and production of multi-volume final technical report production for this large project. Contract value was over \$4.0 million. *Client: Level III.*

Project Manager, Adesta Communications Fiber Optic Project; Grand Junction, Colorado to Salt Lake City, Utah (2000): Managed all aspects of cultural resources compliance for the 260-mile project. Assisted with preparation of EA for NEPA compliance. Project development; agency coordination; management of project budget and staff; supervision of field crews; identification and recordation of historic and prehistoric resources; laboratory analysis; report preparation. Contract value was over \$1.0 million. *Client: Adesta Communications.*

Project Manager, Sierra Pacific Power Company, 3rd-Party Environmental Compliance, 630-Mile Silver State East Fiber Optic Project; Salt Lake City, Utah to Reno, Nevada (2000): Managed multi-phase contract to provide staff support to Bureau of Land Management during preparation of POD and NEPA document, as well as well as third-party environmental compliance activities during construction of the 590-mile Silver State East Fiber Optic Project

by Sierra Pacific Power Company. Led agency coordination, management of project budget and staff, assisted with resource data extraction from agency archives. Assisted with development of MOU, Project Charter, Programmatic Agreement, and public scoping process. During 14 month construction process, managed team of 25 cultural and biological resources environmental compliance monitors and acted as point of contact for BLM and Sierra Pacific Power Company. Contract value was over \$2.0 million. *Client: Sierra Pacific Power Company and Bureau of Land Management. Client Contact: Steve Siegel; 775-834-4429.*

Project Principal and Manager, Army National Guard Cultural Resources Support Contracts; Utah (2002-2003): Managed sole-sourced cultural resources services from Army National Guard for all of its 29 facilities within the State of Utah. Primary goal was to assist National Guard with bringing facilities into compliance with Section 106 of NHPA. Managed archaeological survey, testing, and data recovery projects. Assisted with Native American consultation. Authored an Integrated Cultural Resources Management Plan (ICRMP) to assist the Guard in complying with Department of Defense Instructions 4715.3 and Army Regulation 200-4. *Client: Army National Guard. Client Contact: Army National Guard; Paul Graham, Environmental Coordinator 801.523.4452*

Program Manager, United States Army Dugway Proving Ground, Cultural and Biological Resources Services (2001-2002): Program Manager for a 3-year on-call contract to supply cultural and biological resources services to the United States Army's Dugway Proving Ground. Served as primary point of contact for the facility's environmental lead official. Assisted facility staff with cultural resources compliance activities, including cultural resources inventories in harsh and sometimes dangerous conditions within areas known to contain UXO's and other potential hazards. Completed required background checks, safety training, range training, and other required training and preparation to work on the sensitive facility. Led crews on several large inventories within this expansive training facility in Utah's West Desert. Maintained constant communication with Range Control and base staff to avoid conflict with range training activities, while performing the required inventories. *Client: Agiess Environmental (Prime) and Dugway Proving Ground.*

Project Manager, United States Army Deseret Chemical Depot, Cultural Resources Services (2001): As Principal Investigator for a large multi-phased cultural resources investigation of the United States Army's Deseret Chemical Depot, led initial survey design and sampling plan to determine the presence, distribution, type, and significance of cultural resources located at this sensitive chemical weapons facility. *Client: CH2MHill (Prime) and Deseret Chemical Depot.*

Project Principal/QC Manager, Questar Pipeline Company, Mainline 104 Pipeline Project (2001): Managed cultural resources component of SWCA's contract to Questar Pipeline Company in support of the Mainline 104 natural gas pipeline project, 75 miles of 24-inch-diameter natural gas pipeline from Price to Elberta, Utah, across Carbon, Emery, Sanpete, and Utah Counties, including the Manti-LaSal and Uinta National Forests, BLM, state, and private lands. Conducted cultural resources inventory. Responsible for monitoring compliance with various resources treatment plans and responding to any unanticipated discoveries or

inadvertent non-compliance incidents that affect cultural resources. Coordinated with officials from BLM, State Trust Lands, USDA Forest Service, and SHPO.

Project Manager, Qwest Fiber Optic Project; Environmental Assessment; Cove Fort, Utah (2000): Managed preparation of Environmental Assessment for NEPA compliance. Also prepared required technical report for cultural resources. Project development; agency coordination; management of project budget and staff; supervision of field crews; report preparation. *Client: Qwest.*

Project Manager, Williams Communications, 3rd-Party Environmental Compliance, I-80 Fiber Optic Project; Nevada and Utah (2000): Managed third party construction compliance monitors and representatives of the BLM; ensured that compliance monitors, contractors, and construction crews met the requirements described in the projects construction stipulations, permits, and right-of-way grant. Primary liaison to client, BLM; agency coordination; management of project budget and staff; supervision of field crews; report preparation. *Client: Williams Communications.*

Project Manager, Williams Pipe Line Project; Thompson to Salt Lake City, Utah (1998-2002): Managed all aspects of cultural resources compliance for the 260-mile pipeline, including project development, agency coordination, management of project budget and staff, supervision of field crews, identification and recordation of historic and prehistoric resources, laboratory analysis, artifact curation, and report preparation. *Client: Williams Pipeline Company.*

Project Manager, Kennecott Rawhide Mine, On Call Cultural Resources Services; Fallon, Nevada (1998): Project development, management of project budget, agency liaison, supervision of field crews and report preparation for over 1200 acres of multiple cultural resources inventories. *Client: Kennecott Rawhide Mining Company.*

Project Manager, Questar Gas Pipeline Company Dog Valley Pipeline Project; Panguitch, Utah (1998): Survey and recordation of 37 historic and prehistoric sites; supervision of field crews; laboratory analysis; artifact curation; report preparation. *Client: Questar Gas Pipeline Company.*

Additional Cultural Resources Experience

Field Director, Excavation of 42SI 230; Salt Lake City, Utah (1998): Directed large excavation at the Salt Lake International Airport. Participated in laboratory analysis of ceramic, lithic, and bone artifacts. *Employer: Baseline Data. Client: Salt Lake City International Airport Authority.*

Field Director, Legacy West Davis Highway Excavation Project; Salt Lake City, Utah (1997): Directed field excavation of 42Dv 2 Archaic to Late Prehistoric site. Twelve-week test pitting phase included over 60 2 x 2 meter test pits. Consulted and participated with local Native American Tribal representatives. Laboratory analysis of ceramic, lithic, and bone artifacts. Contributed to final report. *Employer: Baseline Data. Client: HDR Engineering (Prime) and Utah Department of Transportation.*

Field Director, Legacy West Davis Highway Survey and Testing project; Salt Lake City, Utah (1997): Directed Class III inventory of historic and prehistoric resources and implemented innovative sub-surface auger testing. Contributed to final report. *Employer: Baseline Data. Client: HDR Engineering (Prime) and Utah Department of Transportation.*

Crew Chief, River Gas Survey and Subsurface Testing Project; Price, Utah (1996–1997): Supervised Class III inventory and historic and prehistoric site recording. Performed laboratory analysis of ceramic, lithic, and bone artifacts. Contributed to final report. *Employer: Baseline Data. Client: River Gas Company.*

Crew Chief, Salt Lake City International Airport Test Excavation; Salt Lake City, Utah (1996–1997): Ten-week excavation of site 42SI 230, an Archaic, Fremont, and Late Prehistoric site. Supervised excavation of over 40 test pits. Performed laboratory analysis of ceramic, lithic, and bone artifacts. Contributed to final report. *Employer: Baseline Data. Client: Salt Lake City International Airport Authority.*

Crew Chief, Central Telephone Fiber Optic Project; Salt Lake City, Utah (1996): Directed Class III survey, and authored final report. *Employer: Baseline Data. Client: Central Telephone.*

Surveyor, Regional Class III Surveys; Regional, Utah (1996–1998): Pedestrian surveys for various projects in the Wasatch Mountains and valleys and the Colorado Plateau. *Employer: Baseline Data. Client: Various.*

Other Related Experience

Student, Nakbé Archaeological Project (RAINPEG); Petén, Guatemala (1996): Discovered and mapped previously undocumented sites and sampled material culture around the Maya site of Nakbé in the El Mirador Basin located in Northern Petén of Guatemala under Dr. Richard Hansen of UCLA, Director. Co-authored final publication.

Student, Fish Lake Archaeological Project/BYU Field School; Fish Lake, Utah (1995): Participated in an eight-week excavation of Archaic, Fremont, and Prehistoric sites in central Utah. Participated with local Native American Paiute Tribal consultants.

Volunteer Campus Representative, International Center, University of Utah; Salt Lake City, Utah (1993-1994): Promoted intercultural experiences through participation in study abroad programs and cultural awareness activities for student body. Acted as representative during campus-wide information sessions and International Center sponsored activities.

President/Founder, Graduate Student Organization (GSO), Department of Anthropology, Brigham Young University; Provo, Utah (1995–1996): Formed a student group concerned with promoting interest in anthropology, academic success, and professional opportunity. Participated in bringing distinguished speakers and other local and national scholars and professionals to the University. Provided a communication link between faculty and graduate students in the Department of Anthropology.

Third-Party Environmental Compliance/Mitigation Monitoring Experience Supporting Major Construction Projects

- Project Manager, Cosumnes Power Plant and Gas Pipeline Project, Sacramento Municipal Utility District
- Project Manager, Level III Fiber Optic Project, Level III
- Project Principal/QC Manager, Talega Housing Development, Talega Associates
- Project Manager, Silver State East Fiber Optic Project, Sierra Pacific Power Company
- Project Manager, I-80 Fiber Optic Project, Williams Communications
- Project Manager, Questar Mainline 104 pipeline loop, Questar Pipeline Company

Permits Held

| | <i>Title on Permit</i> | <i>Geographic Area</i> | <i>Year Permitted</i> | <i>Issuing Agency</i> |
|----------------------------|--|------------------------|-----------------------|--|
| Clint J. Helton, M.A., RPA | Registered Professional Archaeologist | Nationwide | 1999 | Register of Professional Archaeologists |
| Clint J. Helton, M.A., RPA | ARPA Permit—Project Director (Statewide), California Bureau of Land Management Cultural Resource Use Permit | California | 2004 | California State Office of Bureau of Land Management |
| Clint J. Helton, M.A., RPA | Field Director (Statewide), Nevada State Antiquities Permit | Nevada | 1998 | State of Nevada, Nevada State Museum |
| Clint J. Helton, M.A., RPA | ARPA Permit--Project Director, Historic/Prehistoric (Statewide), Nevada Bureau of Land Management Cultural Resource Use Permit | Nevada | 1998 | Nevada State Office of Bureau of Land Management |
| Clint J. Helton, M.A., RPA | Principal Investigator, Utah State Antiquities Permit | Utah | 1998 | State of Utah, Division of State History |
| Clint J. Helton, M.A., RPA | ARPA Permit--Project Director (Statewide), Utah Bureau of Land Management Cultural Resource Use Permit | Utah | 1998 | Utah State Office of Bureau of Land Management |
| Clint J. Helton, M.A., RPA | ARPA Permit—Project Director (Statewide), Oregon/Washington Bureau of Land Management Cultural Resource Use Permit | Oregon | 2004 | Oregon State Office of Bureau of Land Management |
| Clint J. Helton, M.A., RPA | ARPA Permit—Project Director (Statewide), Oregon/Washington Bureau of Land Management Cultural Resource Use Permit | Washington | 2004 | Oregon State Office of Bureau of Land Management |

Professional Affiliations and Committees

- Association of Environmental Professionals
- Register of Professional Archaeologists
- Society for American Archaeology
- American Anthropological Association
- Member, Utah Professional Archaeological Council
- Member, Wyoming Association of Professional Archaeologist

Professional References

Sacramento Municipal Utility District (SMUD)
6201 S Street, Sacramento, CA 95817
Kevin Hudson, Compliance Manager
916-732-7101

Williams Energy
2800 Post Oak Blvd. Houston, Texas 77056
James Bloemker, Archaeologist/Permitting
Specialist
713-215-2656

Aaron Fergusson, R.P.A.

Project Planner

Education

M.B.A, Business Administration, University of Phoenix, Las Vegas, NV Campus, 2004

M.A., Anthropology with an emphasis in Archaeology, Brigham Young University, UT, 2000

B.A., Anthropology with an emphasis in Archaeology, Brigham Young University, UT, 1996

Professional Registrations

Registered Professional Archaeologist (2000)

Distinguishing Qualifications

- Experienced in cultural resource management and National Historic Preservation Act consultation
- Experienced in National Environmental Policy Act (NEPA) analyses
- Meets Secretary of Interior's Professional Qualification Standards in Archeology
- Excellent experience developing and implementing a variety of projects and budgets
- Capabilities in managing the logistics of personnel and resources
- Trained in and knowledgeable of GIS software and GPS capabilities

Relevant Experience

The rare combination of environmental technical training and experience and a Master's in Business Administration allows for strong and defensible project delivery on-time, on-budget, every time. Aaron is an experienced manager capable of critical and creative problem solving offering a well-rounded background in project management, cultural resource management and National Historic Preservation Act (NHPA) consultation, and National Environmental Policy Act (NEPA) analyses.

Representative Projects and Dates of Involvement

Market Segment Projects

Field Supervisor; Ivanpah Solar Energy Project; Bright Source Energy; San Bernadino County, CA; April 2007 to October 2007. Served as the cultural resources technical lead for field surveys of over 4,000 acres for a proposed 400 MW solar generation facility. Selected and supervised field personnel, oversaw conditions of permits, coordinated the logistics, and contributed to reporting to state and federal agencies.

Experience Prior to CH2M HILL

Task Manager; AEC Programmatic Agreement Review; U.S. Army Environmental Center; December 2006 to February 2007. Reviewed the Programmatic Agreements that have been prepared through the Army Environmental Center for installations located throughout the country. The task was to review the comments and identify patterns of issues that continuously make the documents technically or legally insufficient.

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In-House Consultant; Natural Resource Group; May 2006 to August 2006. Mr. Fergusson's unique skillset made him a valuable consultant to a company specializing in the permitting and licensing of energy related pipelines and facilities. Mr. Fergusson supervised the progress of field crews, reviewed technical reports, and conducted Native American consultations for a number of pipelines across the country.

Assistant Project Manager; Price Field Office Resource Management Plan/EIS, Bureau of Land Management Price Field Office; Price, UT; May 2005 to February 2007. Mr. Fergusson served as assistant project manager responsible for planning and delegating hours, tracking the budgets of each task, preparing the monthly status report to the client, and preparing the invoice. In addition, Mr. Fergusson managed the schedule to meet deliverables to the client and kept team members informed of the progress. In a technical position, Mr. Fergusson oversaw the cultural resources sections of the document and authored Chapter 2 of the Final EIS.

Task Manager; Kanab Field Office Resource Management Plan/Environmental Impact Statement; Bureau of Land Management Kanab Field Office; Kanab, UT; July 2005 to October 2006. Mr. Fergusson developed the cultural resources section of the Analysis of the Management Situation for the RMP/EIS. Conducted a file search with the SHPO and summarized the results and integrated the results of a literature review for the document.

Task Manager; March Air Force Base Programmatic Agreement; U.S. Air Force Real Property Agency; Sacramento, CA; June 2005 to October 2005. March AFB was realigned/closed in 1996 pursuant to the Defense Base Realignment and Closure Act of 1990. The Air Force Reserve Command retained a cantonment area, and the Air Force Real Property Agency (AFRPA) is in the process of conveying the remainder of the property to the local community and needs to complete consultation requirements under Section 106 of the National Historic Preservation Act before it can be transferred. The Air Force initiated consultation with the Californian SHPO, the March Joint Powers Authority, and the City of Riverside, California in the preparation of a Programmatic Agreement (PA) to ensure no adverse effects to historic properties will occur. Mr. Fergusson participated in the initial consultation meetings between the AFRPA and the California SHPO. In addition, he updated the PA to reflect recent changes in the requirements and drafted letters requesting the participation of the Advisory Council on Historic Preservation and the relevant Native American tribes.

Project Manager; Southern Nevada Regional Heliport Environmental Assessment; Ricondo & Associates (Prime contractor to Clark County Department of Aviation); Las Vegas, NV; 2003 to 2004. Mr. Fergusson worked with another contractor on the development of the Environmental Assessment for the identification of the preferred location of the regional heliport. Mr. Fergusson managed portions of the initial feasibility studies as well as the cultural resources (Section 4f) issues.

Task Manager; Desert National Wildlife Refuge Complex Comprehensive Conservation Plan/Environmental Impact Statement; U.S. Fish and Wildlife Service; Las Vegas, NV; 2003 to 2004. Mr. Fergusson served as the Cultural Resources technical lead in the preparation of a cultural resources overview and synthesis of the known archaeological data for the over 1.5 million acre Complex. The document reviewed the existing archaeological data, identified archaeological and historic themes that are common on the Complex, and made management recommendations regarding the needs for future data gathering, and created a context for the evaluation of future cultural resources on the Complex. The project also required the creation of

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a GIS database that contained the location of, and information about, every cultural resource within the Complex. In addition, Mr. Fergusson assisted the staff with the Native American consultation that included the seventeen tribes that make up the Consolidated Group of Tribal Organizations in southern Nevada.

Project Manager; Lassen Volcanic National Park and Whiskeytown National Recreation Area Pre-Burn Surveys; U.S. Park Service Northern California Sub-Cluster of Parks; 2004. Managed the cultural resources inventory of highly sensitive areas of Lassen Volcanic National Park and the Whiskeytown National Recreation Area prior to the controlled burning of overgrowth of the forest. Managed the technical aspects of the project and supervised the report preparation.

Project Manager; Winter Creek Homes Development; GLS Realty Advisors; Truckee, CA; 2004. Managed the cultural resources evaluations for a new housing development in Truckee, CA. Worked with the client and community to address the historic cultural resources found on the property.

Project Manager; Death Valley National Park Cultural Resources Overview; U.S. Park Service Death Valley NP; 2003-2004. Worked with another contractor to manage and lead the preparation of the Cultural Resources Overview for Death Valley National Park. Worked closely with the Park Service archaeologist to use their database and developed the historic resources section of the document.

Project Manager; Clark County Regional Flood Control District EIS; Clark County Regional Flood Control District; Las Vegas, NV; 2003-2004. Mr. Fergusson managed the cultural resources needs for the final document and served as Project Manager over the final phases of the project, including the preparation of a web-based GIS tool allowing for the preparation of basic environmental documents for flood control facilities.

Project Manager; Summerlin Village Cultural Resources Survey; G.C. Wallace (Prime contractor to Howard Hughes Corporation); Las Vegas, NV; 2004. Mr. Fergusson managed the cultural resources survey of 5,000 acres of undeveloped land on the west side of the Las Vegas Valley. Upon completion the report was successfully submitted to the Army Corps of Engineers and the Nevada State Historic Preservation Office. As a result of the inventory, it was determined the additional Native American consultation was required as well as a treatment plan to mitigate adverse impacts to cultural resources from the planned development.

Project Manager; Kern River 2003 Expansion Project; Kern River Gas Transmission Company; Utah (statewide); 2001 to 2004. Mr. Fergusson managed the Kern River cultural resources mitigation project in Utah. Kern River Gas Transmission Company found it necessary to loop an existing natural gas line with a new 36 inch natural gas pipeline to fuel new power plants in California. The pipeline began in Wyoming and stretched nearly 700 miles to California, crossing Utah and Nevada. Utah contained over 160 significant archaeological sites that required mitigation. Mr. Fergusson successfully negotiated a multi-million dollar budget, carried out the fieldwork on time and under budget, and supervised the lab work and report production. Elements of the mitigation included excavation, construction monitoring, reconnaissance inventory of new work areas, synthesis reports, popular reports for public distribution, specialized archaeological analyses of artifacts, and numerous technical reports and presentations.

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Project Manager; Manning Canyon Inventory; Bureau of Land Management Salt Lake Field Office; Utah County, UT; 2003. Mr. Fergusson successfully bid and managed the Manning Canyon Cultural Resources Inventory project through the Salt Lake Field office of the BLM. Mr. Fergusson lead the effort to inventory the property, make management suggestions to the BLM on the preservation or mitigation of significant cultural resources, and produce the final report, which was approved by both the BLM and the Utah State Historic Preservation Office.

Project Manager; Rough Haul Road Inventory; Ageiss Environmental (Prime contractor to U.S. Army Dugway Proving Ground); Tooele County, Utah; 2001. Managed the Class III inventory of a 13 mile road corridor used for training on base.

Project Manager; Granite Cross Country Maneuver Area; Ageiss Environmental (Prime contractor to U.S. Army Dugway Proving Ground); Tooele County, Utah; 2001. Managed the Class III inventory of 3,050 acres for a proposed maneuver area.

Project Manager; White Lakes Water Line; C Bar Cattle Company; Box Elder County, Utah; 2001. Managed and conducted the Class III inventory of 80 miles of water pipeline, and participated in consultation with local government and interested parties.

Project Manager; UDOT Two Intersections; Utah Department of Transportation Region 4; Garfield and Sevier Counties, Utah; 2001. Oversaw and conducted the Class III inventory and testing of eligibility of sites for proposed intersection upgrades.

Project Manager; SR 6 Passing Lanes; Utah Department of Transportation Region 4; Carbon and Emery Counties Utah; 2001. Oversaw and conducted the Class III inventory for proposed passing lanes on SR 6.

Project Manager; Various Fiber Optic Projects; South Central Communications; Garfield, Paiute, and Sevier Counties, Utah; 2001. Oversaw and conducted the Class III inventory for several proposed fiber optic lines on UDOT, SITLA, and private lands.

Field Supervisor; Tooele Mid-Valley Highway Project; Tooele County, Utah 2000. Conducted the Class III inventory for the proposed Mid-Valley Highway on the Tooele Army Depot.

Field Supervisor; Green Peaks Quarry; Interstate Rock Products; Box Elder County, Utah; 2000. Conducted the Class I and III inventory for several proposed rock quarries near Park Valley.

Field Supervisor; Pagus Pipeline; Northwest Pipeline; Wyoming and Idaho; 2000. Participated in the Class III inventory of proposed loops for a gas pipeline in southwestern Wyoming and southeastern Idaho.

Field Supervisor; Adesta Communications Fiber Optic Project; Adesta Communications; Utah/Colorado; 2000. Conducted the Class III inventory of sections of a proposed fiber optic route from the Utah/Colorado Border to I-80 in Utah Department of Transportation Rights-of-Way.

Field Supervisor; Various CBM Gas Projects; River Gas Corporation; Carbon and Emery Counties, Utah; 2000. Participated in the inventory of well pads and access corridors within Castle Valley.

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Archaeologist; Various Oil Well Projects; Shenandoah Energy, Inc.; Uintah County, Utah; 2000. Participated in the inventory of well pads and access corridors in the Red Wash area.

Archaeologist; Various Well Pad Projects; Inland Resources; Duchesne County, Utah; 2000. Participated in a 60-acre block inventory of explorations drilling area, near Roosevelt.

Archaeologist; Adesta Communications Fiber Optic Project; Michael Baker, Jr.; Eastern Utah; 2000. Participated in a 120+ mile linear inventory for a fiber optic line along I-70 and Highway 6 in Utah Department of Transportation Rights-of-Way.

Archaeologist; Inland Resources Various Well Pad Projects; Inland Resources; Duchesne County, Utah; 1999. Participated in an 80-acre block inventory of an explorations drilling area, near Roosevelt.

Archaeologist; Centex Homes Development; Centex Homes; Reno, Nevada; 1999. Participated in a 15-acre block inventory for a proposed housing development.

Archaeologist; Lumos Development; Lumo, Inc.; Reno, Nevada; 1999. Participated in an 80-acre block inventory for a proposed housing development in Reno.

Archaeologist; Adesta Communications Fiber Optic Project; Utah Department of Transportation; Utah; 1999. Participated in a seven-mile linear inventory along I-70 from Floy to Cresenct Junction, Utah.

Archaeologist; BLM Burn Project; Bureau of Land Management, Fillmore Field Office; Juab County, Utah; 1999. Participated in a 2,000-acre block inventory and testing for site eligibility in a recent burn area.

Archaeologist; BLM Burn Project; Bureau of Land Management, Fillmore Field Office; Juab County, Utah; 1999. Participated in a 3,000-acre block inventory and testing for site eligibility in a recent burn area.

Archaeologist; CBM Well Project; Anadarko Petroleum Corporation; Carbon and Emery Counties, Utah; 1999. Participated in a 40-acre block inventory for CBM wells.

Archaeologist; E.I.S./BLM Land Exchange; E.I.S.; Carbon County, Utah; 1999. Participated in a 40-acre block inventory for a proposed BLM land exchange, near Kenilworth.

Crew Chief; Capitol Reef National Park Testing; Capitol Reef National Park; Utah; 1998. Participated in extensive site testing within the park boundaries.

Crew Chief; Trax Mitigation; Utah Transportation Authority; Salt Lake City, Utah; 1998. Participated in an excavation of a Fremont site along the Light Rail line in downtown Salt Lake City.

Crew Chief; Sand Hollow Mitigation; Washington County Water Conservancy District; Hurricane, Utah; 1998. Participated in excavations of sites prior to the construction of a reservoir, near Hurricane.

Crew Chief; Capitol Reef National Park Inventory; Capitol Reef National Park; Utah; 1998. Participated in a systematic inventory of approximately 4,500 acres in the central one-third of the park, Utah.

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Archaeologist; Broken Arrow Cave Excavations; Bureau of Land Management; Utah; 1997. Participated in excavations of a sheltered Archaic site prior to a land exchange, near Page, Arizona in Utah.

Crew Chief; Jay's Place Excavations; Privately funded research project through Brigham Young University; Utah County, Utah; 1997. Participated in an excavation of a Fremont structural site in West Canyon.

Crew Chief; Lampstand Ruins Excavations; Bureau of Land Management; Utah; 1997. Participated in an excavation and extensive mapping of an open Kayenta Anasazi structural site in the Grand Staircase-Escalante National Monument, Utah.

Crew Chief; Capitol Reef National Park Inventory; Capitol Reef National Park; Utah; 1997. Participated in a systematic inventory of approximately 4,500 acres and testing in the northern one-third of the park.

Crew Chief; Kay's Cabin Excavations; Privately funded research project through Brigham Young University; Utah County, Utah; 1996. Participated in an excavation of a Fremont structural site south of Goshen.

Crew Chief; Capitol Reef National Park Inventory; Capitol Reef National Park; Utah; 1996. Participated in a systematic inventory of approximately 4,500 acres and testing in the southern one-third of the park.

Student Archaeologist; Brigham Young University, Department of Anthropology Field School; USDA Forest Service; Fishlake, Utah; 1995. Participated in a two-month excavation of a late archaic, high altitude structure.

Professional Organizations/Affiliations

Register of Professional Archaeologists (RPA)

Member, Society of American Archaeology (SAA)

Member, Nevada Archaeological Association (NAA)

Member, Utah Professional Archaeological Council (UPAC)

Member, Utah State Historical Society (USHS)

Den Leader of Cub Scouts in the Boy Scouts of America

Honors and Awards

1996 Brigham Young University Undergraduate Research and Creative Work Award

Specialized Computer Skills

Microsoft Office Suite, including Access

GIS software: ArcView 3.1

GPS capabilities: Trimble GeoXT with ArcPad

Aaron Fergusson, R.P.A.

Professional Development

Completed PSMJ's Project Manager Bootcamp

Received Mandeville Technique Business Development training

Publications and Presentations

Fergusson, Aaron and Anne DuBarton

2004 Desert National Wildlife Refuge Complex Comprehensive Conservation Plan and Environmental Impact Statement Cultural Resources Overview. SWCA Cultural Resource Report No. 04-164. SWCA Environmental Consultants, Las Vegas, Nevada.

Fergusson, Aaron and David Brunzell

2004 Cultural Resources Investigations of the Lassen National Park, California. SWCA Cultural Resource Report No. 04-211. SWCA Environmental Consultants, Las Vegas, Nevada.

Fergusson, Aaron and David Brunzell

2004 Cultural Resources Investigations of the Whiskeytown National Recreation Areas, Shasta County, California. SWCA Cultural Resource Report No. 04-210. SWCA Environmental Consultants, Las Vegas, Nevada.

Fergusson, Aaron

2004 "Mitigating Pipes: Summary and Self-Critique." Paper presented at the Society for American Archaeology 69th Annual meetings in Montreal, Canada.

Fergusson, Aaron

2003 Heritage Resources Inventory of a 40-acre Parcel for the Proposed Winter Creek Homes Development, Nevada County, CA. SWCA Cultural Resources Report No. 03-049. SWCA Environmental Consultants, Las Vegas, Nevada.

Fergusson, Aaron and Anne DuBarton

2003 Archaeological Investigations of Nine Sections in the Summerlin West Development Project, Las Vegas, Nevada. SWCA Cultural Resources Report No. 03-246; SWCA Environmental Consultants, Las Vegas, Nevada.

Fergusson, Aaron

2001 Class III Cultural Resource Inventory and Limited Testing of Utah Department of Transportation's Proposed Two Intersection Upgrades, in Sevier and Garfield Counties, Utah. SWCA Cultural Resource Report No. 01-137. SWCA Environmental Consultants, Salt Lake City, Utah.

Fergusson, Aaron

2001 Class III Cultural Resource Inventory of C Bar Cattle Company's Proposed White Lakes Water Line, in Box Elder County, Utah. SWCA Cultural Resource Report No. 01-149. SWCA Environmental Consultants, Salt Lake City, Utah.

Fergusson, Aaron

Aaron Fergusson, R.P.A.

2001 A Cultural Resource Inventory of the 2100 South Reconstruction Project, Salt Lake County, Utah. SWCA Cultural Resource Report No. 01-138. SWCA Environmental Consultants, Salt Lake City, Utah.

Fergusson, Aaron

2001 Class III Cultural Resource Inventory of South Central Communication's Proposed Fiber Optic Cable Project from Bryce Canyon to Escalante, Garfield County, Utah. SWCA Cultural Resource Report No. 01-132. SWCA Environmental Consultants, Salt Lake City, Utah.

Fergusson, Aaron

2000 Class III Cultural Resource Inventory of the Proposed Adesta Communications Fiber Optic Cable in Grand, Emery, Carbon, Wasatch, Utah, and Salt Lake Counties, Utah. SWCA Cultural Resources Report No. 00-201. SWCA Environmental Consultants, Salt Lake City, Utah.

Fergusson, Aaron

2000 Class III Cultural Resource Inventory for Adesta Communications Bangerter Highway to I-80 Fiber Optic Project in Salt Lake County, Utah. SWCA Cultural Resources Report No. 00-204. SWCA Environmental Consultants, Salt Lake City, Utah.

Fergusson, Aaron

2000 Aspen Shelter Projectile Points: A Regional Perspective. Unpublished Masters Thesis, Brigham Young University. 2000.

Fergusson, Aaron

2000 "Anasazi Health and Nutrition". In *Of Earth, Stone, and Corn: The Anasazi and Their Puebloan Descendants*, edited by Marti Lu Allen and Shane A. Baker, pp 45-68. Museum of Peoples and Cultures: Popular Series 2, Provo, Utah.

Senulis, John and Aaron Fergusson

2000 An Intensive Cultural Resource Survey and Inventory of a Proposed Access Corridor by the Wattis Road in the River Gas Coal Methane Field. SPUT-328. SENCO-PHENIX Archeological Consulting Services, Price, Utah.

Senulis, John and Aaron Fergusson

2000 An Intensive Cultural Resource Survey and Inventory of the Utah #01-246, USA #03-249 & the USA #03-442 Well Pads and Access Corridors in the River Gas Coal Methane Field. SPUT-330. SENCO-PHENIX Archeological Consulting Services, Price, Utah.

Senulis, John and Aaron Fergusson

2000 An Intensive Cultural Resource Survey and Inventory of the USA #11-441, USA #23-467, USA #23-468, USA #26-481, & USA #26-482 Well Pads and Access Corridors in the River Gas Coal Methane Field. SPUT-334. SENCO-PHENIX Archeological Consulting Services, Price, Utah.

Senulis, John and Aaron Fergusson

Aaron Fergusson, R.P.A.

2000 An Intensive Cultural Resource Survey and Inventory of the Utah #06-483 Well Pad and Access Corridor in the River Gas Coal Methane Field. SPUT-336. SENCO-PHENIX Archeological Consulting Services, Price, Utah.

Fergusson, Aaron and Scott Billat

1999 A Cultural Resource Inventory of a Ski Underpass Structure on Hwy 153 for the Elk Meadows Ski Resort, Beaver County, Utah. JBR Cultural Resource Report 99-40. JBR Environmental Consultants, Inc., Springville, Utah.

Fergusson, Aaron and Scott Billat

1999 A Cultural Resource Inventory of a Pedestrian Path in Soldier Hollow, Wasatch Mountains State Park, Wasatch County, Utah. JBR Cultural Resource Report 99-41. JBR Environmental Consultants, Inc., Springville, Utah.

Fergusson, Aaron and Scott Billat

1999 A Cultural Resource Inventory of the Silverado Ranch Estates Project, a 15 Acre Parcel on West 7th Street, Reno, Washoe County, Nevada. JBR Cultural Resource Report 99-42. JBR Environmental Consultants, Inc., Springville, Utah.

Fergusson, Aaron and Scott Billat

1999 A Cultural Resource Survey of the Hughes Borrow Pit, East of Mesquite Nevada, In Mohave County, Arizona. JBR Cultural Resource Report 99-44. JBR Environmental Consultants, Inc., Springville, Utah.

Fergusson, Aaron and Scott Billat

1999 A Cultural Resource Inventory the Pecetti Ranch, an 80 Acres Parcel, Washoe County, Nevada. JBR Cultural Resource Report 99-46. JBR Environmental Consultants, Inc., Springville, Utah.

Fergusson, Aaron and Richard K. Talbot

1999 A Cultural Resource Inventory of Three Proposed Well Pads in Castle Valley, Carbon and Emery Counties, Utah. Office of Public Archaeology, Provo, Utah.

Fergusson, Aaron and Richard K. Talbot

1999 A Cultural Resource Inventory of a Proposed 40-Acre Land Exchange, Kennilworth, Carbon County, Utah. Office of Public Archaeology, Utah.

Fergusson, Aaron

1999 "Chipped Stone Tools". In Baker Village Report of Excavations, Office of Public Archaeology, Provo, Utah.

Baadsgaard, Aubrey and Aaron Fergusson

1998 Test Excavations at the Lampstand Ruins: A Kayenta Anasazi Site in the Northern Circle Cliffs, South-Central Utah. Museum of Peoples and Cultures Technical Series No. 98-5. Brigham Young University, Provo, Utah.

Aaron Fergusson, R.P.A.

Fergusson, Aaron and Jon Baxter.

1998 Capitol Reef National Park: 1998 Archaeological Survey and Testing Program, CARE Preliminary Report No. 3. Museum of Peoples and Cultures Technical Series No. 98-8. Brigham Young University, Provo, Utah.

Fergusson, Aaron

1998 "Aspen Shelter: Rethinking Regional Projectile Point Types." A poster presented at the 26th Great Basin Anthropological Conference, Bend, Oregon.

Fergusson, Aaron

1996 "Chipped Stone and Hunter-Gatherer Mobility." Paper presented at the 25th Great Basin Anthropological Conference, Lake Tahoe, California.

Supplemental Information

Years Experience Prior to CH2M HILL: 12

CH2M HILL Hire Date: 04/09/2007

Employment History

CH2M HILL, Salt Lake City, Utah, Project Planner, 2007. Cultural Resources Specialist responsible for all aspects of cultural resource investigations and Section 106 consultation, including field surveys, document preparation and review, Native American consultation, and environmental documentation and compliance.

Booz Allen Hamilton, Salt Lake City, Utah, Associate, 2005 to 2007. Project management responsibilities including planning and scheduling resources, budgeting, client interface and reporting, and invoicing on large NEPA EIS projects. Serve as the technical lead on prehistoric cultural resources for the firm. Clients included commercial industry, Bureau of Land Management, US Army Environmental Center, and US Air Force Real Property Agency.

SWCA Environmental Consultants, Salt Lake City, Utah and Las Vegas, Nevada, Program Director, 2000 to 2005. Experienced Project Manager with responsibilities to ensure the financial success of projects and work closely with clients to help them achieve their goals. Managed projects include cultural resources surveys, testing, and data recovery as well as NEPA analyses. Successfully bid and managed projects ranging from private sector clients to county, state, and federal agencies, including both Section 106 and NEPA projects. Authored or supervised cultural resource inventory reports that have been submitted to and approved by UDOT, SITLA, BLM, Forest Service, U.S. Army, and the Utah, Nevada, and Idaho SHPOs. Participated in the development of office policies and procedures to ensure the high quality of work products. Directly supervised Cultural Resources, GIS, and Administrative staff.

Senco-Phenix, Price, Utah, Archaeologist/Field Supervisor, 2000. Permitted by the Utah SHPO and BLM to conduct and lead field surveys and limited testing. Conducted cultural resources inventories and testing, authored and co-authored numerous reports, and developed a system for computerizing the graphics for reports.

JBR Environmental Consultants, Springville, Utah, Archaeologist, 1999 to 2000. Completed approximately 10,000 acres of cultural resources inventory, co-authored several inventory

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reports, researched archaeological data for reports, and participated in marketing opportunities.

EIS, Helper, Utah, Archaeologist, 1999. Responsible for the development and marketing of new cultural resources services to existing and new clients. Participated in the writing of Environmental Assessments and other NEPA compliance documents in eastern Utah.

Brigham Young University/Office of Public Archaeology, Provo, Utah, Crew Chief, 1996 to 1999. Worked closely with the Project Director to instruct and lead archaeological students in both cultural resources surveys and data recovery methods both in the field and the classroom. Co-authored inventory and data recovery reports and conducted the necessary artifact analyses on sever artifact classes, including chipped stone, ceramics, worked bone, and groundstone.

Last Employee Update: 04/19/2007