



April 3, 2023

Brad Ryan
Municipality of Skagway Manager
PO Box 415
Skagway, AK 99840

**Re: Skagway Ore Dock Development Project – General Scope Amendment
Project No. 10092100135**

Brad,

We have prepared this scope of work amendment based on conversations with you and your team regarding added scope to the overall project including:

- Adding contaminated soils management to the current construction project,
- Evaluation of the existing Stormwater Treatment systems and an initial study for potential upgrades,
- Evaluation of the existing Ore building and loader for abatement,
- Testing of contaminated soils for their potential to be stabilized,
- Running a test pile program for the benefit of the overall project,
- Structural Special Inspections for the MOS per purchased piles, and
- Design modifications to the project after the site plan was adjusted to accommodate the cruise lines.

General Project Understanding

The Ore Peninsula Redevelopment Project has advanced from 30% to 90% design and undergone several major additions and changes: the incorporation of major upland work to include a seawalk, major new utilities, structural concrete slabs for industrial forklifts and machinery to access the new structures. All work will require the removal of existing contaminated soils around the Ore Terminal. Removing contaminated soils requires coordination with ADEC for this site and careful planning to ensure the construction documents contain the required steps for handling and disposing of the soils. The MOS is testing the existing soils under a separate contract with COX Environmental. This amendment addresses the changes to the construction documents needed.

The existing stormwater systems on the site will be evaluated for their effectiveness at treating contaminants that will be present during the future anticipated operations. The team will work to evaluate what treatment approach could be effective for the future site and make recommendations for changes. This amendment includes the stormwater study to determine next steps for the site.

The overall project was modified to shift the cruise ship berth over 200 feet to the south. This required the addition of two new deep water dolphins and an expansion of the dock to access the cruise dock float. This also required shifting of mooring dolphins that were to be part of the Marine Services Platform to be independent of the structure. The new deep water dolphins will be installed further away from where all

the previous geotechnical explorations have been completed. To help supplement the lack of data, a test pile program is proposed as a part of this amendment. This amendment also includes time to accommodate the modifications to the site plan and design of the additional structures.

The MOS has pre-procured piling as part of the previous emergency project; these piles are currently being spliced by Hamilton Construction. At the request of the MOS, KPFF has assumed responsibility for all special inspections for the welds and construction oversight. This amendment includes work for Mistras, a welding inspection company and time for KPFF to track and observe the work.

KPFF and Anchor QEA had been working to obtain samples in the north end for the Ore Basin to characterize soils that would be dredged in a future berth lengthening project. The state of Alaska is currently in process to adopt new dredging regulations; as a result, the dredge project may need to occur within 3 years of the samples being taken. Since the dredging schedule is not set at this time the MOS has directed us to pause this work. KPFF proposes the budget set aside for this sampling work be re-assigned to this scope.

This scope amendment includes scope for the following sub-consultants:

- RESPEC – Civil Engineering
- Anchor QEA – Stormwater Assessment, building decommissioning, upland permitting, Specifications
- Dahlberg Design – Environmental Testing & Contaminated Soils Specification
- Haley & Aldrich – Geotechnical Engineer
- MISTRAS – Welding inspector

KPFF Scope of Proposed Services

KPFF proposes to provide the following services as part of this scope and fee proposal:

Task 1: Additional Project Management and Meetings

KPFF will provide general project administration, invoicing, and coordination with subconsultants and MOS staff.

- Coordination with subconsultants includes frequent design meetings with the team and MOS.
- This task also includes regular meetings with MOS to discuss questions and make collaborative decisions on the direction of the project.

Task 2: Bid Package Support – Upland Environmental

KPFF effort involves consolidating bid specifications for environmental protection and permit compliance by coordinating Design Team consultants (Cox Environmental, Dahlberg Design, Haley Aldrich, and RESPEC) to compile various specification sections and integrating environmental compliance requirements into the specifications packages. Key environmental protection measures include stormwater protection, demolition design, contaminated soil management, water management and treatment, spill prevention, control, and countermeasures plan, and the Environmental Management Plan. KPFF will review the technical specifications prepared by Design Team for these elements and prepare the general Environmental Protection and Compliance specification section. The team will also prepare and submit

the draft Notice of Intent for the Construction General Permit (CGP) to the Alaska Department of Environmental Conservation (DEC). See the attached Scope of work from Anchor QEA for additional information.

Task 2 Deliverables include:

- Construction General Permit Notice of Intent
- Redline comments on the draft Environmental Management Plan by Cox Environmental
- Soil and demolition specifications

Task 3: CQAP Support

KPFF will work with subconsultant Dahlberg and Anchor QEA to develop the environmental elements of an internal construction quality assurance plan (CQAP). See the attached Scope of work from Anchor QEA for additional information and assumptions.

Task 4: Permitting Support

KPFF will work with Anchor QEA to continue to provide additional permitting support including the list below. See the attached scope of work from Anchor QEA for additional details and assumptions.

- Continued coordination with permitting agencies (USACE, NOAA, NMFS, USCG, MOS) to support existing permit applications, requests, and approvals ,
- Development of a draft and final Marine Mammal Monitoring Plan,
- Support with procurement of a marine mammal monitoring contractor,
- Review of upland permit requirements and coordination with permitting agencies, and
- Development of upland permit applications

Task 4 Deliverables include:

- Draft and Final Marine Mammal Monitoring Plan
- Draft and Final local permit application materials for upland work

Task 5: Stormwater Management Support

KPFF will work with Anchor QEA to support the MOS with development of a long-term stormwater management strategy for the Skagway Ore Terminal (SOT). As part of this task, the team will review existing data for the SOT to better understand baseline conditions and identify potential stormwater management options based on our understanding of the MOS' anticipated future use of the SOT. This initial phase of stormwater management support will be used to identify alternatives and assess advantages and disadvantages to inform decision making for future stormwater management at the SOT. Once a preferred alternative is identified through client consultation, further development will be implemented under a separate scope of work. See the attached Scope of work from Anchor QEA for additional information and assumptions.

Task 5 Deliverables include:

- Alternatives comparison table for each type of approach that could be taken

Task 6: Upland Skagway Ore Terminal Decommissioning Support

KPFF and Anchor QEA will work to provide assistance for review of existing information about the Ore Terminal, onsite testing, and providing recommendations and cost estimates for the possible next steps. We anticipate this work could continue for a year as various options are explored. See the attached Scope of work from Anchor QEA for additional information and assumptions.

Task 6 Deliverables include:

- Draft and Final Sampling and Analysis Plan
- Draft and Final Upland SOT Facility Characterization Report
- Draft and Final memorandum summarizing the proposed scope of work for mothballing the upland SOT facility

Task 7: On-Call Technical Support - Additional Upland Environmental (Optional)

This task includes effort for Anchor QEA to provide Project technical support to KPFF to address unanticipated environmental design and/or compliance issues, on an as-requested basis, not to exceed the task budget. MOS will provide written approval for on-call support efforts.

Task 8: Soil Amendment Study - Stabilizing Lead Contaminated Soils

Sub Consultant Anchor QEA will perform testing on the soil samples collected by COX Environmental to evaluate the feasibility of combining the soils with cement. It is likely the soils can be stabilized with cement to convert the materials to a less hazardous type of waste and reduce cost for disposal. See the attached Scope of work from Anchor QEA for additional information and assumptions.

Task 8 Deliverables include:

- Memo describing results and recommendations to stabilize the onsite materials.

Task 9: Test Pile Program

KPFF will work with Geotechnical subconsultant Haley and Aldrich (H&A) to develop and implement a test pile program with the MOS's Contractor, Hamilton Construction. H&A and KPFF will perform onsite observations and coordinate pile testing with the contractor. H&A will use the results of the test to calibrate their pile capacity recommendations for design. H&A has assumed up to one week onsite for the program. At a minimum, the testing may be at least 3 days.

Task 10: Pile Welding Special Inspections & Construction Management

At the direction of the MOS, KPFF has assumed the responsibility for the special inspections of the welds on the MOS procured piles. KPFF has hired subconsultant, Mistras, to perform the special inspections of the welds on the MOS procured Piles that Hamilton Construction is currently splicing at their shop in Bellingham, Washington. KPFF is also performing weekly site visits to observe progress and track schedule. See attached scope of work from Mistras.

Task 11: Design Revisions and Mooring Design updates

During 60% design, KPFF worked with the MOS to modify the site plans to accommodate concerns with the mooring arrangement between vessels docked at the Ore Dock and Broadway dock. This resulted in significant modifications to the site plan and design including:

- KPFF performing additional mooring analysis to look at multiple layouts to efficiently accommodate the cruise requests,
- Additional design of two new mooring dolphins in deep water,
- Modifying the Cruise Dock access trestle layout to move it and create a new L shaped dock, and
- Modifying the float guide piles to be in deeper water from the initial location.

The original design concepts included the fuel lines to be underground or supported under the seawalk structure. It was found to be more efficient and cost effective to have the seawalk as a sidewalk structure that is supported on the ground and to run the fuel lines on a pile supported trestle along the slope. KPFF has incorporated this into the design.

KPFF will also modify the pile lengths for structures after the test pile program has been completed. KPFF will also assist the MOS with ordering piles for the Dolphins 1-3 and float guide piles. KPFF will coordinate getting quotes for the piles and delivery to the contractor for the overall project.

Scope Assumptions & Exclusions

This scope of work was assembled with the following assumptions and exclusions:

- It is assumed that the stormwater infiltrators in the vicinity of the current ore redevelopment project will be rebuilt or replaced as part of this project. Once it is determined what that system will be a separate scope of work will be provided for its implementation.
- See attached scopes of work from Subconsultants for additional assumptions and exclusions.
- Excluded from this scope of work amendment is construction support and construction management services, these will be added at a later date.

Scope Fees

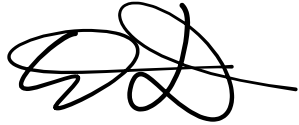
The total estimated not-to-exceed maximum fee amendment, including reimbursable expenses, for the services described in this letter is **\$1,406,913**. As discussed with the MOS, the current budget contains a allocation of 1,000,000 for soil sampling for future dredge work that cannot happen in the immediate future. This budget can be reallocated to cover the majority of this change order.

Total Proposed Change Order Budget	= \$1,406,913
<u>Proposed Budget Re-allocation</u>	<u>= \$1,000,000</u>
Total Change Order Request	= \$406,913

Fees will be billed on an hourly basis using the hourly rates presented on the attached fee schedule. Reimbursable expenses will be billed at cost with no markup and no additional markup will be applied to subconsultants reimbursable expenses. All work will be performed in accordance with the attached Terms and Conditions.

We appreciate this opportunity to work with the Municipality of Skagway. We are available to discuss this proposal at your convenience. Please contact me at (206) 382-0600 should you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to be 'Ed DeBroeck', written in a cursive style.

Ed DeBroeck, PE (WA & CA), DBIA
Associate
CC: Bob Riley, PE, Principal

Attachments

1. Detailed Fee Schedule
2. Anchor QEA Proposal
3. RESPEC Proposal
4. Dahlberg Proposal
5. Haley & Aldrich Proposal
6. MISTRAS Proposal

Ore Peninsula Redevelopment Project – Upland Environmental Amendment

Scope Fee Estimate
2023-04-03

#	2023 Hourly Rate	KPPF									Subconsultants			Total
		Principal	Project Manager	Senior Technical Specialist	Senior Engineer / Senior Construction Manager	Professional Engineer	Design Engineer	Project Coordinator	Senior CAD Tech	CAD	Anchor QEA / others	RESPEC	Dahlberg	
											Environmental / Geotech	Civil	HazMat Sampling & Specifications	
		\$270	\$245	\$250	\$220	\$192	\$170	\$138	\$150	\$133				
	Task 1: Additional Project Management & Meetings	4			50	40		60			\$ 55,008	\$ -	\$ -	\$ 83,048
	1.1 Project Management, Sub Consultant Coordination, and Meetings	4			50	40		60			\$ 55,008			
	Task 2: Bid Package Support - Upland Environmental			60	32	40					\$ 184,462	\$ 27,640	\$ 49,210	\$ 291,032
	2.1 Upland Consultant Team Coordination			60		40					\$ 43,948			
	2.2 Construction Stormwater Support				8						\$ 38,750	\$ 27,640		
	2.3 Demolition Spec Support				8						\$ 20,192		\$ 9,210	
	2.4 Spoil Excavation Spec Support and EMP Review				8						\$ 33,520			
	2.5 Environmental Protection Spec				8						\$ 48,052		\$ 40,000	
	Task 3: CQAP Support				12						\$ 41,202	\$ -	\$ -	\$ 43,842
	3.1 CQAP Support				12						\$ 41,202			
	Task 4: Permitting Support				44						\$ 98,008	\$ -	\$ -	\$ 107,688
	4.1 Permit Agency Coordination				20						\$ 34,724			
	4.2 MMMP and Contractor Procurement				4						\$ 33,180			
	4.3 Upland Permits				20						\$ 30,104			
	Task 5: Stormwater Management Support	4		56	136	60	100	20		80	\$ 76,204	\$ -	\$ -	\$ 163,124
	5.1 Review Existing Data			8	8						\$ 24,092			
	5.2 Stormwater Strategy Meeting			8	8						\$ 52,112			
	5.3 Upland Stormwater Treatment Planning, Alternatives & Cost				60		40			40				
	5.4 Conceptual Port-wide Industrial Stormwater Design	4		40	60	60	60	20		40				
	Task 6: Upland SOT Decommissioning Support				12						\$ 129,610	\$ -	\$ -	\$ 132,250
	6.1 Review Existing Data				8						\$ 14,556			
	6.2 Identify Data Gaps, Develop SAP										\$ 30,502			
	6.3 Implement SAP										\$ 34,520			
	6.4 SOT Building Characterization Report										\$ 31,684			
	6.5 Prepare SOW for Mothballing SOT				4						\$ 18,348			
	6.6 Upland Civil Coordination & Support				20									
	Task 7: On-Call Technical Support - Additional Upland Environmental										\$ 60,054	\$ -	\$ -	\$ 60,054
	7.1 On-Call Technical Support										\$ 60,054			
	Task 8: Soil Amendment Study - Stabilizing Lead Contaminated Soils				8						\$ 42,952	\$ -	\$ -	\$ 44,712
	8.1 Soil Amendment Study				8						\$ 42,952			
	Task 9: Test Pile Program	4			76	8					\$ 45,561	\$ -	\$ -	\$ 64,897
	9.1 Prep & Coordination with Contractor				32						\$ 4,875			
	9.2 Testing & Onsite Observations				40	8					\$ 33,636			
	9.3 Analysis & Results	4			4						\$ 7,050			
	Task 10: Pile Welding Special Inspections & Construction Management				192						\$ 10,080	\$ -	\$ -	\$ 52,320
	10.1 Special Inspections - Welds				12						\$ 10,080			
	10.2 Construction Management, Observations & Reporting (15 Weeks)				180									
	Task 11: Design Revisions & Mooring Updates	42			260	480	520	16		120	\$ -	\$ -	\$ -	\$ 267,268
	11.1 Additional Mooring Coordination with Cruise Lines	8			60	80	80	8		40				

Ore Peninsula Redevelopment Project – Upland Environmental Amendment

Scope Fee Estimate
2023-04-03

#	2023 Hourly Rate	KPFF									Subconsultants			Total
		Principal	Project Manager	Senior Technical Specialist	Senior Engineer / Senior Construction Manager	Professional Engineer	Design Engineer	Project Coordinator	Senior CAD Tech	CAD	Anchor QEA / others	RESPEC	Dahlberg	
		\$270	\$245	\$250	\$220	\$192	\$170	\$138	\$150	\$133				
	11.2 Additional Design of Dolphins 1 & 2 in Deep Water	16			80	200	220			32				
	11.3 Move Dolphins 6&7					40	40			12				
	11.4 Modifications & Design of Cruise Dock Access Trestle	8			40	100	100			16				
	11.5 Modifications of the Float Guide Piles	2			8		40			8				
	11.6 Addition of upland Fuel Bridge Supports	8			48		40			12				
	11.7 Design Adjustments after test Pile Program				24	60		8						
	Total Hours	54		116	822	628	620	96		200				

Assumptions and Notes:

1. Rates for 2023 displayed, rates will be adjusted each calendar year.
2. This scope does not include construction support services at this time but will be scoped at the completion of design.
3. Reallocate existing Bidet for Dredge Sampling to Upland Environmental & other items

Subconsultant Summary	Fee	Expenses	Total
Anchor QEA - Upland Environmental	\$ 644,548	\$ 16,913	\$ 661,461
Anchor QEA - Soils Stabilization Testing	\$ 42,952	\$ -	\$ 42,952
RESPEC - Civil - Upland Civil Engineering	\$ 27,640	\$ 1,775	\$ 29,415
Haley & Aldrich	\$ 39,257	\$ 6,304	\$ 45,561
Mistras Weld Inspections	\$ 10,080	\$ -	\$ 10,080
Dahlberg - Specifications	\$ 40,000	\$ -	\$ 40,000
Dahlberg - HazMat Sampling	\$ 8,568	\$ 642	\$ 9,210
Subtotal	\$ 813,045	\$ 25,634	\$ 838,679
Subconsultant Markup 8%	\$ 65,044	\$ -	\$ 65,044
Total Subconsultants (Fee, Expenses & Markup)	\$ 903,723		

Subtotal	\$ 1,310,235
KPFF Expenses: Travel, Etc.	\$ 6,000
Subconsultant Expenses: Trav. Etc.	\$ 25,634
Subconsultant Markup	\$ 65,044
Total	\$ 1,406,913

Proposed Budget Reallocation	\$ (1,000,000.00)
Total Additional Scope Request	\$ 406,912.55

Scope of Work Amendment

March 15, 2023

Skagway Ore Peninsula Redevelopment Project

KPFF Job # 2100135

Project Understanding

This Scope of Work amendment includes effort for Anchor QEA, LLC, to support KPFF with construction-related reviews and permits, Skagway Ore Terminal (SOT) facility stormwater management and decommissioning, and additional permitting and agency coordination as part of the Municipality of Skagway's (MOS') Ore Peninsula Redevelopment Project (Project). The MOS takes possession of the Ore Peninsula in March 2023 when the current lease with White Pass & Yukon Route (WP&YR) expires. Several of the existing waterfront facilities will be replaced starting in Fall/Winter 2023 to accommodate the newest generation of cruise vessels. KPFF is leading the Project design and construction oversight.

This Scope of Work amendment includes effort for Anchor QEA to support project management and meetings (Task 1), Bid Package Support (Task 2), Construction Quality Assurance Plan (CQAP) Support (Task 3), Permitting Support (Task 4); Stormwater Management Support (Task 5), Upland SOT Decommissioning Support (Task 6), and on-call technical support (Task 7), as requested by KPFF. The schedule and duration of work varies by task as further detailed below. For budgeting purposes and to optimize the technical support for this scope of work, tasks that require specialized technical reviews, project strategy support and/or work on an expedited schedule (e.g., Tasks 2, 3 and 5), a greater percentage of senior level (e.g., managing, senior managing and principal) staff than junior level staff have been assigned.

Scope of Services and Deliverables

This Scope of Work amendment includes the following tasks:

- Task 1: Project Management and Meetings
- Task 2: Bid Package Support
- Task 3: CQAP Support
- Task 4: Permitting Support
- Task 5: Stormwater Management Support
- Task 6: Upland SOT Decommissioning Support
- Task 7: On-Call Technical Support

Task 1: Project Management and Meetings

Additional project management and meeting effort is needed to support the amended scope of work. As part of this task, Anchor QEA will attend up to 24 one-hour meetings (teleconferences) with

the MOS and KPFF to discuss project status and questions. Anchor QEA will continue to provide monthly invoices to KPFF with a summary of work completed and project status specific to Anchor QEA's tasks.

Task 1 Schedule

For budgeting purposes, a task duration of 1 year (12 months, through March 2024) is assumed.

Task 1 Deliverables

- None

Task 1 Assumptions

- Meetings with the MOS are assumed to be 1 hour in duration and attended by up to 3 Anchor QEA personnel.
- Meetings with the design team consultants to discuss the bid package and CQAP are included in Tasks 2 and 3, respectively.
- Meetings with permitting agencies are included in Task 4.

Task 2: Bid Package Support

Anchor QEA will support KPFF in consolidating bid specifications for environmental protection and permit compliance. Anchor QEA has been responsible for preparing and obtaining the in-water Project permits; other design team consultants (Cox Environmental, Dahlberg Design, and RESPEC) are responsible for developing other key environmental protection measures. Anchor QEA will coordinate with these other design team consultants to compile the various specification sections, integrate the environmental compliance requirements into the specifications package, and provide internal peer review of the environmental technical specifications as further detailed below.

Anticipated key environmental protection measures that are being prepared by others include: stormwater protection; demolition design and environmental protection measures; contaminated soil management; temporary erosion control measures; water management and treatment; spill prevention, control and countermeasures plan; and the Environmental Management Plan (EMP). Anchor QEA will review the technical specifications prepared by others for these elements and prepare the general Environmental Protection and Compliance specification section; this specification will describe the requirements for the contractor's Environmental Protection Plan to be prepared as a pre-construction submittal by the selected contractor.

As part of this task, Anchor QEA will also prepare and submit the draft Notice of Intent (NOI) for the Construction General Permit (CGP) to the Alaska Department of Environmental Conservation (DEC).

Task 2 Schedule

Bid package submittals will be prepared and delivered to KPFF by April 28, 2023. For budgeting purposes, a task duration of 4.5 months (through July 31, 2023) is assumed.

Task 2 Deliverables

- Construction General Permit Notice of Intent
- Redline comments on the draft Environmental Management Plan prepared by Cox Environmental
- Redline comments on the draft soil and demolition specifications prepared by Dahlberg Design
- Environmental Protection and Compliance specification section (draft and final)

Task 2 Assumptions

- The budget for this task is based on a level of effort that may vary significantly, but the actual required time to complete this work is dependent upon the work performed by others. Anchor QEA will communicate with KPFF if we determine that the level of effort requires additional budget to complete the work.
- This task includes up to two 1-hour meetings with DEC Division of Water to support development of the CGP NOI and associated submittal requirements.
- The Contractor will prepare the SWPPP and Dewatering Permit.
- KPFF will provide all design drawings and any other engineering information needed to support the CGP NOI.
- Cox Environmental will prepare the draft Environmental Management Plan (EMP) and coordinate directly with DEC regarding the environmental monitoring required for upland soil excavations. The Draft EMP will be included in the Bid Package; the EMP will be finalized following DEC review.
- Cox Environmental will provide Anchor QEA with an MS Word version of the draft EMP for review.
- Dahlberg Design will prepare all soil and ore loader demolition specifications and coordinate directly with RESPEC regarding specification numbering and cross-references prior to Anchor QEA review.
- Dahlberg Design will provide Anchor QEA with specifications in MS Word format.
- Anchor QEA will coordinate directly with Cox Environmental, Dahlberg Design, RESPEC and KPFF to obtain information needed to complete the draft Environmental Protection and Compliance specification section.
- The overall project health and safety specification will be prepared by others. Anchor QEA will contribute to the health and safety specification, as needed, for the environmental project elements.

- The standard specification template will be provided by KPFF.
- An air quality monitoring plan, if needed, will be prepared by others.
- This task does not include review of contractor submittals.
- This task does not include meetings or coordination with the DEC contaminated site manager.

Task 3: CQAP Support

Anchor QEA will help KPFF develop the environmental elements of an internal construction quality assurance plan (CQAP) document. Our understanding is that KPFF will take the lead in preparing the overall CQAP with Anchor QEA taking the lead to coordinate with other environmental design team members to develop the environmental CQA elements. Anchor QEA will work with Cox Environmental, Dahlberg Design, and RESPEC to develop an outline to frame the CQA activities related to environmental monitoring, documentation and reporting to comply with permit conditions. The outline will be submitted to the MOS for discussion before preparing the CQAP to obtain concurrence for the types of environmental compliance support, including level of effort. The environmental portion of the CQAP will develop a proposed organization chart for the environmental roles and responsibilities as part of KPFF's overall Construction Management (CM) team and identify required monitoring.

Task 3 Schedule

For budgeting purposes, a task duration of 6 months (through September 2023) is assumed.

Task 3 Deliverables

- Outline, draft CQAP environmental sections, final CQAP environmental sections

Task 3 Assumptions

- This CQAP is intended to be an internal team document that will be used in client communications and team coordination; the CQAP is not required to be submitted to permit agencies.
- The budget for this task is based on a level of effort that may vary significantly, but the actual required time to complete this work is dependent upon the work performed by others and MOS' preferred approach for conducting CQA during construction. Anchor QEA will communicate with KPFF if we determine that the level of effort requires additional budget to complete the work.
- Development of the Marine Mammal Monitoring Plan is included in Task 4.

Task 4: Permitting Support

This task amends the existing permitting support task and includes effort for Anchor QEA to provide the following additional permitting support for the Project:

- Continued coordination with permitting agencies (USACE, NOAA, NMFS, USCG, MOS) to support existing permit applications, requests, and approvals
- Development of a draft and final Marine Mammal Monitoring Plan
- Support with procurement of a marine mammal monitoring contractor
- Review of upland permit requirements and coordination with permitting agencies
- Development of upland permit applications
- Coordination with USACE and NOAA regarding the North Berth Extension dredge characterization sampling and underwater noise related to sonic drilling

Task 4 Schedule

For budgeting purposes, a task duration of 9 months (through December 2023) is assumed.

Task 4 Deliverables

- Draft and Final Marine Mammal Monitoring Plan
- Draft and Final local permit application materials for upland work

Task 4 Assumptions

- Upland permit applications will be limited to those required by MOS (e.g., Moving and Demolition Permit, Waterfront District Zoning Permit, Historic Review).
- Anchor QEA will complete the applicable MOS permit application forms, using information already collected for other permits or available online, and will assist KPFF in evaluating any revisions needed to project drawings to meet specific MOS application requirements.
- KPFF will provide all revised drawings, calculations, and any other engineering information needed to support MOS permit applications.
- This scope of work includes time for Anchor QEA to coordinate with agencies via phone, email, and virtual meetings only. No in-person meetings or site visits are included as part of this task.
- Anchor QEA will communicate with USACE and NOAA regarding estimates of underwater noise related to sonic drilling. If consultation is required for North Berth Extension Project sampling, the additional level of effort to prepare permit materials will be provided in a scope amendment.
- This task does not include permitting support related to active construction and/or project closeout.

Task 5: Stormwater Management Support

This task includes effort for Anchor QEA to support the MOS with development of a long-term stormwater management strategy for the SOT. As part of this task, Anchor QEA will review existing data for the SOT (provided by KPFF) to better understand baseline conditions and identify potential stormwater management options based on Anchor QEA's understanding of the MOS' anticipated

future use of the SOT. This initial phase of stormwater management support will be used to identify alternatives and assess advantages and disadvantages to inform decision making for future stormwater management at the SOT. Once a preferred alternative is identified through client consultation, further development will be implemented under a separate scope of work, if necessary.

Task 5 Schedule

For budgeting purposes, a task duration of 6 months (through September 2023) is assumed.

Task 5 Deliverables

- Workshop meeting materials (e.g., powerpoint, flow charts, etc.)
- Alternatives tables describing advantages and disadvantages of each approach

Task 5 Assumptions

- Existing facility/site data will be provided by KPFF.
- Phase 2 Environmental Site Assessment sampling data will be provided by Cox Environmental.
- This task does not include any in-person meetings or site visits.

Task 6: Upland SOT Decommissioning Support

This task includes effort for Anchor QEA to provide the following professional services related to the upland SOT decommissioning design support:

- Review available information/data pertaining to the upland SOT facility, including historical information and reports, and preliminary building materials and environmental media characterization results recently implemented or to be implemented by others.
- Identify data gaps, if any, related to upland SOT building material and equipment characterization, and develop draft Sampling and Analysis Plan (SAP) for addressing the identified data gaps. At a minimum, the SAP will include sampling objectives; regulatory overview; a description of proposed sampling activities, sample types, and associated laboratory analysis; standard operating procedures for collecting various types of samples; and quality assurance/quality control provisions and a project specific Health and Safety Plan. Provide the draft SAP to KPFF for review and comment. Upon receipt of KPFF's comments, address the comments and finalized the SAP.
- Mobilize to the site to observe existing conditions and implement building materials/equipment sampling activities, in accordance with the SAP. The sampling activities will be implemented using support of other local consultant(s), and may include visual observations, hazardous materials/equipment inventory, an asbestos survey, a paint survey, collecting building material samples, and other building materials/equipment sampling, as warranted. The samples will be submitted to an approved analytical laboratory for subsequent laboratory analysis.

- Prepare draft Upland SOT Facility Characterization Report. At a minimum, the report will include a narrative description of work conducted; building material and equipment sampling analytical results, in a tabulated format; copies of laboratory analytical reports; a drawing showing approximate sampling locations and sample types; and photo log documenting sampling locations. Provide the draft report to KPFF for review and comment. Upon receipt of KPFF's comments, address the comments and finalize the report.
- Prepare a memo summarizing proposed scope of work for mothballing the upland SOT facility. In development of the proposed scope of work, Anchor QEA will consider available facility-related information, including information/data to be generated during the building material and equipment characterization proposed herein; current regulatory environment; and the MOS' desire to mothball the facility such that it does not present an unacceptable risk to the public and the environment in the near future. Based on input received from KPFF, finalize the proposed scope of work memo.

Task 6 Schedule

For budgeting purposes, a task duration of 1 year (12 months, through March 2024) is assumed.

Task 6 Deliverables

- Draft and Final Sampling and Analysis Plan
- Draft and Final Upland SOT Facility Characterization Report
- Draft and Final memorandum summarizing the proposed scope of work for mothballing the upland SOT facility.

Task 6 Assumptions

- KPFF will provide historical documents/data pertaining to the upland SOT facility for review by Anchor QEA. Only historical documents provided by KPFF will be reviewed.
- KPFF will provide documents summarizing recently implemented (or to be implemented) preliminary facility characterization and environmental media investigation in a timely manner, as these documents become available.
- All submittals to KPFF will be in electronic format. We have budgeted for addressing one round of comments per draft document. Comments should be provided in electronic format. Should multiple parties (e.g., KPFF, MOS, other consultants) review draft document(s), the comments should be consolidated in one electronic file (e.g., subsequent review by multiple parties).
- For the SAP implementation budgeting purposes, we have assumed that one Anchor QEA professional experienced in facility closure and implementation of building material/equipment sampling will travel to Skagway to visually observe the existing conditions and participate in collection of selected types of samples. Additional sampling personnel, sampling equipment, and analytical laboratory glassware will be provided by a third-party,

local consultant (Dahlberg Design) that will assist Anchor QEA in collecting the samples and conducting building material/equipment survey(s).

- One Anchor QEA professional will spend three days at the site. Dahlberg Design staff will be present on-site to support all sampling efforts.
- One Anchor QEA professional will mobilize from Seattle, Washington through Juneau, Alaska to Skagway, Alaska. Up to 2 days of travel, each way, are assumed.
- Laboratory analysis will include select testing of PCBs, metals, and waste characterization parameters for up to 24 samples at SGS laboratory in Anchorage, Alaska.
- Samples will be shipped from Juneau to Anchorage for analysis and picked up by an SGS courier.
- An asbestos and lead-based paint survey, if needed, will be conducted by a third-party, properly certified consultant(s). No asbestos sampling or testing is included in this scope of work.
- We understand that at this time MOS desires to mothball the upland SOT facility for a near-future, as needed to mitigate or reduce potential environmental, health, and safety risks and liabilities. A final disposition of the SOT facility will be determined at a later date.
- Additional services related to design and implementation of the MOS facility mothballing may be provided by Anchor QEA at a later date, if requested by KPFF. Such services are specifically excluded from this scope of work, and may include design, bidding and contractor selection support, providing field oversight during implementation of the project, and reporting. If requested, Anchor QEA will prepare a separate scope of work and estimated cost for providing these additional services.

Task 7: On-Call Technical Support

This task includes effort for Anchor QEA to provide Project technical support to KPFF to address unanticipated environmental design and/or compliance issues, on an as-requested basis, not to exceed the task budget. KPFF will provide written approval for on-call support efforts.

Task 7 Schedule

For budgeting purposes, a task duration of 1 year (12 months, through March 2024) is assumed.

Task 7 Deliverables

- TBD

Task 7 Assumptions

- On-call support will be provided as requested by KPFF. The level of effort for this task is unknown and work using this task will be discussed and authorized by KPFF prior to using Task 7.

Budget

Project costs are summarized in Table 1. A detailed estimate of Anchor QEA costs is provided in Appendix A. Anchor QEA will routinely review its budget and inform KPFF of any anticipated scope and budget adjustments.

Table 1
Project Budget

Task	Description	Total Budget Request
1	Project Management and Meetings	\$55,008
2	Bid Package Support	\$184,462
3	CQAP Support	\$41,202
4	Permitting Support	\$98,008
5	Stormwater Management Support	\$76,204
6	Upland SOT Decommissioning Support	\$146,523
7	On-Call Technical Support	\$60,054
	Total	\$661,461

Anchor QEA proposes to perform this Scope of Work on a time-and-materials basis not to exceed the maximum budget without prior written authorization. Anchor QEA's 2023 labor billing rates are provided in Appendix B. Anchor QEA will communicate closely with KPFF on project/budget status and will notify KPFF as soon as possible in the event that changes in scope are anticipated.

ACCEPTED BY:

Tom Wang, P.E.
Member
Anchor QEA, LLC

Date

Bob Riley, P.E.
Principal
KPFF

Date

Appendix A
Detailed Budget

Skagway Ore Peninsula Redevelopment Project

Task	Description	Hours by Labor Categories (hourly rates shown in parentheses)											Total Labor Hours	Total Labor Cost	Subcontractor Direct Costs	Total Subcontractor Costs w Markup	Reimbursable Direct Costs	Total Reimbursable Costs w Markup	Equipment Direct Costs	Total Equipment Costs w Markup	Total Direct Costs	Total Cost
		Principal (\$312)	Senior Manager (\$274)	Manager (\$256)	Senior Staff (\$227)	Staff 3 (\$199)	Staff 2 (\$179)	Staff 1 (\$151)	Senior CAD Designer (\$157)	CAD Designer (\$132)	Senior Technical Editor (\$155)	Project Coordinator (\$122)										
Task 1	Project Management and Meetings																					
1.1	PM and Meetings	24.00	120.00	-	-	-	-	-	-	-	-	120.00	264.00	\$ 55,008	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,008
Task 2	Bid Package Support																					
2.1	Upland Consultant Team Coordination	62.00	80.00	-	-	-	-	-	-	-	-	22.00	164.00	\$ 43,948	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43,948
2.2	Construction Stormwater Support	48.00	24.00	-	-	30.00	60.00	-	-	-	-	4.00	166.00	\$ 38,750	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,750
2.3	Demolition Spec Support	44.00	16.00	-	-	8.00	-	-	-	-	-	4.00	72.00	\$ 20,192	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,192
2.4	Soil Excavation Spec Support and EMP Review	44.00	36.00	12.00	-	32.00	-	-	-	-	-	4.00	128.00	\$ 33,520	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,520
2.5	Environmental Protection Spec	40.00	32.00	40.00	-	64.00	10.00	-	-	-	10.00	4.00	200.00	\$ 48,052	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 48,052
Task 3	CQAP Support																					
3.1	CQAP Support	40.00	8.00	60.00	-	50.00	-	-	-	-	-	10.00	168.00	\$ 41,202	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,202
Task 4	Permitting Support																					
4.1	Permit Agency Coord	40.00	20.00	20.00	12.00	40.00	4.00	-	-	-	-	2.00	138.00	\$ 34,724	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34,724
4.2	MMMP and Contractor Procurement	20.00	20.00	20.00	-	12.00	60.00	-	-	-	16.00	6.00	154.00	\$ 33,180	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,180
4.3	Upland Permits	8.00	24.00	-	20.00	72.00	8.00	-	-	-	-	6.00	138.00	\$ 30,104	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,104
Task 5	Stormwater Management Support																					
5.1	Review Existing Data	24.00	10.00	-	-	-	72.00	-	-	-	-	8.00	114.00	\$ 24,092	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,092
5.2	Stormwater Strategy Meeting	96.00	24.00	-	-	-	60.00	24.00	-	-	-	10.00	214.00	\$ 52,112	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 52,112
Task 6	Upland SOT Decommissioning Support																					
6.1	Review Existing Data	10.00	6.00	-	-	12.00	40.00	-	-	-	-	2.00	70.00	\$ 14,556	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,556
6.2	Identify Data Gaps, Develop SAP	18.00	12.00	4.00	-	24.00	52.00	-	6.00	12.00	24.00	2.00	154.00	\$ 30,502	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,502
6.3	Implement SAP	18.00	36.00	-	-	92.00	-	-	-	-	-	6.00	152.00	\$ 34,520	\$ 9,000	\$ 9,900	\$ 6,000	\$ 6,600	\$ 375	\$ 413	\$ 16,913	\$ 51,433
6.4	SOT Building Characterization Report	18.00	12.00	-	-	40.00	50.00	-	6.00	12.00	20.00	2.00	160.00	\$ 31,684	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,684
6.5	Prepare SOW for Mothballing SOT	18.00	12.00	-	-	40.00	-	-	-	-	8.00	2.00	80.00	\$ 18,348	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,348
Task 7	On-Call Technical Support																					
7.1	On-Call Technical Support	88.00	60.00	-	-	72.00	-	-	-	-	-	15.00	235.00	\$ 60,054	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,054
	Total Hours	660.00	552.00	156.00	32.00	588.00	416.00	24.00	12.00	24.00	78.00	229.00	2771									
	Total Cost	\$205,920	\$151,248	\$39,936	\$7,264	\$117,012	\$74,464	\$3,624	\$1,884	\$3,168	\$12,090	\$27,938		\$644,548	\$9,000	\$9,900	\$6,000	\$6,600	\$375	\$413	\$16,913	\$661,461

Appendix B
2023 Billing Rates

Anchor QEA, LLC

2023 BILLING RATES

Professional Level Hourly Rates

Principal CM ¹ /Engineer/LA ² /Planner/Scientist.....	\$312
Senior Managing Analyst/CM/Engineer/LA/Planner/Scientist.....	\$274
Managing Analyst/CM/Engineer/LA/Planner/Scientist.....	\$256
Senior Analyst/CM/Engineer/LA/Planner/Scientist.....	\$227
Staff 3 Analyst/CM/Engineer/LA/Planner/Scientist.....	\$199
Staff 2 Analyst/CM/Engineer/LA/Planner/Scientist.....	\$179
Staff 1 Analyst/CM/Engineer/LA/Planner/Scientist.....	\$151
Senior CAD ³ Designer.....	\$157
CAD Designer.....	\$132
Technician.....	\$127
Senior Technical Editor.....	\$155
Technical Editor.....	\$132
Senior Project Coordinator.....	\$149
Project Coordinator.....	\$122

Special Hourly Rates

National expert consultant.....	\$507
All work by a testifying expert.....	1.5 times professional level rate
Expert Advisor.....	\$389

EXPENSE BILLING RATES

Expense Rates

Computer Modeling (per hour).....	\$10.00
Graphic Plots (varies with plot size).....	\$3-\$6/sf
Mileage (per mile).....	Current Federal Standard

FEE ON LABOR AND EXPENSE CHARGES

Subcontracts/subconsultants.....	10%
Travel and other direct costs.....	10%
Field equipment and supplies.....	10%

¹ CM: Construction Manager

² LA: Landscape Architect

³ CAD: Computer Aided Design

Scope of Work Amendment

March 31, 2023

Skagway Ore Peninsula Redevelopment Project

KPFF Job # 2100135

Project Understanding

This Scope of Work amendment includes effort for Anchor QEA, LLC, to support KPFF with a focused soil amendment study as part of the Municipality of Skagway's (MOS') Ore Peninsula Redevelopment Project (Project). Site soils that will be removed during Project construction may require off-site disposal due to elevated lead concentrations. To support waste characterization and options for managing site soils, a bench-scale study is proposed to evaluate the performance of different amendment mixtures (i.e., of Portland cement) that could be used to stabilize soils prior to transport and off-site disposal at a permitted landfill. Site soil sampling by Cox Environmental is anticipated to occur in early May 2023. This Scope of Work amendment includes effort for Anchor QEA to perform a bench scale soil amendment study at Anchor QEA's Environmental Geochemical Laboratory (EGL) in Portland, Oregon, to assess if the amendment will change the waste determination for soils that need to be managed off-site.

Scope of Services and Deliverables

This Scope of Work amendment includes the following new task:

- Task 8: Soil Amendment Study

Task 8: Soil Amendment Study

The soil amendment study will use site soil samples collected by Cox Environmental. Following shipment to the EGL, aliquots of up to 5 bulk soil samples will be prepared as follows for toxicity characteristic leaching procedure (TCLP) metals testing:

- Unamended
- Amended 2% Portland cement
- Amended 4% Portland cement

Amended samples will be prepared by determining the wet weight of the raw soil samples and adding 2 and 4% Portland cement (dry weight of Portland cement per wet weight of soil) and mixing thoroughly. The amended material from each treatment will be allowed to cure in molds for three days. After curing, all amended and unamended samples will be delivered to Apex Laboratory in Portland, Oregon to be tested for toxicity characteristic metals via TCLP. TCLP extracts will be prepared by U.S. Environmental Protection Agency (EPA) Method 1311. At the proposed amendment percentages, the cured samples are expected to be friable; if the amended samples are monolithic

solids and incapable of passing through a 9.5-mm (0.375-in.) sieve, they will be crushed as required by Section 7.1.3 of the TCLP (Method 1311).

Following receipt of TCLP metals data, a data summary memorandum will be prepared that summarizes the laboratory methods, results, and recommendations for soil amendment.

Task 8 Schedule

For budgeting purposes, a task duration of 2 months following receipt of soil samples is assumed. Preparation of soil samples and amendments will begin as soon as samples are received at the EGL.

Task 8 Deliverable

- Data Summary Memorandum describing lab methods and results

Task 8 Assumptions

- Soil samples will be collected by Cox Environmental and shipped to Anchor QEA's EGL in Portland, Oregon.
- Anchor QEA will coordinate with Cox Environmental regarding sample volume and preservation needs.
- The scope of work includes amendment of up to 5 bulk samples at two pre-determined percentages of Portland cement, for a total of 15 sample analyses.
- Samples will be delivered to Apex Laboratories in Portland, Oregon, to perform TCLP metals analysis on an expedited (5-day) turnaround.
- All EGL laboratory work will be performed by approved staff in accordance with the EGL Chemical Hygiene Plan (CHP). Approval to work in the EGL requires orientation to laboratory safety procedures and potential hazards under the guidance of the Laboratory Manager, as specified in the CHP. A project-specific safety analysis (PSA) will be prepared and implemented as part of this study.
- No sample archive or disposal costs are included.
- A single draft of the Data Summary Memorandum will be prepared for submittal to the MOS.

Budget

Project costs are summarized in Table 1. A detailed estimate of Anchor QEA costs is provided in Appendix A. Anchor QEA will routinely review its budget and inform KPFF of any anticipated scope and budget adjustments.

Table 1
Project Budget

Task	Description	Budget Request
8	Soil Amendment Study	
	<i>Study Preparation and Sample Coordination</i>	\$12,844
	<i>Sediment Amendment and Analytical Testing</i>	\$23,833
	<i>Data Summary Memorandum</i>	\$6,235
Scope Amendment Total		\$42,952

Anchor QEA proposes to perform this Scope of Work on a time-and-materials basis not to exceed the maximum budget without prior written authorization. Anchor QEA's 2023 labor billing rates are provided in Appendix B. Anchor QEA will communicate closely with KPFF on project/budget status and will notify KPFF as soon as possible in the event that changes in scope are anticipated.

ACCEPTED BY:

Tom Wang, P.E.
Member
Anchor QEA, LLC

Date

Bob Riley, P.E.
Principal
KPFF

Date

Appendix A
Detailed Budget

Skagway Soil Amendment Study

Task	Description	Hours by Labor Categories (hourly rates shown in parentheses)						Total Labor Hours	Total Labor Cost	Subcontractor Direct Costs	Total Subcontractor Costs w Markup	Reimbursable Direct Costs	Total Reimbursable Costs w Markup	Equipment Direct Costs	Total Equipment Costs w Markup	Total Direct Costs	Total Cost	
		Principal (\$312)	Senior Manager (\$274)	Manager (\$256)	Senior Staff (\$227)	Staff 2 (\$179)	Staff 1 (\$151)											Senior Technical Editor (\$155)
Task 1	Sediment Amendment Study																	
1.1	Study Prep and Sample Coordination	2.00	8.00	12.00	16.00	16.00	-	-	54.00	\$ 12,384	\$ -	\$ -	\$ 500	\$ 500	\$ -	\$ -	\$ 500	\$ 12,884
1.2	Sediment Amendment and Analytical Testing	2.00	10.00	6.00	24.00	24.00	-	-	66.00	\$ 14,644	\$ 7,013	\$ 7,714	\$ 100	\$ 100	\$ 1,250	\$ 1,375	\$ 9,189	\$ 23,833
1.3	Data Summary Memorandum	2.00	6.00	2.00	-	10.00	10.00	1.00	31.00	\$ 6,235	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,235
	Total Hours	6.00	24.00	20.00	40.00	50.00	10.00	1.00	151									
	Total Cost	\$1,872	\$6,576	\$5,120	\$9,080	\$8,950	\$1,510	\$155		\$33,263	\$7,013	\$7,714	\$600	\$600	\$1,250	\$1,375	\$9,689	\$42,952

Appendix B
2023 Billing Rates

Anchor QEA, LLC

2023 BILLING RATES

Professional Level Hourly Rates

Principal CM ¹ /Engineer/LA ² /Planner/Scientist.....	\$312
Senior Managing Analyst/CM/Engineer/LA/Planner/Scientist.....	\$274
Managing Analyst/CM/Engineer/LA/Planner/Scientist.....	\$256
Senior Analyst/CM/Engineer/LA/Planner/Scientist.....	\$227
Staff 3 Analyst/CM/Engineer/LA/Planner/Scientist.....	\$199
Staff 2 Analyst/CM/Engineer/LA/Planner/Scientist.....	\$179
Staff 1 Analyst/CM/Engineer/LA/Planner/Scientist.....	\$151
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All work by a testifying expert.....	1.5 times professional level rate
Expert Advisor.....	\$389

EXPENSE BILLING RATES

Expense Rates

Computer Modeling (per hour).....	\$10.00
Graphic Plots (varies with plot size).....	\$3-\$6/sf
Mileage (per mile).....	Current Federal Standard

FEE ON LABOR AND EXPENSE CHARGES

Subcontracts/subconsultants.....	10%
Travel and other direct costs.....	10%
Field equipment and supplies.....	10%

¹ CM: Construction Manager

² LA: Landscape Architect

³ CAD: Computer Aided Design



March 20, 2023

Mr. Ed DeBroeck, PE, DBIA
Associate
KPFF
1601 Fifth Avenue, Suite 1300
Seattle, WA 98101
ed.debroeck@kpff.com

RE: Skagway Ore Terminal – Uplands Contaminated Soils Assistance
Fee Proposal

DEAR ED,

RESPEC is pleased to submit this fee proposal for additional work as it pertains to the civil engineering design and the contaminated soils on the site for the Skagway Ore Peninsula Redevelopment project. We have had several project team meetings with the environmental team discussing the existing soil contamination known to exist in the uplands and how to manage that during construction.

SCOPE OF WORK

The following are additional scope of work items for the civil engineering design that we anticipate working on as it relates to the uplands soil contamination:

1. Additional civil engineering design time for coordinating the civil engineering drawings and technical specifications to include specific details and technical specification language as furnished by the environmental engineers.
2. Preparation of estimate of quantities for determining the volume of contaminated soil that may be encountered on the project.
3. Participating in several environmental team meetings to discuss the contaminated soils issue.
4. Preparation of a project addendum after the advertisement of bids to address civil engineering design construction document and technical specification changes due to contaminated soils results.
5. Preparation of project change order drawings to be issued after a contractor has been selected to address changes to the stormwater system. Based on information provided by the environmental team we can illustrate plan views and construction details for stormwater treatment improvements.
6. Additional field surveying to document the existing stormwater infiltrator and ground conditions where the existing dock is to be removed and the new seawalk is being constructed.
7. Assistance to provide files and information and evaluate the existing site topography and basin delineations for the preliminary stormwater studies KPFF/ Anchor are doing.

9109 MENDENHALL MALL RD.
SUITE 4
JUNEAU, AK 99801
907.780.6060



ESTIMATE OF FEES

We propose to perform our work on a time and expense basis. RESPEC's total compensation for scope of services provide in this letter agreement, including labor and overhead costs and expenses shall not exceed \$29,415 without written authorization by KPFF. Attached herewith are fee spreadsheets as backup for this fee amendment.

Additional professional service work that is requested or added to the contract will be billed on a separate time and materials basis or negotiated separately. RESPEC will keep you apprised of budget and scope status throughout the performance of this work and alert you of any non-scope items that may impact the budget.

We appreciate the opportunity to be of service to KPFF on this important Skagway Port project and look forward to working with you. Should you have any questions, please do not hesitate to contact me at your convenience.

Sincerely,

J. Mark Pusich, PE
Principal Civil Engineer
Mark.Pusich@respec.com

Approved By: _____

Date: _____

COST ESTIMATE PER TASK

FIRM: RESPEC		PROJECT TITLE: SKAGWAY ORE TERMINAL - CIVIL UPLAND UTILITY DESIGN							
TASK No:	1	TASK DESCRIPTION: CIVIL ENGINEERING ASSISTANCE FOR CONTAMINATED SOILS						DATE: 3/20/2023	
GROUP:	METHOD OF PAYMENT: FP <input type="checkbox"/> FPF <input type="checkbox"/> T&E <input checked="" type="checkbox"/> CPFF <input type="checkbox"/>				PREPARED BY: JMP				
SUB-TASK No.	SUB-TASK DESCRIPTION	LABOR HOURS PER JOB CLASSIFICATION							
		Project Manager (Pusich)	Civil Engr. Associate (Puustinen)	AutoCAD Draftsman (Kemp)	Engr. EIT (Minsch)	Field Survey Crew			
1	Coord to include Enviro Work into Civil Uplands Design Documents	2							
2	Est of Qty's of Contaminated Soils		8		16				
3	Enviro Team Meetings	8			8				
4	Project Addendum for Enviro Items	2	8		16				
5	Preparation of Change Order for Stormwater Controls from Enviro	4	24		40				
6	Additional Field Topo Work			8		20			
7	Assit to provide files/projec information		4		8				
TOTAL HOURS		16	44	8	88	20			
* LABOR RATES (\$/HR)		\$250.00	\$180.00	\$125.00	\$115.00	\$230.00			
LABOR COSTS (\$)		\$4,000.00	\$7,920.00	\$1,000.00	\$10,120.00	\$4,600.00			
EXPENSES		COMMENTS:							
SUB-TASK No.	ITEM(S)	QUANTITY	UNIT PRICE	TOTAL PRICE	Additional design services for coordinating and incorporating furnished environmental requirements into the civil engineering plans and specifications.				
	Xerox Copies	100	\$0.25	\$25.00					
	JNU Skagway JNU Travel	2	\$450.00	\$900.00					
	Skagway Hotel	2	\$175.00	\$350.00					
	Per Diem	4	\$125.00	\$500.00					
TOTAL EXPENSES:				\$1,775	FIRM'S TOTAL COST OF LABOR (or Fixed Price): \$27,640				
					IF CPFF, TOTAL INDIRECT COST @ 0.00% \$0				
					FIRM'S TOTAL EXPENSES \$1,775				
					FIRM'S TOTAL COST (no Subcontracts or Fee) \$29,415				
SUB-CONTRACTORS: Firm Initials and Price Per Task					TOTAL SUBCONTRACTOR PRICES: \$0				
FIRM:									
AMOUNT:									

* Labor Rates shall be direct labor (base pay) only if Method of Payment is CPFF; otherwise, Labor Rates shall be total rates (i.e. base pay + benefits + overhead + profit.)

DAHLBERG DESIGN FEE PROPOSAL DETAIL

SKAGWAY ORE LOADING FACILITY FINAL SAMPLING EFFORT			
Project Personnel			Hourly Rate
Sigrid Dahlberg, P.E.			\$ 185.00
Work Item	Hours	Cost	
Project Admin Setup	1	\$ 185.00	
Develop sampling plan	2	\$ 370.00	
Prepare for sampling trip	1	\$ 185.00	
Day in Skagway 7a-5p	10	\$ 1,850.00	
Chain of custody - 2 labs	3	\$ 555.00	
Packing & shipping - 2 labs	3	\$ 555.00	
Lab review and email update	2	\$ 370.00	
Sampling report	16	\$ 2,960.00	
Sampling to include items identified in MFA Hazmat Report plus additional materials identified during site visit.			
TOTALS		38	\$ 7,030.00
Total Cost for Employee Time			\$ 7,030.00
Cost of Subcontractors			
Subcontractor & Service	Unit Cost	Qty	Total
Ak Asbestos PLM Analysis	\$ 20.00	16	\$ 320.00
Fremont Analytical Pb	\$ 35.00	12	\$ 420.00
Fremont Analytical PCB	\$ 90.00	16	\$ 1,440.00
Mineral Svcs Lift & Op		1	\$ -
Subtotal cost for Subcontractors			\$ 2,180.00
No markup			\$ -
Total Cost for Subcontractors			\$ 2,180.00
Cost of Expenses			
Expense	Unit Cost	Qty	Total
Parking at airport	\$ 19.00	1	\$ 19.00
Per diem	\$ 60.00	1	\$ 60.00
Airfare to Skagway	\$ 498.00	1	\$ 498.00
Shipping to Ak Asbestos	\$ 29.95	1	\$ 29.95
Shipping to Fremont Lab	\$ 54.00	1	\$ 54.00
Subtotal cost for Expenses			\$ 641.95
Total for Time, Subcontractors, & Expenses			\$ 9,851.95



Estimate # 20230321-1

March 21, 2023
KPFF Special Projects

Attn: Dan Diulio
(703) 655-3224

VIA e-mail: dan.diulio@kpff.com

Subject: UTSW on 57 shop splices for Skagway Dock

Dear Mr Diulio:

Mistras Services is pleased to provide you with a proposal to conduct Ultrasonic Sheer wave testing (UTSW) in accordance with AWS D1.1

Based on our conversations of having 5 pilings ready per visit.

Estimated daily visit: \$570.00

Total estimated cost for all pilings \$6270.00 INCREASED TO 10K FOR
ADDITIONAL SPLICES

Pricing provided is an estimate only and will be charged at our T & M rates

Trisha Lemmon
Operations Manager
Trisha.lemmon@mistrasgroup.com
Cell: (907) 750-9120
Office: (360) 650-9151

Terms and Conditions

- 1) Work will not be delayed due to causes other than our own.
- 2) KPFF will provide convenient access to all inspection areas.
- 3) Minimum of 8hrs onsite access will be provide for each shift scheduled.
- 4) All work will be performed during normal hours (7:00am-5:00pm) M-F, unless previously agreed upon between Mistras and KPFF. Pricing does not include overtime charges for nights or weekend.
- 5) Reports and film to be furnished onsite at the completion of each working day unless previously agreed upon between KPFF and Mistras.
- 6) Net 30 terms will apply from date of invoice each month
- 7) KPFF to provide adequate notice (10 working days) for scheduling.
- 8) Minimum call out charge of 6hrs will apply unless previously agreed upon.
- 9) Mistras will supply all equipment to complete inspection work.
- 10) This Quote is valid for 60 days from issue date

Ed DeBroeck

From: Bruce, Jeff <JBruce@haleyaldrich.com>
Sent: Monday, April 3, 2023 10:23 AM
To: Ed DeBroeck; Alan Chun
Cc: Horvitz, Garry; Exley, Brice
Subject: RE: Skagway Indicator Pile Program

Ed,

In advance of a formal proposal I offer the following description of our scope of services as well as assumptions at this stage.

Proposed Scope of Services

This work is intended to assist KPFF in a more in-depth look at the soil resistances and driveability of steel pipe piles in the upland portion of the proposed Skagway Terminal Improvements project. We understand that the contractor will be installing two open-ended steel pipe piles to a penetration depth of 100 feet. The piles will be instrumented for PDA/CAPWAP analysis and will be tested for initial driving conditions as well as under restrikes a minimum of 48 hours following completion of pile installation. To support KPFF in the construction and analysis of the resulting data we propose performing the following services:

- Construction Observations and Support
- Geotechnical Engineering Analysis

Construction Observations and Support

We will mobilize a Haley & Aldrich staff member to Skagway to observe and record relevant information during pile driving. This will include measurements of the pile geometry, notes on the pile driving hammer and equipment being used, measurements of penetration rate for vibratory hammer installation, and counts of blows per foot as well as energy estimates for impact pile driving. Impact pile driving data will be collected with the help of a Saximeter procured by Haley & Aldrich.

Geotechnical Engineering Analysis

Upon receipt of the CAPWAP analysis form our subconsultant, we will review the results and compare to the design values currently being used for the subject project and update as necessary. Additionally we will utilize this information to update our preliminary driveability assessment.

Assumptions

- A construction schedule equal to 5 working days, including waiting time for restrikes. Any required construction beyond this duration is subject to additional daily rates.
- All work will be performed in one mobilization.
- Haley & Aldrich will carry the costs of the PDA/CAPWAP subconsultant, Robert Miner. Any required construction beyond that noted above is subject to additional daily rate by our subconsultant.
- Haley & Aldrich staff will mobilize in and out of Whitehorse and share a vehicle with KPFF staff.
- The subconsultant will provide up to 4 CAPWAP analyses for our review.

Let me know if this works or if you have any other questions.

Jeff S. Bruce, PE
Geotechnical Engineer

Project Cost Detail

Project Name	Phase Name	Task Name	Total Sales Value
0203404-002 - Skagway Ore Terminal Construction			45,552.60
<input type="button" value="Add Phase"/>	<input type="button" value="Remove"/>	Per Diem (1 week)	2,140.60
	<input type="button" value="Add Task"/>	<input type="button" value="Remove"/>	Per Diem: Food 908.60
		<input type="button" value="Remove"/>	Per Diem: Lodging 1,232.00
	<input type="button" value="Remove"/>	Construction and Design Support	19,677.00
	<input type="button" value="Add Task"/>	<input type="button" value="Remove"/>	Review PDA/CAPWAP 7,050.00
		<input type="button" value="Remove"/>	On-Site Observations 7,752.00
		<input type="button" value="Remove"/>	Construction Consultation 4,875.00
	<input type="button" value="Remove"/>	Round Trip Travel	4,155.00
	<input type="button" value="Add Task"/>	<input type="button" value="Remove"/>	Roundtrip Travel 4,155.00
	<input type="button" value="Remove"/>	PDA/CAPWAP Subconsultant	19,580.00
	<input type="button" value="Add Task"/>	<input type="button" value="Remove"/>	Sub Cost 19,580.00

Jeff S. Bruce, PE
Geotechnical Engineer

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