



northwest hydraulic consultants

Sandy Cove Park Bank Protection and Restoration - Phase 2 Rescoping (Amendment 1.3)

Prepared by Northwest Hydraulic Consultants Inc.

Scope of Work

Prepared for City of Snoqualmie

March 5, 2024

PROJECT DESCRIPTION

The City of Snoqualmie has requested that Northwest Hydraulic Consultants, Inc. (NHC) provide an updated scope of work for Phase 2 of the Sandy Cove Park Bank Restoration Project (NHC, 2014). A continuation of the Phase 2 scope of work is needed to continue the federal, state, and local permitting process for the full bank protection and restoration project at Sandy Cove Park. In December 2022, the city notified NHC that construction of the full bank protection concept would not be funded in 2023 and directed NHC to develop a design for temporary bank protection measures (Phase 1) to be constructed in 2023. Significant out of scope efforts from the previous task order include design, permitting and construction oversight for the Phase 1 temporary bank protection measures, which were successfully completed in Fall 2023.

A proposed scope of work for design and permitting of the full bank protection design has been submitted under separate cover as Amendment 1.2. This proposed scope of work covers Construction Management/Construction Support work plan tasks requested by the City. Task numbers have been retained from the previous scope of work.

Task 13. Project Management/Administration and Quality Control

NHC will keep the City's project manager informed on project activities through the use of email and phone. Meeting dates will be set well in advance to ensure adequate time to secure commitments from key participants. Monthly invoices will be submitted that are accompanied by a brief progress report. Each progress report will detail the following:

1. Work completed from the Scope in this billing period.
2. Work anticipated for next billing period.
3. Project issues that need to be addressed.
4. Tracking of any work performed outside the original scope.

Task 14. Construction Support

NHC and subcontractors will provide construction support and construction management services during the anticipated construction season (Summer 2024). NHC will provide up to 200 hours of on-site construction inspection and supervision to ensure that the design is implemented properly by the contractor.



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NHC's permitting sub-consultant, 48 North Solutions, will coordinate with permitting agencies during construction, including the Army Corps of Engineers (Corps) and Washington State Department of Ecology (Ecology), Washington Department of Fish and Wildlife (WDFW) and Washington Department of Natural Resources (DNR). To meet the requirements of the Ecology 401 Water Quality Permit, 48N will coordinate on site turbidity monitoring and submit the final turbidity monitoring report after in-water work is complete.

Stell, NHC's cultural resources sub-consultant will conduct archaeological monitoring during construction activities. Due to the high archaeological probability of the project area, Stell expects that all ground disturbing construction will require archaeological monitoring. It is anticipated that monitoring will take place over the course of approximately eight (8) weeks.

KPFF, NHC's civil sub-consultant, will provide construction management and construction observation services, including:

- Bid Document Review & Bidding Support: KPFF CM will review the bid documents, assist the City with bid reviews and checking contractor references, and respond to bidder questions and issue addenda.
- Construction Management and Team Coordination: KPFF will provide limited construction project management and administration services, including quality assurance, construction observation, project coordination, and document control.
- Contract Administration: KPFF will be the point of contact for NHC, the Contractor, and the Design Team, and will facilitate communications, process submittals, handle change orders and RFIs, and track contract progress and status.
- Site Construction Observation: KPFF will monitor and document the Contractor's work and activities for compliance with the contract documents and applicable codes, and will evaluate and facilitate corrective action on any issues or problems.
- Project Completion and Closeout: KPFF will facilitate the project completion process by coordinating a punchlist inspection, issuing notice of substantial completion, performing a final inspection, and compiling project closeout documents.

Assumptions:

- Phase 2 construction duration will be approximately 20 weeks with approximately 12 hours per week of Construction Observation performed by the CM or an "Inspector"
- Construction of in-water elements is expected to take approximately 8 weeks.

Deliverables:

- As outlined in subconsultant scope of work (Attachments A & B).



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TIME AND PERFORMANCE

1. At a schedule coordinated with City staff following issuance of this Task Order that achieves construction in 2024.



Sandy Cove Park Bank Protection and Restoration - Phase 2 Rescoping

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COST ESTIMATE

| nhc -- Northwest Hydraulic Consultants Inc. | | | | | | | | PAGE 1 OF 2 |
|--|--|--------------|--|------------------|-----------------------------------|-------------------------|------------------------------|------------------|
| 12787 Gateway Drive S. Seattle, WA 98168 Tel. (206) 241-6000 Fax (206) 439-2420 | | | Prepared for: City of Snoqualmie Project: Sandy Cove Park Bank Protection and Restoration (Phase 2) Date: February 16, 2024 Project No.: 2003862 Prepared By: Derek Stuart/ Catherine Billor | | | | | |
| TASK DESCRIPTION | Principal | Principal T3 | Staff Scientist | Engineer 1 | Engineer 2 | Technician/ GIS Analyst | Contract Admin | Totals |
| | Derek Stuart or Vaughn Collins | Chris Long | Andrew Nelson | Catherine Billor | Laurel Smith or Alex Whitmershaus | Madalyn Ohrt | Diane Nurrich | |
| 3 | Hydraulic Modeling Plan and Model Development | | | | | | | \$0 |
| 5 | Refinement of Preferred Alternative, 60% Design Drawings, and Permitting Support | | | | | | | \$0 |
| 6 | Final Design and Embankment Design Documentation | | | | | | | \$0 |
| 7 | FEMA No Rise | | | | | | | \$0 |
| 10 | King Street Stormwater Outfall 100% Design | | | | | | | \$0 |
| 13 | Project Management/ Administration and Quality Control | 4 | | 10 | | | 2 | \$3,610 |
| 14 | Construction Support | 20 | | 100 | 80 | | | \$37,500 |
| Total Hours and Direct Labor Cost (DL) | | 24.0 | 0.0 | 0.0 | 110.0 | 80.0 | 0.0 | 2.0 |
| Standard Rate (2024) | | \$310.00 | \$290.00 | \$290.00 | \$185.00 | \$160.00 | \$165.00 | \$260.00 |
| TOTAL LABOR COST (BASE SCOPE OF WORK ONLY) | | | | | | | | \$41,110 |
| Direct Expense Detail | | | | | | | | |
| | | | | | Units | Rate | | Cost |
| | Mileage (estimated 20 round trips) | | | | 1.200 | \$0.580 | | \$696 |
| | Reproduction & Communication | | | | | | | |
| | Survey Equipment (Boat/ RTK GPS/ Eco Sounder) | | | | | 200.00 | | \$0 |
| | | | | | | | Total Direct | \$696 |
| Subconsultants | | | | | | | | |
| | | | | | Sub Fee | Markup | | Cost |
| | Base Scope of Work | | | | | | | |
| | Geotechnical support for Task 1 from AESI | | | | \$10,000 | | | \$10,000 |
| | KPFF (CM scope) | | | | \$138,070 | | | \$138,070 |
| | Berger | | | | \$0 | | | \$0 |
| | 48N | | | | \$5,000 | | | \$5,000 |
| | Stell | | | | \$27,880 | | | \$27,880 |
| | | | | | | | Base Scope of Work | \$180,950 |
| Cost Summary | | | | | | | | |
| | Total NHC Labor | | | | | | | \$41,110 |
| | Total Direct Expenses | | | | | | | \$696 |
| | Subconsultants | | | | | | | \$180,950 |
| | | | | | | | TOTAL COST (CM SCOPE) | \$222,756 |



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REFERENCES

NHC 1993, Draft interim report, Snoqualmie River flood control project. Prepared for City of Snoqualmie, Snoqualmie, Washington.

NHC 2008, Technical Analysis for FEMA Letter of Map Revision for the Snoqualmie River near the City of Snoqualmie, Washington. May 23, 2008. LOMR became effective February 26, 2010. NHC Project Number 21478.

NHC 2014, Sandy Cove Bank Restoration Project, Final Report, Prepared by Northwest Hydraulic Consultants for the City of Snoqualmie in coordination with Perteet Inc. and Terracon Inc. Review Draft April 2013, Final Draft January 2014. NHC Project Number 200080.

NHC 2017, Infrastructure Improvement Program, Hydrologic and Hydraulic Analysis, Final Report, Prepared by Northwest Hydraulic Consultants for Perteet Inc. on behalf of the City of Snoqualmie. February 2017. NHC Project Number 2001642.



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Attachment A

Sub-consultant KPFF Scope and Fee Estimate for Sandy Cove Park Construction Management

February 12, 2024
Catherine Billor, PE
Northwest Hydraulic Consultants
12787 Gateway Drive South
Seattle, WA 98168

**Re: Sandy Cove Phase II Project
Construction Administration and Construction Support
Services Scope and Fee
KPFF Project No. 10042200691**

Catherine,

KPFF Special Projects is providing this Scope and Fee proposal Construction Project Management services as part of the Sandy Cove Phase II Project. This proposal addresses the project needs for limited design review, bid support, construction administration and construction management services as currently anticipated by KPFF.

~~**Phase 1 – Bid Document Review & Bidding Support**~~

Included in Amendment 1.2 Scope

~~KPFF CM will review and become familiar with the Bid Documents. This will include Division 0 and 1 Specifications, Design Plans and the Engineer’s Estimate of Probable Construction cost. KPFF CM will be available to assist the City with bid reviews and checking contractor references (if requested).~~

Phase 2 – Construction Management and Team Coordination

KPFF will provide limited Construction Project Management and Administration services following the award of the construction contract. Generally, this will include providing quality assurance, construction observation, project coordination and document control through construction.

Task 2.1 – Pre-Construction Meeting – KPFF will facilitate a Pre-Construction Meeting including Design Team representatives, NHC, the Construction Contractor, and others as required. KPFF will prepare and distribute the meeting minutes to all attendees and stakeholders.

Task 2.2 – Contract Administration – KPFF will provide Construction Management and Contract Administration and be the point of contact for Northwest Hydraulic Consultants (NHC), the Contractor and the Design Team. KPFF will facilitate communications as required and maintain an accurate record of correspondence. Correspondence will be provided to NHC, the Contractor and Design Team through a web based electronic document management system.

Task 2.3 – Communications and Weekly Progress Meetings – KPFF will prepare an agenda and facilitate weekly construction meetings with NHC, the Contractor and others as required (assuming remote meetings through MS Teams or Zoom). Meetings will allow the Contractor to present schedule updates, discussion of milestone dates, discussion of problems/issues encountered or upcoming, and provide an opportunity for NHC and the Design Team to discuss any concerns. Meeting minutes will be prepared and distributed to NHC, the Contractor, the Design Team and others as required.

Task 2.4 – Submittal Review/Recommendations – KPFF will receive, distribute for review, track, and return to the Contractor all technical submittals required for review by the Engineer of Record in accordance with the Construction Contract. KPFF will utilize a web based electronic document management system for processing submittals, that will also be provided to the Construction Contractor.

Task 2.5 – Changed Conditions/Change Order/RFI – KPFF will review Contractor Requests for Information and design change requests, make initial determination if the Contractor needs to provide further information prior to Design Team review, and/or distribute to the appropriate party for a response. KPFF will also prepare and process construction field authorizations and resultant change orders. KPFF will develop, update, and manage a log of RFIs and their status.

KPFF will track all changes to the approved Contract Documents, coordinate with NHC, negotiate and issue change orders for final approval by the City, along with documentation for the change including summary sheet, independent cost estimate, Contractor’s cost estimate and proposal, and writing a finding of fact.

Task 2.6 – Site Construction Observation – KPFF will provide limited Site Construction Observation. This task will be a collaborative effort that will include the following items:

Monitor and document the Contractor’s work and activities for progress as well as compliance with approved Contract Documents. Complete site reports for project records and coordinate with NHC and the Contractor.

Monitor the Contractor’s quality control processes throughout construction of the project. Observe the technical conduct of construction, including providing day-to-day contact with NHC and the Contractor.

Observe material, workmanship, and construction areas for compliance with the Contract Documents and applicable codes and notify the Contractor of noncompliance. Advise the Engineer of Record and NHC of all non-conforming work observed.

Evaluate and facilitate corrective action on issues which may arise related to the quality and acceptability of material furnished, work performed and rate of progress of work performed by the Contractor.

It is assumed that the Phase 2 construction duration will be approximately 20 weeks with approximately 12 hours per week of Construction Observation performed by the CM or an “Inspector”.

Task 2.7 – On-Site Materials Inspection/Testing – KPFF will coordinate all special inspection and testing utilizing subconsultants under contract to the Prime Consultant and/or the City. KPFF will review the work by the Field Representative(s) and testing laboratories, document and evaluate the results of testing and inform NHC, the Contractor and the Design Team of the results.

KPFF will document and log the locations, dates and results of all special inspections and testing performed by its subconsultants.

Task 2.8 – Contractor Payment Applications – KPFF will prepare and approve progress payment applications, including measurement and verification of quantities and evaluation of percent complete with lump sum items. Assume 5 pay applications at 2hrs per review.

Task 2.9 – Substantial Completion/Final Inspection/Physical Completion – KPFF will facilitate the project completion process by coordinating a punchlist inspection of the work and issuing notice of Substantial Completion. Develop, with assistance from NHC and the Design Team, a written list of remaining deficiencies and provide this list to the Contractor for corrective action.

Upon notification from the Contractor of completion of the punch list items, KPFF will assist NHC in performing a Final Inspection.

Task 2.10 – Project Closeout Documentation/Completion Date – KPFF will complete and compile project closeout documents including the final payment voucher, QC reports, inspection reports, permit closeout and Contractor review forms; compile all documentation from the Contractor required by the Contract Documents. Once documentation has been accepted KPFF will provide a written final acceptance/Contract Completion letter to NHC.

SCHEDULE

This fee estimate is based upon a preliminary construction schedule of 20 weeks (plus 2 weeks of pre-construction support).

ASSUMPTIONS

The following items are assumed to accomplish the work identified herein:

- Advertising and solicitation of the bids will be by others.
- Special Testing and inspection will be provided by the City (or another party).

FEE

KPFF proposes to perform the above Scope of Work for an estimated to be **\$142,150** billed on a time and materials basis per Attachment A. An allowance for reimbursable expenses has been included in the Fee Estimate and will be billed at cost, without mark-up.

If after your review of this proposal you have any questions, please contact me at your earliest convenience.

Rob Price, Principal

| | | |
|--|--|--------------|
| kpff 1601 5th Avenue, Suite 1300 Seattle, Washington 98101 p (206) 382-0600 f (206) 382-0500 | Project: Sandy Cove Park Bank Protection | Date: 2/6/24 |
| | Location: Snoqualmie, WA | Sheet #: 1 |
| | Client: City of Snoqualmie | Job #: |
| | By: | Version: 1 |

ATTACHMENT A - Fee Estimate

| | Principal | Project Manager | Senior Engineer | Prof. Engineer | Construction Manager | Resident Engineer | Construction Inspector | Design Engineer | Sr. CAD Technician | CAD Technician | Project Coordinator | Admin. | Total |
|---|--|-----------------|-----------------|----------------|----------------------|-------------------|------------------------|-----------------|--------------------|----------------|---------------------|--------------|---------------------|
| 2024 Rates | \$ 280 | \$ 270 | \$ 230 | \$ 200 | \$ 220 | \$ 200 | \$ 170 | \$ 175 | \$ 170 | \$ 150 | \$ 145 | \$ 110 | |
| 1 - Bid Document Review & Bidding Support | 2 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \$ 4,080 |
| 1.1 Bid Package Preparation, Plans, Specs & Bid Tab | | | | | 4 | | | | | | | | \$ 880 |
| 1.2 Assist with response to Bidder Questions & Issue Addenda | | | | | 4 | | | | | | | | \$ 880 |
| 1.3 Technical and Programmatic Review of Bids | 2 | | | | 8 | | | | | | | | |
| 2 - Construction Management and Construction Administration | 8 | 0 | 0 | 0 | 509 | 0 | 0 | 0 | 0 | 0 | 146 | 0 | \$ 135,390 |
| 2.1 Pre-Construction Meeting | | | | | 2 | | | | | | 2 | | \$ 730 |
| 2.2 Contract Administration | | | | | 80 | | | | | | 80 | | \$ 29,200 |
| 2.3 Communications and Progress Meetings | | | | | 44 | | | | | | 44 | | \$ 16,060 |
| 2.4 Submittal Review/Recommendations | | | | | 80 | | | | | | | | \$ 17,600 |
| 2.5 Changed Conditions/Change Order/RFI | | | | | 20 | | | | | | | | \$ 4,400 |
| 2.6 Site Construction Observation | 8 | | | | 240 | | | | | | | | \$ 55,040 |
| 2.7 On-Site Materials Inspection/Testing | | | | | 16 | | | | | | 8 | | \$ 4,680 |
| 2.8 Contractor Payment Applications | | | | | 10 | | | | | | | | \$ 2,200 |
| 2.9 Substantial Competition/Final Inspection/Physical Completion | | | | | 8 | | | | | | | | \$ 1,760 |
| 2.10 Project Closeout Documentation/Completion Date | | | | | 9 | | | | | | 12 | | \$ 3,720 |
| <i>Total Hours</i> | <i>10</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>525</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>146</i> | <i>0</i> | |
| KPFF Labor Subtotal | | | | | | | | | | | | | \$ 135,390 |
| Reimbursable Expenses | Travel - assume 50 miles per trip X 4 trips per week @ \$0.67 per mile | | | | | | | | | | | | \$ 2,680 |
| Expenses Subtotal | | | | | | | | | | | | | \$ 2,680 |
| TOTAL | | | | | | | | | | | | | \$ 138,070 |

Include Amend 1.2 Sco



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Attachment B

Sub-consultant Stell Scope and Fee Estimate for Sandy Cove Park Construction Management



February 7, 2024

Northwest Hydraulic Consultants
12787 Gateway Drive South
Seattle, WA 98168
ATTN: Mr. Derek Stuart P.E., Principal
DStuart@nhcweb.com

RE: Scope and Budget ---Phase II Sandy Cove Park Upper Bank Project, Snoqualmie –
Cultural Resources Survey

Dear Mr. Stuart:

As a proposed amendment modification to subcontract No. 2003862-2, Stell archaeologists will perform the following tasks to satisfy requirements for the above referenced project as set forth in local King County ordinances and Washington's State Environmental Policy Act (SEPA).

Scope of Work

Task 1 – Cultural Resources Survey: Led by key personnel (resumes attached) for this project, Stell will conduct a systematic field survey to identify previously recorded and/or unrecorded archaeological resources where ground-disturbing activities are expected to take place. Field reconnaissance will include a series of pedestrian transects at varying intervals, depending on terrain and vegetation cover experienced across the project area. Shovel test probes will be excavated to a maximum depth of 100 centimeters across the entire project area approximately 20 meters (65 feet) apart. All sediment excavated from the shovel probes will be hand screened using ¼- inch hardware mesh. A hand auger will be used to determine subsurface deposits deeper than 1 meter and will be used to a maximum depth of 3 meters. New archaeological sites will be mapped, photographed, and recorded on Washington State Archaeological Site Inventory forms. This assessment assumes that no more than one new archaeological site will be identified and recorded during the fieldwork. Previously documented sites within the project area will be relocated, reevaluated for condition, and updated on a Washington State Archaeological Site Inventory Addendum Sheet. The Washington State Historic Inventory Database will be utilized to record the identified historic resources.

Task 2 – Cultural Resource Monitoring: Stell will conduct archaeological monitoring during construction activities. Due to the high archaeological probability of the project area, Stell expects that all ground disturbing construction will require archaeological monitoring. Per NHC, it is anticipated that monitoring will take place over the course of approximately eight (8) weeks.

Stell archaeologists will conduct monitoring following federal and state standards and guidelines. Archaeological monitoring will include at least one monitor on site observing ground disturbances. The archaeologist will document the stratigraphic matrix as sediment is being removed, making note of any exposed cultural materials. If any cultural materials are identified, then the archaeologist will collect information to determine the significance of the findings. Daily

6100 219th Street SW (STE 480) | Mountlake Terrace, Washington 98043 | 206.717.7010 | www.stellee.com

Certified VOSB | WOSB | MWBE

notes and photographs will be taken and compiled for documentation and submitted to NHC each day. A compilation of daily monitoring reports will be presented as an Appendix to the Cultural Resource Monitoring Report.

All new or previously recorded archaeological sites and isolated finds encountered during construction will be documented using the DAHP's Washington Information System for Architectural and Archaeological Records Data (WISAARD) system. Each site will be evaluated for listing in the NRHP, and recommendations will be provided in the monitoring report. All archaeological resources identified will be immediately reported to NHC.

Task 3 – Regulatory Compliance and Reporting: After the completion of the fieldwork, Stell will prepare a technical cultural resources report that meets state and federal standards for reporting as outlined in the guidelines provided by the DAHP. Reporting will be done in compliance with all NEPA, NHPA, and Section 106 review requirements. The technical report will describe survey methodology, summarize, and interpret findings, and provide management recommendations. The report will contain brief geological, prehistoric, and historical contexts for the area, as well as discussion of the fieldwork strategy employed, results, and field conditions. Stell will submit the report to NHC and the DAHP.

Stell will support NHC and the City of Snoqualmie in coordination with DAHP, affected Native American Tribes, and stakeholders. The APE letter will initiate communications related to the planned cultural resources survey and schedule. Stell will attend up to two meetings with project proponents and stakeholders to supply information related to cultural resources services and needs. Stell will coordinate directly with DAHP, with adherence from the City of Snoqualmie to assist with project requirements.

The Time and Materials cost for this scope of work is **\$54,522.06**.

Stell's proposed cost for this project is provided as Attachment 1. The pricing estimate is based on the following assumptions:

- NHC will provide all rights of entries.
- Weather conditions permitting, the cultural resources survey is scheduled to be completed within 7 (seven) weeks from the start date.
- No more than 30 shovel test probes will be excavated to a depth of no more than 100 centimeters (39 inches) below the ground surface.
- No historic buildings/structures over 50 years of age have been identified in the project area and therefore no buildings/structures will be inventoried as part of this assessment.
- Not more than one archaeological site will be recorded during fieldwork.
- Should archaeological testing for NRHP evaluation eligibility and/or data recovery efforts be determined necessary, a new scope and budget will need to be submitted.
- Human remains will not be encountered. If human remains are encountered, the King County Sheriff and Coroner will be immediately contacted. If the remains are determined to be not part of a criminal investigation and anthropological in nature, Washington Department of Archaeology and Historic Preservation forensic anthropologist Guy Tasa will be contacted immediately, as will be the affected Native American tribes.

- The draft technical report will be delivered for review to HNC within 4 weeks after the completion of fieldwork.
- The draft/final technical report will not exceed 30 pages of text (not including appendices) and five figures.
- The report will undergo one cycle of review and comment; NHC will collate all comments into a single list for response by Stell.
- One hard copy of the final report will be delivered to NHC within 1 week after receiving comments on the draft report.
- Stell staff will not require or need to provide project-specific training.
- Stell will provide cultural resources services under a Time and Materials contract.
- The scope and price quote are valid for 60 days from the date of this proposal letter.

Based on the above assumptions, this project is anticipated to take 60 days, plus NHC review time of the draft technical report.

Stell looks forward to the opportunity to support NHC and the City of Snoqualmie. Please contact me at 713.417.5421 or rkrause@stellee.com with any questions.

Regards,

Robert Krause

Rob Krause, Ph.D.
Cultural Resources Director

Attachments:

- 1.) Price Estimate
- 2.) Resumes of Key Personnel

1). Price Estimate

| | BASE YEAR | Unit | Task 1: Cultural Resource Survey | | Task 2: Cultural Resource Monitoring | | Task 3: Regulatory Compliance and Reporting | | Summary | |
|---|----------------|------|----------------------------------|--------------------|--------------------------------------|--------------------|---|--------------------|------------|--------------------|
| LABOR CATEGORIES | | | Hrs | Cost | Hrs | Cost | Hrs | Cost | Hrs | Cost |
| Jason Jones/Principal Investigator | \$96.10 | HR | 24 | \$2,306.40 | 8 | \$768.80 | 24 | \$2,306.40 | 56 | \$5,381.60 |
| Nichole Pavodano/Mid. Archaeologist | \$86.80 | HR | 64 | \$5,555.20 | 280 | \$24,304.00 | 40 | \$3,472.00 | 384 | \$33,331.20 |
| Cristina Rodriguez-Franco/Sr. Archaeologist | \$94.22 | HR | 56 | \$5,276.32 | 24 | \$2,261.28 | 40 | \$3,768.80 | 120 | \$11,306.40 |
| GIS Specialist | \$77.50 | HR | 8 | \$620.00 | 4 | \$310.00 | 16 | \$1,240.00 | 28 | \$2,170.00 |
| Editor | \$59.12 | HR | 8 | \$472.96 | 4 | \$236.48 | 16 | \$945.92 | 28 | \$1,655.36 |
| | | | 160 | \$14,230.88 | 320 | \$27,880.56 | 136 | \$11,733.12 | 616 | \$53,844.56 |
| TRAVEL & ODC COSTS | Rate | Unit | Qty | Cost | Qty | Cost | Qty | Cost | Qty | Cost |
| GPS | \$35.00 | Day | | \$- | | \$- | 10 | \$350.00 | 10 | \$350.00 |
| Mileage | \$0.655 | mile | | \$- | | \$- | 500 | \$327.50 | | \$327.50 |
| ODC/Travel Subtotal | | | | \$- | | \$- | | \$677.50 | | \$677.50 |
| Total Price | | | | \$14,230.88 | | \$27,880.56 | | \$12,410.62 | | \$54,522.06 |

Tasks 1 & 3 - to be completed under Amendment 1.2

\$27,880.56 to complete Amendment 1.3 Scope

2). Resumes attached



Jason M. Jones

Environmental Compliance Manager / Archaeologist

EDUCATION

MA, History/Anthropology,
Eastern Washington
University, Cheney, WA, 2005

BA, Anthropology, Eastern
Washington University,
Cheney, WA, 2003

REGISTRATIONS/ CERTIFICATIONS

Certified Erosion & Sediment
Control Lead (CESCL) 2016-
2020

HAZWOPER 40 hour, 2020

OSHA Oil Spill Clean-up,
2020

TRAINING

First Air/CPR/AED
Certification

Cornell Lab of Ornithology
Bird Academy Hawk & Raptor
Identification Training 2020

EPA- The Clean Water Act
Training 2019

Introduction to Native Plant
Identification, 2016

DNR-Unstable Slopes
Training, 2011

INDUSTRY TENURE

17 Years

AREAS OF EXPERTISE

Environmental compliance
inspections (cultural and natural
resources)

Erosion Control
BMPs/Plans/Stormwater Prevention

Environmental Oversight – In-
stream work (culvert installations,
de-watering and water diversion,
controls of pollutants, fills, and pH
modifying sources

Stream Turbidity (Nephelometric
Turbidity Unit (NTU) monitoring

Biologic resource protection

Noxious weed and fugitive dust
control

Spill response clean-up

Phase I, II, III archaeological
surveys and investigations

Human burial recovery

Historic properties inventories

Lithic analysis

Stratigraphic profiling

GIS/GPS data collection

Prehistoric/historic artifact
analysis/identification

Determinations of adverse effects
and resource eligibility

Tribal/Agency consultation

Technical Reporting

Public outreach/training

PROFESSIONAL EXPERIENCE

Mr. Jones has over 17 years of professional cultural resource management experience and over four years of natural resource protection experience. He meets the Secretary of the Interiors Standards for a professional archaeologist and has conducted fieldwork in Washington, California, Oregon, Idaho, Montana, Nevada, North Dakota, Missouri, Illinois, and Newfoundland. He has a current database user agreement with the California, Oregon and Washington State Historic Preservation Offices (SHPO) and he has worked as a crewmember as well as a supervisor on the completion of Phase I, II and III cultural resource field investigations as obligated under Archaeological Resources Protection Act (ARPA), National Historic Preservation Act (NHPA, Section 106 and Section 110), State Environmental Policy Act (SEPA), National Environmental Policy Act (NEPA), Native American Graves Protection and Repatriation Act (NAGPRA) and Washington Executive Order (EO) 05-05 compliance projects. He has participated extensively in consultation with state and federal agencies as well as Pacific Northwest tribal groups. Since 2016 he has been providing environmental compliance and natural resources inspection support on small-scale and large-scale construction projects, including obligations under Section 404 of the Clean Water Act. Jason is currently a Certified Erosion & Sediment Control Lead (CESCL).

PROJECT EXPERIENCE

Cultural Resource Services for the Olympic Region 22 Fish Passages Project | Clallam, Jefferson, Mason, and Grays Harbor Counties, WA | Principal Investigator | 2019–Ongoing. Archaeologist. Stell is on a team of consultants supporting WSDOT for environmental documentation related to the removal of 23 fish barriers and the design and implementation of new fish passages throughout the Olympic Peninsula in Washington State. Stell is conducting background literature and records review of each fish passage location, archaeological survey, and reporting the results per Section 106 of the National Historic Preservation Act of 1966. Stell reviewed preliminary design plans and PHD documents for each culvert location, coordinated with project leads to identify and map



estimated project footprint (temporary and permanent) to be used in the analysis, and established and mapped an estimated APE for each culvert based on project footprint. Pertinent literature on the archaeology, ethnography, and history was reviewed to determine the probability for archaeological resources, traditional cultural properties and historic resources in the study area. Previous cultural resources and geotechnical studies, historic building and structure inventories, ethnographies, local histories, historic maps, in-house records and records held by the Department of Archaeology and Historic Preservation (DAHP) were consulted. Archaeological survey, including pedestrian and subsurface testing will be completed across each fish passage APE. Previously recorded and newly located archaeological resources and historic properties observed will be documented and updated using the Washington Information System for Architectural and Archaeological Records Data (WISAARD) and in coordination with the DAHP. Stell is assisting WSDOT with tribal coordination for each of the fish passage locations to address any cultural resource concerns, including the Jamestown S’Klallam Tribe, Lower Elwha Klallam Tribe, Port Gamble S’Klallam Tribe, Makah Tribe, Puyallup Tribe, Quileute Nation, Quinault Nation, Squaxin Island Tribe, and the Suquamish Tribe.

Snohomish County PUD, Swamp Creek Switching Station Pole Installation, Snohomish County, Washington 2020. Mr. Jones served as the Project CESCL during clearing, grading and the installation of power poles related to upgrades to the switching station. All work was being performed to meet environmental guidelines/restrictions set forth by the Washington State Department of Ecology and mandates defined under the Construction Stormwater General Permit.

Bonneville Power Administration’s HEC Marker Ball Year 1 Project, Idaho, Montana, Oregon, and Washington 2020. Mr. Jones completed pre-construction reconnaissance over four states to help clear proposed helicopter landing zones for PAR Electric and WINCO. These landing zones were planned for use during emergency marker ball installation and replacement on existing BPA transmission lines. The pre-construction work entailed navigating to select locations using aerial photography, USGS maps and compass. Once on-site, Jason completed a pedestrian survey of the proposed location to make certain that no protected natural resources or cultural resources were overlooked during the desktop review and that no vulnerable resources would be affected by the proposed work. Following the field work, Mr. Jones completed a technical summary document with applicable photographs and environmental protection recommendations for the contractor to consult during their work.

Raver Substation Expansion Erosion Control Project, King County, Washington 2020. Mr. Jones acted as a team-member during this erosion control project which necessitated both hand and mechanized broadcast of seed and appropriate fertilizer, hand-raking, mechanized tilling (ATV and bucket spreader) and photographs and documentation of all work completed. Work was completed under contract to BPA to assist them with the control of noxious weeds and limit erosion around the perimeter of their Raver Substation.

Pacific Power’s Tieton Substation Expansion Project, Yakima County, Washington 2019-2020.

Mr. Jones was the Environmental Inspector for Rawhide Excavating, Inc. and helped them meet their Stormwater Pollution Prevention Plan (SWPPP) obligations as required for construction by the Department of Ecology State of Washington.

Bonneville Power Administration’s Lane to Wendson No. 1 Transmission Line Rebuild Project, Lane County, Oregon 2019-2020. Mr. Jones represented Rogue Line LLC (Rogue) as their Project Environmental Inspector and also acted as the Land Liaison and CESCL. He helped Rogue meet their Project environmental compliance obligations as outlined by BPA in accordance with the Endangered Species Act (ESA), Oregon Department of State Lands (DSL), Oregon Department of Environmental Quality (DEQ) and U.S. Army Corps of Engineers (ACOE) Section 404 permit conditions and Nationwide Permit (NWP) General Conditions. He constructed temporary fencing and signage around sensitive water resources (i.e., protected streams and wetlands) and in areas of the protected marbled murrelet and streaked horned lark, provided oversight of in-stream work to ensure environmental/permit compliance, sought contact with each affected landowner, assisted with seeding and mulching of disturbed areas to support site restoration, and participated in on-site meetings and telephone and email correspondence with representatives of the Project. Work took place over 41 linear miles from Eugene to Florence, Oregon and necessitated daily reporting and weekly SWPPP reporting.



Cristina Rodriguez-Franco, M.A., RPA

Scientist Archaeology

EDUCATION

Master's Degree, Archaeology of Death of Memory, University of Chester, UK, 2017

Bachelor's Degree, Anthropology, University of Puerto Rico, 2015

REGISTRATIONS/ CERTIFICATIONS

Register of Professional Archaeologists, #18149, since 2020

PSMJ Project Management

First Aid/AED Training

PROFESSIONAL AFFILIATIONS

Society for Historical Archaeology

Association of Oregon Archaeologist (AOA)

Association for Washington Archaeologist (AWA)

PERMITS/LICENSURE

Washington WISAARD Access

Oregon OARRA Access

Permitted Oregon Archaeologist

STELL TENURE

< 1 Year

INDUSTRY TENURE

10 Years

AREAS OF EXPERTISE

Caribbean Archaeology

Mortuary Studies

Colonial Archaeology

PROFESSIONAL EXPERIENCE

Cristina Rodriguez-Franco obtained her BA from the University of Puerto Rico where she participated in pre-Hispanic and colonial Caribbean Archaeological research throughout her undergraduate career.

Ms. Rodriguez-Franco was head research assistant in a successful three-year community archaeology investigation in the river basin of Manati, Puerto Rico, funded by the National Science Foundation. She then pursued her master's degree at the University of Chester in the UK where she expanded her breadth of knowledge to include both classic and contemporary European mortuary and osteological archaeology studies.

She is a Registered Professional Archaeologist (RPA) with ten years of experience in archaeology. Ms. Rodriguez-Franco's duties have included directing pedestrian survey and testing projects, writing archaeological reports, permits, and proposals, and has experience communicating with multiple Oregon Tribal agencies. She has participated in and supervised cultural resources investigations on the Oregon Coast, Great Basin, Columbia Plateau, the North and Central Coasts of California, Shasta Cascades, and the California Desert. Ms. Rodriguez-Franco has also worked in overseas archaeological projects in Cyprus, Wales, and England.

PROJECT EXPERIENCE

State Parks: Latourell Falls, Multnomah County, OR. Field Director. The project involved monitoring ground disturbance for trail improvements within Guy W. Talbot State Park. Ms. Rodriguez-Franco was responsible for previous archaeological research within government databases such as SHPO and Oregon Archaeological Records Remote Access (OARRA), in-field analysis of findings, and archaeological site report writing.

Rabe Consulting: Willamette NF Upper Canyon Heritage Survey, Linn County, OR. Field Director. The project involves the pedestrian survey in approximately 1,033 acres of 97 timber stands for the USDA Forest Service in Canyon Creek and Upper Canyon Creek watershed. Ms. Rodriguez-Franco was responsible for staff coordination with the Sweet Home Ranger District, previous archaeological research within government databases such as SHPO and Oregon Archaeological Records Remote Access (OARRA), pedestrian survey coordination, field analysis of findings, and archaeological site report writing.



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Corps of Engineers: Rio Grande de Manati Cultural Resource Survey, Ciales, Puerto Rico. Crew Chief. NHPA, Section 106 review in response to a federal project with the United States Army Corps of Engineers, Jacksonville District, for the Matai River canalization. The project was in response to Hurricane Maria 2017 flooding in the town of Ciales, which required a review of possible historic properties and archaeological sites. Ms. Rodriguez was responsible for the archaeological and architectural pedestrian survey coordination and execution, community outreach, documentation of built environments, and records research in Puerto Rico's government and educational institutions (SHPO), Insituto Cultura Puertorriquena (ICP). At the end of fieldwork, Ms. Rodriguez was also responsible for document translation from Spanish to English, report writing from collected field results, and determining NRHP eligibility for archaeological sites.

BLM, Oregon, Coos Ranger District: Oregon BLM Broadband Cultural Surveys, Coos Bay, OR. Field Director. The project involved a pedestrian survey on 90 miles of road within Coos County for future broadband installation. Ms. Rodriguez was responsible for staff and field coordination, required review of possible historic properties and archaeological site identification, material analysis, recording, and report writing.

Oregon Department of Forestry: Malheur National Forest Lithic Scatter Recording, Malheur National Forest, OR. Field Director. The project included a surface survey of 8,600 acres for site updates on six large lithic scatter/site complexes in the Malheur National Forest. Ms. Rodriguez was the field director responsible for crew mobilization and training, surface survey, site recording, subsurface testing, identification and analysis of pre-contact and historic-era contexts, main report writing, coordination with Tribal entities and Forest Service staff.

King Range National Conservation Area: King Range Class III Survey, Humboldt County, CA. Crew Chief. For future forest management plans, the project included surveying 3,400 acres within the King Range National Conservation Area. Ms. Rodriguez was responsible for crew coordination, survey execution, on-site analysis of precontact and historical material, NRHP evaluation of sites, and report writing.

Dryer Partnership: Survey and Site Record for Morrill Creek Bridge Removal and Replacement, Langlois, OR. Crew Chief. The project includes removing and replacing an existing bridge on Floras Creek Road in Curry County. Ms. Rodriguez was crew chief responsible for crew coordination, subsurface testing and documentation of precontact contexts, infield analysis of material, curation preparation and report writing.

T Mobile: Longview Campus Tower, Longview, WA. Field Director. The project involved an archaeological survey and testing for the relocation of cell towers and collocations of telecommunication equipment. Ms. Rodriguez was responsible for field investigation, testing, documentation of built environment and archaeological resources, report writing, and NRHP evaluation.

US Bureau of Land Management: Burns Cultural Clearance Class III Survey, Harney County, OR. Crew Chief. The BLM Burns District required a Class III cultural resources inventory and evaluation of approximately 4,412 acres spread across ten units near Burns, Oregon. The Project required the pedestrian survey to identify and evaluate cultural resources.

Oregon State Parks and Recreation Department: Monitoring Silver Falls State Park, Marion County, OR. Field Director. The project included the monitoring and testing for the new construction of the North Falls boardwalk and trail in Silver Falls State Park. Ms. Rodriguez was responsible for the survey, testing, and report writing.

City of North Bend: Ferry Road Park Heritage Management Plan, North Bend, OR. Field Director. The project included a surface survey and subsurface testing of approximately 15 acres within Ferry Road Park in the City of North Bend, OR. The City of North Bend planned future park improvements within a known archaeological site. Ms. Rodriguez was responsible for crew coordination, pedestrian survey, determining the location of subsurface testing based on records research results and CTCLUSI tribal member input, supervising and performing subsurface testing. After the work was completed, Ms. Rodriguez was solely responsible for organizing and preparing archaeological



Cristina Rodriguez-Franco, M.A., RPA
Scientist Archaeology

material for curation, including database creation and statistical analysis of findings. Results created a Heritage Management Report for the City of North Bend.

Neil Friedman: Sweet Way Monitoring in Port Orford, Curry County, OR. Crew Chief/Field Director. Testing and monitoring for private residence at Sweet Home. The project involved the archaeological survey and testing within the prehistoric site and Tribal coordination.

Plumas National Forest: Berry Brush Creek Survey, Plumas National Forest, CA. Crew Chief. The project included a surface survey of 2,600 acres for site updates on multiple archaeological sites within the Plumas National Forest. Ms. Rodriguez was the Crew Chief responsible for surface survey and site recordings of pre-contact and historic-era contexts, NRHP site evaluations, and report writing.

US Cellular: 348332 Sun Dome Cell Tower Project, Yakima, WA. Field Technician. The project included a historic archaeological survey of historic properties within the State Fair Grounds in Yakima, Washington.

Aspen Environmental Group, LLC: Oak Knoll Class III Survey in Klamath National Forest, OR and CA. Field Technician. The project included the surface survey of 6,500-6,800 acres to develop a solar energy generating facility for Arica Solar, LLC. Ms. Rodriguez was responsible for surface survey and site record of prehistoric and historic contexts.

David L. Davis Real Estate: Brandon Ridge Subdivision Survey and Testing, Coos County, OR. Field Technician. The project included a surface and subsurface survey of 4.97 acres on the eastern bank of the Coquille River in Brandon, Oregon for proposed private development. Ms. Rodriguez was responsible for surface survey and site record of prehistoric and historic contexts.

Aspen Environmental Group, LLC: Oberon Class III Survey and Site Record, Desert Center, CA. Field Technician. The project included the surface survey of 6,500-6,800 acres to develop a solar energy generating facility for Arica Solar, LLC. Ms. Rodriguez was responsible for surface survey and site record of prehistoric and historic contexts.

JUB Engineering, Inc.: Class III Survey for Caldwell Industrial Airport, Caldwell, ID. Field Technician. The project included the development of an updated Airport Master Plan and Airport Layout Plan of 528 acres. Ms. Rodriguez was responsible for surface survey and site recording.

Douglas High School: Monitoring in Douglas High School, Winston, OR. Field Technician. The project required archaeological monitoring of ground disturbance caused by construction and field identification and analysis of precontact and historic materials.

Tri-Leaf Environmental and Environmental Consultants of America: FCC Section 106 Documentation for Various Cell Towers, OR and WA. Field Technician. Projects included new installations of cell towers and collocations of telecommunication equipment. Ms. Rodriguez was responsible for field investigation and documentation of the built environment and archaeological resources supporting the proposed telecommunications facilities.

Cory Vom Baur: Archaeological Predetermination for Everett St. Quadplex, Camas, WA. Field Technician. The project included the construction of a Quadplex apartments. Ms. Rodriguez was responsible for subsurface testing and identifying archaeological materials in impacted areas.

Turner Construction Company: Monitoring in Mission College Blvd Project, Santa Clara, CA. Crew Chief. The project included the archaeological construction monitoring, identification, and documentation of any archaeological materials in impacted areas.



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BLM Battle Mountain District: Survey and Site Record in Douglas Canton and Curren Summit Class III, NV. Field Technician. The project included surface survey and site record for 1,000 acres for fuel reduction in BLM land. Ms. Rodriguez was responsible for surface survey and documentation.

BLM Battle Mountain District: Surface Surveys for Applied Archaeological Research, Inc., Woodland, WA. Field Technician. The project included a surface survey and site record for 1,000 acres for fuel reduction in BLM land. Ms. Rodriguez was responsible for the surface survey and historic and precontact site documentation.

Applied Archaeological Research, Inc.: Surface Surveys for Applied Archeological Research, Inc., OR and WA. Field Technician. The project included subsurface testing for apartment complex construction. Ms. Rodriguez was responsible for subsurface testing and documentation of archaeological materials in the proposed area.

European Credit System for Vocational Education and Training (ECVET): Katalymata Ton Plakoton, Akrotiri, CY. Field Technician/Unit Leader. Internship sponsored by Grampus Heritage and Placements in Environmental Archaeological and Traditional Skills (PEATS) to further expand knowledge in classical archaeology. The Erasmus internship also provided community archaeology outreach with soldiers from the Royal Air Force (RAF). This project helped RAF personnel transition to and from military life. Ms. Rodriguez was responsible for data recovery, preservation of mosaics, and teaching archaeological basics to RAF participants.

Alan Brown, MA: Caer Alyn Archaeological Project, Wales, UK. Field Technician. This project aimed to explore Caer Alyn Hillfort's history with public involvement. Ms. Rodriguez was responsible for cleaning and categorizing archaeological material, unit excavation, and site drawing.

Natasha Fernandez, MA: El Morro Kitchen Archaeological Project, San Juan, PR. Field Technician. The project was part of the master's students' thesis to help understand and determine the diet of the fort's occupants during Spanish rule. Sponsored by the University of Puerto Rico. Ms. Rodriguez oversaw excavation, documentation through photography and scale drawings, and soil sample collections.

Conservation Trust of Puerto Rico, People for Nature: Tracing Our Roots, Manati, PR. Principal Research Assistant. Three-year investigation to determine the history of occupation along the Manati river basin. Ms. Rodriguez was involved in extensive field surveys on surrounding lands, ethnography, and community archaeology outreach. Ms. Rodriguez was responsible for organizing meetings with collaboration investigators, teaching volunteer workshops, input and analysis of information, creating the database for this investigation, and report writing.

Nydia Ponton, PhD: Hacienda La Esperanza, Manati, PR. Field Assistant. This project spanned three years for a PhD student candidate from Temple University. Its goal was to understand landscapes of power and determine the location of the slave quarters. Ms. Rodriguez was responsible for unit excavation, documentation, data input, cataloging of material culture, and the identification of historic ceramics of the 18th and 19th centuries.

University of Puerto Rico, Isabel Rivera-Collazo, PhD: Tierras Nuevas, Manati, PR. Principal Field Assistant. An archaeological field school provided by the University of Puerto Rico. Ms. Rodriguez was responsible for teaching university students archaeological ethics and basic techniques and creating and supervising surface surveys, excavation, and data input.



EDUCATION

Bachelor's Degree, Anthropology & Psychology, Boston University, 2020

Global Ocean's Program, Sea Education Association (SEA) Semester, 2019

REGISTRATIONS/ CERTIFICATIONS

HAZWOPER 40 Hour Certification

First Aid/CPR/AED

Asbestos Awareness Training Version 2 Washington 2B

PROFESSIONAL AFFILIATIONS

Association for Washington Archaeology

Society for American Archaeology

U.S Forest Service

Washington Department of Transportation

U.S. Department of the Navy

Puyallup Tribe of Indians

TRAINING

ArcGIS

STELL TENURE

2 Years

INDUSTRY TENURE

2 Years

AREAS OF EXPERTISE

| | |
|--|---|
| Phase I and II archaeological survey and investigation | Precontact/historic-period materials analysis |
| Database background research (WISAARD, OARRA) | Technical writing (Reports, MIDP/IDP, APE Letter, Site Forms, Site Condition Forms) |
| Crew lead (Field Maps, Trimble) | |

PROFESSIONAL EXPERIENCE

Ms. Padovano has over two years of professional experience in archaeological research and cultural resource management, conducting numerous surveys throughout the Pacific Northwest. Their responsibilities include, but are not limited to, site recording, site relocation, technical writing and background research, construction monitoring, client coordination, and cultural resource data collection. Ms. Padovano has experience successfully leading crews in the field and following a project from kick-off through final report submission. They have worked for and with the Washington Department of Transportation, U.S. National Parks Service, U.S. National Forest Service, Washington Department of Fish and Wildlife, the Puyallup Tribe of Indians, and the Duwamish Tribe.

PROJECT EXPERIENCE

SP Cramer & Associates, Inc.: Chewelah A-Z Project, Colville National Forest, WA. Phase I survey. Conducted site recording and historic-period material analysis. **US Forest Service: Heritage Surveys, Okanogan-Wenatchee NF and CRGNSA, Okanogan-Wenatchee National Forest, WA.** Phases I and II survey. Conducted site recording, lithic analysis, and historic-period material analysis. Created shovel probe logs, photo logs, artifact logs, and organized field notes, and previously recorded sites. Authored reports and background research. **US Forest Service: 2021 Rouge River-Siskiyou National Park Snowy Butte Archaeological Surveys, Snowy-Butte National Forest, OR.** Phases I and II survey. Conducted site recording, site relocation, site mapping on Field Maps, lithic analysis, historic-period material analysis, and detailed record keeping. Created shovel probe logs, photo logs, artifact logs, and organized field notes, and previously recorded sites. **US Forest Service: Umpqua National Forest Archie Creek 2, North Umpqua National Forest, OR.** Phases I and II survey utilizing Field Maps and Trimble. Crew lead site recovery and site relocation; conducted lithic analysis and historic-period material analysis. Lead shovel probe layout, documented field notes. Lead author on report, report letter, and background research



Nichole Padovano
Archaeological Field Technician

Anchor QEA: Lower Duwamish Waterway Shellfish Sampling, Seattle, WA. Conducted background research. Co-author on the cultural resources report, APE letter, and IDP/MIDP. **US Forest Service: Archie Creek Wildfire North Umpqua Trail Archaeological Survey, Umpqua National Forest, OR.** Phases I and II survey, utilizing Field Maps and Trimble. Crew lead site recovery and site relocation; conducted lithic analysis and historic-period material analysis. Lead shovel probe layout, documented field notes. Lead author on report and background research. **Shannon & Wilson Inc.: 8801 E. Marginal Way–Remedial Excavations Project, Tukwila, WA.** Sonic drill rig soil extraction and trench excavation construction monitoring for cultural resources. Lead author on cultural monitoring report, conducted background research, and in direct communication with client throughout monitoring work and report writing. **Shannon & Wilson Inc.: 8801 E. Marginal Way–South Remedial Excavation, Tukwila, WA.** Sonic drill rig soil extraction and trench excavation construction monitoring. Lead author on cultural monitoring report, conducted background research, and in direct communication with client throughout monitoring work and report writing. **Confluence: Stanwood IS4 92nd Ave Drainage Improvements Project, Stanwood, WA.** Wrote the MIDP and updated Appendix A., communicating directly with client. Conducted background research for previously known cultural resources. **PBS Engineering & Environmental: Mojonier Road Reconstruction, College Place, WA.** Drill rig soil extraction construction monitoring for cultural resources. Conducted background research for previously known cultural resources, submitted a monitoring log, organized the photo logs, and co-author for the cultural resources report. **PBS Engineering & Environmental: SR 224 Red Mountain Improvement Project, West Richland, WA.** Phases I and II survey and drill rig soil extraction construction monitoring. Conducted background research for previously known cultural resources and properly documented previously recorded HPI's within the APE while in the field. Submitted weekly monitoring logs, organized the photo logs, and co-author for the cultural resources report. **Weston Solutions, Inc.: Shoreline Repair Project Archaeological Monitoring, Puget Sound Naval Shipyard, Bremerton, WA.** Monitored the excavation of the Naval Base Kitsap Bremerton along the shoreline of Sinclair Inlet for cultural resources. Submitted weekly updates, supporting author on monitoring report and IDP/MIDP. **USDA Forest Service: Willamette CRI, Willamette National Forest, OR.** Phases I and II survey utilizing Field Maps and Trimble. Crew lead site recovery and site relocation; conducted lithic analysis and historic-period material analysis. Lead shovel probe layout and documented field notes. Lead author on report and background research. **South Puget Sound Salmon Enhancement Group: Griffinwood Stables – Griggs Creek Fish Passage Project, Thurston County, WA.** Phase I survey. Logged field notes and conducted background research. Communicated directly with client and supporting author on cultural resources report.

Jacobs Engineering Group: Elliot West Wet Weather Treatment Station Alternatives Evaluation, Seattle, WA. Monitored soil disturbing activity (mud rotary drill rig core barrel extractions, sonic drill rig core barrel extractions) for cultural resources. Logged daily field notes and conducted background research. Lead author on report and MIDP/IDP. **DH Environmental, Inc: Archeological Monitoring-Star Forge Demolition Project, Seattle, WA.** Monitored soil disturbing activity for cultural resources, logged daily field notes, and conducted background research. Lead author on monitoring report and MIDP/IDP. **Washington State Department of Transportation: SR 167 Completion General Engineering Consulting (GEC) Services Project, Tacoma, WA.** Monitored soil disturbing activities (excavation, core barrel extractions, spoils) for cultural resources across a 14-year, \$2.69 billion transportation project. Water screened an identified shell midden alongside members of the Puyallup Tribe of Indians. Logged daily field notes, submitted weekly logs. **U.S. Forest Service: BLM Cascade-Siskiyou National Monument Desktop Review.** Desktop literature review. **Washington Department of Fish and Wildlife: L.T. Murray Complex Vantage Hwy Fire 2022.** Phase 1 Survey. Monitored soil disturbances as over 6,000 trees were being planted. Created monitor logs.