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TELEPHONE/EMAIL: 206-462-1246/torrey@naturaldes.com
COUNTY DEPT: DCNR/Surface Water Management
DEPT. CONTACT PERSON: Lisa Tario
TELEPHONE/EMAIL: 425-261-9775/lisa.tario@snoco.org
PROJECT: Chinook Marsh Restoration
AMOUNT: \$3,095,078
FUND SOURCE: 4255095133/WC3076
CONTRACT DURATION: Date of Execution to December 31, 2030,
unless extended or renewed pursuant to
Section 2 hereof

AGREEMENT #SWMCC02-26 FOR PROFESSIONAL SERVICES

THIS AGREEMENT (the "Agreement") is made by and between SNOHOMISH COUNTY, a political subdivision of the State of Washington (the "County") and NATURAL SYSTEMS DESIGN, INC., a Washington for profit corporation ("NSD"). In consideration of the mutual benefits and covenants contained herein, the parties agree as follows:

1. Purpose of Agreement; Scope of Services. The purpose of this Agreement is design services for the Chinook Marsh Restoration project. The scope of services is as defined in Schedule A attached hereto and by this reference made a part hereof. This Agreement is the product of County RFQ No.26-0704SB Chinook Marsh Restoration, Design Services.

The services shall be performed in accordance with the requirements of this Agreement and with generally accepted practices prevailing in the western Washington region in the occupation or industry in which NSD practices or operates at the time the services are performed. NSD shall perform the work in a timely manner and in accordance with the terms of this Agreement. Any materials or equipment used by NSD in connection with performing the services shall be of good quality. NSD represents that it is fully qualified to perform the services to be performed under this Agreement in a competent and professional manner.

NSD will prepare and present status reports and other information regarding performance of the Agreement as the County may request, consistent with Schedule A.

2. Term of Agreement; Time of Performance. This Agreement shall be effective upon date of execution (the "Effective Date") and shall terminate on December 31, 2030, PROVIDED, HOWEVER, that the term of this Agreement may be extended or renewed for up to two (2) additional two (2) year terms, at the sole discretion of the County, by written notice from the County to NSD. PROVIDED, HOWEVER, that the County's obligations after December 31,

2026, are contingent upon local legislative appropriation of necessary funds for this specific purpose in accordance with the County Charter and applicable law.

3. Compensation.

a. Services. The County will pay NSD for services as and when set forth in Schedule B & C, which is attached hereto and by this reference made a part of this Agreement.

b. Overhead and Expenses. NSD's compensation for services set forth in Section 3a above includes overhead and expenses and no separate claims for reimbursement of overhead or expenses that are not included in Schedule B & C will be allowed under this Agreement.

c. Contract Maximum. Total charges under this Agreement, all fees and expenses included, **shall not exceed \$3,095,078** for the initial term of this Agreement (excluding extensions or renewals, if any).

d. Invoices. NSD shall submit properly executed invoices to the County no more frequently than monthly. Each invoice shall include an itemization of the dates on which services were provided, which task, the number of hours, hourly rates, and a brief description of the work performed on each such date. Other direct expenses can be invoiced as set for in Schedule C. Subject to Section 8 of this Agreement, the County will pay such invoices within thirty (30) calendar days of receipt.

Invoices should be sent by email (preferred method) to:

SWMContracts@snoco.org

OR

mailed to:

Connie Price
Snohomish County DCNR
3000 Rockefeller Ave M/S 303
Everett, WA 98201

e. Payment. The County's preferred method of payment under this contract is electronic using the County's "e-Payable" system with Bank of America. NSD is highly encouraged to take advantage of the electronic payment method.

In order to utilize the electronic payment method, NSD shall email SFB-SnocoEpayables@snoco.org and indicate it was awarded a contract with Snohomish County and will be receiving payment through the County's e-Payable process. NSD needs to provide contact information (name, phone number and email address). NSD will be contacted by a person in the Finance Accounts Payable group and assisted with the enrollment process. This should be done as soon as feasible after County award of a contract or purchase order but not exceeding ten (10) business days.

Department approved invoices received in Finance will be processed for payment within seven calendar days for e-Payable contractors. Invoices are processed for payment by Finance two times a week for contractors who have selected the e-Payable payment option.

In the alternative, if NSD does not enroll in the electronic (“e-Payable”) payment method described above, contract payments will be processed by Finance with the issuance of paper checks or, if available, an alternative electronic method. Alternative payment methods, other than e-Payables, will be processed not more than 30 days from receipt of department approved invoices to Finance.

Upon acceptance of payment, NSD waives any claims for the goods or services covered by the Invoice. No advance payment shall be made for the goods or services furnished by Contractor pursuant to this Contract.

f. Payment Method. In addition to Payment section above, the County may make payments for purchases under this contract using the County’s VISA purchasing card (PCARD).

4. Independent Contractor. NSD agrees that Contractor will perform the services under this Agreement as an independent contractor and not as an agent, employee, or servant of the County. This Agreement neither constitutes nor creates an employer-employee relationship. The parties agree that NSD is not entitled to any benefits or rights enjoyed by employees of the County. NSD specifically has the right to direct and control Contractor’s own activities in providing the agreed services in accordance with the specifications set out in this Agreement. The County shall only have the right to ensure performance. Nothing in this Agreement shall be construed to render the parties partners or joint venturers.

NSD shall furnish, employ and have exclusive control of all persons to be engaged in performing NSD’s obligations under this Agreement (the “Contractor personnel”), and shall prescribe and control the means and methods of performing such obligations by providing adequate and proper supervision. Such Contractor personnel shall for all purposes be solely the employees or agents of NSD and shall not be deemed to be employees or agents of the County for any purposes whatsoever. With respect to Contractor personnel, NSD shall be solely responsible for compliance with all rules, laws and regulations relating to employment of labor, hours of labor, working conditions, payment of wages and payment of taxes, including applicable contributions from Contractor personnel when required by law.

Because it is an independent contractor, NSD shall be responsible for all obligations relating to federal income tax, self-employment or FICA taxes and contributions, and all other so-called employer taxes and contributions including, but not limited to, industrial insurance (workers’ compensation). NSD agrees to indemnify, defend and hold the County harmless from any and all claims, valid or otherwise, made to the County because of these obligations.

NSD assumes full responsibility for the payment of all payroll taxes, use, sales, income, or other form of taxes, fees, licenses, excises or payments required by any city, county, federal or state legislation which are now or may during the term of the Agreement be enacted as to all persons employed by NSD and as to all duties, activities and requirements by NSD in performance of the work under this Agreement. NSD shall assume exclusive liability therefor, and shall meet all requirements thereunder pursuant to any rules or regulations that are now or may be promulgated in connection therewith.

5. Ownership. Any and all data, reports, analyses, documents, photographs, pamphlets, plans, specifications, surveys, films or any other materials created, prepared, produced, constructed, assembled, made, performed or otherwise produced by NSD or NSD's subcontractors or consultants for delivery to the County under this Agreement shall be the sole and absolute property of the County. Such property shall constitute "work made for hire" as defined by the U.S. Copyright Act of 1976, 17 U.S.C. § 101, and the ownership of the copyright and any other intellectual property rights in such property shall vest in the County at the time of its creation. Ownership of the intellectual property includes the right to copyright, patent, and register, and the ability to transfer these rights. Material which NSD uses to perform this Agreement but is not created, prepared, constructed, assembled, made, performed or otherwise produced for or paid for by the County is owned by NSD and is not "work made for hire" within the terms of this Agreement.

6. Changes. No changes or additions shall be made in this Agreement except as agreed to by both parties, reduced to writing and executed with the same formalities as are required for the execution of this Agreement.

7. County Contact Person. The assigned contact person (or project manager) for the County for this Agreement shall be:

Name: Lisa Tario
Title: Engineer III
Department: Conservation and Natural Resource
Telephone: (425) 261-9775
Email: lisa.tario@snoco.org

8. County Review and Approval. When NSD has completed any discrete portion of the services, NSD shall verify that the work is free from errors and defects and otherwise conforms to the requirements of this Agreement. NSD shall then notify the County that said work is complete. The County shall promptly review and inspect the work to determine whether the work is acceptable. If the County determines the work conforms to the requirements of this Agreement, the County shall notify NSD that the County accepts the work.

If the County determines the work contains errors, omissions, or otherwise fails to conform to the requirements of this Agreement, the County shall utilize the following procedure to determine the errors or omissions are of a nature that exceeds the accepted standard of care and will follow this method for the resolution and/or cost recovery procedures in those instances where the County believes it has suffered some material damage due to the alleged error by the NSD.

Step 1 Potential Consultant Design Error(s) is Identified by County's Project Manager

At the first indication of potential consultant design error(s), the first step in the process is for the County's project manager to notify the Director of Public Works or County Engineer regarding the potential design error(s). (Note: The Director of Public Works or County Engineer may appoint an agency staff person other than the project manager, who has not been as directly involved in the project, to be responsible for the remaining steps in these procedures.)

Step 2 Project Manager Documents the Alleged Consultant Design Error(s)

After discussion of the alleged design error(s) and the magnitude of the alleged error(s),

and with the Director of Public Works or County Engineer's concurrence, the project manager obtains more detailed documentation than is normally required on the project. Examples include all decisions and descriptions of work, photographs, records of labor, materials, and equipment.

Step 3 Contact the Consultant Regarding the Alleged Design Error(s)

If it is determined that there is a need to proceed further, the next step in the process is for the project manager to contact NSD regarding the alleged design error(s) and the magnitude of the alleged error(s). The project manager and other appropriate County staff should represent the County and NSD would be represented by their project manager and any personnel (including sub-consultants) deemed appropriate for the alleged design error(s) issue.

Step 4 Attempt to Resolve Alleged Design Error with NSD

After the meeting(s) with NSD and any applicable sub-consultants have been completed regarding the alleged design error(s), there are three possible scenarios:

- It is determined via mutual agreement that there is not a consultant design error(s). If this is the case, then the process will not proceed beyond this point.
- It is determined via mutual agreement that a consultant design error(s) occurred. If this is the case, then the Director of Public Works or County Engineer, or their representatives, negotiate a settlement with NSD. The settlement would be paid to the County or the amount would be reduced from NSD's agreement with the County for the services on the project in which the design error took place.
- There is not a mutual agreement regarding the alleged consultant design error(s). NSD may request that the alleged design error(s) issue be forwarded to the Director of Public Works or County Engineer for review. If the Director of Public Works or County Engineer, after review with their legal counsel, is not able to reach mutual agreement with NSD, proceed to arbitration or litigation.

9. Subcontracting and Assignment. NSD shall not subcontract, assign, or delegate any of the rights, duties or obligations in this Agreement without prior express written consent of the County. Any subcontractors or vendors identified in Schedule A are approved by written consent through this Agreement and no additional consent is required. Any attempt by NSD to subcontract, assign, or delegate any portion of NSD's obligations under this Agreement to another party in violation of this provision shall be null and void and shall constitute a material breach of this Agreement.

10. Records and Access; Audit; Ineligible Expenditures. NSD shall maintain adequate records to support billings. Said records shall be maintained for a period of seven (7) years after completion of this Agreement by NSD. The County or any of its duly authorized representatives shall have access at reasonable times to any books, documents, papers and records of NSD which are directly related to this Agreement for the purposes of making audit examinations, obtaining excerpts, transcripts or copies, and ensuring compliance by the County with applicable laws. Expenditures under this Agreement, which are determined by audit to be ineligible for reimbursement and for which payment has been made to NSD, shall be refunded to the County by NSD.

11. Indemnification.

a. Professional Liability.

NSD agrees to indemnify the County and, if any funds for this Agreement are provided by the State, the State and their officers, officials, agents and employees from damages and liability for damages, including reasonable attorneys' fees, court costs, expert witness fees, and other claims-related expenses, arising out of the performance of NSD's professional services under this Agreement, to the extent that such liability is caused by the negligent acts, errors or omissions of NSD, its principals, employees or subcontractors. NSD has no obligation to pay for any of the indemnitees' defense-related cost prior to a final determination of liability or to pay any amount that exceeds Contractor's finally determined percentage of liability based upon the comparative fault of NSD, its principals, employees and subcontractors. For the purpose of this section, the County and NSD agree that the County's and, if applicable, the State's costs of defense shall be included in the definition of damages above.

b. All Other Liabilities Except Professional Liability.

To the maximum extent permitted by law and except to the extent caused by the sole negligence of the County and, if any funds for this Agreement are provided by the State, the State, NSD shall indemnify and hold harmless the County and the State, their officers, officials, agents and employees, from and against any and all suits, claims, actions, losses, costs, penalties and damages of whatsoever kind or nature arising out of, in connection with, or incidental to the services and/or deliverables provided by or on behalf of NSD. In addition, NSD shall assume the defense of the County and, if applicable, the State and their officers and employees in all legal or claim proceedings arising out of, in connection with, or incidental to such services and/or deliverables and shall pay all defense expenses, including reasonable attorneys' fees, expert fees and costs incurred by the County and, if applicable, the State, on account of such litigation or claims.

The above indemnification obligations shall include, but are not limited to, all claims against the County and, if applicable, the State by an employee or former employee of NSD or its subcontractors, and NSD, by mutual negotiation, expressly waives all immunity and limitation on liability, as respects only the County and, if applicable, the State, under any industrial insurance act, including Title 51 RCW, other worker's compensation act, disability benefit act, or other employee benefit act of any jurisdiction which would otherwise be applicable in the case of such claim.

In the event that the County or, if applicable, the State incurs any judgment, award and/or cost including attorneys' fees arising from the provisions of this section, or to enforce the provisions of this section, any such judgment, award, fees, expenses and costs shall be recoverable from NSD.

In addition to injuries to persons and damage to property, the term "claims," for purposes of this provision, shall include, but not be limited to, assertions that the use or transfer of any software, book, document, report, film, tape, or sound reproduction or material of any kind, delivered hereunder, constitutes an infringement of any copyright, patent, trademark, trade name, and/or otherwise results in an unfair trade practice.

The indemnification, protection, defense and save harmless obligations contained herein shall survive the expiration, abandonment or termination of this Agreement.

Nothing contained within this provision shall affect or alter the application of any other provision contained within this Agreement.

12. Insurance Requirements. NSD shall procure by the time of execution of this Agreement, and maintain for the duration of this Agreement, (i) insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the services hereunder by NSD, its agents, representatives, or employees, and (ii) a current certificate of insurance and additional insured endorsement when applicable.

A. General. Each insurance policy shall be written on an "occurrence" form, except that Professional Liability, Errors and Omissions coverage, if applicable, may be written on a claims made basis. If coverage is approved and purchased on a "claims made" basis, NSD warrants continuation of coverage, either through policy renewals or the purchase of an extended discovery period, if such extended coverage is available, for not less than three (3) years from the date of completion of the work which is the subject of this Agreement.

By requiring the minimum insurance coverage set forth in this Section 12, the County shall not be deemed or construed to have assessed the risks that may be applicable to NSD under this Agreement. NSD shall assess its own risks and, if it deems appropriate and/or prudent, maintain greater limits and/or broader coverage.

B. No Limitation on Liability. NSD's maintenance of insurance as required by this Agreement shall not be construed to limit the liability of NSD to the coverage provided by such insurance or otherwise limit the County's recourse to any remedy available at law or in equity.

C. Minimum Scope and Limits of Insurance. NSD shall maintain coverage at least as broad as, and with limits no less than:

(i) General Liability: \$1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage, and for those policies with aggregate limits, a \$2,000,000 aggregate limit. CG 00 01 current edition, including Products and Completed Operations;

(ii) Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage. CA 0001 current edition, Symbol 1;

(iii) Workers' Compensation: To meet applicable statutory requirements for workers' compensation coverage of the state or states of residency of the workers providing services under this Agreement;

(iv) Employers' Liability or "Stop Gap" coverage: \$1,000,000

(v) Professional Liability: \$3,000,000.

D. Marine Insurance. For the entity doing in-water work, the following requirements are included, as applicable, if a vessel and/or diver is used:

i. Marine General Liability (MGL) OR Commercial General Liability with no waterborne exclusions including coverage for: Contractual

Liability, Products and Completed Operations, Bodily Injury and Property Damage. Coverage shall be on an occurrence basis and limits of liability shall not be less than \$2,000,000 per occurrence and \$4,000,000 in the aggregate. The General Aggregate limit is to apply separately to each project.

ii. Hull and Machinery, with coverage equal to that provided by the American Institute Hull Clause (6117), including collision liability, with the Sistership clause unamended, with limits of liability equal to the full value of the vessel and with the navigational limitations adequate for Subcontractor to perform the contracted work.

iii. Protection and Indemnity (P&I) covering injuries to or death of masters, mates, crews of vessels and Maritime employees. Coverage is to include Voluntary Removal of Wreck and/or Debris Insurance. The limits of liability of such insurance shall be equal to the value of each Vessel covered or \$2,000,000, whichever is greater.

iv. Vessel Pollution Liability: Minimum limits: \$1,000,000.

v. Maritime Employers Liability (MEL). Minimum limits: \$1,000,000. Divers employed for this work shall be commercially certified.

vi. USL&H: NSD shall make the determination as to whether workers are to be covered under the Longshoremen's and Harbor Worker's Compensation Act administered by the U.S. Department of Labor, Jones Act, or the State Industrial Insurance coverage administered by the Washington State Department of Labor and Industries, or multiple coverages. Policy shall contain Alternate Employers endorsement in favor of Owner. Such insurance shall provide statutory limits for compensation coverage and with minimum limits of \$1,000,000.00 for employers and maritime employer's liability.

vii. P&I and Vessel Pollution Liability shall include a Waiver of Subrogation in favor of the County.

E. Other Insurance Provisions and Requirements. The insurance coverages required in this Agreement for all liability policies except workers' compensation and Professional Liability, if applicable, must contain, or must be endorsed to contain, the following provisions:

(i) The County, its officers, officials, employees and agents are to be covered as additional insureds as respects liability arising out of activities performed by or on behalf of NSD in connection with this Agreement. Such coverage shall be primary and non-contributory insurance as respects the County, its officers, officials, employees and agents. Additional Insured Endorsement shall be included with the certificate of insurance, "CG 2026 07/04" or its equivalent is required.

(ii) NSD's insurance coverage shall apply separately to each insured against whom a claim is made and/or lawsuit is brought, except with respect to the limits of the insurer's liability.

(iii) Any deductibles or self-insured retentions must be declared to, and approved by, the County. The deductible and/or self-insured retention of the policies shall

not limit or apply to NSD's liability to the County and shall be the sole responsibility of NSD.

(iv) Insurance coverage must be placed with insurers with a Best's Underwriting Guide rating of no less than A:VIII, or, if not rated in the Best's Underwriting Guide, with minimum surpluses the equivalent of Best's surplus size VIII. Professional Liability, Errors and Omissions insurance coverage, if applicable, may be placed with insurers with a Best's rating of B+:VII. Any exception must be approved by the County.

Coverage shall not be suspended, voided, canceled, reduced in coverage or in limits until after forty-five (45) calendar days' prior written notice has been given to the County.

If at any time any of the foregoing policies fail to meet minimum requirements, NSD shall, upon notice to that effect from the County, promptly obtain a new policy, and shall submit the same to the County, with the appropriate certificates and endorsements, for approval.

F. Subcontractors. NSD shall include all subcontractors as insureds under its policies, or shall furnish separate certificates of insurance and policy endorsements for each subcontractor. **Insurance coverages provided by subcontractors instead of NSD as evidence of compliance with the insurance requirements of this Agreement shall be subject to all of the requirements stated herein.**

13. County Non-discrimination. It is the policy of the County to reject discrimination which denies equal treatment to any individual because of his or her race, creed, color, national origin, families with children, sex, marital status, sexual orientation, age, honorably discharged veteran or military status, or the presence of any sensory, mental, or physical disability or the use of a trained dog guide or service animal by a person with a disability as provided in Washington's Law against Discrimination, Chapter 49.60 RCW, and the Snohomish County Human Rights Ordinance, Chapter 2.460 SCC. These laws protect against specific forms of discrimination in employment, credit transactions, public accommodation, housing, county facilities and services, and county contracts.

NSD shall comply with the substantive requirements of Chapter 2.460 SCC, which are incorporated herein by this reference. Execution of this Agreement constitutes a certification by NSD of NSD's compliance with the requirements of Chapter 2.460 SCC. If NSD is found to have violated this provision, or to have furnished false or misleading information in an investigation or proceeding conducted pursuant to this Agreement or Chapter 2.460 SCC, this Agreement may be subject to a declaration of default and termination at the County's discretion. This provision shall not affect NSD's obligations under other federal, state, or local laws against discrimination.

14. Federal Non-discrimination. Snohomish County assures that no persons shall on the grounds of race, color, national origin, or sex as provided by Title VI of the Civil Rights Act of 1964 (Pub. L. No. 88-352), as amended, and the Civil Rights Restoration Act of 1987 (Pub. L. No. 100-259) be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any County sponsored program or activity. Snohomish County further assures that every effort will be made to ensure nondiscrimination in all of its programs and activities, whether those programs and activities are federally funded or not.

15. Employment of County Employees. SCC 2.50.075, "Restrictions on future

employment of County employees,” imposes certain restrictions on the subsequent employment and compensation of County employees. NSD represents and warrants to the County that it does not at the time of execution of this Agreement, and that it shall not during the term of this Agreement, employ a former or current County employee in violation of SCC 2.50.075. For breach or violation of these representations and warranties, the County shall have the right to terminate this Agreement without liability.

16. Compliance with Other Laws. NSD shall comply with all other applicable federal, state and local laws, rules, and regulations in performing this Agreement.

17. Compliance with Grant Terms and Conditions. NSD shall comply with any and all conditions, terms and requirements of any federal, state or other grant, if any, that wholly or partially funds NSD’s work hereunder.

18. Prohibition of Contingency Fee Arrangements. NSD warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for NSD, to solicit or secure this Agreement and that it has not paid or agreed to pay any company or person, other than a bona fide employee working solely for NSD, any fee, commission, percentage, brokerage fee, gifts or any other consideration, contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, the County shall have the right to terminate this Agreement without liability or, in its discretion, to deduct from the Agreement price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift or contingent fee.

19. Force Majeure. If either party is unable to perform any of its obligations under this Agreement as a direct result of an unforeseeable event beyond that party’s reasonable control, including but not limited to an act of war, act of nature (including but not limited to earthquake and flood), embargo, riot, sabotage, labor shortage or dispute (despite due diligence in obtaining the same), or governmental restriction imposed subsequent to execution of the Agreement (collectively, a “force majeure event”), the time for performance shall be extended by the number of days directly attributable to the force majeure event. Both parties agree to use their best efforts to minimize the effects of such failures or delays.

20. Suspension of Work. The County may, at any time, instruct NSD in writing to stop work effective immediately, or as directed, pending either further instructions from the County to resume the work or a notice from the County of breach or termination under Section 21 of this Agreement.

21. Non-Waiver of Breach; Termination.

a. The failure of the County to insist upon strict performance of any of the covenants or agreements contained in this Agreement, or to exercise any option conferred by this Agreement, in one or more instances shall not be construed to be a waiver or relinquishment of those covenants, agreements or options, and the same shall be and remain in full force and effect.

b. If NSD breaches any of its obligations hereunder, and fails to cure the same within fifteen (15) business days of written notice to do so by the County, the County may terminate this Agreement, in which case the County shall pay NSD only for the services and

corresponding reimbursable expenses, if any, accepted by the County in accordance with Sections 3 and 8 hereof.

c. The County may terminate this Agreement upon fifteen (15) business days' written notice to NSD for any reason other than stated in subparagraph b above, in which case payment shall be made in accordance with Sections 3 and 8 hereof for the services and corresponding reimbursable expenses, if any, reasonably and directly incurred by NSD in performing this Agreement prior to receipt of the termination notice.

d. Termination by the County hereunder shall not affect the rights of the County as against NSD provided under any other section or paragraph herein. The County does not, by exercising its rights under this Section 21, waive, release or forego any legal remedy for any violation, breach or non-performance of any of the provisions of this Agreement. At its sole option, the County may deduct from the final payment due NSD (i) any damages, expenses or costs arising out of any such violations, breaches or non-performance and (ii) any other set-offs or credits including, but not limited to, the costs to the County of selecting and compensating another contractor to complete the work of the Agreement.

22. Notices. All notices and other communications shall be in writing and shall be sufficient if given, and shall be deemed given, on the date on which the same has been mailed by certified mail or email with a return receipt requested, postage prepaid, addressed as follows:

If to the County: Snohomish County
Surface Water Management
3000 Rockefeller Ave M/S 303
Everett, Washington 98201
Attention: Lisa Tario
 lisa.tario@snoco.org

If to NSD: Natural Systems Design Inc.
1900 N Northlake Way Suite 211
Seattle, WA 98103
Attention: Torrey Luiting
 torrey@naturaldes.com

The County or NSD may, by notice to the other given hereunder, designate any further or different addresses to which subsequent notices or other communications shall be sent.

23. Confidentiality. NSD shall not disclose, transfer, sell or otherwise release to any third party any confidential information gained by reason of or otherwise in connection with NSD's performance under this Agreement. NSD may use such information solely for the purposes necessary to perform its obligations under this Agreement. NSD shall promptly give written notice to the County of any judicial proceeding seeking disclosure of such information.

24. Public Records Act. This Agreement and all public records associated with this Agreement shall be available from the County for inspection and copying by the public where required by the Public Records Act, Chapter 42.56 RCW (the "Act"). To the extent that public records then in the custody of NSD are needed for the County to respond to a request under the

Act, as determined by the County, NSD agrees to make them promptly available to the County. If NSD considers any portion of any record provided to the County under this Agreement, whether in electronic or hard copy form, to be protected from disclosure under law, NSD shall clearly identify any specific information that it claims to be confidential or proprietary. If the County receives a request under the Act to inspect or copy the information so identified by NSD and the County determines that release of the information is required by the Act or otherwise appropriate, the County's sole obligations shall be to notify NSD (a) of the request and (b) of the date that such information will be released to the requester unless NSD obtains a court order to enjoin that disclosure pursuant to RCW 42.56.540. If NSD fails to timely obtain a court order enjoining disclosure, the County will release the requested information on the date specified.

The County has, and by this section assumes no obligation on behalf of NSD to claim any exemption from disclosure under the Act. The County shall not be liable to NSD for releasing records not clearly identified by NSD as confidential or proprietary. The County shall not be liable to NSD for any records that the County releases in compliance with this section or in compliance with an order of a court of competent jurisdiction.

25. Interpretation. This Agreement and each of the terms and provisions of it are deemed to have been explicitly negotiated by the parties. The language in all parts of this Agreement shall, in all cases, be construed according to its fair meaning and not strictly for or against either of the parties hereto. The captions and headings of this Agreement are used only for convenience and are not intended to affect the interpretation of the provisions of this Agreement. This Agreement shall be construed so that wherever applicable the use of the singular number shall include the plural number, and vice versa, and the use of any gender shall be applicable to all genders.

26. Complete Agreement. NSD was selected through the County's RFP or RFQ identified in Section 1. The RFP or RFQ and NSD's response are incorporated herein by this reference. To the extent of any inconsistency among this Agreement, the RFP or RFQ, and NSD's response, this Agreement shall govern. To the extent of any inconsistency between the RFP or RFQ and NSD's response, the RFP or RFQ shall govern.

27. Conflicts between Attachments and Text. Should any conflicts exist between any attached exhibit or schedule and the text or main body of this Agreement, the text or main body of this Agreement shall prevail.

28. No Third Party Beneficiaries. The provisions of this Agreement are for the exclusive benefit of the County and NSD. This Agreement shall not be deemed to have conferred any rights, express or implied, upon any third parties.

29. Governing Law; Venue. This Agreement shall be governed by the laws of the State of Washington. The venue of any action arising out of this Agreement shall be in the Superior Court of the State of Washington, in and for Snohomish County.

30. Severability. Should any clause, phrase, sentence or paragraph of this agreement be declared invalid or void, the remaining provisions of this Agreement shall remain in full force and effect.

Schedule A Scope of Services

The project goal: To progress design of the Chinook Marsh Restoration project from concept through 60% design and permit applications, and then through final, bid-ready design and construction, based on the preferred alternative selected by the County based on the Feasibility Assessment. This effort will also include ongoing coordination and input from the project's Partner Group, Network Group, public meetings, additional field data collection, environmental permitting, and engineering support services during construction.

NSD includes four subconsultant specialists to perform work in support of these overall Team tasks. Each subconsultant's work is separated into their own subtask for ease of tracking deliverables and budget:

1. Geosyntec Consultants Inc. (Geosyntec) for geotechnical engineering and to lead design of the setback levee,
2. Northwest Hydraulic Consultants (NHC) for outreach and public meeting support and input on hydraulic model development, floodplain compliance analysis, and hydraulic model QAQC.
3. Equinox Research and Consulting International (ERCI) for cultural resources survey, support with NHPA Section 106 permitting, and cultural resources monitoring as required.
4. Parametrix for boundary and topographic services by a professional land surveyor (PLS) and easement acquisition and real estate services by their subconsultant Contract Land Staff (CLS).

This scope of work has been divided into four phases encompassing the following list of tasks and linked to specific project deliverables and is based on current knowledge. After completion of Phase I there will be opportunities to re-scope the tasks in Phase 2 through 4 through amendment based on information learned in Phase I of the design.

PHASE 1 PRELIMINARY (60%) DESIGN

1. Phase 1 Project Management, Coordination, & Outreach – NSD
2. Phase 1 Outreach and Communications Support - NHC
3. Additional Data Collection – Topographic and Wetlands Delineation – NSD
4. Site Survey and Real Estate Support –Parametrix (with CLS)
5. Cultural Resources Assessment – ERCI
6. Preliminary (60%) Hydraulic Modeling – NSD
7. Flood Risk Evaluation and Hydraulic Model Review – NHC
8. Preliminary (60%) Restoration Design – NSD
9. Preliminary (60%) Geotechnical Engineering – Geosyntec
10. Regulatory Agency Coordination and Preparation of Permit Applications -NSD

10A. Phase 1 Contingency

PHASE 2 FINAL DESIGN

11. Phase 2 Project Management, Coordination, & Outreach – NSD
12. Phase 2 Outreach and Communications Support - NHC
13. Boundary Survey and Real Estate Support – Parametrix (with CLS)
14. Cultural Resources Permitting Support – ERCI
15. Final Hydraulic Modeling – NSD
16. Floodplain Compliance – NHC
17. Draft Final (90%) and Final Restoration Design and Bid Support – NSD
18. Final Geotechnical Engineering and Bid Support – Geosyntec
19. Environmental Permitting Support – NSD

PHASE 3 CONSTRUCTION SUPPORT

20. Phase 3 Project Management, Coordination, and Outreach – NSD
21. Phase 3 Outreach and Communications Support -NHC
22. Construction Survey – Parametrix (with CLS)
23. Cultural Resources Monitoring During Construction – ERCI
24. Geotechnical Construction Support – Geosyntec
25. Construction Support – NSD

PHASE 4 CONSTRUCTION SUPPORT

26. Levee Topping Construction Support – Geosyntec
27. Levee Topping Project Management and Construction Support – NSD
28. Survey Support for Levee Topping – Parametrix

Phase 1 Preliminary (60%) Design

TASK 1 PHASE 1 PROJECT MANAGEMENT, COORDINATION, & OUTREACH - NSD

Subtask 1.1 Project Management and Coordination

NSD will provide project management services under this task, including regular status updates to the County via e-mail or by phone. NSD will provide updates to the County to facilitate the tracking of progress and to communicate major findings through the course of this phase of the project. NSD will coordinate all team subconsultants and manage team schedule and budget including review and approval of monthly subconsultant invoices. The project management team will produce monthly progress reports to accompany its invoices for services completed.

Project management will also include developing and maintaining a Risk Register to identify, evaluate, and track risks specifically related to constructability, budget, schedule, and permitting.

The risk register will be a shared spreadsheet to identify and track risks including the County and design team's approach to addressing each risk. A designee from each subconsultant will be tasked with populating risks to be consolidated and organized by NSD. The Risk Register will be stored on the County's SharePoint site for full transparency.

Subtask 1.2 Project Planning and Coordination

NSD will complete the initial project planning that will lay the groundwork for getting project design and environmental permitting completed in time to begin construction in 2028. Upon Notice-to-Proceed (NTP), NSD will organize a project kick off meeting with the County's internal staff Core Group to initiate Phase 1 of the project; establish lines of communication and any communication preference updates; and review the schedule and key milestones.

NSD will engage closely with the County to refine the previously developed detailed schedule for the sequence of tasks in 2026 through 2029 with advertisement for the first phase of construction to occur in early 2028.

Included in this task is participation by NSD's project manager or principal, and other technical leads where appropriate, in project coordination meetings at the following anticipated frequency and duration:

- ▶ NSD Team and County project kick off meeting, virtual with 1-hour duration, plus preparation.
- ▶ Core Group meetings: Weekly NSD PM to County PM meetings, 0.5 hour virtual occurring within the County's standing Core Group Meetings (currently occurring on Fridays). Additional staff may attend as warranted by topic of focus for particular meetings.
- ▶ Monthly subconsultant coordination meetings are also included in this task.

Subtask 1.3 Partner, Network, Diking Districts, and Public Meeting Support

NSD will collaborate with DCNR Communications to keep project partners and the public informed about the status and progress of the project. NSD will lead this task, with support from NHC for the public meetings and if requested by the County during coordination with the diking and drainage districts as assumed below in Task 2.

Partner and Network Group Meetings

NSD will work with the County to coordinate recurring meetings of the Partner and Network groups, as defined by the County, through Phase 1 and will provide technical information including project details and graphics as appropriate to the focus of each meeting.

It is anticipated that the Partner group will meet twice (Oct/Nov 2026 and early March 2027) and the Network group will meet once (late March 2027) during this phase.

NSD will organize up to 3, 2-hour virtual meetings attended by up to three NSD staff, with staffing determined by topic/focal area for the meeting. NSD will prepare slide deck and related graphics for the meetings.

Public Meeting

NSD will collaborate with the County to organize a public meeting/open house event in late March 2027. The County will organize the venue, date, and time and prepare the advance communications (email, postcard, website updates).

NSD will prepare the presentation and attend the public meeting, anticipated to be up to a 6-hour in-person event (including travel time), with presentations led by the County and aided and attended by up to five NSD team members, including PM and design leads and up to two additional meeting support staff.

The public open house is anticipated to occur near the conclusion of the 60% design effort in Phase 1. The exact schedule will be determined in cooperation with the County.

Diking Districts

We anticipate DD1, DD2, and DD13 will require individualized outreach plans given their specific concerns around flood storage, erosion risk, and wood racking. To avoid stumbling blocks late in the design process, particularly given multiple regulatory processes which will involve formal public comment, NSD will continue conversations with each District, to continue to show them anticipated project outcomes and to provide them a venue to identify any concerns.

This task includes preparation for and attendance at nine, 4-hour in-person meetings (three each with DD1, DD2 and DD13) to present updated project information and hydraulic modeling results. Meetings will be attended by up to 3 NSD staff.

Subtask 1.4 ESRP Grant Support

NSD will assist the County with their Estuary and Salmon Restoration Program (ESRP) grant administration and management by providing support for County preparation of one end of 2026 PRISM progress report that describes project accomplishments, status, and key metrics. NSD support will include supplying short narratives to outline tasks and deliverable accomplishments and status of tasks completed, in progress, and anticipated in the next reporting period.

Assumptions

- ▶ The duration of Phase 1 will be 8 months, August 2026 through March 2027.
- ▶ NSD Team and County Kick off meeting (virtual) will have a duration of 1 hour.
- ▶ Monthly coordination with subconsultants and processing of invoices to County standards will require 2 hours a month for the NSD project manager and 2 hours per month for NSD billing support.
- ▶ Core Group meetings will require 0.5 hours per week for the NSD project manager.
- ▶ Monthly subconsultant coordination meetings will require 1 hour plus preparation for the NSD project manager.
- ▶ In-person meetings will be held in Everett at a location determined by the County.
- ▶ Timing of Partner, Network, Public and Diking District meetings will be determined according to progress moving through the design process.

- ▶ This task includes time for NSD attendance at ten, 1-hour pre-meeting coordination meetings, plus an additional 2 hours for meetings specifically to prepare for the public meeting.
- ▶ NSD's support with ESRP grant information will span one progress update report in 2026 and include a level of effort commensurate with 4 hours NSD support.

Deliverables

- ▶ Kickoff Meeting attendance (virtual) – NSD Team and Snohomish County.
- ▶ Core Group meeting attendance weekly, with email summary of follow-up tasks and task owners as appropriate to advance project.
- ▶ Monthly NSD Team invoices and summary notes including subconsultant invoices.
- ▶ Correspondence with the County via email and phone to maintain open communication.
- ▶ Draft and final meeting agendas, notes, and action items for Partner and Network group meetings.
- ▶ Content and materials to contribute to scoped meetings.
- ▶ Compiled notes and summary of comments for Partner, Network, and Diking District meetings.
- ▶ Compiled notes and summary of comments from public meeting to support final compilation by NHC in Task 2.
- ▶ Risk register matrix maintained throughout life of the project housed on Snohomish County sharepoint site.
- ▶ Narrative, project metrics, and grant reporting support materials as specified by the County.

TASK 2 OUTREACH AND COMMUNICATIONS - NHC

Under Task 1, NSD will work with the County to coordinate recurring meetings of the Partner and Network groups through Phase 1 and will provide technical information including project details and graphics as appropriate to the focus of each meeting. NHC will provide additional outreach and communications support to NSD and the County for specific component meetings.

Subtask 2.1 Public Meeting Support

NHC will collaborate with NSD and the County to organize one public open house event, anticipated to be up to a 6-hour in-person event, with presentations led by the County and NSD and aided and attended by up to four NHC team members. The public open house is anticipated to occur in early 2027 following the completion of 60% design. The exact schedule will be determined in cooperation with the County.

Subtask 2.2 Diking and Drainage District Coordination Support

This task includes preparation for and attendance by NHC at nine, 4-hour in-person meetings (three each with DD1, DD2 and DD13) to present updated project information and hydraulic modeling results. Meetings will be attended by up to 2 NHC staff at each meeting.

Assumptions

- ▶ Frequency and timing of meetings will be determined according to progress moving through the design process.
- ▶ In-person meetings will be held in Everett at a location determined by the County.
- ▶ This task also includes time for NHC's Phase 1 project management efforts, including attendance at seven, 1-hour pre-meeting coordination meetings, plus an additional 2 hours for meetings specifically to prepare for the public meeting.

Deliverables

- ▶ Draft content and modeling materials from NHC to contribute to Diking District and Public meetings.
- ▶ Summary of all comments from the Public meeting compiled for County records.

TASK 3 ADDITIONAL DATA COLLECTION - NSD

Subtask 3.1 Topographic and Bathymetric Survey

Subtask 3.1.1 Field Deployment

To support the next phases of design, NSD's field team will conduct a more detailed topographic and bathymetric survey of key areas within the marsh and the existing drainage network that were identified as being particularly important for drainage or to refine earthmoving volumes. Survey data will be collected using primarily RTK GPS survey equipment with the bathymetric survey of the channels and ditches using sonar pulled by small watercraft used in the non-wadeable portions to support refinement of their extent, characteristics, and volume.

Effort will be focused on getting topobathymetric definition for areas most affected by cut or fill as proposed in Concept Design Alternatives 1 and 2. The intention of this focused effort is to minimize the errors in earthwork volume calculations, such that final design bid quantities represent reality as much as reasonably possible. Such definition will also help refine and make the hydraulic model more accurate. To that end, NSD topobathymetric survey will be concentrated on:

- ▶ Proposed fill locations, primarily existing ditches (where resolution is poor from initial survey), with extra focus on any interface with the existing levee
- ▶ Proposed cut locations, primarily new tidal channel alignment, with proposed wetland pond areas as time allows
- ▶ Course resolution of Mosher Creek, sufficient to consider re-routing and alignment as design progresses
- ▶ Locations and general geometry of tributary inflows (lower priority, as time allows)

Bathymetric survey would be conducted using real-time kinematic (RTK) techniques to an anticipated accuracy of +/- 0.15 feet. The survey team will utilize survey-grade GNSS (Global Navigation Satellite System) receivers with either base-station or Washington State Reference Network (WSRN) RTK corrections depending on the use case. Survey will be tied into and calibrated to the site's local control previously provided by the County. If helpful to streamline data collection,

select data (i.e., levee top topography) could be collected via RTK drone. All measurements will be reported in US survey feet relative to the NAD83/2011 Washington State Plane North (4601) coordinate system and NAVD88 (Geoid 12B) vertical datums, respectively.

Subtask 3.1.2 Data Processing & Surface Creation

NSD will QA/QC all survey data collected by our team or provided by Parametrix to provide internal consistency. The newly collected topographic and bathymetric data of the ditches, marsh, and levee will then be merged with the representation of the marsh surface created during the feasibility phase to create a more refined topo-bathymetric surface of the project site for use in the project design phase.

Subtask 3.1.3 Survey Subcontractor Coordination

This task includes time for providing direction to and technical coordination with Parametrix and for review of their draft work products.

Subtask 3.2 Wetlands and Waters Delineation

Subtask 3.2.1 Wetlands and Waters Field Delineation

The feasibility phase determined that nearly the entire site supports wetlands and waters of the US in the form of the ditch network connected to Ebey Slough. However, this conclusion needs to be documented according to USACE and Ecology requirements to support the project's permitting process. Given the size of the site, NSD will use a combination of the relative elevation mapping (REM) completed during the feasibility phase and targeted wetland data plots to efficiently complete a wetland delineation to support federal, state, and County permits. We will focus our efforts on defining the wetland boundary at the upland/wetland interface along the Ebey Slough levee and along Fobes Hill where the setback levee would meet high ground. We will also collect the wetland rating and function data to demonstrate the gain in aquatic resources function to align with NWP 27.

NSD wetland biologists will determine wetland boundaries through the collection of wetland and upland sample plot data collected in multiple locations using a variation of the point-intercept and transect survey method as described in the U.S. Army Corps of Engineers (USACE) 1987 Delineation Manual as updated by the Regional Supplement to the Corps of Engineers Wetland Delineation Manual for the Western Mountains, Valley, and Coast Region (USACE, 2010).

NSD will use elevational field transects oriented perpendicular to topographic gradients within the site to guide the collection of Corps standard wetland determination sample plots, and utilize available LIDAR, relative elevation model (REM) data and GIS analysis to determine the elevation break between uplands and wetlands and then apply that elevation across the study area (with modification where necessary due to the size of the site). Transect locations will maximize variation in elevation and plant community types. Sample plot locations will be recorded with a Juniper Geode GNSS receiver or similar unit for sub-meter location and elevation accuracy. Additional wetland, upland, and boundary elevations will be recorded outside of the transects to increase the sample size of the elevation data.

Sample and supplemental plot elevations (determined by GPS coordinates and the REM) will be grouped into wetland, non-wetland, and boundary categories. GIS will be used to project potential wetland extents using polygons defined by several mean to upper wetland elevations. These wetland boundaries will be compared with the sample and supplemental plot data, photographs, and topography and refined if necessary. Based on the elevation of the wetland, boundary, and upland plots, the ecologists will select the best boundary to represent the size and layout of the wetlands as observed in the field and generally as consistent with the wetland determination data. GIS will be used to reclassify elevations greater than the wetland boundary as non-wetland, lower than the wetland boundary as wetland, and unvegetated areas less than or equal to the elevation of Ordinary High Water Mark (OHWM) as waters of the U.S. (i.e., interior ditches). NSD will smooth the boundary line, fill-in gaps, and eliminate isolated areas to a minimum resolution of 150 square feet (area) or 2 feet (width). NSD will calculate the High Tide Line as the boundary of regulated waters of the US in Ebey Slough, which will be illustrated within the delineation report and associated JARPA figures (Task 10).

NSD will also conduct a field verification site visit with Corps and Ecology wetland specialists if/as requested by the agencies to verify the delineation.

Subtask 3.2.1 Wetlands and Waters Delineation Report

NSD will determine wetland category based on the Ecology rating form for Western Washington (Hruby 2014), with related analysis and mapping of vegetation communities, hydroperiods, and landscape context conducted in GIS. Rating forms will be filled out using one typical wetland to represent each wetland type within the project area (e.g. depressional, forested wetlands; depressional emergent wetlands; tidal marsh along Ebey Slough).

Following completion of the wetland delineation, NSD will prepare a Wetlands and Waters Delineation report to document the location and extent of wetlands and waters within the delineation study area, the Ecology ratings derived from the rating forms and figures, and the functions of the wetlands. This report is a required component of the regulatory permit application materials (Task 10) and will serve as the basis for determining unavoidable impacts to wetlands and waters and their buffers.

Assumptions

- ▶ Field deployments will be accomplished in the 2026 dry season before the onset of winter rains. Site conditions are such that the topographic and bathymetric survey, as well as the wetland delineation, can be accomplished as scoped.
- ▶ We have assumed this level of survey effort can be completed over three, 12-hour working days by a survey crew of four people.
- ▶ We have assumed this level of wetland delineation work can be completed by two teams of two NSD biologists (4 staff total) over three, 12-hour working days.
- ▶ The County will arrange all required rights of entry on private property for survey and wetlands work.
- ▶ Survey control set by the County in 2024 is still in place and locatable.
 - The County will reset any lost control points prior to NSD field deployment.

- ▶ The NSD portion of the survey will not be conducted by a licensed surveyor. A professional engineer will oversee the survey, and the data will be used for hydraulic modeling and design purposes only.
- ▶ NSD will provide the RTK GNSS equipment and sonar unit for bathymetric data collection to be used with an NSD inflatable kayak/small vessel.
- ▶ Property boundaries will not be located or delineated under this task.
- ▶ Flood elevations or property elevations with respect to flood insurance or other official uses will not be determined under this task.
- ▶ The performance period for all subtasks assumes that surface water conditions are safe for small watercraft operation and wading (in selected areas).
- ▶ Non-wadable areas may be subject to higher vertical error (estimated ± 1 ft) due to submerged aquatic vegetation and mucky substrate.
- ▶ The resolution of bathymetric survey areas will be more coarse compared to topographic surfaces derived from LiDAR, as LiDAR is able to collect much higher point density compared to sonar or wading.
- ▶ Data collection will depend on satellite coverage. Conventional methods of surveying such as with transits or total stations are not expected to be needed.
- ▶ Wetland buffers will be determined based on wetland category and Snohomish County Critical Areas Code.
- ▶ Wetland impacts will not be detailed in the report but will be identified based on Task 8 preliminary plans; impacts will ultimately be quantified for the project's regulatory permit application materials (Task 10) based on the 60% design (Phase 2).
- ▶ One round of consolidated review comments on the draft Wetlands and Waters Delineation Report.

Deliverables

- ▶ Survey information will be incorporated into the project base map developed in the feasibility phase. The updated composite topo-bathy DEM will be utilized for hydraulic modeling and design.
- ▶ Updated composite topo-bathy DEM representing 2026 conditions, provided as GIS raster files, and/or CAD surfaces (upon request).
- ▶ Draft and Final Wetland and Waters Delineation Report, compiled PDF.

TASK 4 SITE SURVEY AND REAL ESTATE SUPPORT- PARAMETRIX AND CONTRACT LAND STAFF

Subtask 4.1 Topographic and Boundary Survey

- ▶ Parametrix will perform supplemental topographic, bathymetric, utility, and boundary survey services to support the Phase 1 (60%) design of the setback levee and associated project features. All survey work will be performed under the direction of a Professional Land Surveyor (PLS) licensed in the State of Washington.

- ▶ Survey control and mapping will utilize the NAVD88 vertical datum and NAD83 (2011) horizontal datum based on existing County-established project control.
- ▶ Topographic survey will include the existing levee prism extending from Home Acres Road to the Mosher Creek/Fobes Hill parking lot, approximately 10,314 linear feet, in addition to approximately 750 linear feet of the Mosher Creek levee. Survey coverage will extend across the levee prism and approximately 50 feet landward into the adjacent marsh area. Survey density within the marsh area may be collected at a lower level of detail than the levee prism.
- ▶ The levee prism will be surveyed at a level of detail sufficient to meet National Map Accuracy Standards for 1" = 50' and 1-foot contour interval mapping. Survey data collection will include sufficient terrain breaklines and spot elevations to define levee crest geometry, slope transitions, levee toes, and adjacent terrain features.
- ▶ Bathymetric survey will be performed along the slough-side levee toe where accessible and feasible. Survey will be performed utilizing multi-beam sonar on a fully equipped pontoon river boat. Mapping will extend from Mosher Creek/Fobes Hill parking lot to Home Acres Road. Sounding data will extend to approximately Mean Lower Low Water (MLLW) elevation (-2.0 feet).

Survey of key project features will include:

- ▶ Existing levee prism and adjacent terrain features as defined above
- ▶ 15 PSE transmission tower footing corners utilizing remote sensing equipment
- ▶ City of Everett waterline alignment, including support footing corners and approximate locations where the pipeline transitions above and below ground. Survey will utilize remote sensing equipment for this task
- ▶ Utility locates and utility mapping within the Mosher Creek parking area
- ▶ Olympic Pipeline easement boundaries
- ▶ County property and easement boundaries associated with the setback levee tie-in area extending approximately 200 feet beyond the anticipated tie-in footprint
- ▶ Culvert crossing at Mosher Creek access road, including inlet and outlet locations, approximate diameter, and pipe material where observable
- ▶ Tide gate features encountered during field survey, including inlet and outlet locations, approximate diameter, and pipe material where observable (approximately 4)

Survey Assumptions

- ▶ Field survey activities will be completed during the 2026 dry season under conditions suitable for conventional topographic and bathymetric survey operations.
- ▶ The County will provide all required rights of entry.
- ▶ Existing survey control established by the County in 2024 will remain in place and suitable for reuse. The County will replace or re-establish disturbed control points prior to field deployment if necessary.

- ▶ Survey precision represents reasonable expected tolerances based on site accessibility, vegetation, terrain, tidal conditions, and environmental constraints.
- ▶ Private utility locate services by others is assumed where required for subsurface utility identification and is included.

Survey Deliverables

- ▶ AutoCAD 2026 Civil 3D drawing which includes points as drawing objects, a topographic surface, and annotated features
- ▶ Survey Control and Alignment Plan
- ▶ Land XML file for topographic surface
- ▶ ASCII file with points (northing, easting, elevation, and description)

Subtask 4.2 Real Estate Support for Boundary Recovery Survey and Acquisition Document Review

Parametrix will provide boundary recovery surveys for up to 10 individual Snohomish County parcels requiring flood easement modifications. Survey will include review of title reports and existing flood easement delineation, recovery of readily identifiable monuments, and preparation of boundary mapping necessary to support Contract Land Staff (CLS) in developing easements and acquisitions (in Task 13).

As a subcontractor to Parametrix, Contract Land Staff will support the review of documents related to the County's acquisition of the parcels within the project boundary for any terms or conditions that could limit or otherwise affect the 60% design. Specifically, CLS will:

- ▶ Attend monthly subcontractor meetings as needed for coordination and to convey updates on task progress.
- ▶ Review 50-60 County acquisition documents for funding mechanisms, limitations and restrictions and prepare a final report on findings.

Real Estate Support Assumptions

- ▶ County will be responsible for acquiring right of entry for boundary recovery surveys.
- ▶ Property corners will be set under Phase 2.
- ▶ This task does not include resolution of conflicting title or boundary conditions.
- ▶ County to provide property acquisition documents to CLS upon Notice to Proceed.

Real Estate Support Deliverables

- ▶ Digital CADD drawing of properties and existing flood easements.
- ▶ Final report in a matrix format noting in detail any limitations and restrictions found in the documents reviewed as provided by the County.

TASK 5 CULTURAL RESOURCES ASSESSMENT – ERCI

ERCI will support the County's cultural resources staff in coordination with NOAA as the NEPA lead entity and regional tribes (e.g., the Tulalip Tribes) to initiate the NHPA Section 106 consultation process. Although no cultural resources were encountered during ERCI's monitoring of the feasibility phase geotechnical work, the site has a high probability for cultural resources because the river delta, Ebey Slough, and the surrounding marshland would have been excellent resource acquisition areas for precontact peoples.

Subtask 5.1 Agency Coordination & Work Plan Development

Upon Notice to Proceed, ERCI will initiate coordination with the federal lead agency (NOAA), the Washington State Department of Archaeology and Historic Preservation (DHAP), and the Tulalip Tribes to complete coordination. Following coordination, ERCI will prepare a work plan documenting the proposed study approach.

To streamline the process, ERCI will leverage the background data collection and high-probability area identification done by ERCI during the feasibility phase to prepare a 'right size' shovel probe plan for the project that focuses on the previously identified high probability areas.

Subtask 5.2 Shovel Probe Survey

- ▶ Implement work plan from Subtask 5.1
 - Ten, 10-hour shovel probe investigation days for a crew of five is anticipated.
- ▶ Complete sub surface survey and a survey report with evaluations, and archaeological site inventory forms.

Subtask 5.3 Cultural Resources Monitoring to Support Design

- ▶ ERCI will provide cultural resources monitoring services during geotechnical test pit excavation; five days of monitoring is included.

Task 5 includes definition of the Area of Potential Effect (APE) and preparation of a draft and final NHPA Section 106 Cultural Resources Assessment Report to support application for federal permits (which occurs in Task 10).

In addition to the shovel probe survey and monitoring of subtasks 5.1 and 5.2, Task 5 also includes provision for ERCI to support the County with additional agency coordination which would be required to facilitate the inclusion in permit applications of additional infrastructure and habitat improvement elements, if such elements are negotiated by the County with other legal entities. The field work to investigate and document the area of potential effect (APE) of any such elements would be completed and provided to ERCI by others outside this scope of work. d. ERCI will review these reports and support the County team in related coordination and permit inclusion assistance.

Assumptions

- ▶ This task also includes time for ERCI's project management efforts, including attendance at kickoff and key coordination meetings.

- ▶ No human remains encountered during the shovel probe survey
- ▶ Only 1 new archaeological site recorded
- ▶ No mitigation plan development is warranted or required.

Deliverables

- ▶ Draft and final, Cultural Resources Workplan
- ▶ Draft and final, Cultural Resources Assessment report by the end of Phase 1 60% design to support Task 10 permit applications

TASK 6 PRELIMINARY (60%) HYDRAULIC MODELING - NSD

Hydraulic modeling will be performed to support design development and to compare changes in flow depth, velocity, water surface elevation, shear stress, and inundation in the project area under pre- and post-project conditions. NSD will continue to refine and build on the existing hydraulic model developed for the feasibility phase of the project.

Subtask 6.1 Existing Conditions Model Updates

The existing 2D HEC-RAS model geometry will be updated with the refined topo-bathymetric surface created in Task 3. Using the updated model surface geometry NSD will validate our hydraulic model outputs against observed water levels from the December 2025 flood. NSD will refine model parameters to match the performance of the existing HEC RAS model for the December 2025 flood (work being performed under a separate contract). The goal of using a model that provides a reasonably accurate simulation of recent observed flooding patterns is to build trust in the design process.

Subtask 6.2 Sensitivity Testing of Project Parameters

Sensitivity testing of key project design elements that may have an impact to flood risk assessment and permitting will be conducted. The purpose is to inform the design team of the relative effects of project design elements and understand the tradeoffs that may be associated with design choices in an efficient manner. For flood risk, anticipated parameters include levee crest elevation, levee alignments, water pipeline berms, existing levee removal limits and higher elevation restoration area grading, and new levee drainage structures. The sensitivity testing will be conducted on a limited set of two flow scenarios consisting of the December 2025 and 100-year flood events.

For restoration design, sensitivity testing will focus on low flow, tidally dominated conditions and evaluate tidal channel geometry and other restoration area grading in terms of channel sizing, circulation patterns and other relevant ecohydraulic metrics.

Sensitivity testing outputs will be summarized but otherwise will not be formally documented or incorporated into project deliverables.

Subtask 6.3 Preliminary Proposed Conditions Hydraulic Modeling

A set of hydrologic scenarios as used in the alternatives analysis will be modeled to evaluate project effects on ecological processes, geomorphology, and flood risk, primarily in terms of maximum water surface elevation, but also timing, velocity, and flow distribution. The following table describes the hydrologic scenarios used as design flows:

NUMBER	FLOW SCENARIO	DATES	FLUVIAL INFLOW	DOWNSTREAM BOUNDARY	INTENT
1	Tidally dominated	July 2 to 14, 2024	Low; flow at Monroe is less than 5,000 cfs	NOAA Everett prediction	Assess model performance under tidally dominated scenario with spring/neap tide cycle
2	Tidally dominated with mid-century RSLR	July 2 to 14, 2024	Same as 1	NOAA Everett prediction plus 0.9 feet	Capture tidally dominated scenario
3	Common fluvial flooding	Oct 21 to 24, 2019	Approx. 2-year recurrence interval	NOAA Everett prediction	Fluvially dominated event
4	High magnitude peak flow	--	December 2025 event (~15-20-year event)	Current MHHW	Informs levee crest height
5	Extreme magnitude peak flow	--	100-year recurrence interval (WSE 2021)	Current MHHW	Regulatory floodplain
6	Future extreme magnitude peak flow with mid-century RSLR	--	Mid-century 100-year recurrence interval (WSE 2021)	MHHW plus 0.9 feet	Identifies the marginal areas around the site that may be influenced with changes in peak flow

These results will be used in discussions with DD1 and DD13 to evaluate effects on structures and levees in the area and integrated into geomorphic analysis of potential channel changes from flow redistribution and tidal prism increase.

During the 60% design process (Task 8), NSD will model the potential hydraulic effects of the preferred alternative. Modifications to proposed conditions topography will include changes to the surface to represent breach locations, tidal channels, berm locations, or other proposed site grading, as well as changes to roughness to represent short-term or established marsh conditions.

Hydraulic analysis will also be needed to size the tide gates (culvert dimensions, invert elevation, number, and type of gates) that connect the freshwater and the tidal sides of the new setback levee to provide adequate drainage while preventing tidal inundation of private property and infrastructure.

The NSD team will run up to four proposed conditions topographies with a subset of the hydrologic scenarios to test and refine channel, breach, levee, and tide gate configurations. The refined project configuration that is advanced to 60% will be simulated with the six hydrologic scenarios described in the Table above. The results from these model runs will be used to support design advancement and permit applications.

Documentation of hydraulic model development procedures and figures and discussion of model results will be incorporated into the Project Basis of Design Report (Task 8).

Assumptions

- ▶ The existing 2D HEC RAS model of the project area developed and used for the feasibility phase as refined under the work contracted separately via a NOAA grant will be updated and used for this analysis. This scope of work does not include building a new hydraulic model from scratch.
- ▶ With the exception of the December 2025 flood event, the same hydrologic inputs and climate change scenarios that were used in the project feasibility phase will continue to be used in the assessment of the proposed design. No new hydrology inputs or climate change scenarios will be developed.
- ▶ The 2D model results are not anticipated to match the effective FEMA maps due to differing hydrologic inputs and changes in channel/floodplain topography since development of the effective FEMA model.

Deliverables

- ▶ Model outputs and figures of the proposed design to support County outreach and communication and to be incorporated into the project Basis of Design report in Task 8.
- ▶ Flood hazard permit submittal materials will be prepared and submitted under Task 7.

TASK 7 FLOOD RISK EVALUATION AND HYDRAULIC MODEL REVIEW – NHC

NHC will support NSD in providing direction and review of the modeling described in Task 6, evaluating changes to flood risk and timings and duration of inundation due to the proposed project, developing a flood hazard permit approach strategy, directing preparation of flood hazard permit submittal materials, and providing QA/QC of model inputs and outputs.

Subtask 7.1 Flood Risk Evaluation

NHC will help to evaluate changes in flood risk due to the project. NHC will provide a principal level hydraulic engineer that will provide direction and review throughout the hydraulic modeling described in Task 6. Work will include direction on model updates, calibration, and sensitivity testing; review of all model results; review of modeling reporting and documentation; and direction for creation of and review of exhibits for public meetings. The majority of this modeling and associated work will be conducted by the NSD staff executing Task 6. Some time for NHC staff level

modeling is included to allow for informal model testing and additional capacity given the tight project timeline.

Subtask 7.2 Agency Coordination and Flood Hazard Permit

This task includes early coordination with Snohomish County Floodplain Services and FEMA Region 10. Key issues to resolve will include obtaining permission to use the 2D model in lieu of the effective UNET model; reaching agreement on assumptions for modeling of the non-accredited levee system; and determining the allowable rise for a project that will include elements both within standard floodway (with a hard zero-rise rule), and density fringe (which implicitly allows a one-foot rise when considered with all other potential development in the floodplain). The intent of the initial discussions will be to have an agreed-to permit pathway that describes all analyses and documentation Snohomish County will need to process the flood hazard permit.

Once the final 60% project design is completed including hydraulic modeling as described in Task 6, NHC will oversee the preparation of the flood hazard permit submittal materials.

Subtask 7.2 Hydraulic Model QA/QC

NHC will continue to provide external QA/QC to support NSD's 2D model development and refinements. NHC will provide up to 20 hours of model review and QA/QC under this task.

Assumptions

- ▶ We assume the project will be designed such that a CLOMR / LOMR process will not be required.
- ▶ This task also includes time for NHC's project management efforts, including attendance at kickoff and key coordination meetings.
- ▶ Floodplain compliance documentation will be performed in Phase 2 and is not included in this task.
- ▶ An NHC principal (Vaughn Collins) will provide senior level direction and review to NSD modeling staff in the execution of Task 6. NSD staff will be primarily responsible for all external modeling product deliverables including reports, permit materials preparation, and exhibits. NHC time for this is budgeted in Task 7; NSD time in Task 6 and 10.

Deliverables

- ▶ A Flood Hazard Permitting Pathway memorandum documenting methods, assumptions and products needed to submit a permit in the next project phase, based on discussions with Snohomish County PDS and possibly FEMA Region X.
- ▶ Model review QA/QC comment log

TASK 8 PRELIMINARY (60%) RESTORATION DESIGN - NSD

Subtask 8.1 Preliminary Design Plans

NSD will progress the conceptual plan of the preferred alternative developed in the feasibility phase to permit ready preliminary plans describing all earthwork elements, breach, tidal channel, and setback levee locations, and construction access and methods. This set will be provided for one round of comments to the County and the Partner Group. Following review and feedback, NSD will develop the preliminary plans to be used for permit applications in Task 8. This includes iterations of the proposed conditions hydraulic modeling (Task 6), to test that the proposed design functions as intended. Once the layout of proposed actions has been finalized, construction access, TESC measures and planting layouts will be developed.

A cost estimate and statement of quantities will be assembled to reflect the preliminary plans.

Preliminary Project Special Provisions will be prepared and submitted, including selecting initial standard and general special provision (GSP) sections from the County pick list, reviewing and commenting on the initial County Tech Resources spec build, and adding in placeholders for the project-specific special provisions and pay items anticipated to be developed by NSD in the next phase of design.

To accommodate this project's accelerated schedule, comments on the 60% design package will be addressed in the 90% design task.

Subtask 8.2 Basis of Design Report

NSD will prepare a Basis of Design Report to document the proposed design. The report will include specific design criteria, goals, and objectives, a record of technical design decisions, a summary of hydraulic modeling, and a description of the engineering approach and anticipated project outcomes. The Basis of Design Report will include a section that identifies how the project will influence water levels and flow patterns on adjacent properties and diking and drainage districts. The report will incorporate by reference the Basis of Design Report prepared during the project feasibility phase.

Assumptions

- ▶ Design drawings will be produced in Autodesk Civil 3D and delivered as 11" x 17" format PDFs. Snohomish County CAD standards will be used.
- ▶ Ordinary high-water mark and wetland boundaries will be included in the 60% plans as per the NSD delineation.
- ▶ Preliminary (60%) level of design will be used to acquire project permits under all applicable federal, state, and local regulations.
- ▶ NSD will resolve one set of consolidated comments on the preliminary design. As part of this consolidation, Snohomish County will resolve conflicting comments.

- ▶ NSD will prepare and stamp Divisions 2 through 8 of the Project Special Provisions. Divisions 1 and 9 will be prepared by Snohomish County and stamped by a County engineer.
- ▶ At this phase, Special Provisions will be provided as an outline of the sections and pay items anticipated to be included. Full project special provisions will be developed at 90% design.

Deliverables

- ▶ 60% Design Plans
- ▶ Basis of Design Report
- ▶ 60% Special Provisions Outline
- ▶ Engineer's estimate of costs
- ▶ Statement of Quantities

TASK 9 PRELIMINARY (60%) GEOTECHNICAL ENGINEERING – GEOSYNTEC

Subtask 9.1 Existing Levee Evaluation

Portions of the existing Ebey Slough levee have been damaged during recent flood events and/or are generally in poor condition. The 60% design includes developing recommendations for repairs along the portion of the existing levee that will remain after the project is constructed. Geosyntec will assist NSD with this evaluation with field reconnaissance and visual evaluation. In areas where appropriate, Geosyntec will mobilize an excavator to complete test pits on the water-facing levee slope to determine local conditions where repairs might be completed.

In addition, Geosyntec understands that up to one new tide gate culvert structure will be constructed within the section of existing levee to remain. Depending on design requirements, this could be a fish-passable tidegate. Geosyntec will mobilize a licensed geotechnical driller (vendor) to the site to complete one soil exploration boring at the planned tide gate location to inform structure design.

It is also understood that one to two tidegate structures will be incorporated into the new setback levee. No geotechnical explorations are planned/proposed along the planned new setback levee alignment because of standing water accessibility challenges.

Additional details of these tasks are described below.

Subtask 9.1.1 Utility Locates

Geosyntec will visit the site at least 2 weeks in advance of the exploration program to mark the exploration locations with white spray paint and stakes. Per Washington State law, Geosyntec will submit public utility locate request through the One-Call service at least 72 hours in advance of the work. These locates are typically limited to the public rights-of-way

along the site boundaries and generally do not extend onto private property. The rights-of-way around the site will be marked with the appropriate color paint showing utility locations, or to indicate that no utility is present.

Geosyntec will utilize a private utility locator vendor to first clear each proposed location using conductible methods. Geosyntec will take reasonable precautionary efforts, including relocating our exploration locations to avoid conflicts with utilities and subsurface obstructions indicated through the private utility locate during the exploration program; however, Geosyntec does not assume responsibility for the cost of repairing utilities that are unmarked or incorrectly marked.

Subtask 9.1.2 Test Pits

Geosyntec will utilize an earthwork vendor to complete test pit excavations (2-4 feet deep) along the existing levee alignment that will remain after the project is constructed, and potentially along sections of levee to be breached that may need to be repaired/widened to be able to handle fully loaded dump truck traffic making round trip passes through the site.

Some test pits will be advanced through the levee's waterward sideslope to characterize existing levee conditions in locations where repairs may be proposed. These test pits will be conducted above OHWM and will be kept as small as possible to minimize disturbance to the levee. Test pit observations will be supplemented with surface observations of existing erosion scarps along the waterward slope of the levee.

A Geosyntec field representative will oversee the test pit excavations, log the soils encountered, and retrieve representative soil samples at selected intervals for further review and laboratory analyses.

Subtask 9.1.3 Drilled Boring

Geosyntec will utilize a licensed driller vendor to advance one soil boring using mud rotary drilling methods. The boring will be completed in one day and drilled to a depth of up to 100 feet below the ground surface to obtain the geotechnical data needed for tide gate culvert structure design.

Disturbed samples and in-situ relative density measurements will be obtained at 5-foot intervals in accordance with ASTM Method D1586, Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils. Samples will be placed in labeled plastic jars and brought back to our office for geologic review. A Geosyntec field representative will visually classify the soils in accordance with the ASTM International (ASTM) Standard Practice for Description and Identification of Soils (Visual-Manual Procedure), ASTM Method D2488.

Where fine-grained soils are encountered, Geosyntec will attempt to collect a sample of these soils using thin-walled steel tubes ("Shelby tubes") in accordance with ASTM D1587 Standard Practice for Thin-Walled Tube Sampling of Fine-Grained Soils for Geotechnical

Purposes. Shelby tubes will be transported to a geotechnical testing laboratory for extrusion, visual inspection, and laboratory testing.

Subtask 9.1.4 Geotechnical Laboratory Testing

Geosyntec will utilize a geotechnical laboratory testing vendor to conduct laboratory testing on soil samples collected during the field investigation. Laboratory testing may include natural moisture content, organic content, fines content, grain-size distribution, consolidation testing, Atterberg limits, and moisture-density (proctor) compaction tests.

Subtask 9.2 Geotechnical Engineering Analyses

Geosyntec will conduct detailed geotechnical engineering analyses at up to four critical sections along the setback levee alignment. Geosyntec's analyses for the setback levee will include settlement, seepage, stability, and liquefaction and will be used to refine the proposed setback levee section details and design. Geosyntec assumes the existing ground surface profile to be used for the final design setback levee alignment will be provided by NSD as an AutoCAD Civil 3D file for use as a basefile for the geologic subsurface profile. Geosyntec assumes design 100-year flood and mean (average) annual water surface elevations and corresponding scour elevations will be provided by the NSD design lead or hydraulic engineer.

Geosyntec will also conduct analyses for the tide gate culvert structures including settlement, liquefaction, and foundation bearing resistance.

Geosyntec will provide construction recommendations including general earthwork recommendations, recommendations for levee fill import materials, recommendations for settlement monitoring of setback levee, and recommendations for repairing the portion of the existing levee that will remain after the project is constructed and repairing/widening the portion of the existing levee to be breached that would need to be used as construction access.

Subtask 9.3 Geotechnical Reporting

Subtask 9.3.1 Updated Geotechnical Data Report

Geosyntec will revise and update the geotechnical data report (GDR) from the feasibility phase to include the additional data acquired from the subsurface explorations and laboratory testing performed under Subtask 9.1.

Subtask 9.3.2 Geotechnical Engineering Report

Geosyntec will prepare a geotechnical engineering report (GER) for the project that includes the detailed results of the geotechnical engineering analyses, and Geosyntec's conclusions and recommendations for design and construction. The GER will be a companion to the GDR and it will include the following:

- ▶ Project and Site description

- ▶ A Site plan showing the setback levee alignment, Project features, and exploration locations
- ▶ Geotechnical engineering analyses methodologies and results
- ▶ Geotechnical engineering conclusions and recommendations in support of 60% design for the setback levee, up to three new tidegates, (depending upon the preferred alternative selected), upgrades to the existing levee, and levee breaches.
- ▶ A discussion on estimated post-construction settlements, recommendations for settlement monitoring, and a discussion on levee maintenance raise events with additional fill placement to bring the levee top back up to design elevation.

Geosyntec assumes that a base map for the site plan will be provided by NSD for inclusion in the report. Geosyntec has assumed one round of draft report revisions using a consolidated comments from NSD and the County on the draft report, provided to Geosyntec by NSD for resolution and incorporation into the final report.

Subtask 9.4 Phase 1 Geotechnical Design Support

Geosyntec will prepare design plans and cost estimates related to the setback levee.

Geosyntec will be responsible for up to three drawing sheets in the plans set. These drawings will provide plans, elevations, and details including settlement plates and settlement plate monitoring, levee materials and compaction, side slopes, tie-ins with existing levee to the north and with existing upland slope toe to the south, tide gates, and related information.

These sheets will utilize the overall model surface which will be provided to Geosyntec, and which will ultimately remain in the control of NSD.

Subtask 9.5 Project Management and Meetings

Geosyntec will manage its work and that of its subcontractors and vendors. Geosyntec will correspond with NSD and the design team as needed to advance the above scope of work and with respect to contracts, insurance certificates, billing cycles, etc. For this scope, Geosyntec has assumed up to eight 1-hour-long meetings with the Project team attended by two Geosyntec staff, as needed.

Geosyntec will also contribute to updating the Risk Register authored by NSD to identify, evaluate, and track risks specifically related to constructability, budget, schedule, and permitting.

Assumptions

- ▶ Explorations along the existing levee will occur over the course of two field days in September 2026 while the low tides are still during daylight hours and will involve a small footprint (< 0.1 acre) and be conducted during low tide windows, with appropriate BMPs to prevent discharge of any material below the high tide line.
- ▶ The County will close the levee surface to pedestrian traffic during the field exploration program.
- ▶ Cultural resources monitoring during test pits/boring will be coordinated with ERCI.

- ▶ This task also includes time for Geosyntec’s project management efforts, including attendance at kickoff and key coordination meetings.

Deliverables

- ▶ Updated Draft Geotechnical Data Report
- ▶ Draft Geotechnical Engineering Report
- ▶ 60% Setback Levee plans and cost estimates, incorporated into NSD deliverables under Task 8.
- ▶ Documentation of Levee information for the Basis of Design Report.

TASK 10 REGULATORY AGENCY COORDINATION AND PREPARATION OF PERMIT APPLICATIONS - NSD

The goal of the regulatory effort is to obtain federal, state, and local approvals by the end of 2027 to accommodate County’s construction contract procurement process and minimize risk of rework to incorporate agency requirements. To minimize the time between completion of the 60% design plans to submittal of the project’s environmental permit applications, NSD will conduct agency outreach and coordination in Phase 1 and will then prepare federal, state, and County permit application materials and complete application submittal based on the 60% design completed in Tasks 8 and 9.

Subtask 10.1 Agency Outreach and Coordination

Our understanding is that NOAA will be the Lead federal entity and NOAA will lead all coordination required for federal compliance with NEPA, ESA, and NHPA Section 106.

NSD will support communications between NOAA, the County and NSD regulatory task lead, and regulatory agencies through pre-application meetings, coordination, and potential site visits as follows:

- ▶ Four meetings with NOAA as lead federal entity over the course of the application preparation process to review the project and coordinate timeline and application procedures.
- ▶ One pre-application meeting (virtual) with the Corps and Ecology to discuss project actions and anticipated Clean Water Act Sections 404 and 401 project permitting pathways, including one or more Nationwide Permits or authorization under an Individual Section 404 permit.
- ▶ One pre-application meeting and one additional meeting with Snohomish County Planning and Development Services (PDS) staff (virtual) to discuss project actions and anticipated local project permitting pathways including SEPA, Shorelines, and Critical Areas.
- ▶ One coordination meeting with Snohomish County Floodplain Administrator and FEMA Region 10 (virtual), aligned with Task 7, to present summary of flood impact assessment (completed as part of Task 7) and verify compliance with floodplain regulations.

This task also includes provision for additional coordination, meetings, and/or site visits with Snohomish County and agencies as necessary to facilitate streamlined project permitting, up to level of effort included in cost estimate (24 hours over the course of Phase 1).

This task also includes provision for additional agency coordination which would be required to facilitate the inclusion in permit applications of additional infrastructure and habitat improvement elements, if such elements are negotiated by the County with other legal entities. The associated scoped effort included herein assumes wetland delineation, cultural resources, any additional field work, and element design work would be carried out by others. All related assessment reports, design drawings, and impact calculations will be provided to NSD for inclusion in the permitting package. NSD would review such reports and design drawings and support the County team in related coordination and permit inclusion assistance.

Subtask 10.2 Prepare Permit Applications

This task includes early Phase 1 preparation of permitting applications by setting up templates, filling in known information such as the project location and purpose, working with the design team for early identification and incorporation of avoidance and minimization measures, and other permit preparation steps that can be completed prior to the completion of 60% design.

As the 60% design is finalized, NSD will use the design plans to create and submit the following permit application materials.

Alternatives Analysis, JARPA Form and Permit Drawings

NSD will complete the Joint Aquatic Resource Permit Application (JARPA) form and develop permit application drawings that meet Corps requirements based on the 60% Design and Basis of Design Report. The JARPA form will be used to apply for the Clean Water Act Section 404 and 401 approvals, and as a component of the application for WDNR aquatic lands use authorization, CZMA consistency determination and ESA consultation information from the JARPA form will be used to populate the fields in the WDFW APPS online application program for the Hydraulic Project Approval Permit.

The JARPA will include quantification of impacts to wetlands and waters and will include justification for net increase in functions and services consistent with the anticipated NWP 27 Ecosystem Restoration permitting pathway.

If required based on the Corps review, NSD will prepare an 404(b)(1) alternatives analysis to support justification for the preferred alternative building off the Feasibility Assessment Report.

Washington State Department of Ecology 401 Water Quality Certification

NSD will prepare an Ecology 'Pre-meeting request form' for the project for Snohomish County submittal to Ecology's federal permits unit. After the required 30-day waiting period, NSD will then prepare a formal 'Request for 401 water quality certification review' and Ecology 401 Certification Checklist of materials to submit along with the JARPA form and figures to Ecology and the Corps concurrently.

NSD expects Ecology will require preparation of a Water Quality Monitoring Plan due to the project having more than 0.5 acres of impacts to wetlands. NSD will prepare this plan with input from the design engineer and County regarding visual and instrumented turbidity monitoring in Ebey Slough during construction.

CZMA

NSD will prepare a Coastal Zone Management Act consistency form and provide the quantities required therein as part of the JARPA application package for submittal to the Corps.

Section 7 Endangered Species Act Consultation

Endangered Species Act consultation is required to complete the Section 7 Endangered Species Act consultation required as part of the CWA 404 review. NSD will fill out the NOAA PROJECTS Action Notification Form for the project to support NOAA's lead agency status and consultation regarding the project's likely impacts to federally threatened and endangered species regulated by USFWS and NMFS.

For this project, we anticipate that this effort will focus on the aquatic species, i.e., Puget Sound Chinook, Puget Sound Steelhead, and Bull Trout, as well as the marbled murrelet, which are listed species covered under NOAA's PROJECTS programmatic agreements with USFWS and NMFS. NSD will prepare the NOAA PROJECTS Action Notification Form or No Effect Letter (as determined by NOAA for the species not covered by the Restoration Programmatic which warrant that determination (i.e., yellow-billed cuckoo, northwestern pond turtle, monarch butterfly, and Suckley's cuckoo bumblebee, monarch butterfly; these species are indicated by the USFWS IPAC site search June 2026 as being potentially within the vicinity of the project area).

NHPA Section 106 Cultural Resources Coordination

Cultural resources assessment, documentation, and Section 106 consultation will also be performed by NOAA as the lead federal entity, with assessment material provided by ERCI under Tasks 5 and 14. This subtask includes time for NSD to coordinate with ERCI, provide them with necessary information, and review their draft work products prior to submittal.

Bald and Golden Eagle Protection Act Consultation with USFWS

NSD will coordinate with USFWS eagle protection act biologists and prepare the application form and determine practicable conservation measures and best management practices to minimize impacts to the bald eagles that are currently nesting on Ebey Island across from the project's proposed construction.

NSD will then enter the application materials into the USFWS online application system.

Washington Department of Fish and Wildlife Hydraulic Project Approval Application

NSD will submit for the HPA through WDFW's online platform APPS as an authorized agent using the JARPA form information and uploading the 60% design and other relevant documents prepared under this task.

Washington Department of Natural Resources (WDNR) Aquatic Lands Use Authorization

Work within Ebey Slough will require approval from WDNR to work in state owned aquatic lands.

NSD will prepare Attachment E to the JARPA and a Public Safety Checklist for WDNR aquatic land use authorization for the project.

NSD will create and submit WDNR aquatic use authorization Exhibit A summary, coordinates for right of entry, and figure illustrating the location, extent, and area of all right of entry locations.

Monitoring, Maintenance, & Adaptive Management Plan

NSD will collaborate with the County to create and submit a Monitoring, Maintenance, & Adaptive Management Plan to address Corps, Ecology, and Snohomish County PDS requirements.

We anticipate the monitoring plan will need to focus on components addressing the effectiveness of the dike breach and tidal channel restoration actions eliciting the expected project response and on marsh and vegetation development. We assume elements focused on future monitoring of fish use will be developed in the plan as they would ultimately be led by the County.

Snohomish County Permits

NSD anticipates utilizing the 60% design to calculate the project elements required for the Critical Areas Site Plan, Shorelines Substantial Development and Conditional Use permits, and SEPA processes. Information required will be gathered from available site and design data; no new information will be gathered. Snohomish County will be responsible for any permit application fees and for collection of all application signatures.

The Flood Hazard permit application will be prepared by NHC, in coordination with NSD, as part of Task 7.

SEPA Checklist

NSD will complete the SEPA Checklist form, deriving the majority of the information from existing data and documentation prepared during the feasibility and design phases. NSD will support the County in responding to up to 50 substantial public comments on the SEPA determination.

Critical Areas Site Plan

NSD will complete the PDS Land Use Permit Master Application and will apply for a Land Disturbing Activity permit and prepare Critical Areas Site Plan documentation to address the specific Critical Areas affected by the project. NSD assumes NSD will submit the application materials to PDS for review under Snohomish County Code (SCC) chapter 30.63B Land Disturbing Activity.

We will use the wetland delineation work to develop a Critical Areas Site Plan documentation focused on wetlands and fish and wildlife habitat conservation areas and the changes in functions to support the County's local permitting process.

We anticipate that the Critical Areas Site Plan documentation will reference the technical information provided in the 60% design Basis of Design Report and will not need to cover critical aquifer recharge areas or geological hazards in any more detail than including the Snohomish County critical areas maps and a brief description regarding lack of changes to these critical areas. The Critical Areas Site Plan preparation will thus not include additional detailed analysis or new studies.

Shorelines Conditional Use and Substantial Development Application Materials

NSD will prepare application materials for Shorelines permitting, focused on how the project is consistent with the County's Shoreline criteria outlined in chapter 30.44 of the Snohomish County Code (SCC) and the County's Shoreline Management Program as defined in SCC 30.67.030.

Submittal of Permit Applications

NSD will finalize permit application materials for submittal, coordinate with regulatory agency staff, package, submit application materials on behalf of the County, and support the permit approval process as necessary to obtain environmental approvals. NSD will submit documents electronically/through the various Corps, WDFW, and USFWS application portals and provide documentation of the submittals to the County.

Assumptions

- ▶ NSD will be an authorized agent responsible for submitting federal, state, and County permit applications on behalf of the County as the applicant.
- ▶ NOAA will be the lead federal entity and responsible for the NEPA, ESA, and Section 106 processes.
- ▶ NOAA NEPA determination will not require preparation of an Environmental Impact Statement.
- ▶ US Army Corps of Engineers may authorize the project under an individual permit – if so, the Feasibility Report will serve as the basis for the alternatives analysis documentation required.
- ▶ Proposed project actions will be consistent with informal Section 7 Consultation and will occur via preparation of the NOAA PROJECTS form.
- ▶ Snohomish County will lead the coordination with WDNR on the aquatic land use authorization and WDNR will not require any additional documentation outside the materials described here.
- ▶ Snohomish County will collect landowner signatures and approvals for the JARPA application.
- ▶ JARPA form will be used by NSD to populate the fields in the WDFW APPS online application program for the Hydraulic Project Approval Permit.
- ▶ Snohomish County will require a SEPA Checklist, Shoreline Substantial Development and Conditional Use permits, and Critical Areas review.
- ▶ This scope assumes the Shoreline permits will not be appealed and thus no Hearing Examiner meetings or response to comments will be required.

- ▶ County SEPA review will not require preparation of an Environmental Impact Statement, nor require NSD attendance at a public meeting or Hearings Examiner review.
- ▶ Snohomish County will require a Critical Areas Site Plan but will not require a separate Habitat Assessment or Compensatory Mitigation Plan.
- ▶ Snohomish County will pay the application fee(s) associated with all permit applications.
- ▶ Snohomish County will complete all other County permit applications not described herein.
- ▶ Snohomish County will provide a single round of consolidated review and comment in track changes for each deliverable
- ▶ NPDES Construction General Stormwater Permit application and supporting materials, including a SWPPP will be prepared under Task 17.
- ▶ NSD will provide technical support and responses to comments through the permit review process up to the level indicated in the attached budget estimate.
- ▶ NSD will support the County in applying for permits and authorizations for 2028 construction, but the duration of review and timeline for issuance of federal, state, and local permits is outside of NSD control.

Deliverables

- ▶ NOAA PROJECTS form for Endangered Species Consultation.
- ▶ Draft and final JARPA application including alternatives analysis and JARPA format Figures, and Attachment E for WDNR aquatic lands use authorization.
- ▶ Coastal Zone Management Act consistency determination form.
- ▶ Ecology 'premeeting request form', request for 401 water quality certification, 401 application checklist, and Water Quality Monitoring Plan.
- ▶ Monitoring, Maintenance, & Adaptive Management Plan.
- ▶ Project description, Exhibit A figures and coordinates, and Public Safety Checklist for WDNR aquatics land use authorization.
- ▶ Snohomish County PDS application forms (specific forms to be determined during pre-application meeting with PDS) and Critical Areas Site Plan.

PHASE 1 CONTINGENCY

A contingency of approximately 10% of the estimated Phase 1 total has been included to provide capacity for completion of unanticipated work related to Tasks 1 through 10 that must be completed to keep the project on schedule for 2028 construction.

Examples of tasks that could require an unanticipated level of effort may include, but are not limited to, additional stakeholder coordination and/or meetings, additional field time due to unanticipated site conditions, additional regulatory agency coordination or changes in regulatory requirements.

The contingency would be utilized on an "as needed" basis for specific tasks agreed upon by the County and NSD. This task will not be billed until a specific notice to proceed for its use has been given by the County.

Phase 2 Final Design and Bid Support

TASK 11 PHASE 2 PROJECT MANAGEMENT, COORDINATION, AND OUTREACH- NSD

Subtask 11.1 Project Management

NSD will provide project management services during Phase 2 efforts under this task, including regular status updates to the County via e-mail or by phone. NSD will provide updates to the County to facilitate the tracking of progress and to communicate major findings through the course of this phase of the project. NSD will coordinate all team subconsultants and manage team schedule and budget including review and approval of monthly subconsultant invoices. The project management team will produce monthly progress reports to accompany its invoices for services completed.

Project management will also include maintaining the Risk Register created in Phase 1, Task 1 to identify, evaluate, and track risks specifically related to constructability and permitting that could impact the project's budget and timeline.

Subtask 11.2 Ongoing Project Coordination

This task covers participation by NSD's project manager or principal, or other technical staff and subconsultant leads where appropriate, in project coordination meetings at the following anticipated frequency and duration:

- ▶ Core Group meetings: Weekly NSD PM to County PM meetings, 0.5 hours, virtual occurring within the County's standing Core Group Meetings (currently occurring on Fridays).
- ▶ Monthly subconsultant coordination meetings are also included in this task.

Subtask 11.3 Partner Meeting Support

NSD will collaborate with DCNR Communications to keep project partners and the public informed about the status and progress of the project.

It is anticipated that the Partner group will meet once during this phase for a 2-hour virtual meeting attended by up to three NSD staff, with staffing determined by topic/focal area for the meeting. NSD will work with the County to coordinate the meeting of the Partner group and will provide technical information including project details and graphics as appropriate to the focus of each meeting.

The Partner meeting is anticipated to occur near the conclusion of Phase 2. The exact schedule will be determined in cooperation with the County.

Subtask 11.4 Diking District Meeting Support

We anticipate DD1, DD2, and DD13 will require individualized outreach plans given their specific concerns around flood storage, erosion risk, and wood racking. NSD will continue conversations with each District, to continue to show them anticipated project outcomes and to hear any concerns they provide.

This task includes preparation for and attendance at three, 4-hour in-person meetings (one each with DD1, DD2 and DD13) to present updated 90% design project information. Meetings will be attended by up to 3 NSD staff.

Subtask 11.4 ESRP Grant Support

NSD will assist the County with their Estuary and Salmon Restoration Program (ESRP) grant administration and management by providing support for County preparation of two of 2027 PRISM progress reports that describe project accomplishments, status, and key metrics. NSD support will include supplying short narratives to outline tasks and deliverable accomplishments and status of tasks completed, in progress, and anticipated in the next reporting period.

Assumptions

- ▶ The duration of Phase 2 of this project will be 9 months, April 2027 through December 2027.
- ▶ Monthly coordination with subconsultants and processing of invoices to County standards will require 2 hours a month for the NSD project manager and 2 hours per month for NSD billing support.
- ▶ Core Group meetings will require 0.5 hours per week for the NSD project manager.
- ▶ This task includes time for NSD attendance at four, 1-hour pre-meeting coordination meetings.
- ▶ NSD's support with ESRP grant information will span two progress update reports in 2027 at an average of 4 hours NSD support per report split between PM and lead engineer.

Deliverables

- ▶ Core Group meeting attendance weekly, with email summary of follow-up tasks and task owners as appropriate to advance project.
- ▶ Monthly NSD Team invoices and summary notes including subconsultant invoices.
- ▶ Monthly subconsultant coordination meetings will require 1 hour plus preparation for the NSD project manager.
- ▶ Correspondence with the County via email and phone to maintain open communication.
- ▶ Draft and final meeting agendas, notes, and action items from Partner and Diking District meetings.
- ▶ Narrative, project metrics, and grant reporting support materials as specified by the County.

TASK 12 OUTREACH AND COMMUNICATIONS SUPPORT- NHC

NHC will collaborate with NSD and County communications staff to keep project partners and the public informed about the status and progress of the project.

Subtask 12.1 Diking District Meeting Support

This task includes preparation for and attendance by NHC at three, 4-hour in-person meetings (one each with DD1, DD2 and DD13) to present updated 90% design project information. Meetings will be attended by up to 2 NHC staff at each meeting.

Assumptions

- ▶ Frequency and timing of meetings will be determined according to progress moving through the design process.
- ▶ In-person meetings will be held in Everett at a location determined by the County.
- ▶ This task also includes time for NHC's Phase 2 project management efforts, including attendance at four, 1-hour pre-meeting coordination meetings.

Deliverables

- ▶ Draft content from NHC to contribute to Diking District and Public meetings.

TASK 13 BOUNDARY SURVEY AND REAL ESTATE SUPPORT – PARAMETRIX AND CONTRACT LAND STAFF

Subtask 13.1 Boundary Survey

Parametrix will provide boundary surveys in support of real estate acquisition efforts provided by Contract Land Staff. We anticipate that key property lines and easement boundaries for 10 parcels will be surveyed by a PLS prior to construction to support County processes and protect private property.

As a subcontractor to Parametrix, Contract Land Staff will provide real estate services to support easement verification and property acquisition for additional easements as determined in the scoping process. The timing and locations for this effort will be determined through the results of the Phase 1 tasks and will be coordinated with the County to ensure that the necessary information is available to support the County's Real Estate department's needs.

Parametrix will provide the following:

- ▶ Public records search for previous survey records and boundary control.
- ▶ Boundary delineation calculations as required for easement delineations.
- ▶ Easement delineation calculations.
- ▶ Easement legal descriptions and exhibit maps.

- ▶ Boundary and easement corners will be staked or recovered at major corners with a rebar and cap or as noted on the survey. The survey will be performed under generally accepted survey practices and is a professional interpretation of this information.
- ▶ A Record of Survey will be filed with the County as required by RCW 58.09.

Subtask 13.2 Real Estate/Right of Way Support for Easement Acquisition

As a subcontractor to Parametrix, Contract Land Staff will provide the following:

- ▶ Attend monthly subcontractor meetings as needed for coordination and to convey updates on task progress.
- ▶ Review of right of way maps and exhibits, legal descriptions, and plat maps.
- ▶ Order Preliminary Title Reports for up to 10 parcels.
- ▶ Snohomish County will be invoiced directly for these reports by the title company; estimated charge is \$500 per title.
 - Recording fees will be invoiced directly by the Title Co. to Snohomish County; estimated charge is \$307.50 per parcel.
- ▶ Preparation of Offer Packages for up to 10 parcels, will include an Offer letter, Payment Voucher, Easement documents, W-9, Appraisal/Waivers and Preliminary Title Report on County approved forms or CLS will use WSDOT standard templates.
- ▶ Coordinate with Snohomish County and follow County approved Right of Way Procedures, as required.

Subtask 13.3 Real Estate/Right of Way Support for Appraisal or Waiver Support

As a subcontractor to Parametrix, Contract Land Staff will provide the following:

- ▶ Assist with scoping for Appraisals.
- ▶ Appraisal coordination with County and NSD Engineer.
- ▶ Contract with Appraisal, and Appraisal Review firms and oversee appraisal process up to 10 appraisals and 10 Appraisal Reviews. Appraiser and Appraisal Reviewer shall be on the WSDOT approved appraiser list and shall prepare appraisals and appraisal reviews to assist in establishing Just Compensation for each property.

Or

- ▶ Should appraisal not be required, prepare waivers evaluations Summary Reports for up to 10 parcels that meet the threshold for waivers, Waiver evaluations will be based off reviewed appraisals and will only be conducted on non-complex files with compensation under \$35,000, or based on County approved right-of-way guidelines.

Assumptions

- ▶ This task does not include the resolution of physical encroachments/occupation that may be disclosed by the field survey

- ▶ The County will provide a property list of all easement parcels by Tax id# to CLS.
- ▶ The County will track the progress of the easement parcel acquisitions via a table or spreadsheet.
- ▶ Survey control set by the County in 2024 is still in place and locatable. The County will reset any lost control points prior to field deployment.
- ▶ Survey will be under the direction of, and all work products will be stamped by a licensed surveyor.
- ▶ Easement extents will be based on elevations; existing LiDAR has the accuracy and resolution sufficient for the delineation.
- ▶ Property rights acquisitions are required for 10 parcels.
- ▶ No Relocation Services are included.
- ▶ Eminent domain and Condemnation support are not included.
- ▶ Right of Entries (ROE's) will be provided by the County.
- ▶ Document templates will be provided by the County. If not, Washington Department of Transportation (WSDOT) templates will be used.
- ▶ Assume legal descriptions and plat maps will be provided by Parametrix or the County.
- ▶ CLS will obtain a property appraisal to value the proposed acquisition areas.
 - The scope and budget assume a full narrative appraisal and Appraisal Review will be required at an estimated cost of \$8,500 per each of the 10 parcels (\$85,000 total).
 - Should the acquisition be "simple" in nature and within statutory limitations for Waivers, a waiver may be prepared in lieu of a formal appraisal, with an estimated cost of \$2,500 per each of the 10 parcels (\$25,000 total).
- ▶ The County will perform landowner contact and all negotiations to acquire real property in the form of Temporary Construction easements, New Flood Easements or Revised Flood Easements, to standards required by the County and WSDOT Manual for a Federally funded project.
- ▶ The County will negotiate with landowners to acquire property rights utilizing the documentation provided by CLS on County forms.
- ▶ The County will maintain Real Estate Diaries on each parcel.
- ▶ The County will close out files, prepare Real Estate Excise Tax Affidavit's (REETAs) and certify real estate, as may be required by the funding source in preparation for recording.
- ▶ County will provide a Project Information Letter to each property owner impacted by the acquisition, which will be delivered in person or via certified mail.
- ▶ CLS will follow federal guidelines and process for acquisition and appraisals in accordance with guidance from the County and other agencies.

- ▶ CLS will follow the uniform Relocation Act (URA), WSDOT LAG manual guidelines, applicable State and Local laws and City administrative rules for the right of way acquisition services provided for in this project.

Deliverables

- ▶ Easement legal descriptions and exhibit maps
- ▶ Record of Survey showing corners set and/or found
- ▶ Preliminary title reports
- ▶ 10 Appraisals or Waivers per County requirements
- ▶ Offer packages for up to 10 parcels will include an Offer letter, Payment Voucher, Easement documents, W-9, Appraisal/Waivers and Preliminary Title Report
- ▶ Project Information Letters for up to 10 parcels

TASK 14 CULTURAL RESOURCES PERMITTING SUPPORT – ERCI

ERCI will support the County's cultural resources staff through the NHPA Section 106 consultation process.

Subtask 14.1 Section 106 Permitting Support

ERCI will provide permitting support, including preparation of any required documentation not provided in Phase 1 and responding to 2 rounds of agency comments.

Subtask 14.2 Inadvertent Discovery / Cultural Resources Data Recovery Contingency Plan

Based on the findings of the 60% design phase field work, ERCI will develop a Data Recovery Contingency Plan (draft and final) and/or an Inadvertent Discovery Plan (draft and final).

Assumptions

- ▶ This task also includes time for ERCI's project management efforts, including attendance at key coordination meetings.
- ▶ No fieldwork or site visits during this phase.

Deliverables

- ▶ Draft and final, Cultural Resources Data Recovery Contingency Plan, if required.
- ▶ Draft and final, Monitoring and Inadvertent Discovery Plan.
- ▶ Modifications, if required to consultation documents prepared in Task 4.

TASK 15 FINAL HYDRAULIC MODELING - NSD

Hydraulic modeling will be performed to support design development and to compare changes in flow depth, velocity, water surface elevation, shear stress, and inundation in the project area under pre- and post-project conditions.

Subtask 15.1 Final Proposed Conditions Hydraulic Modeling

During the Draft Final 90% and Final (100%) design phases (Task 17), NSD will utilize this task to re-run the proposed conditions hydraulic model to test the potential hydraulic effects of design refinements. Refinements could include changes to the model topography to represent breach locations, tidal channels, berm locations, or other proposed site grading, as well as changes to roughness to represent short-term or established marsh conditions that represent refinements from the 60% Design Phase.

Up to five proposed conditions design scenarios will be run to inform the team's understanding of the hydraulic performance and ecological benefits of potential actions, as well as potential flood risk to the adjacent properties.

Results from the hydraulic modeling would be used in coordination with Parametrix and CLS to support document preparation regarding modifications to the County's flood easements for up to 10 parcels.

Documentation of hydraulic model development procedures and figures and discussion of model results will be incorporated into the Project Basis of Design Report (Task 17).

Assumptions

- ▶ The existing model of the project area developed and used for the feasibility phase will be updated and used for this analysis. This scope of work does not include building a new hydraulic model from scratch.
- ▶ The same hydrologic inputs and climate change scenarios that were used in the project feasibility phase will continue to be used in the assessment of the proposed design. No new hydrology inputs (except for the December 2025 flood) or climate change scenarios will be developed.
- ▶ The 2D model results are not anticipated to match the effective FEMA maps due to differing hydrologic inputs and changes in channel/floodplain topography since development of the FEMA model.
- ▶ Floodplain compliance will be performed under Task 7.

Deliverables

- ▶ Electronic delivery of all model files at the completion of Final 100% design.
- ▶ Model outputs and figures of the proposed design to support County outreach and communication and incorporated into the project Basis of Design report in Task 18.

TASK 16 FLOODPLAIN COMPLIANCE – NHC

NHC will continue the work started in Phase 1, Task 7, as described in the following subtasks.

Subtask 16.1 Flood Risk Evaluation and Hydraulic Model Review

NHC will provide a principal level hydraulic engineer that will provide direction and review throughout the hydraulic modeling described in Task 15. Work will include direction on model updates; review of all model results; review of modeling reporting and documentation; and direction for creation of and review of exhibits for public meetings. The majority of this modeling and associated work will be conducted by the NSD staff executing Task 6. Some time for NHC staff level modeling is included to allow for informal model testing and additional capacity given the tight project timeline.

Subtask 16.2 Floodplain Compliance

NHC will review any County comments on the flood hazard permit submitted in the prior project phase and direct any required responses.

Assumptions

- ▶ This task also includes time for NHC's project management efforts, including attendance at kickoff and key coordination meetings.
- ▶ The project will be designed such that a CLOMR / LOMR process will not be required.
- ▶ There will be only minor changes in project footprint and key project elements such as the cross levee between the Phase 1 60% design and 90% and Final design. Any changes will not be hydraulically significant such that conclusions regarding flood risk and prior submitted flood hazard permits are still valid.
- ▶ An NHC principal (Vaughn Collins) will provide senior level direction and review to NSD modeling staff in the execution of Task 15. NSD staff will be primarily responsible for all external modeling product deliverables including reports, permit materials preparation, and exhibits. NHC time for this is budgeted in Task 16; NSD time in Task 15.

Deliverables

- ▶ Floodplain Compliance documentation.

TASK 17 DRAFT FINAL (90%), FINAL RESTORATION DESIGN, & BID SUPPORT - NSD

Subtask 17.1 Draft Final (90%) Restoration Design

NSD will update the preliminary (60%) design submitted in Task 8 to draft final (90%) design, including incorporation of feedback received at the Preliminary 60% Design Phase. Upon incorporating feedback and refining the design, final hydraulic model runs will be completed to assess projected project performance against project goals and objectives.

The Preliminary (60%) Design plan set will be updated with all refinements and changes and may include additional sheets or details as needed to provide sufficient detail to address comments and support construction.

The Preliminary Design construction quantities and cost estimate will be updated accordingly to reflect any changes.

. NSD will develop technical specifications to support all work shown on project drawings for use in bid solicitation. Technical specifications will be limited to Special Provisions which will cover unique project elements not adequately described under standard specifications (WSDOT format).

The Draft Final (90%) design would be used in coordination with Parametrix and CLS to support document preparation regarding modifications to the County's flood easements for up to 10 parcels.

The Draft Final (90%) Plans Specification and Cost Estimate (PS&E) will be provided to the County for one round of comments and for specification assembly following the County's process. Revisions to address comments on the Draft Final (90%) design will be completed during the Final (100%) Design subtask.

Subtask 17.2 Final (100%) Restoration Design

Following review and feedback, NSD will update the Draft Final (90%) plans to a construction ready Final (100%) Design bid package which will be used to solicit bids for construction of the project. Design refinements will be minor, if any, and may include minor grading adjustments or updates to restoration/planting plans if determined to be necessary. Additional hydraulic modeling is not anticipated.

Subtask 17.3 Basis of Design Report

The Draft Final (90%) Basis of Design Report will update the Basis of Design report previously developed during Preliminary (60%) Design. NSD will include justification and documentation of design methods applied, including assumptions that facilitated the design. NSD will provide a summary of data output and analysis of each technical assessment required to support the proposed design elements. The Basis of Design Report appendices will include other reports generated as part of the project (geotechnical, hydraulic modeling, topographic survey, wetland delineation, etc.). Comments received on the Draft Final (90%) Basis of Design Report will be incorporated into the Final (100%) Basis of Design Report. Comments are anticipated to be minor.

Subtask 17.4 Bid Support

NSD staff will attend a pre-bid site walkthrough with prospective bidders to view the site and describe the proposed project prior to bidding. NSD staff will also prepare written responses to requests for information (RFIs) submitted during the bid process and assist with the preparation of addenda to the bid documents, if needed. A single bid package will include both 2028 and 2029 construction.

Subtask 17.5 Construction Stormwater General Permit (CSWGP)

NSD will prepare a CSWGP application and Stormwater Pollution Prevention Plan (SWPPP) and apply on the County's behalf through Ecology's portal. The County may ultimately transfer CSWGP coverage to the County's construction contractor. Note the construction contractor may need to resubmit the SWPPP if they are proposing different stormwater pollution and prevention methods.

Assumptions

- ▶ Design drawings will be produced in CAD and delivered as 11" x 17" format PDFs. Snohomish County CAD standards will be used.
- ▶ Final design will be used to solicit bids for project construction.
- ▶ NSD will resolve one set of consolidated comments on the Draft Final (90%) Design. As part of this consolidation, Snohomish County will resolve conflicting comments.
- ▶ Special Provisions will be developed using WSDOT formatting but not utilizing the WSDOT specific software.
- ▶ Contract bidding documents will include elements provided by NSD but will be prepared for bid by the County.
- ▶ Collection of additional hydraulic, hydrologic, topographic, geotechnical, or geomorphic data will be completed as part of the Preliminary (60%) Design (Phase 1) and no additional data collection will be required for Draft Final (90%) or Final (100%) Design.
- ▶ NSD will prepare and stamp Divisions 2 through 8 of the Project Special Provisions. Divisions 1 and 9 will be prepared by Snohomish County and stamped by a County engineer.
- ▶ Design revisions will not require a fundamental change in the nature of the design concept presented in the Preliminary (60%) Design Plans (Task 8).
- ▶ The two-year construction effort will be bid once as a single project.

Deliverables

- ▶ Draft Final (90%) Design plan set depicting all project elements.
- ▶ Final (100%) Design plan set depicting all project elements and stamped by a professional engineer.
- ▶ Draft Final (90%) Design and Final (100%) Design construction quantities and cost estimate.
- ▶ Draft Final (90%) Basis of Design and Final (100%) Basis of Design Report.
- ▶ Draft Final (90%) Project Special Provisions and Final (100%) Project Special Provisions.

TASK 18 FINAL GEOTECHNICAL ENGINEERING AND BID SUPPORT-GEOSYNTEC

It is understood that the overall intention of the Preliminary (60%) Design effort is to nail down all major type, size, and location details for the levee, tide gates, and breaches. The Draft Final (90%) and Final (100%) Design efforts will be limited and focused on redline revisions, minor/ancillary details, and Project standard specifications and special provisions.

Geosyntec's role in this effort will involve updates to the Geosyntec-prepared plan sheets, specifications, and special provisions, and providing input to earthwork and geotechnical related cost estimate items. Also, during the Draft Final (90%) design phase, Geosyntec will finalize the Geotechnical Data Report (GDR) and Geotechnical Engineering Report (GER).

Subtask 18.1 Geotechnical Reporting

Geosyntec will review and address all comments provided by the County and NSD Team on the updated draft GDR and the draft GER. Geosyntec will make revisions to both reports and will issue final GDR and final GER documents suitable for and intended for inclusion with the contract documents.

Subtask 18.2 Phase 2 Geotechnical Design Support for Draft Final (90%) Design

Geosyntec will address one round of comments and redline edits on the Preliminary (60%) Design drawings and will make corrections to their plan drawings for Draft Final (90%) Design.

Geosyntec will address one round of comments and redline edits on the geotechnical-related construction cost items.

Geosyntec will assist the NSD team with selection of project specifications. Geosyntec will compile and/or author new special provisions, including the following:

- Imported levee material requirements and compaction requirements
- Settlement plate installation and survey requirements
- Temporary shoring
- Construction dewatering
- Tidegate and headwall/wingwall construction
- Levee breaching
- Permanent slope inclinations and final surface treatment

Subtask 18.3 Phase 2 Geotechnical Design Support for Final (100%) Design

Geosyntec will address one round of comments and redline edits on the Draft Final (90%) drawings and will then make corrections to their plan drawings to complete Final Design. The finalized sheets will be stamped by the Geosyntec geotechnical engineer of record and will be suitable for inclusion in the overall plan set prepared by NSD.

Geosyntec will address one round of comments and redline edits and will finalize the geotechnical-related specifications and special provisions. Final specification document preparation will be done by NSD.

Geosyntec will address one round of final comments and redline edits to the geotechnical-related construction cost items. Final construction cost estimate documentation will be done by NSD.

Subtask 18.4 Bid Support

Geosyntec will participate in a pre-bid site walk.

Geosyntec will respond to geotechnical-related bidder questions. This will include preparation of geotechnical engineering addenda if/as needed.

Geosyntec will be available for other questions or issues that come up from the design team and will attend the bid opening at Snohomish County's office.

Subtask 18.5 Project Management and Meetings

Geosyntec will manage its work and administer its contract. Geosyntec will correspond with NSD and the design team as needed to advance the above scope of work and with respect to contracts, insurance certificates, billing cycles, etc. For this scope, Geosyntec has assumed up to four 1-hour-long meetings with the Project team attended by two Geosyntec staff, as needed.

Geosyntec will also update the Risk Register authored by NSD to identify, evaluate, and track risks specifically related to constructability, budget, schedule, and permitting.

Assumptions

- ▶ Geosyntec will support NSD their pace and scheduled milestones.
- ▶ Geosyntec will attend key coordination meetings and be aware of updated deliverable deadlines.

Deliverables

- ▶ Final Geotechnical Data Report
- ▶ Final Geotechnical Engineering Report (to be included with Bid Documents)
- ▶ Draft Final (90%) Setback Levee Plans, Special Provisions, and Cost Estimates, incorporated into NSD deliverables under Task 17
- ▶ 100% Final (100%) Setback Levee Plans, Special Provisions, and Cost Estimate, incorporated into NSD deliverables under Task 17

TASK 19 ENVIRONMENTAL PERMITTING SUPPORT - NSD

In Phase 1, NSD will have developed permit applications and completed federal, state, and County submittals on behalf of the County based on the preliminary design plans (Task 8).

In Phase 2, NSD will respond to agency comments and requests for additional information and complete post-application site visits, if requested. The NSD permitting and authorization support efforts are anticipated to include the following.

- ▶ Continued coordination with NOAA as federal lead entity for NEPA, ESA, and Section 106.
- ▶ Post application coordination with USFWS on bald eagle practicable conservation measures.

- ▶ Three in-person field meetings to project site following application (e.g., with WDFW, Ecology, and/or WDNR) to consider site considerations and in water work window considerations at 8-hours each visit, including preparation and travel.
- ▶ Coordination with Corps, Ecology, USFWS, NMFS, WDFW, and County PDS staff periodically for updates on review status and timelines.
- ▶ Requests for additional information including clarifications to submitted design drawings, submitted site analysis documentation, and permitting documents.

Phase 3 Construction Support 2028 & 2029

TASK 20 PHASE 3 PROJECT MANAGEMENT, COORDINATION, AND OUTREACH - NSD

Subtask 20.1 Project Management

NSD will provide regular project management (PM) services during Phase 3 efforts under this task, including regular status updates to the County via e-mail or by phone. NSD will provide updates to the County to facilitate the tracking of progress and to communicate major findings through the course of the project. NSD will coordinate all team subconsultants and manage team schedule and budget including review and approval of monthly subconsultant invoices. The project management team will produce monthly progress reports to accompany its invoices for services completed.

Project management will also include maintaining the Risk Register created in Phase 1, Task 1 to identify, evaluate, and track risks specifically related to construction that could impact the project's budget and timeline.

Subtask 20.2 Ongoing Project Coordination

This task covers participation by NSD's project manager or principal, or other technical staff in project coordination meetings at the following anticipated frequency and duration:

- ▶ Core Group meetings: Bi-weekly NSD PM to County PM meetings, 0.5 hour virtual occurring within the County's standing Core Group Meetings (currently occurring on Fridays) during the period of active work leading up to and through construction (January to October 2028 and June to October 2029; 15 months).
- ▶ Monthly NSD PM to County PM meetings during periods between active work (November 2028 to June 2029; 8 months).
- ▶ Monthly subconsultant coordination meetings are also included in this task.

Subtask 20.3 Public Meeting Support

NSD will collaborate with County Communications to keep project partners and the public informed about the upcoming construction of the project.

NSD will collaborate with the County to organize a public meeting/open house event in late March 2028 in the run up to construction. The County will organize the venue, date, and time and prepare the advance communications (email, postcard, website updates).

NSD will prepare the presentation and attend the public meeting, anticipated to be up to a 6-hour in-person event (including travel time), with presentations led by the County and aided and attended by up to five NSD team members, including PM and design leads and up to two additional meeting support staff.

The public open house is anticipated to occur prior to the start of Phase 3 construction. The exact schedule will be determined in cooperation with the County.

Subtask 20.4 ESRP Grant Support

NSD will assist the County with their Estuary and Salmon Restoration Program (ESRP) grant administration and management by providing support for County preparation of two of 2028 PRISM progress reports that describe project accomplishments, status, and key metrics. NSD support will include supplying short narratives to outline tasks and deliverable accomplishments and status of tasks completed, in progress, and anticipated in the next reporting period.

Assumptions

- ▶ The duration of Phase 3 of this project will be 24 months, January 2028 through December 2029, with most efforts occurring January through October 2028 and then again June through October 2029.
- ▶ Monthly coordination with subconsultants and processing of invoices to County standards will require 2 hours a month for the NSD project manager and 2 hours per month for NSD billing support.
- ▶ Core Group meetings will require 0.5 hours per week for the NSD project manager.
- ▶ Monthly subconsultant coordination meetings will require 1 hour plus preparation for the NSD project manager.
- ▶ This task includes time for NSD attendance at two, 2-hour pre-public meeting coordination meetings.
- ▶ NSD's support with ESRP grant information will span two progress update reports in 2027 at an average of 4 hours NSD support per report split between PM and lead engineer.

Deliverables

- ▶ Core Group meeting attendance weekly, with email summary of follow-up tasks and task owners as appropriate to advance project.
- ▶ Monthly NSD Team invoices and summary notes including subconsultant invoices.
- ▶ Correspondence with the County via email and phone to maintain open communication.

- ▶ Draft and final notes from the Public meeting compiled for inclusion in Task 21 of complete compiled package prepared by NHC.
- ▶ Narrative, project metrics, and grant reporting support materials as specified by the County.

TASK 21 OUTREACH AND COMMUNICATIONS SUPPORT – NHC

Subtask 21.1 Public Meeting Support

NHC will collaborate with NSD and the County to organize one public open house event, anticipated to be up to a 6-hour in-person event, with presentations led by the County and NSD and aided and attended by up to four NHC team members. The public open house is anticipated to occur in early 2028 prior to construction. The exact schedule will be determined in cooperation with the County.

Assumptions

- ▶ This task also includes time for NHC’s Phase 3 project management efforts, including attendance at two, 2-hour pre-public meeting coordination meetings.
- ▶ Timing of meeting will be determined according to progress with final design.
- ▶ In-person meetings will be held in Everett at a location determined by the County.

Deliverables

- ▶ Draft content from NHC to contribute to the Public meeting.
- ▶ Summary of all comments from the Public meeting compiled for County records.

TASK 22 CONSTRUCTION SURVEY – PARAMETRIX AND CLS

Subtask 22.1 Preconstruction and Construction Survey

Parametrix will provide limited on-call construction survey support services during project construction activities. Construction survey services are anticipated to support Snohomish County Construction Services through periodic field verification, coordination, and review activities. Primary construction staking and day-to-day construction layout are assumed to be the responsibility of NSD.

Construction support services may include verification of control, review of contractor survey information, limited field verification of key project features, attendance at construction coordination meetings, and review of survey-related submittals. It will include twice monthly surveys of contractor installed settlement plates between the end of the first (2028) construction season and the start of the second (2029) construction season. It will also include once monthly surveys of installed settlement plates between the end of the second (2029) construction season and the start of the Phase 4 second levee topping event in 2030 (Task 28). Current scope assumes approximately five (5) site visits per construction season, with each visit anticipated to require 8 hours of on-site support which includes travel time. Monitoring of Settlement plates will require an additional eighteen (18) site visits anticipated to require 8 hours per visit. Scope also includes approximately 30 hours of meeting attendance, coordination, and submittal review support. CLS

would also be available for monthly coordination meetings to support any questions regarding real estate concerns.

Construction support is currently anticipated during:

- ▶ April through October 2028 for setback levee construction and tidal channel excavation
- ▶ June through October 2029 for dike breaching activities

ASSUMPTIONS

- ▶ The County will provide all required rights of entry.
- ▶ Existing survey control established by the County in 2024 will remain in place and suitable for reuse.
- ▶ Contractor will be responsible for primary construction staking and layout.
- ▶ Construction support beyond the level of effort identified above may require scope refinement or additional services authorization.
- ▶ Survey services will be performed under the direction of a licensed Professional Land Surveyor.

DELIVERABLES

- ▶ Field verification notes and survey support documentation as required
- ▶ Limited survey mapping, exhibits, and figures supporting construction coordination
- ▶ Monitoring reports detailing vertical displacement after each monitoring campaign
- ▶ Construction survey support deliverables as requested by the County and consistent with the assumed level of effort

TASK 23 CULTURAL RESOURCES CONSTRUCTION MONITORING – ERCI

Subtask 23.1 Cultural Resources Monitoring

ERCI will work closely with the County's cultural resources staff to provide onsite cultural resources monitoring during 2028 and 2029 construction if those services are determined to be necessary during the cultural resources assessment and permitting process.

Support during construction also includes Unanticipated Discoveries Protocol (UDP) training to the construction crews in both 2028 and 2029 for their work in areas not being actively monitored.

Assumptions

- ▶ This task also includes time for ERCI's Phase 3 project management efforts, including attendance at key coordination meetings.
- ▶ No human remains are found.

- ▶ 20, 10-hour days of construction monitoring by 5-person crew in 2028; annual report prepared.
- ▶ 15, 10-hour days of construction monitoring by 5-person crew in 2029; annual report prepared.

Deliverables

- ▶ ERCI will provide an annual report that summarizes work for each season.
- ▶ ERCI will provide a draft and final construction monitoring report documenting the field effort.

TASK 24 GEOTECHNICAL CONSTRUCTION SUPPORT – GEOSYNTEC

Subtask 24.1 Geotechnical Support During the First Season of Construction

The first season of construction is anticipated to occur in the summer of 2028 and will include construction of the new setback levee and any tide gates along that new levee, as well as most of the interior channel grading and filling of the existing ditches.

Subtask 24.1.1 Construction Kickoff

Up to two Geosyntec representatives will attend one on-Site kickoff meeting and Site walk with the Project Team including the County's Contractor. Geosyntec will review final Project plans and specifications in preparation for construction activities. Geosyntec will also complete an internal kickoff meeting with the Geosyntec Project team.

Subtask 24.1.2 Construction Observation

Geosyntec will perform on-site construction monitoring and geotechnical inspection during the first season of construction (2028). Construction monitoring and geotechnical special inspection tasks will consist of responses to requests for information (RFIs), contractor submittal review, continuous observations of setback levee construction, material testing, production of daily field reports, and production of a final construction observations memo.

Geosyntec will coordinate with a materials testing vendor to perform grain-size, modified proctor, permeability, moisture content, and compaction (nuclear gauge densometer and intermittent sand cone correlation tests) testing on selected levee fill import materials. Geosyntec will assess the test results to confirm import materials and compaction means and methods meet the requirements stated in the geotechnical design report for the Project.

Upon completion of this construction phase, Geosyntec will produce a final construction observations memo, which will be signed and stamped by a licensed geotechnical engineer in the state of Washington. This memo will include final documentation of construction observations, daily field reports, materials testing results, geotechnical engineering responses to RFIs and construction submittals, and an opinion of the conformance of the completed construction activities with respect to the geotechnical elements of the Project plans and specifications. Final acceptance of the setback levee construction and review of the non-geotechnical construction activities will be not be completed by Geosyntec.

Subtask 24.2 Geotechnical Support During the Second Season of Construction

The second season of construction is anticipated to occur in the summer of 2029, and will include the breaches of existing levee, and it will include the first of two potential levee maintenance events to place additional fill and raise the levee back up to design top elevation.

Subtask 24.2.1 Construction Kickoff

Up to two Geosyntec representatives will attend one on-Site kickoff meeting and site walk with the Project Team. Geosyntec will also complete an internal kickoff meeting with the Geosyntec Project team prior to construction.

Subtask 24.2.2 Construction Observation

For the levee breaches and re-exposed marsh channel grading work, Geosyntec will make periodic site visits and provide consultation on an as-needed, on-call basis. Geosyntec will review and respond to construction field reports and contractor submittals or requests for information, as requested. Geosyntec assumes up to six half day site visits, and up to 24 hours of in-office consultation activity for this effort.

For the setback levee maintenance grade raise event, Geosyntec will perform on-site construction monitoring and geotechnical inspections. Construction monitoring and geotechnical inspection tasks will consist of responses to requests for information (RFIs), contractor submittal review, continuous observations of setback levee topping, material testing, production of daily field reports, and production of a final construction observations memo.

Geosyntec will coordinate with a materials testing vendor to perform grain-size, modified proctor, permeability, moisture content, and compaction (nuclear gauge densometer and intermittent sand cone correlation tests) testing on selected levee fill import materials. Geosyntec will assess the test results to confirm import materials and compaction means and methods meet the requirements stated in the geotechnical design report for the Project.

Upon completion of this construction phase, Geosyntec will produce a final construction observations memo, which will be signed and stamped by a licensed geotechnical engineer in the state of Washington. This memo will include Geosyntec's final documentation of construction observations, records of daily field reports, materials testing results, geotechnical engineering responses to RFIs and construction submittals, and opinion of the conformance of the completed construction activities with respect to the geotechnical elements of the Project plans and specifications. Final acceptance of the setback levee topping construction and review of the non-geotechnical construction activities will not be completed by Geosyntec.

Subtask 24.3 Setback Levee Settlement Monitoring

Geosyntec will review settlement monitoring data collected from settlement monitoring plates that will have been installed during the first construction season through the second construction season to determine the height of fill needed to be added to the setback levee. Geosyntec will produce a

memo summarizing the results of this period of levee settlement monitoring and Geosyntec's conclusions.

Subtask 24.4 Project Management and Meetings

Geosyntec will manage its work and that of its vendors. Geosyntec will correspond with NSD and the design team as needed to advance the above scope of work and with respect to contracts, insurance certificates, billing cycles, etc. For this scope, Geosyntec has assumed that up to two Geosyntec staff will participate in a weekly meeting with the Project team. For this, Geosyntec assumes ten 1-hour meetings will be held in-person and/or virtually over the course of the first construction season. Geosyntec assumes three 1-hour meetings will occur over the course of the second construction season.

Geosyntec assumes up to two Geosyntec staff will participate in up to 4 on-site meetings over the course of the first construction season, and up to 2 on-Site meetings over the course of the second construction season.

Assumptions

- ▶ Two season construction period (2028 and 2029) with work occurring only during the dry season (June to September).
- ▶ Geosyntec has assumed geotechnical review of up to 10 submittals and 5 RFIs over the two-season construction period.
- ▶ Geosyntec has assumed regular soil classification testing, including testing for every critical material type and material change resulting in classification testing, every approximately 3,000 cubic yards of material as well as regular compaction testing that includes every critical material type and material change resulting in compaction testing every approximately 1,000 cubic yards of material. During the first construction season, this will require 50 part-day visits for Geosyntec's material testing vendor during levee embankment construction for compaction testing. Laboratory testing will be proportionate to the volume of material placed along the chosen setback levee alignment.
- ▶ During the second construction season, the levee maintenance and raise work will require 12 part-day visits for the material testing vendor during levee embankment construction for compaction testing. Laboratory testing will be proportionate to the volume of material placed for the levee raise event.
- ▶ Daily field reports will be produced to document construction observations. Daily field reports will be packaged and provided to the Project Team on a weekly basis through email or sooner as situations warrant. Testing results from Geosyntec's subcontractor will be reported and appended to daily field reports.
- ▶ Geosyntec will manage its work and that of its material testing and inspection vendor.

Deliverables

- ▶ On-site presence by an Geosyntec representative up to 5 10-hour days per week for 10 weeks during the first (2028) construction season.
- ▶ On-site presence by a Geosyntec representative up to 5 10-hour days per week for 2 weeks for setback levee topping during the second (2029) construction season.

- ▶ Weekly field report packages (PDF)
- ▶ First season construction observations memo (PDF)
- ▶ Levee settlement monitoring results and conclusions memo (PDF)
- ▶ Second construction season observations memo (PDF)
- ▶ Written response to written bidder and/or contractor Requests for Information (RFI)

TASK 25 CONSTRUCTION SUPPORT - NSD

Under this Task, NSD will provide support to the County to support proper construction and implementation of the project by providing input, oversight, and guidance throughout the contracting and construction process. Snohomish County's construction inspectors will be tasked with day-to-day administration of the construction contract, while NSD will provide office-based support and be on-site part time to oversee, guide, monitor and inspect construction activities.

Subtask 25.1 Construction Observation

NSD will assist with performance or review of field stakeout of restoration elements as the need is determined during the Phase 3 scoping. NSD will meet with the County and selected contractor to review the design plans, discuss construction elements, and answer any pertinent questions related to the construction process and including scheduling, and sequencing.

NSD will coordinate with the County and Contractor on project schedule to have NSD engineer on site during construction at a frequency and duration to be determined during Phase 3 scoping.

For this initial scope, we have assumed that an NSD representative will be present for construction observation for up to five days per week during each year of construction, if needed. NSD staff will prepare written responses to RFIs received during the clarification and will assist the CM in reviewing submittals where the judgement of the engineer is required.

This task also includes attendance at weekly on site coordination meetings with NSD and County during construction, concurrent with regular construction observation days.

Subtask 25.2 As-Built Plans

NSD will prepare as-built plans for the project upon final completion. Plans will be based on redline markups provided by the contractor and the County construction manager (CM) showing deviations from the project plans. Plans will be stamped by a licensed engineer.

Assumptions

- ▶ Two season construction period with work occurring only during the dry season (June to September).
- ▶ NSD will not be responsible for full Construction Management duties nor the administration of the construction contract.

- ▶ The County will provide construction status updates to NSD as needed for days NSD is not on-site.
- ▶ The stamping engineer will typically be present 1 or 2 days per week, supported for 3 or 4 days a week by other NSD construction observation staff familiar with the project.
- ▶ NSD staff will not provide onsite construction support on weekends or holidays.
- ▶ NSD and its subcontractors will not provide as-built survey of the completed project.
- ▶ The County CM will provide redline markups showing deviations from the project plans.

Deliverables

- ▶ Field review of restoration stakeout prior to construction.
- ▶ On-site presence by an NSD representative up to 5 days per week for 26 weeks during 2028 construction.
- ▶ On-site presence by an NSD representative up to 5 days per week for 17 weeks during 2029 construction.
- ▶ Written response to written bidder and/or contractor Requests for Information (RFI)
- ▶ As-built plans, 11x17 pdf.

PHASE 4

TASK 26: LEVEE TOPPING CONSTRUCTION SUPPORT - GEOSYNTEC

Subtask 26.1 Geotechnical Support During Construction

The levee topping construction is anticipated to occur in the summer of 2030 or later and will include the second of two potential levee maintenance events to place additional fill and raise the levee back up to design top elevation.

Subtask 26.1.1 Construction Kickoff

Up to two Geosyntec representatives will attend one on-Site kickoff meeting and site walk with the Project Team. Geosyntec will also complete an internal kickoff meeting with the Geosyntec Project team prior to construction.

Subtask 26.1.2 Construction Observation

Geosyntec will perform on-Site construction monitoring and geotechnical special inspections during levee topping construction (2030 or later). Construction monitoring and geotechnical special inspection tasks will consist of responses to requests for information (RFIs), contractor submittal review, continuous observations of setback levee topping, material testing, production of daily field reports, and production of a final construction observations memo.

Geosyntec will coordinate with a materials testing vendor to perform grain-size, modified proctor, permeability, moisture content, and compaction (nuclear gauge densometer and intermittent sand

cone correlation tests) testing on selected levee fill import materials. Geosyntec will assess the test results to confirm import materials and compaction means and methods meet the requirements stated in the geotechnical design report for the Project.

Upon completion of this construction phase, Geosyntec will produce a final construction observations memo, which will be signed and stamped by a licensed geotechnical engineer in the state of Washington. This memo will include our final documentation of construction observations, records of our daily field reports, materials testing results, geotechnical engineering responses to RFIs and construction submittals, and our opinion of the conformance of the completed construction activities with respect to the geotechnical elements of the Project plans and specifications. Final acceptance of the setback levee topping construction and review of the non-geotechnical construction activities will be completed by others.

Subtask 26.2 Setback Levee Settlement Monitoring

Geosyntec will review settlement monitoring data collected from existing settlement monitoring plates during the second construction season through the levee topping construction event to determine the height of fill needed to be added to the setback levee. Geosyntec will produce a memo summarizing the results of this period of levee settlement monitoring and Geosyntec's conclusions.

Subtask 26.3 Project Management and Meetings

Geosyntec will manage our work and that of our vendors. Geosyntec will correspond with NSD and the design team as needed to advance the above scope of work and with respect to contracts, insurance certificates, billing cycles, etc. For this scope, Geosyntec has assumed that up to two Geosyntec staff will participate in a weekly meeting with the Project team. Geosyntec assumes three 1-hour meetings will occur over the course of the levee topping construction.

Geosyntec assumes up to two Geosyntec staff will participate in up to 2 on-Site meetings over the course of the levee topping construction.

Assumptions

- ▶ One season construction period (2030 or later) with work occurring only during the dry season (June to September).
- ▶ Geosyntec has assumed geotechnical review of up to 2 submittals and 2 RFIs.
- ▶ The levee topping will require 12 part-day visits for our material testing vendor during levee embankment construction for compaction testing. Laboratory testing will be proportionate to the volume of material placed for the levee raise event.
- ▶ Daily field reports will be produced to document our construction observations. Daily field reports will be packaged and provided to the Project Team on a weekly basis through email or sooner as situations warrant. Testing results from our subcontractor will be reported and appended to our daily field reports.
- ▶ Geosyntec will manage our work and that of our material testing and inspection vendor.

Deliverables

- ▶ On-site presence by a Geosyntec representative up to 5, 10-hour days per week for 2 weeks during levee topping construction.
- ▶ Weekly field report packages (PDF)
- ▶ Levee topping construction observations memo (PDF)
- ▶ Levee settlement monitoring results and conclusions memo (PDF)
- ▶ Written response to written bidder and/or contractor Requests for Information (RFI)

TASK 27: LEVEE TOPPING PROJECT MANAGEMENT AND CONSTRUCTION SUPPORT – NSD

Subtask 27.1 Project Management

NSD will provide project management services during Phase 4 efforts under this task. NSD will provide updates to the County to facilitate the tracking of progress and to communicate major findings through the course of this phase of the project. NSD will coordinate all team subconsultants and manage team schedule and budget including review and approval of monthly subconsultant invoices. The project management team will produce monthly progress reports to accompany its invoices for services completed.

Subtask 27.2 Engineering Services During Construction

The NSD engineering team will be available to consult with or support Geosyntec in resolving any aspects of the work that may affect the restoration areas. This effort is anticipated to be relatively small.

Assumptions

- ▶ The duration of Phase 4 will be one season construction period in 2030 with work occurring only during the dry season (June to September; 4 months).
- ▶ Monthly coordination with subconsultants and processing of invoices to County standards will require 2 hours a month for the NSD project manager and 2 hours per month for NSD billing support.

Deliverables

- ▶ Monthly NSD Team invoices and summary notes including subconsultant invoices.
- ▶ Correspondence with the County via email and phone to maintain open communication.
- ▶ On-site presence by an NSD representative for 1, 10-hour day per week for 2 weeks during levee topping construction.
- ▶ 24 hours of in-office engineering support.

TASK 28: SURVEY SUPPORT FOR LEVEE TOPPING - PARAMETRIX

Parametrix will provide surveying in support of settlement monitoring between the end of the second construction season (October 2029) and the start of the Phase 4 second levee topping event in June 2030. Support will include:

- ▶ Project management, communication, coordination, and oversight
- ▶ 9 site visits to perform monitoring measurements on contractor installed settlement plates

Deliverables

- ▶ Report detailing settlement deflection deltas after each site visit

Schedule B Compensation

The budget for work to be performed under the Agreement is Three Million Ninety-Five Thousand Seventy-Eight dollars (\$3,095,078). Total Compensation will not **exceed \$3,095,078**.

The total budget presented in Table 1 includes an estimate of 4% per year assumption of standard billing rate escalation on 2026 rates for NSD, NHC, Geosyntec, Parametrix, and ERCI for the portions of each task that would likely be performed in 2027, 2028, and 2029. Rates tables are hourly rates that cannot exceed current or yearly escalated rates.

Budget allocation may be shifted between tasks and between firms with written approval from the County as long as all deliverables are provided.

TABLE 1. ESTIMATED FEE BY PHASE AND TASK

Task	Anticipated Start	Anticipated Completion	Estimated Subtotal
PHASE 1 Preliminary (60%) Design			
Task 1: NSD Project Management, Coordination, & Outreach	Sep-26	Mar-27	\$ 133,363.06
Task 2: NHC Outreach and Communications Support	Sep-26	Mar-27	\$ 78,078.80
Task 3: NSD Additional Data Collection – Topographic and Wetlands Delineation	Sep-26	Oct-26	\$ 108,633.25
Task 4: Parametrix Site Survey and Real Estate Support	Sep-26	Oct-26	\$ 215,178.85
Task 5: ERCI Cultural Resources Assessment	Sep-26	Oct-26	\$ 76,159.43
Task 6: NSD Preliminary (60%) Hydraulic Modeling	Oct-26	Mar-27	\$ 93,986.88
Task 7: NHC Flood Risk Evaluation and Hydraulic Model Review	Oct-26	Mar-27	\$ 50,660.80
Task 8: NSD Preliminary (60%) Restoration Design	Oct-26	Mar-27	\$ 123,358.80
Task 9: Geosyntec Preliminary (60%) Geotechnical Engineering	Oct-26	Mar-27	\$ 121,466.00
Task 10: NSD Regulatory Agency Coordination and Preparation of Permit Applications	Sep-26	Mar-27	\$ 129,025.92
Task 10A: Phase 1 Contingency	Sep-26	Mar-27	\$ 112,991.18
		Phase 1 Subtotal	\$ 1,242,902.97

Task	Anticipated Start	Anticipated Completion	Estimated Subtotal
PHASE 2 Final Design and Bid Support			
Task 11: NSD Project Management, Coordination, & Outreach	Apr-27	Dec-27	\$ 70,659.05
Task 12: NHC Outreach and Communications Support - NHC	Apr-27	Dec-27	\$ 15,631.20
Task 13: Parametrix Boundary Survey and Real Estate Support	Apr-27	May-27	\$ 195,308.23
Task 14: ERCI Cultural Resources Permitting Support	Apr-27	Dec-27	\$ 9,432.73
Task 15: NSD Final Hydraulic Modeling	Apr-27	Jun-27	\$ 78,497.12
Task 16: NHC Floodplain Compliance	Apr-27	Dec-27	\$ 17,804.80
Task 17: NSD Draft Final (90%) and Final Restoration Design and Bid Support	Apr-27	Dec-27	\$ 163,483.84
Task 18: Geosyntec Final Geotechnical Engineering and Bid Support	Apr-27	Dec-27	\$ 70,365.32
Task 19: NSD Environmental Permitting Support	Apr-27	Dec-27	\$ 27,609.85
		Phase 2 subtotal	\$ 648,792.14

Task	Anticipated Start	Anticipated Completion	Estimated Subtotal
PHASE 3			
Construction Support 2028 & 2029			
Task 20: NSD Project Management, Coordination, and Outreach	Jan-28	Oct-29	\$ 68,347.29
Task 21: NHC Outreach and Communications Support	Jan-28	Mar-28	\$ 27,319.55
Task 22: Parametrix Construction Survey	Apr-28	Oct-28	\$ 94,398.23
Task 23: ERCI Cultural Resources Monitoring During Construction	Apr-28	Oct-28	\$ 52,326.11
Task 24: Geosyntec Geotechnical Construction Support	Apr-28	Oct-28	\$ 317,909.13
Task 25: NSD Construction Support	Apr-28	Oct-28	\$ 515,144.08
		Phase 3 subtotal	\$ 1,075,444.40

Task	Anticipated Start	Anticipated Completion	Estimated Subtotal
PHASE 4			
Construction Support – 2030			
Task 26: Geosyntec Levee Topping Construction Support	Jun-30	Sep-30	\$ 77,603.66
Task 27: NSD Levee Topping Project Management and Construction Support	Jun-30	Sep-30	\$ 16,747.24
Task 28: Parametrix Survey Support for Levee Topping	Oct-29	Jun-30	\$ 33,587.33
		Phase 4 subtotal	\$ 127,938.23
GRAND TOTAL ALL PHASES			\$ 3,095,077.73

GRAND TOTAL ALL PHASES			\$ 3,095,077.73
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Table 2. ESTIMATED FEE BY PHASE AND CONSULTANT FIRM

	NSD Labor	NSD Expenses	Geosyntec	Parametrix (incl CLS)	NHC	ERCI	Contingency	Total
PHASE 1 Preliminary (60%) Design	\$582,895.66	\$ 5,472.25	\$ 121,466.00	\$ 215,178.85	\$ 128,739.60	\$ 76,159.43	\$ 112,991.18	\$ 1,242,902.97
PHASE 2 Final Design	\$339,945.36	\$ 304.50	\$ 70,365.32	\$ 195,308.23	\$ 33,436.00	\$ 9,432.73		\$ 648,792.14
PHASE 3 Construction Support	\$572,327.88	\$ 11,163.50	\$ 317,909.13	\$ 94,398.23	\$ 27,319.55	\$ 52,326.11		\$ 1,075,444.40
PHASE 4 Construction Support	\$16,645.74	\$ 101.50	\$ 77,603.66	\$ 33,587.33				\$ 127,938.23
	\$1,511,814.63	\$ 17,041.75	\$ 587,344.11	\$ 538,472.64	\$ 189,495.15	\$137,918.27	\$ 112,991.18	\$ 3,095,077.73
	\$1,528,856.38							

Below, pages 1-28 are part of Schedule B and provide the Cost Estimates and Rates of NSD and included Sub-contractors.

NSD Labor Classification and Billing Rate		Steve (Principal Scientist)	Torrey L (Principal Scientist)	Eleanor B (Associate Principal Engineer)	Matt T (Senior Engineer)	Aaron L (Project Engineer)	Danny S (Senior Scientist)	Mary P (Project Engineer)	Julia J (Project Engineer)	Jeff S (Project Engineer)	Claire J (Staff Scientist)	Bob K (Senior Scientist)	Lillie H (Staff Engineer)	Paul S (Principal Scientist)	Gabriel G (Project Engineer)	Melody M (Administrative Support)	Dawn D (Senior Admin Support)	Total Hours	Labor (Billing Rate)	NSD Expenses and Subconsultants	Total Cost		
		\$269.00	\$269.00	\$254.00	\$229.00	\$202.00	\$225.00	\$202.00	\$202.00	\$202.00	\$156.00	\$225.00	\$166.00	\$269.00	\$202.00	\$101.00	\$111.00						
Task																							
1	Phase 1 Project Mngmt, Coordination, & Meetings (8 months) - NSD	106	196	119	1	28	12	1	1	9	1	3	9	1	1	12	34	534	\$ 130,053.00	\$ 709.00	\$ 133,363.06		
2	Phase 1 Outreach and Communications - NHC																			\$ 78,078.80	\$ 78,078.80		
3	Additional Data Collection - NSD	4	30	15	80		42			36	120	112	72					511	\$ 103,870.00	\$ 4,763.25	\$ 108,633.25		
4	Site Survey and Real Estate Support - Parametrix/CLS																			\$ 215,178.85	\$ 215,178.85		
5	Cultural Resources Assessment – ERCI																			\$ 76,159.43	\$ 76,159.43		
6	Preliminary (60%) Hydraulic Modeling -NSD	32	16	42	34	108			92	52	16		12	2	24			430	\$ 92,144.00		\$ 93,986.88		
7	Flood Risk Evaluation and Hydraulic Model Review – NHC																			\$ 50,660.80	\$ 50,660.80		
8	Preliminary (60%) Restoration Design -NSD	42	66	106	24	10	64	92	2			48	58	12	2			526	\$ 120,940.00		\$ 123,358.80		
9	Preliminary (60%) Geotechnical Engineering – Geosyntec																			\$ 121,466.00	\$ 121,466.00		
10	Agency Coordination and Preparation of Permit Applications -NSD	2	120	22			8				164	258	16					590	\$ 126,496.00		\$ 129,025.92		
11	Phase 2 Project Mngmt, Coordination, & Meetings (9 months) -NSD	46	135	46		12	4									12	26	281	\$ 67,795.00	\$ 152.25	\$ 70,659.05		
12	Phase 2 Outreach and Communications - NHC																			\$ 15,631.20	\$ 15,631.20		
13	Boundary Survey and Real Estate Support - Parametrix/CLS																			\$ 195,308.23	\$ 195,308.23		
14	Cultural Resources Permitting Support – ERCI																			\$ 9,432.73	\$ 9,432.73		
15	Final Hydraulic Modeling -NSD	26	16	30	16	104			84	40			12		24			352	\$ 75,478.00		\$ 78,497.12		
16	Floodplain Compliance – NHC																			\$ 17,804.80	\$ 17,804.80		
17	Draft Final (90%) and Final Restoration Design & Bid Support -NSD	64	86	196	14		56	96			24	80	48	8				672	\$ 157,196.00		\$ 163,483.84		
18	Final Geotechnical Engineering & Bid Support – Geosyntec																			\$ 70,365.32	\$ 70,365.32		
19	Environmental Permitting Support -NSD		20	4			8					80						112	\$ 26,196.00	\$ 152.25	\$ 27,609.85		
20	Phase 3 Project Mngmt, Coordination, & Meetings (15 active months) -NSD	21	133	49			8	8		8			8			15	12	262	\$ 63,079.00	\$ 252.25	\$ 68,347.29		
21	Phase 3 Outreach and Communications - NHC																			\$ 27,319.55	\$ 27,319.55		
22	Construction Survey – Parametrix/CLS																			\$ 94,398.23	\$ 94,398.23		
23	Cultural Resources Monitoring During Construction – ERCI																			\$ 52,326.11	\$ 52,326.11		
24	Geotechnical Construction Support – Geosyntec																			\$ 317,909.13	\$ 317,909.13		
25	NSD Construction Support -NSD	102	40	440				576			500		690					2348	\$ 458,850.00	\$ 10,911.25	\$ 515,144.08		
26	Phase 4 - Levee Topping Construction Support - Geosyntec																			\$ 77,603.66	\$ 77,603.66		
27	Levee Topping PM and Construction Support - NSD		12	24				24								4	2	66	\$ 14,798.00	\$ 101.50	\$ 16,747.24		
28	Survey Support for Levee Topping -Parametrix																			\$ 33,587.33	\$ 33,587.33		
Subtotals		445	870	1093	169	262	202	797	179	145	825	581	925	23	51	43	74	6684	\$ 1,436,895.00	\$ 1,470,271.92	\$ 2,982,086.55		
																Phase 1 Contingency at 10% of Phase 1				\$112,991.18			
																Phase 1 Total with Contingency				\$1,242,902.97			
																Phase 2 Estimate				\$648,792.14			
																Phase 3 Estimate				\$1,075,444.40			
																Phase 4 Estimate				\$127,938.23			
GRAND TOTAL																						\$ 3,095,077.73	

NSD Expenses and Subconsultants Detail

Task	Task Description	PURPOSE OF EXPENSE	UNITS	RATES	AMOUNT	NOTES
1	Phase 1 Project Mngmt, Coordination, & Meetings (8 months) - NSD					
1.10	Public meeting; 6hr event; 5 NSD attend in person; prep materials for note taking etc.	Mileage	210	0.725	\$ 152.3	1 mtg. 70 miles RT. Three Cars for 5 people.
1.10	Public meeting; 6hr event; 5 NSD attend in person; prep materials for note taking etc.	Printing posters for meeting	1	100	\$ 100	Estimate
1.11	DD1, DD13, DD2 mtgs; total nine 4 hr mtgs, in person; 3 NSD attend	Mileage 55 miles and 9 meetings	630	0.725	\$ 457	9 mtg. 70 mi RT. One Car.
				Subtotal	\$ 709.00	
2	Phase 1 Outreach and Communications - NHC					
2.1	9 diking district and one public meeting support	subconsultant nhc	1	78078.80	78078.80	updated 6/18
				Subtotal	\$ 78,078.80	
3	Additional Data Collection - NSD					
3.1	Topographic and Bathymetric Survey (Field); 4 staff three days	Mileage	1140	0.725	\$ 826.5	3 days. 2 cars. 120 mi RT from Bellingham. 70 mi RT from Seattle.
3.1	Topographic and Bathymetric Survey (Field); 4 staff three days	2 RTK units for three days; \$550 per day	6	550	\$ 3,300.0	2 units. 3 days.
3.4	Wetlands and Waters Delineation Fieldwork (4 people, three 12 hr days) plus planning and elevation analysis	Mileage	630	0.725	\$ 456.8	3 days. 3cars. 70 mi RT from Seattle
3.4	Wetlands and Waters Delineation Fieldwork (4 people, three 12 hr days) plus planning and elevation analysis	ipad	6	30	\$ 180.0	2 units 3 days
				Subtotal	\$ 4,763.25	
4	Site Survey and Real Estate Support - Parametrix/CLS					
4.1	Topographic and Boundary Survey - Parametrix	subconsultant PMX	1	208435.67	208435.67	
4.2	Real estate support - CLS	subconsultant CLS	1	6743.18	\$ 6,743	
				Subtotal	\$ 215,178.85	
5	Cultural Resources Assessment – ERCI					
5.1	Montiroing during Geotech + S106 Agency coord; APE; shovel probe survey , report	subconsultant ERCI	1	76159.43	76159.43	6/18/26 now includes \$20k in optional regulatory complexity that was Okd for inclusion
				Subtotal	\$ 76,159.43	
7	Flood Risk Evaluation and Hydraulic Model Review – NHC					
7.1	Flood Risk Evaluation and Agency Coordination + hydraulic model review & support	subconsultant nhc	1	50660.80	50660.80	updated 6/18
				Subtotal	\$ 50,660.80	
9	Preliminary (60%) Geotechnical Engineering – Geosyntec					
9.1	Existing Levee Evaluation, 60% design, geotech field work	subconsultant geosyntec	1	121466.00	121466.00	updated 6/15 by TL
				Subtotal	\$ 121,466.00	
11	Phase 2 Project Mngmt, Coordination, & Meetings (9 months) -NSD					
11.9	Diking Districts 1, 2, and 13 mtgs; total three 4 hr mtgs, in person	Mileage	210	0.725	\$ 152.25	70 miles RT; one car
				Subtotal	\$ 152.25	
12	Phase 2 Outreach and Communications - NHC					
12.1	Diking District Meetings Support	subconsultant nhc	1	15631.20	15631.20	updated 6/18
				Subtotal	\$ 15,631.20	
13	Boundary Survey and Real Estate Support - Parametrix/CLS					
13.1	Boundary Survey Parametrix	subconsultant PMX	1	\$ 83,187.76	\$ 83,187.76	
13.2	Real Estate Support - CLS	subconsultant CLS	1	\$ 112,120.47	\$ 112,120.47	
				Subtotal	\$ 195,308.23	
14	Cultural Resources Permitting Support – ERCI					
14.1	Section 106 Permitting Support; inadvertent Discovery / Cultural Resources Data Recovery Contingency Plan	subconsultant ERCI	1	9432.73	\$ 9,432.73	
				Subtotal	\$ 9,432.73	
16	Floodplain Compliance – NHC					
16.1	Floodplain Compliance	subconsultant nhc	1	\$ 17,804.80	\$ 17,804.80	updated 6/18
				Subtotal	\$ 17,804.80	
18	Final Geotechnical Engineering & Bid Support – Geosyntec					
18.1	90% and Final Setback Levee Design; phase 2 geotech and bid support	subconsultant geosyntec	1	\$ 70,365.32	\$ 70,365.32	updated 6/15 by TL
				Subtotal	\$ 70,365.32	
19	Environmental Permitting Support -NSD					
19.1	Agency Outreach & Coord DNR and WDFW and Ecology via 3 in person field mtgs; 8 hrs each incl travel	Mileage	210	0.725	\$ 152.25	70 miles RT; one vehicle; 3 meetings
				Subtotal	\$ 152.25	
20	Phase 3 Project Mngmt, Coordination, & Meetings (15 active months) -NSD					
20.7	Public Meeting support; one 6 hr mtg + prep materials; 5 NSD attend	mileage	210	0.725	\$ 152.25	1 mtg. 55 miles RT. Three Cars for 5 people.
20.7	Public Meeting support; one 6 hr mtg + prep materials; 5 NSD attend	posters and materials for meeting	1	100	\$ 100.00	Estimate
				Subtotal	\$ 252.25	
21	Phase 3 Outreach and Communications - NHC					
21.1	Public Meeting Support; 6 hrs in person; 4 NHC members attend; plus 2, two hour prep mtgs	subconsultant nhc	1	\$ 27,319.55	\$ 27,319.55	updated 6/18
				Subtotal	\$ 27,319.55	
22	Construction Survey – Parametrix/CLS					
22.1	Preconstruction and Construction Survey + 18 settlement survey visits	subconsultant PMX	1	\$ 91,767.00	\$ 91,767.00	
22.2	CLS Support	subconsultant CLS	1	\$ 2,631.23	\$ 2,631.23	
				Subtotal	\$ 94,398.23	
23	Cultural Resources Monitoring During Construction – ERCI					
23.1	Cultural Resources Monitoring in 2028 and 2029	subconsultant ERCI	1	\$ 52,326.11	\$ 52,326.11	
				Subtotal	\$ 52,326.11	
24	Geotechnical Construction Support – Geosyntec					
24.1	Geotechnical Support During Construction	subconsultant geosyntec	1	\$ 317,909.13	\$ 317,909.13	updated 6/15 by TL
				Subtotal	\$ 317,909.13	
25	NSD Construction Support -NSD					
25.5	As-built plans	Mileage at 275 miles a week, 26 weeks	9100	0.725	\$ 6,597.5	drive 5 days...70miles RT from Seattle 1 car
25.6	PM wrangling of subs construction support and NSD construction support staff and schedules etc.	Mileage at 275 miles a week, 17 weeks	5950	0.725	\$ 4,314	drive 5 days...70miles RT from Seattle 1 car
				Subtotal	\$ 10,911.25	
26	Phase 4 - Levee Topping Construction Support - Geosyntec					
26.1	construction support for levee topping needs	subconsultant geosyntec	1	\$ 77,603.66	\$ 77,603.66	updated 6/15 by TL
				Subtotal	\$ 77,603.66	
27	Levee Topping PM and Construction Support - NSD					
27.2	Engineering services	NSD Mileage	140	0.725	\$ 101.5	2 trips, 70 mi RT
28.1	Survey Support for Levee Topping monthly Oct 2029 to June 2030 9 months	subconsultant PMX TASK 28	1	\$ 33,587.33	\$ 33,587.33	
				Subtotal	\$ 33,688.83	
Expenses and Subconsultant Grand Total					\$ 1,470,271.92	



2026 Rate Schedule

	STANDARD RATES
Classification	\$/hr
Senior Principal (Engineer or Scientist)	309
Principal (Engineer or Scientist)	269
Associate Principal (Engineer or Scientist)	254
Senior engineer	229
Senior scientist (biologist, ecologist, geomorphologist, hydrologist)	225
Senior planner/landscape architect	218
Project engineer	202
Project scientist (biologist, ecologist, geomorphologist, hydrologist)	196
Project planner/landscape architect	190
Staff engineer	166
Staff scientist (biologist, ecologist, geomorphologist, hydrologist)	156
Staff planner/landscape architect	141
Engineering technician	134
Scientist technician	126
Senior CAD/GIS technician	134
CAD/GIS technician	130
Field monitoring coordinator	116
Field monitoring technician	101
Senior administration support	111
Administrative support	101

Equipment	\$/day
RV field office	150
RTK survey unit	275
Total station survey unit	175
Level survey unit	60
Field GPS/Ipad	30
Differential Trimble GPS	125
Drone and Camera Package	175
Single beam sonar	175
Multi-person inflatable watercraft	200
Single-person inflatable watercraft	100
Boat motorized (36ft)	350
Boat motorized (20ft)	275
Boat motorized (10ft)	100
Vibracore Drill System	100
Dynamic Cone Penetrometer	80
Sediment Grain Size Analysis	100/sample

Reimbursables	
Reproduction (per copy)	\$ 0.05
Mileage	at current federal rate
Plotting	at cost
Courier	at cost
Per diem	at Federal rate

Geosyntec Cost Estimate and Rates

Chinook Marsh 60% Design through Final Construction - Project Budget Summary

Phase Title	Labor	Other Direct Charges	Vendors	Total
Task 9 - 60% Design (2026)	\$ 105,166.00	\$ 300.00	\$ 16,000.00	\$ 121,466.00
Task 18 - 90% and 100% Design (2027)	\$ 70,065.32	\$ 300.00	-	\$ 70,365.32
Task 24.1 - First Phase of Construction (2028)	\$ 201,433.94	\$ 5,200.00	\$ 25,000.00	\$ 231,633.94
Task 24.2 - Second Phase of Construction (2029)	\$ 79,035.19	\$ 1,000.00	\$ 6,240.00	\$ 86,275.19
Task 26 - Levee Topping Maintenance Lift (2030)	\$ 70,123.66	\$ 1,000.00	\$ 6,480.00	\$ 77,603.66
Total Project Budget	\$ 525,824.12	\$ 7,800.00	\$ 53,720.00	\$ 587,344.12

Chinook Marsh - Phase I - Task 9 - Preliminary (60%) Design

Preliminary Cost Estimate

Job Number:

Project Manager: Julia Martz

Direct Expenses Markup N/A

Subcontract Services Markup N/A

Technology/Communications Fee

Budget: \$ 121,466.00

Target Completion Date: Mar-27

Rate Schedule 2026 NW B/C

Subtask	Work Element	Labor Budget Basis in Hours						Total Labor Budget	Other Direct Charges (ODC)	Vendors
		Senior Principal	Professional	Senior Staff Professional	Sr. Designer	Sr. Editor	Project Administrator			
		\$ 345.00	\$ 225.00	\$ 195.00	\$ 220.00	\$ 178.00	\$ 103.00			
9.1	Subtask 9.1 Existing Levee Evaluation and New Tidegate									
9.1	Subtask 9.1.1 Utility Locates									
9.1	Site visit to mark explorations and evaluate existing levee	2	10					\$ 2,940.00	\$ 100.00	
9.1	Private Locator (Vendor)		2					\$ 450.00		\$ 1,000.00
9.1	Subtask 9.1.2 Test Pits									
9.1	Exploration planning and coordination with vendor	1	4	2				\$ 1,635.00		
9.1	Test pit investigation (1 long day)	1	3	16				\$ 4,140.00	\$ 100.00	
9.1	Test pit exploration logs	1	2	8				\$ 2,355.00		
9.1	Excavator (Vendor)									\$ 3,000.00
9.1	Subtask 9.1.3 Drilled Boring									
9.1	Exploration planning and coordination with vendor	1	4	2				\$ 1,635.00		
9.1	Drilled boring investigation (1 long day)	1	3	16				\$ 4,140.00	\$ 100.00	
9.1	Drilled boring exploration logs	1	2	4				\$ 1,575.00		
9.1	Driller (Vendor)									\$ 9,000.00
9.1	Subtask 9.1.4 Geotechnical Laboratory Testing									
9.1	Lab testing and interpret lab data	1	4	2				\$ 1,635.00		
9.1	Lab Testing (Vendor)									\$ 3,000.00
9.2	Subtask 9.2 Geotechnical Engineering Analyses									
9.2	Setback Levee - Settlement (4 locations)	4	16					\$ 4,980.00		
9.2	Setback Levee - Seepage and Slope Stability (4 locations)	8	40		4			\$ 12,640.00		
9.2	Setback Levee - Liquefaction (4 locations)	4	12					\$ 4,080.00		
9.2	Tidegate Culvert (possibly fish-passable) - foundations and wingwalls	1	4					\$ 1,245.00		
9.2	Existing levee (to remain) restoration recommendations	2	4					\$ 1,590.00		
9.2	Existing levee (to be breached) construction access recommendations	2	4					\$ 1,590.00		
9.2	General earthwork recommendations	1	4					\$ 1,245.00		
9.3	Subtask 9.3 Geotechnical Reporting									
9.3	Subtask 9.3.1 Updated Geotechnical Data Report									
9.3	Update GDR text and data	2	6	4		2		\$ 3,176.00		
9.3	Subtask 9.3.2 Geotechnical Engineering Report									
9.3	Draft GER text and appendices	4	20	4				\$ 6,660.00		
9.3	Draft GER figures	1	4		8			\$ 3,005.00		
9.3	QA/QC and internal revisions	4	4					\$ 2,280.00		
9.3	Draft report production	1	3			6		\$ 2,088.00		
9.4	Subtask 9.4 Phase I Geotechnical Design Support									
9.4	Setback levee plans (up to 3 sheets)	12	24		72			\$ 25,380.00		
9.4	Update feasibility phase cost estimate	2	8					\$ 2,490.00		
9.5	Subtask 9.5 Project Management and Meetings									
9.5	Phase I Kick-off Call	1	1					\$ 570.00		
9.5	Status communications and meetings (8 1-hr meetings, 2 staff)	8	12					\$ 5,460.00		
9.5	Invoicing and budget management (8 months)		12				8	\$ 3,524.00		
9.5	Project initiation and administration		2				6	\$ 1,068.00		
9.5	Completing and updating Risk Register	2	4					\$ 1,590.00		
Total		68	218	58	84	8	14	\$ 105,166.00	\$ 300.00	\$ 16,000.00

Chinook Marsh - Phase 2 - Task 18 - Final Design & Permitting

Preliminary Cost Estimate

Job Number:

Project Manager: Julia Martz

Direct Expenses Markup N/A

Subcontract Services Markup N/A

Technology/Communications Fee

Budget: \$ 70,365.32

Target Completion Date: Oct-27

Rate Schedule 2027 NW B/C - 4% escalation from 2026

Subtask	Work Element	Labor Budget Basis in Hours						Total Labor Budget	Other Direct Charges (ODC)	Vendors
		Senior Principal	Project Professional	Senior Staff Professional	Sr. Designer	Sr. Editor	Project Administrator			
		\$ 358.80	\$ 265.20	\$ 202.80	\$ 228.80	\$ 185.12	\$ 107.12			
18.1	Subtask 18.1 Geotechnical Reporting									
18.1	Finalize GDR	2	6			2		\$ 2,679.04		
18.1	Finalize GER	2	6			2		\$ 2,679.04		
18.2	Subtask 18.2 Phase 2 Geotechnical Design Support for 90% Design									
18.2	Revise setback levee plans (up to 3 sheets)	2	3		9			\$ 3,572.40		
18.2	Select and write geotechnical-related specifications and special provisions	16	40					\$ 16,348.80		
18.2	Update cost estimate	2	6					\$ 2,308.80		
18.3	Subtask 18.3 Phase 2 Geotechnical Design Support for Final Design									
18.3	Finalize setback levee plans (up to 3 sheets)	1.5	3		9			\$ 3,393.00		
18.3	Finalize geotechnical related specifications and special provisions	4	8					\$ 3,556.80		
18.3	Finalize cost estimate	1	3					\$ 1,154.40		
18.4	Subtask 18.4 Bid Support									
18.4	Attend pre-bid site walk	6	6					\$ 3,744.00	\$ 200.00	
18.4	Respond to geotechnical bidder questions	5	10					\$ 4,446.00		
18.4	Prepare geotechnical engineering addenda (as needed)	10	20					\$ 8,892.00		
18.4	Attend bid opening at County office	6	6					\$ 3,744.00	\$ 100.00	
18.4	Respond to design team questions	4	8					\$ 3,556.80		
18.5	Subtask 9.5 Project Management and Meetings									
18.5	Status communications and meetings (8 1-hr meetings, 2 staff)	8	10					\$ 5,522.40		
18.5	Invoicing and budget management (8 months)		8				8	\$ 2,978.56		
18.5	Project initiation and administration		2				4	\$ 958.88		
18.5	Updating Risk Register		2					\$ 530.40		
Total		69.5	147		18	4	12	\$ 70,065.32	\$ 300.00	

Chinook Marsh - Phase 3 - Task 24 - Construction Support (Phase I in 2028)

Preliminary Cost Estimate

Job Number:

Project Manager: Julia Martz

Direct Expenses Markup N/A

Subcontract Services Markup N/A

Technology/Communications Fee

Budget: \$ 231,633.94

Target Completion Date: Oct-28

Rate Schedule 2028 NW 8/C - 4% escalation from 2027

Subtask	Work Element	Labor Budget Basis in Hours						Total Labor Budget	Other Direct Charges (ODC)	Vendors
		Senior Principal	Project Professional	Senior Staff Professional	Sr. Designer	Sr. Editor	Project Administrator			
		\$ 373.15	\$ 275.81	\$ 210.91	\$ 237.95	\$ 192.52	\$ 111.40			
24.1	Subtask 24.1 Geotechnical Support During the First Season of Construction									
24.1	Subtask 24.1.1 Construction Kickoff									
24.1	Attend on-site kickoff meeting and site walk	6	6					\$ 3,893.76	\$ 200.00	
24.1	Review Final project plans and specs	2	2					\$ 1,297.92		
24.1	Internal kickoff	2	2	1				\$ 1,508.83		
24.1	Subtask 24.1.2 Construction Observation									
24.1	Setback levee and tidegate culvert construction - onsite observation (5 10-hr days/week for 10 weeks)			500				\$ 105,456.00	\$5,000.00	
24.1	Setback levee and tidegate culvert construction - office support	20	50					\$ 21,253.44		
24.1	Daily field reporting		25	50				\$ 17,440.80		
24.1	Materials Testing (Vendor; 50 part-day visits)		25					\$ 6,895.20	\$ 25,000.00	
24.1	Responses to RFIs (5)	5	15					\$ 6,002.88		
24.1	Contractor submittal review (10; levee fill, riprap, filter, geotextiles, settlement plates, planting material, topsoil, etc)	5	20					\$ 7,381.92		
24.1	First season construction observations memo	2	12			4		\$ 4,826.10		
24.3	Subtask 24.3 Setback Levee Settlement Monitoring (2028)									
24.3	Settlement monitoring data review (3 months, weekly review)	3	12					\$ 4,429.15		
24.4	Subtask 24.4 Project Management and Meetings (2028)									
24.4	Status communications and meetings (10 1-hr meetings, 2 staff)	10	20					\$ 9,247.68		
24.4	Invoicing and budget management (9 months)		14				9	\$ 4,863.96		
24.4	Project initiation and administration		2				11	\$ 1,777.07		
24.4	On-site meetings (4 2-hr meetings)	2	16					\$ 5,159.23		
Total		57	221	551		4	20	\$ 201,433.94	\$5,200.00	\$ 25,000.00

Chinook Marsh - Phase 3 - Task 24 - Construction Support (Phase 2 in 2029)

Preliminary Cost Estimate

Job Number:

Project Manager: Julia Martz

Direct Expenses Markup N/A

Subcontract Services Markup N/A

Technology/Communications Fee

Budget: \$ 86,275.19

Target Completion Date: Oct-29

Rate Schedule 2029 NW B/C - 4% escalation from 2028

Subtask	Work Element	Labor Budget Basis in Hours						Total Labor Budget	Other Direct Charges (ODC)	Vendors
		Senior Principal	Project Professional	Senior Staff Professional	Sr. Designer	Sr. Editor	Project Administrator			
		\$ 388.08	\$ 286.84	\$ 219.35	\$ 247.47	\$ 200.23	\$ 115.86			
24.2	Subtask 24.2 Geotechnical Support During the Second Season of Construction (2029)									
24.2	Subtask 24.2.1 Construction Kickoff									
24.2	Attend on-site kickoff meeting and site walk	6	6					\$ 4,049.51		
24.2	Review Final project plans and specs	2	2					\$ 1,349.84		
24.2	Internal kickoff	2	2	1				\$ 1,569.19		
24.2	Subtask 24.2.2 Construction Observation									
24.2	Setback levee topping - onsite observation (5 10-hr days/week for 2 weeks)			100				\$ 21,934.85	\$1,000.00	
24.2	Setback levee topping - office support	4	10					\$ 4,420.72		
24.2	Existing levee breaching and/or channel grading - onsite observation (6 6-hr site visits)		6	36				\$ 9,617.59		
24.2	Daily field reporting		8	16				\$ 5,804.30		
24.2	Materials Testing (Vendor; 12 part-day visits)		6					\$ 1,721.04		\$ 6,240.00
24.2	Responses to RFIs (assume 3)	2	6					\$ 2,497.20		
24.2	Contractor submittal review (levee fill, riprap, filter, geotextiles, settlement plates, planting material, topsoil, etc)	3	9					\$ 3,745.80		
24.2	Second season construction observations memo	2	8			2		\$ 3,471.33		
24.3	Subtask 24.3 Setback Levee Settlement Monitoring (2029)									
24.3	Settlement monitoring data review (5 months, twice weekly review)	5	10					\$ 4,808.79		
24.3	Levee settlement monitoring results and conclusions memo	2	8					\$ 3,070.88		
24.4	Subtask 24.4 Project Management and Meetings (2029)									
24.4	Status communications and meetings (3 1-hr meetings, 2 staff)	3	10					\$ 4,032.64		
24.4	Invoicing and budget management (5 months)		8				5	\$ 2,874.03		
24.4	Project initiation and administration		2				7	\$ 1,384.71		
24.4	On-site meetings (2 2-hr meetings)	1	8					\$ 2,682.80		
Total		32	109	153		2	12	\$ 79,035.19	\$1,000.00	\$ 6,240.00

Chinook Marsh - Phase 4 - Task 26 - Levee Topping Construction Support (2nd levee maintenance event in 2030)

Preliminary Cost Estimate

Job Number:

Project Manager: Julia Martz

Direct Expenses Markup N/A

Subcontract Services Markup N/A

Technology/Communications Fee

Budget: \$ 77,603.66

Target Completion Date:

Rate Schedule 2030 NW B/C - 4% escalation from 2029

Subtask	Work Element	Labor Budget Basis in Hours						Total Labor Budget	Other Direct Charges (ODC)	Vendors
		Senior Principal	Project Professional	Senior Staff Professional	Sr. Designer	Sr. Editor	Project Administrator			
		\$ 403.60	\$ 298.31	\$ 228.12	\$ 257.37	\$ 208.23	\$ 120.50			
26.1	Subtask 26.1 Geotechnical Support During Construction (2030 or later)									
26.1	Subtask 26.1.1 Construction Kickoff									
26.1	Attend on-site kickoff meeting and site walk	6	6					\$ 4,211.49		
26.1	Review final project plans and specs	2	2					\$ 1,403.83		
26.1	Internal kickoff	2	2	1				\$ 1,631.95		
26.1	Subtask 26.1.2 Construction Observation									
26.1	Setback levee topping - onsite observation (5 10-hr days/week for 2 weeks)			100				\$ 22,812.34	\$1,000.00	
26.1	Setback levee topping - office support	4	10					\$ 4,597.54		
26.1	Daily field reporting		5	10				\$ 3,772.79		
26.1	Materials Testing (Vendor; 12 part-day visits)		6					\$ 1,789.88		\$ 6,480.00
26.1	Responses to RFIs (assume 2)	2	6					\$ 2,597.09		
26.1	Contractor submittal review (levee fill, settlement plates, planting material, topsoil, etc)	3	9					\$ 3,895.63		
26.1	Levee topping construction observations memo	2	8			2		\$ 3,610.18		
26.2	Subtask 26.2 Setback Levee Settlement Monitoring									
26.2	Settlement monitoring data review (12 months, monthly reviews)	4	12					\$ 5,194.17		
26.2	Levee settlement monitoring results and conclusions memo	2	8					\$ 3,193.71		
26.3	Subtask 26.3 Project Management and Meetings (2029)									
26.3	Status communications and meetings (3 1-hr meetings, 2 staff)	3	10					\$ 4,193.94		
26.3	Invoicing and budget management (5 months)		8				5	\$ 2,988.99		
26.3	Project initiation and administration		2				7	\$ 1,440.10		
26.3	On-site meetings (2 2-hr meetings)	1	8					\$ 2,790.11		
Total		31	102	111		2	12	\$ 70,123.66	\$1,000.00	\$ 6,480.00

**GEOSYNTec CONSULTANTS
2026 U.S. RATE SCHEDULE**

	<u>Rate/Hour</u>
Staff Professional	\$170
Senior Staff Professional	\$195
Professional	\$225
Project Professional	\$255
Senior Professional	\$290
Principal	\$320
Senior Principal	\$345
Technician I	\$98
Technician II	\$108
Senior Technician I	\$115
Senior Technician II	\$125
Site Manager I	\$140
Site Manager II	\$155
Construction Manager I	\$165
Construction Manager II	\$178
Senior Designer	\$220
Designer	\$185
Senior Drafter/Senior CADD Operator	\$175
Drafter/CADD Operator/Artist	\$155
Senior Technical Editor	\$178
Technical Editor	\$158
Senior Project Analyst	\$158
Project Analyst	\$132
Project Administrator	\$103
Clerical	\$ 80
Direct Expenses	Cost (no markup)
Subcontract Services	Cost (no markup)
Specialized Computer Applications (per hour)	\$15
Personal Automobile (per mile)	Current Gov't Rate
Photocopies (per page)	\$.09

Northwest Hydraulic Consultants, Inc. Cost Estimate and Rates

Northwest Hydraulic Consultants Inc.

12787 Gateway Drive S.

Seattle, WA 98168

Tel. (206) 241-6000

Prepared for: NSD

Project: Chinook Marsh Restoration 60/90/final+bid - Outreach/Communications/Hydraulics

Date: 6/18/26

Project #:

Prepared By: VDC

Northwest Hydraulic Consultants Inc.		NHC Categories and Rates										
TASK DESCRIPTION	Principal	Sr. Engineer 2	Scientist 2	Jr. Engineer	Engr Tech I	Contract Admin	Total Hours	Task Labor	Direct Expenses	Total Cost \$2026	Total Cost w/ Escalation @ 4% Annually	Task Totals
2026 Standard Billing Rate	\$ 335	\$ 225	\$ 175	\$ 155	\$ 145	\$ 120						
Task 2. Outreach and Communications Phase 1												
PM/Gen Coord	24					2	26	\$ 8,280.00	\$ -	\$ 8,280.00	\$ 8,445.60	
2.1 Public Meeting Support	80			12	12		104	\$ 30,400.00	\$ 217.50	\$ 30,617.50	\$ 31,842.20	
2.2 Diking District 1, 2, and 13 Coordination Support	108						108	\$ 36,180.00	\$ 870.00	\$ 37,050.00	\$ 37,791.00	\$ 78,078.80
Task 7. Flood Risk Eval & Hydraulic Model Review Ph 1												
7.1 Flood Risk Evaluation								\$ -	\$ -	\$ -	\$ -	
Existing Conditions Model Updates	12						12	\$ 4,020.00		\$ 4,020.00	\$ 4,020.00	
Sensitivity Testing	16			16			32	\$ 7,840.00		\$ 7,840.00	\$ 7,840.00	
Preliminary Proposed Conditions Modeling	32						32	\$ 10,720.00		\$ 10,720.00	\$ 10,934.40	
7.2 Agency Coord & Flood Hazard Permit	32	16		24			72	\$ 18,040.00		\$ 18,040.00	\$ 18,400.80	
7.3 Hydraulic Model QA/QC	24			8			32	\$ 9,280.00		\$ 9,280.00	\$ 9,465.60	\$ 50,660.80
Task 12 Outreach and Commications Phase 2												
Diking District Meeting Support	44						44	\$ -	\$ -	\$ -	\$ -	
								\$ 14,740.00	\$ 290.00	\$ 15,030.00	\$ 15,631.20	\$ 15,631.20
Task 16. Floodplain Compliance Phase 2												
16.1 Flood Risk Evaluation & Hyd Model Review	24			12			36	\$ 9,900.00		\$ 9,900.00	\$ 10,296.00	
16.2 Floodplain Compliance	16			12			28	\$ 7,220.00		\$ 7,220.00	\$ 7,508.80	\$ 17,804.80
Task 21. Outreach & Communications Support Phase 3												
Public Meeting Support	20			12	12		44	\$ -		\$ -	\$ -	
Diking District Meeting Support	44						44	\$ 10,300.00	\$ 217.50	\$ 10,517.50	\$ 11,375.73	
								\$ 14,740.00	\$ 290.00	\$ 15,030.00	\$ 15,943.82	\$ 27,319.55
Total Hours												
Billing Rate (\$/hr)												
TOTAL \$189,495.15												
Direct Expense Detail												
Task Units Rate Cost												
Mileage 2.2 300 0.725 \$218												
Mileage 2.3 1,200 0.725 \$870												
Mileage 12.0 400 0.725 \$290												
Mileage 21 Public mtgs 300 0.725 \$218												
Mileage 21 Diking District Mtgs 400 0.725 \$290												

SCHEDULE OF STANDARD CHARGES
(Effective January 2026)

Labor Category	Fee Rate (\$US/hour)
Principal.....	335
Principal T3 / Sr. Project Engineer 1	315
Sr. Project Engineer/Scientist 2.....	290
Sr. Engineer/Scientist 1.....	240
Sr. Engineer/Scientist 2.....	225
Engineer/Scientist 1	200
Engineer/Scientist 2	175
Jr. Engineer/Scientist	155
GIS Analyst 1.....	175
GIS Analyst 2.....	150
Sr. CAD Designer.....	190
CAD Designer	150
Sr. Engineering Technician	180
Engineering Technician 1	145
Engineering Technician 2	135
Jr. Engineering Technician.....	85
Sr. Contract Administrator.....	300
Sr. Technical Editor.....	165
Technical Editor	150
Office Administrator/Contract Administrator	120

	Plotting	\$/sheet	Photocopies\$/sheet
	Plots, bond, 11 x 17	\$2.00	B&W 8½ x 11.....\$0.10
	Plots, bond, D size.....	\$4.00	B&W 11 x 17.....\$0.15
	Plots, oversize (running foot)...	\$2.00	Color 8½ x 11.....\$1.00
			Color 11 x 17\$2.00

ERCI Cost Estimate and Rates

ERCI Chinook Marsh: Phase 1 (2026 & 2027, shovel tests, report)

Description	Job Classification	Hours	Rate	Cost
Planning, Management, and Writing				
Description	Job Classification	Hours	Rate	Cost
Project management, permit coordination and plan development.	Principal Investigator	20.00	149.18	\$2,983.53
Risk register	Principal Investigator	10.00	149.18	\$1,491.77
Report editing (2026)	Principal Investigator	4.00	149.18	\$596.71
Report editing (2027)	Principal Investigator (2027 rate)	4.00	155.14	\$620.57
Report writing (2026)	Senior Archaeologist 2	20.00	100.36	\$2,007.10
Report writing (2027)	Senior Archaeologist 2 (2027 rate)	20.00	104.37	\$2,087.39
Archival background research	Historian	10.00	92.22	\$922.18
GIS, Graphics, layout (2026)	Archaeologist 8	12.00	89.51	\$1,074.07
GIS, Graphics, layout (2027)	Archaeologist 8 (2027 rate)	6.00	93.09	\$558.52
Document control, transcriptions, data entry	Archaeological Technician 6	20.00	67.81	\$1,356.15
Additional regulatory complexity with diking districts	Principal Investigator	134.10	149.18	\$20,005.04
Total				\$33,703.02
Fieldwork				
Description	Job Classification	Hours	Rate	Cost
Fieldwork check-ins, supervision	Principal Investigator	2.00	149.18	\$298.35
Monitor	Senior Archaeologist 1	20.00	97.64	\$1,952.86
Field supervisor	Senior Archaeologist 1	100.00	97.64	\$9,764.28
Field crew	Archaeologist 1	400.00	70.52	\$28,207.92
Total				\$40,223.41
Direct Costs				
Description		Units	Rate	Cost
Mileage (140 miles R/T) 2 vehicle(s)	N/A	3080.00	0.725	\$2,233.00
Total				\$2,233.00
GRAND TOTAL				\$76,159.43

ERCI Chinook Marsh: Phase 2 (2027)

Description	Job Classification	Hours	Rate	Cost
Final Design and Permitting				
Description	Job Classification	Hours	Rate	Cost
Project management, permit coordination and plan development.	Principal Investigator	24.00	155.14	\$3,723.45
Report editing	Principal Investigator	4.00	155.14	\$620.57
Report writing	Senior Archaeologist 2	20.00	104.37	\$2,087.39
Archival background research	Archaeologist 5	10.00	84.62	\$846.24
GIS, Graphics, layout	Archaeologist 8	8.00	93.09	\$744.69
Document control, transcriptions, data entry	Archaeological Technician 6	20.00	70.52	\$1,410.40
Total				\$9,432.73
GRAND TOTAL				\$9,432.73

ERCI Chinook Marsh: Phase 3 (2028, 20 days monitoring, report)

Description	Job Classification	Hours	Rate	Cost
Construction Support				
Description	Job Classification	Hours	Rate	Cost
Project management, permit coordination and plan development.	Principal Investigator	10.00	161.35	\$1,613.49
Report editing	Principal Investigator	2.00	161.35	\$322.70
Report writing	Senior Archaeologist 2	20.00	108.54	\$2,170.88
Archival background research	Historian	8.00	99.74	\$797.95
GIS, Graphics, layout	Archaeologist 8	8.00	96.81	\$774.48
Document control, transcriptions, data entry	Archaeological Technician 6	20.00	73.34	\$1,466.81
Total				\$7,146.31
Fieldwork				
Description	Job Classification	Hours	Rate	Cost
Fieldwork check-ins, supervision	Principal Investigator	5.00	161.35	\$806.75
Archaeological Monitor	Senior Archaeologist 1	100.00	105.61	\$10,561.05
Archaeological Monitor	Archaeologist 1	100.00	76.27	\$7,627.42
Total				\$18,995.21
Direct Costs				
Description		Units	Rate	Cost
Mileage (140 miles R/T) 1 vehicle	N/A	2800.00	0.725	\$2,030.00
Total				\$2,030.00
GRAND TOTAL				\$28,171.52

ERCI Chinook Marsh: Phase 3 (2029, 15 days monitoring, report)

Description	Job Classification	Hours	Rate	Cost
Construction Support				
Description	Job Classification	Hours	Rate	Cost
Project management, permit coordination and plan development.	Principal Investigator	10.00	167.80	\$1,678.03
Report editing	Principal Investigator	2.00	167.80	\$335.61
Report writing	Senior Archaeologist 2	20.00	112.89	\$2,257.72
Archival background research	Historian	6.00	103.73	\$622.40
GIS, Graphics, layout	Archaeologist 8	8.00	100.68	\$805.46
Document control, transcriptions, data entry	Archaeological Technician 6	15.00	76.27	\$1,144.11
Total				\$6,843.32
Fieldwork				
Description	Job Classification	Hours	Rate	Cost
Fieldwork check-ins, supervision	Principal Investigator	5.00	167.80	\$839.02
Archaeological Monitor	Senior Archaeologist 1	100.00	109.83	\$10,983.49
Archaeological Monitor	Archaeologist 1	50.00	79.33	\$3,966.26
Total				\$15,788.76
Direct Costs				
Description		Units	Rate	Cost
Mileage (140 miles R/T) 1 vehicle	N/A	2100.00	0.725	\$1,522.50
Total				\$1,522.50
GRAND TOTAL				\$24,154.59

Phase	Total
Phase 1 – Preliminary Design	\$ 76,159.43
Phase 2 – Final Design (2027)	\$ 9,432.73
Phase 3 – Construction Support (2028)	\$ 28,171.52
Phase 3 – Construction Support (2029)	\$ 24,154.59
Subtotal	\$ 137,918.26
ERCI Grand Total	\$ 137,918.26

ERCI 2026 Rates by Job Classification

Job Classification	Billing/Burdened Rates
Principal Investigator	\$ 149.18
Geoarchaeologist or other specialist	\$ 135.62
Biological Anthropologist	\$ 135.62
Senior Archaeologist	\$ 122.05
Senior Archaeologist 6	\$ 111.20
Senior Archaeologist 5	\$ 108.49
Senior Archaeologist 4	\$ 105.78
Senior Archaeologist 3	\$ 103.07
Senior Archaeologist 2	\$ 100.36
Senior Archaeologist 1	\$ 97.64
Historian	\$ 92.22
Archaeologist	\$ 94.93
Archaeologist 8	\$ 89.51
Archaeologist 7	\$ 86.79
Archaeologist 6	\$ 84.08
Archaeologist 5	\$ 81.37
Archaeologist 4	\$ 78.66
Archaeologist 3	\$ 75.94
Archaeologist 2	\$ 73.23
Archaeologist 1	\$ 70.52
Archaeological Technician	\$ 67.81
Archaeological Technician 6	\$ 67.81
Archaeological Technician 5	\$ 65.10
Archaeological Technician 4	\$ 62.38
Archaeological Technician 3	\$ 59.67
Archaeological Technician 2	\$ 56.96
Archaeological Technician 1	\$ 54.25

Expenses (ODCs)	Rate
Mileage	Current government rate per mile



Chinook Marsh Project Totals



Chinook Marsh Project Totals

					Project Accountant	Sr. Project Accountant	Survey Supervisor	Sr. Surveyor	Technical Lead	Sr. Project Coordinator	Surveyor I	Surveyor II	Surveyor III
Task	Description	Labor Dollars	Labor Hours										
PMX Phase 1 Task 4	Site Survey and Real Estate Support	\$189,913.17	1,313		6	16	26	125	146	250	336	24	384
PMX Phase 2 Task 13	Boundary Survey and Real Estate Support	\$80,184.26	496		6	16	20	74	180	0	100	0	100
PMX Phase 3 Task 22	Construction Support	\$84,543.00	552		4	6	14	46	34	0	224	0	224
PMX Phase 4 Task 28	Construction Support	\$31,265.33	190		2	4	16	8	16	0	72	0	72
	Labor Totals:	\$385,905.76	2,551		18	42	76	253	376	250	732	24	780
	Escalation Amt:	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Totals:	\$385,905.76			\$2,114.16	\$6,925.23	\$20,926.69	\$57,437.54	\$57,058.52	\$33,030.00	\$76,678.86	\$3,310.32	\$128,424.43

Subconsultants	Enter Hours if hourly rate is known		
Private Utility Locates	16	\$2,480.00	16 hours at \$155 per hour

Subconsultants Total:	\$2,480.00
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Other Direct Expenses	Enter Amount Below	
Title Report(s)	0	\$0.00
Recording Fees	1	\$423.50
Mileage @ .725/mile	10260	\$7,438.50
Survey Equipment (\$200/Use)	87	\$17,400.00
Scanner (\$450/day)	0	\$0.00
UAV LiDAR (\$1,065/day)	0	\$0.00
Wingtra Drone (\$600/day)	2	\$1,200.00
SingleBeam (\$200/day)	0	\$0.00
Bathy Equipment & Boat (\$1,065/day)	2	\$2,130.00
Per Diem Full Day Standard \$68	0	\$0.00
Per Diem Travel Day Standard \$51	0	\$0.00
Per Diem Lodging Standard \$110	0	\$0.00
Other Direct Costs @ Cost Ferry Far	0	\$0.00
Other Direct Expenses Total:		\$28,592.00

Phase 1	\$	208,435.67
Phase 2	\$	83,187.76
Phase 3	\$	91,767.00
Phase 4	\$	33,587.33
Total	\$	416,977.76

Project Total	\$416,977.76
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Client:
Project:
Project No:



Chinook Marsh Phase 1, 2026

2026 Burdened Rates:				Project Accountant	Sr. Project Accountant	Survey Supervisor	Sr. Surveyor	Technical Lead	Sr. Project Coordinator	Surveyor I	Surveyor II	Surveyor III
				\$112.36	\$158.73	\$261.78	\$220.31	\$147.07	\$132.12	\$100.46	\$137.93	\$158.30
Task	Description	Labor Dollars	Labor Hours									
Phase 1 Task 01	Project Management	\$15,307.56	72	6	16	26	24	0	0	0	0	0
	101 Contract Mgmt and Administrative	\$4,149.60	24	6	12	6						
	102 Project Mgmt and Coordination	\$4,823.40	20		4	16						
	103 Communication and Meetings	\$6,334.56	28			4	24					
	104	\$0.00	0									
Phase 1 Task 04	Site Survey and Real Estate Support	\$174,605.61	1,241	0	0	0	101	146	250	336	24	384
	401 Project Control and Verifications	\$3,733.08	26				4		2	10		10
	402 Levee Prism ~11,064'	\$68,380.02	512				22		50	220		220
	403 Bathy Survey of Ebey Slough	\$12,671.20	80				8				24	48
	404 PSE Transmission Towers (15)	\$6,814.30	50				2	8	8	16		16
	405 COE Waterline (5600')	\$5,558.95	41				1	8	8	12		12
	406 Utility Locates at Moser Crk Parking	\$3,336.39	25				1		4	10		10
	407 Property and Esmt at Levee Tie-in	\$10,582.24	76				8		8	30		30
	408 OPL Esmt	\$2,290.39	17				1			8		8
	409 Culvert and Tide Gates	\$3,336.39	25				1		4	10		10
	410 Boundary Control	\$7,730.40	54				8		6	20		20
	411 Boundary and Esmts Calcs	\$18,744.05	115				25	90				
	412 Map Development and Deliverables	\$31,428.20	220				20	40	160			
	Labor Totals:	\$189,913.17	1,313	6	16	26	125	146	250	336	24	384
	Escalation Amt:	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Totals:	\$189,913.17		\$674.16	\$2,539.68	\$6,806.28	\$27,538.75	\$21,472.22	\$33,030.00	\$33,754.56	\$3,310.32	\$60,787.20

Subconsultants	Enter Hours if hourly rate is known		
Private Utility Locates	16	\$2,480.00	16 hours at \$155 per hour

Subconsultants Total:	\$2,480.00
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Other Direct Expenses	Enter Amount Below	
Title Report(s)		\$0.00
Recording Fees		\$0.00
Mileage @ .725/mile	6500	\$4,712.50
Survey Equipment (\$200/Use)	40	\$8,000.00
Scanner (\$450/day)		\$0.00
UAV LiDAR (\$1,065/day)		\$0.00
Wingtra Drone (\$600/day)	2	\$1,200.00
SingleBeam (\$200/day)		\$0.00
Bathy Equipment & Boat (\$1,065/day)	2	\$2,130.00
Per Diem Full Day Standard \$68		\$0.00
Per Diem Travel Day Standard \$51		\$0.00
Per Diem Lodging Standard \$110		\$0.00
Other Direct Costs @ Cost Ferry Far		\$0.00
Other Direct Expenses Total:		\$16,042.50

Phase 1 Total	\$208,435.67
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Client:
Project:
Project No:



Chinook Marsh Phase 2, 2027

				Project Accountant	Sr. Project Accountant	Survey Supervisor	Sr. Surveyor	Technical Lead	Surveyor I	Surveyor III
2027 Burdened Rates:				\$116.85	\$165.08	\$272.25	\$229.12	\$152.95	\$104.48	\$164.63
Task	Description	Labor Dollars	Labor Hours							
Phase 2 Task 01	Project Management	\$9,703.86	46	6	16	20	4	0	0	0
101	Contract Mgmt and Administrative	\$4,431.38	26	6	16	4				
102	Project Mgmt and Coordination	\$2,178.00	8			8				
103	Communication and Meetings	\$3,094.48	12			8	4			
104		\$0.00	0							
Phase 2 Task 13	Boundary Survey and Real Estate Support	\$70,480.40	450	0	0	0	70	180	100	100
1301	Easement Modification Support	\$13,759.40	80				20	60		
1302	Easement Staking	\$26,911.00	200						100	100
1303	Easement Legal Descriptions	\$16,050.60	90				30	60		
1304	Record of Survey	\$13,759.40	80				20	60		
1305		\$0.00	0							
	Labor Totals:	\$80,184.26	496	6	16	20	74	180	100	100
	Escalation Amt:	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Totals:	\$80,184.26		\$701.10	\$2,641.28	\$5,445.00	\$16,954.88	\$27,531.00	\$10,448.00	\$16,463.00

Subconsultants	Enter Hours if hourly rate is known
Private Utility Locates	\$0.00
Subconsultants Total:	\$0.00

Other Direct Expenses	Enter Amount Below
Title Report(s)	\$0.00
Recording Fees 1	\$423.50
Mileage @ .725/mile 800	\$580.00
Survey Equipment (\$200/Use) 10	\$2,000.00
Scanner (\$450/day)	\$0.00
UAV LiDAR (\$1,065/day)	\$0.00
Wingtra Drone (\$600/day)	\$0.00
SingleBeam (\$200/day)	\$0.00
Bathy Equipment & Boat (\$1,065/day)	\$0.00
Per Diem Full Day Standard \$68	\$0.00
Per Diem Travel Day Standard \$51	\$0.00
Per Diem Lodging Standard \$110	\$0.00
Other Direct Costs @ Cost Ferry Far	\$0.00
Other Direct Expenses Total:	\$3,003.50

Phase 2 Total	\$83,187.76
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Client:
Project:
Project No:



Chinook Marsh Phase 3, 2028

2028 Burdened Rates:				Project Accountant	Sr. Project Accountant	Survey Supervisor	Sr. Surveyor	Technical Lead	Surveyor I	Surveyor III
				\$121.53	\$171.68	\$283.14	\$238.29	\$159.07	\$108.66	\$171.22
Task	Description	Labor Dollars	Labor Hours							
Phase 3 Task 01	Project Management	\$12,628.86	54	4	6	14	30	0	0	0
101	Contract Mgmt and Administrative	\$2,648.76	14	4	6	4				
102	Project Mgmt and Coordination	\$2,831.40	10			10				
103	Communication and Meetings	\$7,148.70	30				30			
104		\$0.00	0							
Phase 3 Task 22	Construction Survey Support	\$71,914.14	498	0	0	0	16	34	224	224
2201	10 Site Visits for Const Support	\$26,365.26	182				6	16	80	80
2202	18 Site Visits for Settlement Monitoring	\$45,548.88	316				10	18	144	144
	Labor Totals:	\$84,543.00	552	4	6	14	46	34	224	224
	Escalation Amt:	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Totals:	\$84,543.00		\$486.12	\$1,030.08	\$3,963.96	\$10,961.34	\$5,408.38	\$24,339.84	\$38,353.28

Subconsultants	Enter Hours if hourly rate is known
Private Utility Locates	\$0.00

Subconsultants Total:	\$0.00
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Other Direct Expenses	Enter Amount Below
Title Report(s)	\$0.00
Recording Fees	\$0.00
Mileage @ .725/mile	2240 \$1,624.00
Survey Equipment (\$200/Use)	28 \$5,600.00
Scanner (\$450/day)	\$0.00
UAV LiDAR (\$1,065/day)	\$0.00
Wingtra Drone (\$600/day)	\$0.00
SingleBeam (\$200/day)	\$0.00
Bathy Equipment & Boat (\$1,065/day)	\$0.00
Per Diem Full Day Standard \$68	\$0.00
Per Diem Travel Day Standard \$51	\$0.00
Per Diem Lodging Standard \$110	\$0.00
Other Direct Costs @ Cost Ferry Far	\$0.00
Other Direct Expenses Total:	\$7,224.00

Phase 3 Total	\$91,767.00
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Client:
Project:
Project No:



Chinook Marsh Phase 4, 2029

2029 Burdened Rates:				Project Accountant	Sr. Project Accountant	Survey Supervisor	Sr. Surveyor	Technical Lead	Surveyor I	Surveyor III
				\$126.39	\$178.55	\$294.47	\$247.82	\$165.43	\$113.01	\$178.07
Task	Description	Labor Dollars	Labor Hours							
Phase 4 Task 01	Project Management	\$5,678.42	22	2	4	16	0	0	0	0
101	Contract Mgmt and Administrative	\$2,144.83	10	2	4	4				
102	Project Mgmt and Coordination	\$1,177.86	4			4				
103	Communication and Meetings	\$2,355.72	8			8				
104		\$0.00	0							
Phase 4 Task 28	Phase 4 Construction Support	\$25,586.91	168	0	0	0	8	16	72	72
2801	9 Site visits for Settlement Monitoring	\$25,586.91	168				8	16	72	72
2802		\$0.00	0							
2803		\$0.00	0							
	Labor Totals:	\$31,265.33	190	2	4	16	8	16	72	72
	Escalation Amt:	\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Totals:	\$31,265.33		\$252.78	\$714.19	\$4,711.45	\$1,982.57	\$2,646.92	\$8,136.46	\$12,820.95

Subconsultants	Enter Hours if hourly rate is known
Private Utility Locates	\$0.00

Subconsultants Total:	\$0.00
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Other Direct Expenses	Enter Amount Below
Title Report(s)	\$0.00
Recording Fees	\$0.00
Mileage @ .725/mile	720 \$522.00
Survey Equipment (\$200/Use)	9 \$1,800.00
Scanner (\$450/day)	\$0.00
UAV LiDAR (\$1,065/day)	\$0.00
Wingtra Drone (\$600/day)	\$0.00
SingleBeam (\$200/day)	\$0.00
Bathy Equipment & Boat (\$1,065/day)	\$0.00
Per Diem Full Day Standard \$68	\$0.00
Per Diem Travel Day Standard \$51	\$0.00
Per Diem Lodging Standard \$110	\$0.00
Other Direct Costs @ Cost Ferry Far	\$0.00
Other Direct Expenses Total:	\$2,322.00

Phase 4 Total	\$33,587.33
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Parametrix Labor Classification	2026 Billing Rate		2027		2028		2029
Admin Assistant	\$	82.26	\$	85.55	\$	88.97	\$ 92.53
GIS Analyst	\$	123.76	\$	128.71	\$	133.86	\$ 139.21
GIS Technician	\$	117.60	\$	122.30	\$	127.20	\$ 132.28
Jr Surveyor	\$	76.11	\$	79.15	\$	82.32	\$ 85.61
Marketing Assist	\$	91.33	\$	94.98	\$	98.78	\$ 102.73
Marketing Coordinator	\$	119.76	\$	124.55	\$	129.53	\$ 134.71
Marketing Manager	\$	266.28	\$	276.93	\$	288.01	\$ 299.53
Operations Manager	\$	347.63	\$	361.54	\$	376.00	\$ 391.04
Project Accountant	\$	112.36	\$	116.85	\$	121.53	\$ 126.39
Project Controls Specialist	\$	170.48	\$	177.30	\$	184.39	\$ 191.77
Project Coordinator	\$	126.34	\$	131.39	\$	136.65	\$ 142.12
Publications Specialist II	\$	129.81	\$	135.00	\$	140.40	\$ 146.02
Publications Supervisor	\$	174.13	\$	181.10	\$	188.34	\$ 195.87
Sr Contract Administrator	\$	201.32	\$	209.37	\$	217.75	\$ 226.46
Sr GIS Analyst	\$	171.06	\$	177.90	\$	185.02	\$ 192.42
Sr Graphic Designer	\$	177.60	\$	184.70	\$	192.09	\$ 199.78
Sr Marketing Coordinator	\$	258.77	\$	269.12	\$	279.89	\$ 291.08
Sr Project Accountant	\$	158.73	\$	165.08	\$	171.68	\$ 178.55
Sr Project Control Specialist	\$	175.75	\$	182.78	\$	190.09	\$ 197.69
Sr Project Coordinator	\$	132.12	\$	137.40	\$	142.90	\$ 148.62
Sr Publications Specialist	\$	124.82	\$	129.81	\$	135.01	\$ 140.41
Sr Surveyor	\$	220.31	\$	229.12	\$	238.29	\$ 247.82
Sr Technical Editor	\$	177.18	\$	184.27	\$	191.64	\$ 199.30
Survey Supervisor	\$	261.78	\$	272.25	\$	283.14	\$ 294.47
Surveyor I	\$	100.46	\$	104.48	\$	108.66	\$ 113.01
Surveyor II	\$	137.93	\$	143.45	\$	149.19	\$ 155.15
Surveyor III	\$	158.30	\$	164.63	\$	171.22	\$ 178.07
Technical Editor	\$	131.24	\$	136.49	\$	141.95	\$ 147.63
Technical Lead	\$	147.07	\$	152.95	\$	159.07	\$ 165.43

Project No:

Contract Land Services Cost Estimate and Rates (subcontractor to Parametrix)

Chinook Marsh Restoration Contract Land Services				Director	Sr. Agent/Proj. Mgr.	Project Manager	Right of Way Agent - 1	Right of Way - Agent 2	Admin. Coordinator	
	2026 Burdened Rates:			\$203.31	\$169.43	\$162.63	\$97.60	\$101.66	\$108.42	
Description	Labor Dollars	Labor Hours								
Phase 1 Real Estate Support Task 4	\$9,135.22	72		1	1	12	20	20	2	
4.2 Attend Monthly meetings	\$2,324.30	14		1	1	12				
4.2 Review of County Documents (50-60)	\$6,810.92	58			1	15	20	20	2	
4.2 administration	\$216.84	2							2	
Labor Totals:	\$6,743.18	74		1	1	12	20	20	4	
Escalation Amt:	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Totals:	\$6,743.18			\$203.31	\$169.43	\$1,951.56	\$1,952.00	\$2,033.20	\$433.68	
				\$4,114.27	\$195.00	\$85.99	\$1,027.80	\$1,434.80	\$1,123.00	\$247.68

Enter Hours if hourly rate is known	
	\$0.00
No Formula	\$0.00
No Formula	\$0.00
No Formula	\$0.00
No Formula	\$0.00
	\$0.00

[illegible]

Phase 1 2026 Total	\$6,743.18
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Contract Land Services Grand Total All Phases		
phase1	\$	6,743.18
phase 2	\$	112,120.47
phase 3	\$	2,631.23
CLS total	\$	121,494.88

Client:
Project:
Project No:

Chinook Marsh Restoration Contract Land Services

				2027 Burdened Rates:					
				Director	Sr. Agent/Proj. Mgr.	Project Manager	Right of Way Agent - 1	Right of Way - Agent 2	Admin. Coordinator
				\$211.44	\$176.21	\$169.14	\$101.50	\$105.73	\$112.76
Task	Description	Labor Dollars	Labor Hours						
	Phase 2 Task 13 Real Estate	\$26,806.77	211		2	3	68	66	66
	13.2 Attend Monthly meetings	\$2,417.33	14		1	1	12		
	13.2 Review of Maps, Exhibits	\$2,483.74	20				6	6	6
	13.2 Ordering of Title reports (10)	\$2,727.55	20				10	5	5
	13.3 Ordering of Appraisals (10)	\$3,129.28	23			1	10	5	5
	13.3 Ordering of Reviews (10)	\$2,727.55	20				10	5	5
	13.2 Offer Preparation (10)	\$13,321.32	114		1	1	20	45	45
	Labor Totals:	\$26,806.77	211		2	3	68	66	66
	Escalation Amt:	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Totals:	\$26,806.77			\$422.88	\$528.63	\$11,501.52	\$6,699.00	\$6,978.18
				DLC	\$15,284.43	\$390.00	\$257.97	\$5,824.20	\$4,734.84

Other Direct Expenses		Enter Amount Below
13.3 Appraisals	10	\$60,000.00
13.3 Appraisal Reviews	10	\$25,000.00
Mileage @ .725/mile	300	\$217.50
Postage	10	\$96.20
Other Direct Expenses Total:		\$85,313.70

Phase 2 Task 13 Total \$112,120.47

Client:
Project:
Project No:

Chinook Marsh Restoration Contract Land Services					Director	Sr. Agent/Proj. Mgr.	Project Manager	Right of Way Agent - 1	Right of Way - Agent 2	Admin. Coordinator
2028 Burdened Rates:					\$219.90	\$183.26	\$175.90	\$105.56	\$109.96	\$117.27
Task	Description	Labor Dollars	Labor Hours							
03	Phase 3, Task 22 Construction Survey Support	\$2,631.23	15		1	1	12	0	0	1
301	22. Attend Monthly meetings	\$2,631.23	15		1	1	12			1
302		\$0.00	0							
	Labor Totals:	\$2,631.23	15		1	1	12	0	0	1
	Escalation Amt:	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Totals:	\$2,631.23			\$219.90	\$183.26	\$2,110.80	\$0.00	\$0.00	\$117.27
DLC				\$1,370.71	\$195.00	\$85.99	\$1,027.80	\$0.00	\$0.00	\$61.92

Subconsultants	Enter Hours if hourly rate is known	
Applied Professional Services Inc		\$0.00
1 Alliance Geomatics LLC	No Formula	\$0.00
Land Development Consultants Inc	No Formula	\$0.00
Signature Surveying & Mapping PLLC	No Formula	\$0.00
Sitts & Hill Engineers Inc	No Formula	\$0.00
Subconsultants Total:		\$0.00

Other Direct Expenses	Enter Amount Below	
13.3 Appraisals		\$0.00
13.3 Appraisal Reviews		\$0.00
Mileage @ .725/mile		\$0.00
Postage		\$0.00
Scanner (\$450/day)		\$0.00
UAV LiDAR (\$1,065/day)		\$0.00
Wingtra Drone (\$600/day)		\$0.00
SingleBeam (\$200/day)		\$0.00
Bathy Equipment & Boat (\$1,065/day)		\$0.00
Per Diem Full Day Standard \$68		\$0.00
Per Diem Travel Day Standard \$51		\$0.00
Per Diem Lodging Standard \$110		\$0.00
Other Direct Costs @ Cost Ferry Far		\$0.00
Other Direct Expenses Total:		\$0.00

Phase 3 Total	\$2,631.23
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Contract Land Services

Classification	2026 Billing Rate		2027		2028		2029
Director	\$	203.31	\$	211.44	\$	219.90	\$ 228.70
Sr. Agent/Proj. Mgr.	\$	169.43	\$	176.21	\$	183.26	\$ 190.59
Project Manager	\$	162.63	\$	169.14	\$	175.90	\$ 182.94
Right of Way Agent - 1	\$	97.60	\$	101.50	\$	105.56	\$ 109.79
Right of Way Agent - 2	\$	101.66	\$	105.73	\$	109.96	\$ 114.35
Admin. Coordinator	\$	108.42	\$	112.76	\$	117.27	\$ 121.96

Schedule C
Reimbursable Expenses

Subconsultant Services and Other Direct Costs (ODC) will be reimbursed at the Actual Cost to the Consultant with no markup. These charges may include, but are not limited to, the following items:

Reimbursable Classifications	Rates
Mileage	Current GST Rate
Postage/Courier	At Cost
Supplies	At Cost
Equipment	At Cost
Appraisals and Appraisal Reviews	At Cost
Utility locates	At Cost
Other Misc. Vendor Costs	At Cost

Any ODC not included in the above list shall not be eligible for payment without prior written consent of the County. All reimbursable charges must be necessary for the services provided under this Agreement and will require back up documentation for payment.