



Sunshine Coast Regional District

Request for Proposal

Number: 2437014

for

Environmental Flow Needs Assessment for Chapman Creek

Issue Date:

September 26, 2024

Closing Date of

October 30, 2024 at 3:00 PM local time

CONTACT: All enquiries related to this Request for Proposal, including any requests for information and clarification, are to be submitted by October 14, 2024 and directed, in writing, to purchasing@scrd.ca, who will respond if time permits with a Q&A on BCBid by October 18, 2024. Information obtained from any other source is not official and should not be relied upon. Enquiries and any responses providing new information will be recorded and posted to BC Bid or otherwise distributed to prospective Proponents.

DELIVERY OF PROPOSALS: Proposals must be in English and must be submitted using one of the submission methods below, and must either **(1)** include a copy of this cover page that is signed by an authorized representative of the Proponent or **(2)** be submitted by using the e-bidding key on BC Bid (if applicable), in accordance with the requirements set out in the RFP.

BC Bid Electronic Submission: Proponents may submit an electronic proposal using BC Bid. Proposals must be submitted in accordance with the BC Bid requirements and e-bidding key requirements (found at <https://www.bcbid.gov.bc.ca/>). Only pre-authorized electronic bidders registered on the BC Bid system can submit an electronic proposal using the BC Bid system. Use of an e-bidding key is effective as a signature.

OR

Hard Copy Submission: Proponents must submit **ONE (1)** hard-copies and **ONE (1)** electronic copy on a USB Drive of the proposal. Proposals submitted by hard copy must be submitted by hand or courier to:

**Sunshine Coast Regional District
1975 Field Road
Sechelt, BC V7Z 0A8**

Regardless of submission method, proposals must be received before Closing Time to be considered.

CONFIRMATION OF PROPONENT'S INTENT TO BE BOUND:

The enclosed proposal is submitted in response to the referenced Request for Proposal, including any Addenda. By submitting a proposal the Proponent agrees to all of the terms and conditions of the RFP including the following:

- a) The Proponent has carefully read and examined the entire Request for Proposal;
- b) The Proponent has conducted such other investigations as were prudent and reasonable in preparing the proposal; and
- c) The Proponent agrees to be bound by the statements and representations made in its proposal.

PROPONENT NAME (please print): _____

NAME OF AUTHORIZED REPRESENTATIVE (please print): _____

SIGNATURE OF AUTHORIZED REPRESENTATIVE: _____

DATE: _____

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1. 1. GENERAL TERMS & CONDITIONS

1.1 DEFINITIONS

Throughout this Request for Proposal, the following definitions apply:

"Addenda" means all additional information regarding this RFP, including amendments to the RFP; **"BC Bid"** means the BC Bid website located at <https://www.bcbid.gov.bc.ca/> ;

"Closing Location" includes the location or email address for submissions indicated on the cover page of this RFP, or BC Bid, as applicable;

"Closing Time" means the closing time and date for this RFP as set out on the cover page of this RFP;

"Contract" means the written agreement resulting from the RFP executed by the Regional District and the successful Proponent;

"Contractor" means the successful Proponent to the RFP who enters into a Contract with the Regional District;

"Must", or "mandatory" means a requirement that must be met in order for a proposal to receive consideration;

"Proponent" means a person or entity (excluding its parent, subsidiaries or other affiliates) with the legal capacity to contract, that submits a proposal in response to the RFP;

"Proposal" means a written response to the RFP that is submitted by a Proponent;

"Request for Proposals" or **"RFP"** means the solicitation described in this document, including any attached or referenced appendices, schedules or exhibits and as may be modified in writing from time to time by the Regional District by Addenda; and

"Should", "may" or "weighted" means a requirement having a significant degree of importance to the objectives of the Request for Proposals.

"SCRD", "Regional District", "Organization", "we", "us", and "our" mean Sunshine Coast Regional District.

1.2 FORM OF PROPOSAL

This Proposal must be completed in its entirety. Failure to properly complete this Proposal form may cause your Proposal to be rejected. The signing officer must initial all corrections. The Sunshine Coast Regional District (Regional District) reserves the right to permit a correction, clarification or amendment to the Proposal or to correct minor errors and irregularities.

1.3 SUBMISSION OF PROPOSAL

- a) Proposals must be submitted before Closing Time to the Closing Location using one of the

submission methods set out on the cover page of this RFP. Proposals must not be sent by fax. The Proponent is solely responsible for ensuring that, regardless of submission method selected, the Regional District receives a complete Proposal, including all attachments or enclosures, before the Closing Time.

- b) For electronic submissions (BC Bid or email), the following applies:

(i) The Proponent is solely responsible for ensuring that the complete electronic Proposal, including all attachments, is received before Closing Time;

(ii) The Regional District limits the maximum size of any single email message to 20MB or less.

(iii) Proponents should endeavour to submit emailed proposal submissions in a single message and avoid sending multiple email submissions for the same opportunity. If an electronic submission exceeds the applicable maximum single message size, the Proponent may make multiple submissions (BC Bid upload or multiple emails for the same opportunity). Proponents should identify the order and number of emails making up the email proposal submission (e.g. "email 1 of 3, email 2 of 3...");

(iv) For email proposal submissions sent through multiple emails, the Regional District reserves the right to seek clarification or reject the proposal if the Regional District is unable to determine what documents constitute the complete proposal;

(v) Attachments must not be compressed or encrypted, must not contain viruses or malware, must not be corrupted, and must be able to be opened using commonly available software (e.g. Adobe Acrobat). Proponents submitting by electronic submission are solely responsible for ensuring that any emails or attachments are not corrupted. The Regional District has no obligation to attempt to remedy any message or attachment that is received corrupted or cannot be viewed. The Regional District may reject proposals that are compressed encrypted, cannot be opened or that contain viruses or malware or corrupted attachments.

- c) For BC Bid e-submissions only pre-authorized e-bidders registered on BC Bid can submit

electronic bids on BC Bid. BC Bid is a subscription service (\$150 per year) and the registration process may take two business days to complete. If using this submission method, Proponents should refer to the BC Bid website or contact BC Bid Helpdesk at 250-387-7301 for more information. An electronic proposal submitted on BC Bid must be submitted using the e-bidding key of an authorized representative of the Proponent. Using the e-bidding key of a subcontractor is not acceptable.

- d) For email proposal submissions, including any notices of amendment or withdrawal referred to in Section 1.6, the subject line of the email and any attachment should be clearly marked with the name of the Proponent, the RFP number and the project or program title.
- e) The Regional District strongly encourages Proponents using electronic submissions to submit proposals with sufficient time to complete the upload and transmission of the complete proposal and any attachments before Closing Time.
- f) The Proponent bears all risk associated with delivering its Proposal by electronic submission, including but not limited to delays in transmission between the Proponent's computer and the Regional District Electronic Mail System or BC Bid.
- g) While the Regional District may allow for email proposal submissions, the Proponent acknowledges that email transmissions are inherently unreliable. The Proponent is solely responsible for ensuring that its complete email proposal submission and all attachments have been received before Closing Time. If the Regional District Electronic Mail System rejects an email proposal submission for any reason, and the Proponent does not successfully resubmit its proposal by the same or other permitted submission method before Closing Time, the Proponent will not be permitted to resubmit its proposal after Closing Time. The Proponent is strongly advised to contact the Regional District Contact immediately to arrange for an alternative submission method if:
 - (i) the Proponent's email proposal submission is rejected by the Regional District Electronic Mail System; or
 - (ii) the Proponent does not receive an automated response email from the Regional District confirming receipt of each and every message transmitted, within a half hour of transmission by the Proponent.

An alternate submission method may be made available, at the Regional District's discretion, immediately to arrange for an alternative submission method, and it is the Proponent's sole responsibility for ensuring that a complete proposal (and all attachments) submitted using an approved alternate submission method is received by the Regional District before the Closing Time. The Regional District makes no guarantee that an alternative submission method will be available or that the method available will ensure that a Proponent's proposal is received before Closing Time.

1.4 SIGNATURE REQUIRED

Proposals must be properly signed by an officer, employee or agent having authority to bind the Proponent by that signature.

1.5 CLARIFICATIONS, ADDENDA & MINOR IRREGULARITIES

If any Proponent finds any inconsistencies, errors or omissions in the proposal documents or requires information, clarification of any provision contained therein, they shall submit their query in writing or email, addressed as follows:

Purchasing Division
Sunshine Coast Regional District
1975 Field Road, Sechelt, BC V7Z 0A8

purchasing@scrd.ca

Any interpretation of, addition to, deletions from or any corrections to the proposal documents will be issued as written addendum by the Regional District.

All Addenda will be posted on BC Bid. It is the sole responsibility of the Proponent to check for Addenda on BC Bid. Proponents are strongly encouraged to subscribe to BC Bid's email notification service to receive notices of Addenda.

1.6 WITHDRAWAL OR REVISIONS

Proposals or revisions may be withdrawn by written notice provided such a notice of withdrawal is received prior to the closing date and time. Proposals withdrawn will be returned to the Proponent unopened. Revisions to the proposals already received shall be submitted only by electronic mail, or signed letter. The revision must state only the amount by which a figure is to be increased or decreased, or specific directions as to the exclusions or inclusion of particular words.

1.7 CONDUCT OF THE CONTRACT

Unless otherwise specified within this document, any queries regarding this Request for Proposal are to be

directed to purchasing@scrd.ca. No other verbal or written instruction or information shall be relied upon by the Bidder, nor will they be binding upon the Regional District.

1.8 CONFLICT OF INTEREST/NO LOBBYING

- (a) A Proponent may be disqualified if the Proponent's current or past corporate or other interests, or those of a proposed subcontractor, may, in the Regional District's opinion, give rise to an actual or potential conflict of interest in connection with the services described in the RFP. This includes, but is not limited to, involvement by a Proponent in the preparation of the RFP or a relationship with any employee, contractor or representative of the Regional District involved in preparation of the RFP, participating on the evaluation committee or in the administration of the Contract. If a Proponent is in doubt as to whether there might be a conflict of interest, the Proponent should consult with the Regional District Contact prior to submitting a proposal. By submitting a proposal, the Proponent represents that it is not aware of any circumstances that would give rise to a conflict of interest that is actual or potential, in respect of the RFP.
- (b) A Proponent must not attempt to influence the outcome of the RFP process by engaging in lobbying activities. Any attempt by the Proponent to communicate, for this purpose directly or indirectly with any employee, contractor or representative of the Regional District, including members of the evaluation committee and any elected officials of the Regional District, or with the media, may result in disqualification of the Proponent.

1.9 CONTRACT

By submitting a proposal, the Proponent agrees that should its proposal be successful the Proponent will enter into a Contract with the Regional District on substantially the same terms and Conditions set out in www.scrd.ca/bid and such other terms and conditions to be finalized to the satisfaction of the Regional District, if applicable.

1.10 SUSTAINABLE PROCUREMENT

The Regional District adheres to its sustainable consideration factors. Proposals will be considered not only on the total cost of services, but Proposals that addresses the environment and social factors.

1.11 INVOICING AND PAYMENT

Unless otherwise agreed, the Regional District payment terms are Net 30 days following receipt of services or approved invoices, whichever is later. Original invoices are to be forwarded to the accounts payable department of the Regional District. The purchase order number assigned by the Regional District must be stated on the invoice otherwise payment may be delayed.

1.12 PRICING, CURRENCY AND TAXES

Offered prices are to be attached as a price schedule in Canadian dollars with taxes stated separately when applicable.

1.13 IRREVOCABLE OFFER

This Proposal must be irrevocable for 90 days from the Proposal closing date and time.

1.14 TIME IS OF THE ESSENCE

Time shall be of the essence in this contract.

1.15 ASSIGNMENT

The Proponent will not, without written consent of the Regional District, assign or transfer this contract or any part thereof.

1.16 OWNERSHIP OF DOCUMENTS & FREEDOM OF INFORMATION

All documents submitted in response to this Request for Proposal shall become the property of the Regional District and as such will be subject to the disclosure provisions of the *Freedom of Information and Protection of Privacy Act* and any requirement for disclosure of all or a part of a Proposal under that Act.

The requirement for confidentiality shall not apply to any Proposal that is incorporated into a Contract for the Work. Further, the Regional District may disclose the top scoring proponent's aggregate pricing to the Regional District Board at a public meeting, when making a recommendation for the award of the Contract.

For more information on the application of the Act, go to http://www.cio.gov.bc.ca/cio/priv_leg/index.page.

1.17 AWARD OF CONTRACT

The Purchasing Policy at the Regional District offers contracts to businesses through an open, fair and consistent competitive bidding process. This ensures that the Regional District will receive the best overall value for the goods and services it requires. The Regional District reserves the right to cancel, award all or part of the scope of work described in this document to a single Proponent or may split the award with multiple Proponents.

All awards are subject to Board approval that meets the needs as determined by the Board. The Regional District, in receipt of a submission from a Proponent, may in its sole discretion consider the Proponent to have accepted the terms and conditions herein, except those expressly excluded or changed by the Proponent in writing.

The RFP shall not be construed as an agreement to purchase goods or services. The lowest priced or any proposal will not necessarily be accepted. The RFP does not commit the Regional District in any way to award a contract and that no legal relationship or obligation regarding the procurement of any good or service will be created between Regional District and the proponent unless and until Regional District and the proponent execute a written agreement for the Deliverables

1.18 COST OF PROPOSAL

The Proponent acknowledges and agrees that the Regional District will not be responsible for any costs, expenses, losses, damage or liability incurred by the Proponent as a result of or arising out submitting a Proposal for the proposed contract or the Regional District's acceptance or non-acceptance of their proposal. Further, except as expressly and specifically permitted herein, no Proponent shall have any claim for any compensation of any kind whatsoever, as a result of participating in this RFP, and by submitting a proposal each Proponent shall be deemed to have agreed that it has no claim.

1.19 PROPONENT'S RESPONSIBILITY

It is the Proponent's responsibility to ensure that the terms of reference contained herein are fully understood and to obtain any further information required for this proposal call on its own initiative. The Regional District reserves the right to share, with all proponents, all questions and answers related to this bid call.

1.20 EVALUATIONS

Proposals will be evaluated in private, including proposals that were opened and read in public, if applicable. Proposals will be assessed in accordance with the evaluation criteria.

If only one Proposal is received, the Regional District reserves the right to open the Proposal in private or if the total bid price exceeds the estimated budget for the Contract, the Regional District may cancel and re-tender, accept, not accept and cancel or re-scope the Work seeking a better response, with or without any substantive changes being made to the solicitation documents. If more than one Proposal is received from the same Proponent, the last Proposal received,

as determined by the Regional District, will be the only Proposal considered.

1.21 ACCEPTANCE OF TERMS

The submission of the Proposal constitutes the agreement of the Proponent that all of the terms and conditions of the RFP are accepted by the Proponent and incorporated in its Proposal, except those conditions and provisions which are expressly excluded and clearly stated as excluded by the Proponent's proposal.

1.22 MANDATORY REQUIREMENTS

Proposals not clearly demonstrating that they meet the mandatory requirements will receive no further consideration during the evaluation process.

1.23 INSURANCE & WCB

The Proponent shall obtain and continuously hold for the term of the contract, insurance coverage with the Regional District Listed as "Additional Insured" the minimum limits of not less than those stated below:

- (a) Commercial General Liability – not less than \$2,000,000 per occurrence
- (b) Motor Vehicle Insurance, including Bodily Injury and Property Damage in an amount no less than \$2,000,000 per accident from the Insurance Corporation of British Columbia on any licensed motor vehicles of any kind used to carry out the Work.
- (c) Error & Omissions Insurance – not less than \$5,000,000 per occurrence
- (d) A provision requiring the Insurer to give the Owners a minimum of 30 days' notice of cancellation or lapsing or any material change in the insurance policy;

The Proponent must comply with all applicable laws and bylaws within the jurisdiction of the work. The Proponent must further comply with all conditions and safety regulations of the Workers' Compensation Act of British Columbia and must be in good standing during the term of any contract entered into from this process.

1.24 COLLUSION

Except otherwise specified or as arising by reason of the provisions of these documents, no person, or corporation, other than the Proponent has or will have any interest or share in this proposal or in the proposal contract which may be completed in respect thereof. There is no collusion or arrangement between the Proponent and any other actual or prospective Proponent in connection with proposals submitted for this project and the Proponent has no knowledge of the context of other proposals and has no comparison of figures or agreement or

arrangement, express or implied, with any other party in connection with the making of the proposal.

1.25 CONFLICT OF INTEREST

Proponents shall disclose in its Proposal any actual or potential conflict of interest and existing business relationship it may have with the Regional District, its elected or appointed officials or employees.

1.26 LIABILITY FOR ERRORS

While the Regional District has used considerable efforts to ensure an acute representation of information in these bid documents, the information contained is supplied solely as a guideline for Proponents. The information is not guaranteed or warranted to be accurate by the Regional District nor is it necessarily comprehensive or exhaustive.

1.27 TRADE AGREEMENTS

This RFP is covered by trade agreements between the Regional District and other jurisdictions, including the following:

- a) Canadian Free Trade Agreement; and
- b) New West Partnership Trade Agreement.

1.28 LAW

This contract and any resultant award shall be governed by and construed in accordance with the laws of the Province of British Columbia, which shall be deemed the proper law thereof.

1.29 REPRISAL CLAUSE

Tenders will not be accepted by the Regional District from any person, corporation, or other legal entity (the "Party") if the Party, or any officer or director of a corporate Party, is, or has been within a period of two years prior to the tender closing date, engaged either directly or indirectly through another corporation or legal entity in a legal proceeding initiated in any court against the Regional District in relation to any contract with, or works or services provided to, the Regional District; and any such Party is not eligible to submit a tender.

1.30 FORCE MAJEURE (ACT OF GOD)

Neither party shall be liable for any failure of or delay in the performance of this Agreement for the period that such failure or delay is due to causes beyond its reasonable control including but not limited to acts of God, war, strikes or labour disputes, embargoes, government orders or any other force majeure event. The Regional District may terminate the Contract by notice if the event lasts for longer than 30 days.

1.31 CONFIDENTIAL INFORMATION OF PROPONENT

A proponent should identify any information in its proposal or any accompanying documentation supplied in confidence for which confidentiality is to be maintained by Regional District. The confidentiality of such information will be maintained by Regional District, except the total proposed value, which must be publicly released for all proposals, or otherwise required by the Freedom of Information and Protection of Privacy Act ("FOIPPA"), law or by order of a court or tribunal. Proponents are advised that their proposals will, as necessary, be disclosed, on a confidential basis, to advisers retained by Regional District to advise or assist with the RFP process, including the evaluation of proposals. If a proponent has any questions about the collection and use of personal information pursuant to this RFP, questions are to be submitted to the RFP Contact.

1.32 DISPUTE RESOLUTION

All unresolved disputes arising out of or in connection with this Proposal or in respect of any contractual relationship associated therewith or derived therewith shall be referred to and finally resolved by arbitration as prescribed by Mediate BC services pursuant to its rules, unless otherwise mutually agreed between the parties.

1.33 DEBRIEFING

At the conclusion of the RFP process, all Proponents will be notified. Proponents may request a debriefing meeting with the Regional District.

2. INTRODUCTION

2.1 Purpose

The Regional District invites comprehensive proposals from interested environmental Consultants for the purpose of an environmental flow needs assessment on Chapman Creek.

3. SITUATION/OVERVIEW

3.1 Background

The Regional District as the water purveyor is responsible for operating and managing the Chapman Water System which serves as the primary water source for the Sunshine Coast Regional Water Service Area. Chapman Creek, that flows through the Chapman Creek watershed, plays a vital role in supplying potable water to approximately 10,000 service connections within the region. Since the establishment of the Environmental Flow Needs (EFN) in 2016(Appendix A) under the newly enforced *Water Sustainability Act*, challenges have emerged and been intensified by climate change, necessitating a re-evaluation and optimization of the EFN to address evolving community needs and environmental considerations.

The hydraulic dynamics of Chapman Creek watershed are further influenced by two (2) headwater lakes, Chapman Lake and Edwards Lake, nestled within Tetrahedron Provincial Park—a Class A park protected under the *Park Act*. These lakes play a crucial role during low-flow summer conditions, with discharge volumes controlled by valves on concrete dam structures at Chapman and Edwards Lake. The Chapman dam, standing at three (3) meters, is fitted with a sluice gate, and its current maximum drawdown is approximately three (3) meters. Similarly, the dam at Edwards Lake allows for a drawdown of up to 863,436 cubic meters of water, equivalent to about two (2) meters of the lake's depth, under the Regional District's conditional water license. During the regular season, overflow occurs naturally until the water level drops below the dam crest during the summer, prompting the Regional District to manage the sluice gate release. This controlled flow is conveyed down Chapman Creek to the Regional District water treatment plant through the intake at Chapman Creek and to manage the EFN specified under the Water License issued by the Ministry of Water, Lands and Resource Stewardship.

The current EFN, established in 2016, was based on the available flow and habitat data at the time and did not incorporate the newly introduced EFN Policy outlined in the *Water Sustainability Act*. Operational challenges have been encountered in maintaining the current EFN year-round, prompting the need for optimization. Additionally, climate change impacts, including decreased water inflow into Chapman Creek from tributaries, increased evaporation, and decrease in groundwater contributions, have been observed. These

impacts directly influence the natural behaviour of the watershed and will be considered in future EFN assessments and decisions.

Additionally, the Sunshine Coast experienced severe drought conditions in Fall 2022. The British Columbia Drought Information Portal indicates that the region was at Drought Level 5, the highest level of drought from October 6 to November 3, 2022. These dry conditions resulted in the Regional District declaring a State of Local Emergency (SOLE) on October 17, 2022, shutting down non-essential high water using businesses. Due to the prolonged drought, the Regional District did not lift Stage 4 Water Conservation Regulations (complete ban on outdoor use of drinking water) until December 2022. The Regional District also used emergency siphon systems allowing access to lower levels of Chapman and Edwards Lakes, to supply the community with drinking water. However, during mid-November 2022, freezing conditions in the upper Chapman Watershed rendered siphons inoperable, and the Regional District worked in collaboration with Emergency Support Services BC to plan for alternate methods to provide drinking water to the community. An option to access more water supply was to implement lowering Environmental Flow Needs (EFN) in Chapman Creek from 200L/s to 160L/s, as per recommendations from biologist assessment of EFN in 2022(Appendix C).

Recent reports, as shown in Appendix B and Appendix C, have provided recommendations to the Regional District for the reduction of summer baseflow from 200 to 160L/s, particularly during June and the start of July when natural flow contributions exceed base flow conditions and 180 L/s in the months of August to September before migrating salmon are observed in the Creek. These reports provide the following recommendations:

- Implementation of an acceptable down-ramping procedure for managing the reduction in Instream Flow Requirements (IFR) for water conservation.
- Conducting stranding searches in susceptible areas of Reaches 3 and 4 (Appendix F) as part of the adaptive management approach.
- Integration of field observation and photo point documentation of habitat changes during the baseflow reduction period.
- Continuation of temperature monitoring and calculation of daily averages for summer months (June-September), with recommended triggers for releasing additional water into the lower river if necessary.
- Focus on rearing Steelhead trout and Coho salmon fry for flow considerations, with specific consideration for mitigation strategies for adult Pink Salmon during low summer periods in odd years.

Additionally, the 2022 report, initial EFN review using the BC Environmental Risk Management Framework for Chapman Creek (WSC: 900-120400) (Appendix C), highlights the importance of a precautionary approach and the development of an Adaptive Management Plan (AMP) to address potential habitat reductions and mitigate adverse impacts on fish and habitat. An AMP is requested by provincial regulators and has been approved by the Regional District Board for development, further emphasizing the need

for comprehensive assessment and adaptive management strategies in the Chapman Creek watershed.

3.2 Project Objectives

The primary objective of this project is to enhance our understanding of the environmental impacts of low flows within Chapman Creek through the creation of an Adaptive Management Plan (AMP). The aim is to develop defensible, transparent, and robust Environmental Flow Needs (EFN) values as per the BC Environmental Flow Needs Risk Assessment Framework under the BC Environmental Flow Needs Policy. Specifically, the assessment will focus on identifying critical flow levels necessary to sustain ecological systems within the river system, while ensuring the management of current and potential future water allocations. Additionally, the assessment will ensure that lower limit thresholds are appropriately managed to maintain the ecological integrity of Chapman Creek.

3.3 Scope

3.3.1 Task One: Developing an Adaptive Management Plan

The Consultant will:

- 1) Develop a comprehensive AMP to optimize Environmental Flow during periods of low flow and assess and recommend monthly EFN requirements using EFN risk assessment methodology given new data as described in the BC Provincial EFN policy, February 2016. The AMP will consider the:
 - a. Develop a risk management rating for Chapman Creek in accordance with the [BC EFN Risk Assessment Framework within the Environmental Flow Needs Policy](#) and industry best practices.
 - b. Incorporating the impacts of climate change on the Chapman watershed into a new EFN regime. Extreme drought scenarios that result in extended drought periods should be explored. A full annual assessment of flow conditions should be undertaken with consideration for the impacts of extreme weather conditions.
 - c. Accumulating and assessing previously collected data from parallel studies that may be applicable to the AMP.
 - d. Establishing hydrometric stations, as required and approved by the Regional District and MWLRS, to gather adequate hydrometric data to inform the EFN development.
 - e. Train the Regional District staff to maintain the data and calibrate any new stations to maintain data quality and accuracy.

- 2) Develop instream flow thresholds for Chapman Creek using the guidelines set by 2003 Development of instream flow thresholds as guidelines for reviewing proposed water uses by [Hatfield et al.](#) In addition, the following will be considered:
 - a. Prescribing low flow discharges from the Point of Diversion, measured at the Regional District hydrometric station, monthly for the whole year.
 - b. Identifying areas with flow sensitivity based on 30-day baseflows in one (1) of two (2) yr frequency that $\leq 20\%$ LT MAD (Long Term (LT) Mean Annual Discharge (MAD)) from the whole year.
 - c. Additional summaries as required to support recommendations and as directed by the Ministry of Water, Lands and Resource Sustainability (MWLRS).
- 3) Through the use of aerial/satellite imagery, stratify the length of stream from the ocean to fish barrier according to potential areas of fish habitat value, rearing /spawning sites and areas highly susceptible / sensitive to low flow sensitivity. The 2021 atmospheric river may have changed some geomorphology of the creek. The Consultant will be responsible for assessing any new fish barriers that impede fish passage. The Consultant will work with the Regional District Geographic Information Services (GIS) department to ensure the geospatial data can be stored within the Regional District server.
- 4) Develop and design a comprehensive monitoring program that satisfies the requirements of an engineer under the *Water Sustainability Act* within the MWLRS. The program will focus on collecting data to assess the impacts of flow alterations on key environmental components, including surface water flows, surface water quality, and fish and fish habitat.
- 5) Engage with rights-holders and stakeholders as required, including but not limited to the Regional District, regulatory agencies, Indigenous communities, NGO's and local community, to gather input, address concerns, and incorporate local knowledge into the assessment process.
 - a. Rights-holders: shíshálh Nation
 - b. Main regulatory agency: Ministry of Water, Lands, Resource Sustainability.
 - c. Stakeholders: Sunshine Coast Salmon Enhancement Society (Chapman Creek Hatchery), local environmental groups and advisory committees as identified by the Regional District.

- 6) Develop an Adaptive Management Plan with the review and input of the shíshálh Nation and the Regional District, respecting the cultural importance of Chapman Creek and the long-term survival of Steelhead and Coho populations. The project will be completed in an equal partnership with the shíshálh Nation, given the cultural significance of the watershed.

3.3.2 Additional Work: Task Two: Compliance Monitoring

At the sole discretion of the Regional District the Regional District may request the Contractor to perform Task 2, the completion of Task 2 is subject to the acceptance of Task 1, Development of the AMP, by the MWRLS Water Manager.

The scope of work described below is an approximation on the work that may be required once the AMP is finalized and approved. The Consultant would need to:

- 1) Collect monitoring data on a monthly or more frequent basis for a period of two (2) years to continually develop the dataset time series. Adjust data collection frequency based on the project objectives and anticipated projections from the threshold values developed in Task 1.
- 2) Evaluate collected data to assess whether thresholds have been met or are likely to be met prior to the next monitoring round. Compare and evaluate data against project objectives and conceptual model projections and provide reporting as required.
- 3) Prepare comprehensive reports, as specified in Section 4.4 Service Requirements, detailing any changes made to operations or management strategies based on monitoring findings. Make recommendations for adjustments to the monitoring program, such as changes in frequency or components. Present results of verification monitoring of hydrometric station rating curve and maintenance activities undertaken throughout the study period in the form of a short form technical memo.
- 4) Share data and report on a predetermined schedule which includes but is not limited to the:
 - a. Provide monthly summary memoranda to the Regional District and Rightsholders within two (2) weeks of data collection.
 - b. Submission of routine monitoring reports to primary stakeholders. Schedule and specifications for the monitoring will be developed in Task 2 as described in section 4.4 Servicing Requirements, 4.4.2 Task Two: Compliance Monitoring.

- c. Provide all monitoring data and reports available to relevant regulatory agencies, rights-holders and stakeholders upon request.
- 5) Engagement with First Nations (shíshálh Nation). The shíshálh staff will need to be included to assist with the required environmental monitoring, where available. Furthermore, the Consultant will provide environmental monitoring training and/or certification to shíshálh Nation staff members as well as offer environmental training, focusing on Environmental Monitoring (EM) and including training material on legislation and regulatory affairs, communication, technical writing, reporting, site management, water quality and management, fish and wildlife, and vegetation.

4. CONTRACT

4.1 General Contract Terms and Conditions

Proponents should review carefully the terms and conditions set out in the General Service Contract, including the Schedules. The General Contract terms can be found at: Information about our General Service Terms and Conditions can be found at www.scrd.ca/bid.

4.2 Term

The term of the agreement will be the completion of Task One with the option to extend the services up to an additional two (2) year if the ministry requires additional EFN monitoring services, the extension will be at the sole discretion of the Regional District.

4.3 Project Schedule

The Regional Districts preliminary project schedule is as follows:

Task 1: Develop an Adaptive Management Plan

| | |
|--|-------------------|
| Complete data analysis | February 1, 2025 |
| Send draft AMP to Regional District staff | February 15, 2025 |
| Submit AMP to shíshálh Nation and MWLRS | March 15, 2025 |
| Present finalized AMP to Regional District board once adopted by MWLRS | April 15, 2025 |

Task 2: Compliance Monitoring (one (1) year in duration minimum)

| | |
|------------------|--------------|
| Initiate Task 2 | May 1, 2025 |
| Provide training | May 15, 2025 |

| | |
|---|---------------------------|
| Execute Compliance Monitoring | June 1 - October 31, 2025 |
| Submit draft AMP report amendments to the Regional District | November 20, 2025 |
| Submit final AMP report amendments to MWLRS | January 1, 2026 |
| Execute Compliance Monitoring | June 1 - October 31, 2026 |
| Submit draft AMP report amendments to the Regional District | November 20, 2026 |
| Submit final AMP report amendments to MWLRS | January 1, 2027 |
| Work with Regional District and MWLRS to finalize water license amendment | February 2027 |

4.4 Service Requirements

4.4.1 Task One: Developing an Adaptive Management Plan

The Consultant will:

1. Be responsible for obtaining all necessary permits.
2. Develop a risk management rating for Chapman Creek in accordance with the BC EFN Risk Assessment Framework within the Environmental Flow Needs Policy.
3. If risk rating of three (3) or above is achieved provide notification to Fisheries and Oceans Canada (DFO).
4. Draft a comprehensive AMP. The development of the AMP should at a minimum:
 - a. Be developed to implement and establish monthly EFN requirements.
 - b. Set instream flow thresholds based on good-quality streamflow data and completing additional fish and fish habitat assessments.
 - c. Identify ecological and fish habitat sensitive areas.
 - d. These adaptive management initiatives will need to be incorporated to the AMP:
 - i. Surface water quantity(streamflow).
 - ii. Surface water quality.
 - iii. Surface water temperature.
 - e. Incorporate rights-holder and stakeholder input.
5. Develop a monitoring plan to be included in the AMP outlining requirements for ongoing monitoring for a period of two (2) years.

6. The draft report is to be submitted to Regional District for approval.
7. Ensure shíshálh Nation is engaged and has the opportunity to provide input at every milestone of the project.
8. Hold regular meetings and communication with the Regional District and MWLRS. It is anticipated that there will be at least 10-12 meetings with the Regional District and MWLRS and be prepared for multiple iterations of the Draft AMP.
9. Align with the Water Sustainability Act (WSA) for consultation and notification requirements for Rights-holders and ensure the engagement is consistent with WSA requirements, especially regarding Environmental Flow Needs (EFNs).
10. Following Regional District approval, provide the final AMP to all regulatory agencies and rights-holders.
11. Provide a presentation to the Regional District Board of Directors once the AMP has been finalized.
12. Host an open house to facilitate communication and collaboration with stakeholders, including the Regional District.
13. Provide environmental training to the shishalh Nation, focusing on environmental monitoring (EM). The training should cover topics such as legislation and regulatory affairs, communication, technical writing, site management, erosion and sediment control, spill prevention and response, water quality and management, fish and wildlife, and vegetation.

4.4.2 Task Two: Compliance Monitoring

Upon request from the Regional District the Consultant will provide:

1. Provide a workplan for the installation of additional hydrometric station, if identified in Task 1 at the sole discretion of the Regional District.
2. Data Collection and Reporting. This will include the preparation of short monthly summary memoranda within two (2) weeks of each monitoring period, including summarized results, concerns, and recommendations, supplemented by graphical representations assessing threshold compliance.
3. Provide monthly technical memorandums detailing operational, or management strategy changes based on monitoring findings, complete with

analyses and graphical representations. The report will include the following at a minimum:

- a. Recommendations for adjustments to the monitoring program, presented in a formal report format with supporting data and graphs.
- b. Presentation of verification monitoring results of hydrometric station rating curve and maintenance activities conducted throughout the study period, documented in a detailed technical report supplemented with graphical representations.

4. Data Sharing and Reporting on a Schedule. This will include:

- a. Monthly summary memorandas provided to the Rights-holders once the draft has been approved by the Regional District.
- b. Submission of routine monitoring reports to the shíshálh Nation and MWLRS according to specified intervals that are to be outlined in Task 1 development of the AMP, compiled in formal report format with accompanying graphs and data tables.
- c. Availability of monitoring data and reports to relevant regulatory agencies, rights-holders and stakeholders upon request, facilitated through an organized data repository and reporting system.

4.4.3 Risk Management

The Consultant will be required to have and maintain a comprehensive risk management plan throughout the term of the contract that will identify potential project risks and mitigation strategies. The plan will include contingency measures to address unforeseen challenges and ensure project success.

4.4.4 Quality Assurance and Quality Control (QA/QC)

The Consultant will be required to:

1. Implement rigorous QA/QC protocols to maintain data integrity and reliability throughout the entire project.
2. Maintain detailed procedures for data validation, and documentation to uphold high standards of quality assurance.

4.4.5 Regulatory Oversight

The Consultant will be required to obtain all necessary permits for the project and engage with regulatory agencies in a timely manner. This includes determining the need for notification to Fisheries and Oceans Canada and ensuring that permits are obtained within a reasonable timeframe that aligns with the project timeline.

4.4.6 Data Collection and Analysis

The Consultant will:

1. Provide detailed methodologies for data collection, including stream flow measurements, water quality analysis, and habitat assessments.
2. Outline procedures for data analysis, interpretation, and reporting, ensuring accuracy and reliability.
3. Ensure that the data is provided to the Regional District in RAW format, ensuring accessibility and ease of analysis. Data will not be limited to PDF documents but will be available in a format that allows for manipulation and further analysis.
4. Ensure that tools developed for data tracking and modeling are freely used and modified by the Regional District in the future, ensuring continued adaptability and effectiveness of monitoring and management efforts.

4.4.7 Compliance Monitoring Framework

The Consultant will:

1. Design a robust compliance monitoring framework that aligns with regulatory requirements and project objectives.
2. Specify monitoring parameters, frequency, and reporting mechanisms to ensure effective oversight and accountability.
3. Host an engagement open house to provide stakeholders with an opportunity to learn about the compliance monitoring process, ask questions, and provide input.

4.5 Reporting Requirements

The Consultant will need to address these reporting requirements at a minimum.

Task 1: Development of the Adaptive Management Plan (AMP)

1. Adaptive Management Plan (AMP) Report
 - a. Project scope, objectives.
 - b. Adaptive Management Framework: Detail the adaptive management cycle, including planning, implementation, monitoring, evaluation, and adjustments.
 - c. Decision-making criteria for adjusting EFN management and threshold values.

- d. Risk assessment summary and mitigation strategies.
 - e. Stakeholder and Rights-holder involvement: Describe the role of stakeholders and rights-holders in the adaptive management process.
 - f. Implementation plan: Provide a detailed plan for the execution of the AMP, including timelines, responsibilities, and resource allocation.
2. Monitoring Plan Report (Appended to the AMP)
 - a. Monitoring objectives: Define the specific EFN indicators to be monitored.
 - b. Methodologies: Describe the methodologies for data collection, including site selection, frequency, and data management protocols.
 - c. Data quality assurance protocols.
 - d. Reporting frequency and format.
 - e. Integration of monitoring data into the AMP's decision-making process.
3. Stakeholder Engagement Report (Appended to the AMP)
 - a. Stakeholder identification and engagement strategy.
 - b. Summary of feedback and its integration into the AMP.
 - c. Plan for ongoing stakeholder engagement.
4. Executive Summary: Provide a high-level summary of the AMP and its outcomes for non-technical audiences.
 - a. Overview of the project's objectives, process, and key findings.
 - b. Summary of EFN compliance and adaptive management outcomes.
 - c. High-level recommendations and next steps

Task 2: Implementation of the AMP and Compliance Monitoring

1. Annual and Interim Reporting: Provide regular updates on the progress and performance of the AMP.
 - a. Summary of monitoring results, including data comparison with EFN targets.
 - b. Identification of trends, issues, or deviations from the plan.
 - c. Documentation of any adaptive management actions taken.
 - d. Updates on stakeholder and rights-holder engagement and any feedback received.
 - e. Plans for the upcoming reporting period.
2. Final Report
 - a. Comprehensive review of the entire AMP process and its effectiveness in achieving EFN objectives.
 - b. Detailed evaluation of the results from the monitoring plan.
 - c. Analysis of the adaptive management actions and their outcomes.
 - d. Recommendations for future EFN management based on the project's findings.
 - e. Documentation of the final stakeholder and rights-holders engagement outcomes.

The Regional District will need to first receive a draft of all reports, technical memorandums and monitoring reports prior to being submitted to any stakeholders. Distribution of these documents to any third-party outside the Regional District requires explicit permission from the Regional District.

4.6 Related Documents

- Appendix A: Review of low summer flow on salmonid habitat/passage in Chapman Creek, FSCI Biological Consultant, 2016
- Appendix B: Chapman Creek Low Flow Assessment and Potential Impacts/Benefits to Rearing Salmonids, FSCI Biological Consultants, 2021
- Appendix C: Initial Environmental Flow Needs (EFN) review using the BC Environmental Risk Management Framework for Chapman Creek (WSC: 900-120400), FSCI Biological Consultants, 2022
- Appendix D: Proposed Chapman Creek Low Summer Flow Mitigation Plan for Odd Year Pink Salmon (*Oncorhynchus gorbuscha*) Returns, FSCI Biological Consultants, 2023
- Appendix E: Proposed Chapman Creek Monitoring Plan for EFN Reduction in 2023, FSCI Biological Consultants, 2023
- Appendix F: Maps of the Study area and Lower Reaches

5. REQUIREMENTS

In order for a proposal to be considered, a Proponent must clearly demonstrate that they meet the mandatory requirements set out in Section 7.1 (Mandatory Criteria) of the RFP.

This section includes “Response Guidelines” which are intended to assist Proponents in the development of their proposals in respect of the weighted criteria set out in Section 7.2 of the RFP. The Response Guidelines are not intended to be comprehensive. Proponents should use their own judgement in determining what information to provide to demonstrate that the Proponent meets or exceeds the Regional District’s expectations.

Please address each of the following items in your proposal in the order presented. **Proponents may find it helpful to use the individual Response Guidelines as headings for proposal responses.**

5.1 Capabilities

Proponents need to demonstrate that their and proposed team, including subcontractors and specialists, have the necessary technical and managerial background and experience to carry out the requirements of this project.

5.1.1 Project Team Experience

Proponents need to provide an organization chart for the team and provide resumes of one (1) page (maximum) per key individual detailing who will be assigned responsibility for each component of the work.

The Proponent's key team members should have experience performing activities proposed. List staff and/or subcontractor, who will be assigned to each component, and include their related experience. The subsequent substitution of staff and/or subcontractors shall be submitted in writing for review and approval by the Regional District. Acceptance of staff and/or subconsultant substitutions will be at the sole discretion of the Regional District.

5.1.2 Qualifications

The project team must be comprised of the following:

- a) Environmental Professional (QEP) that is a Registered Professional Biologist (RPBio) under the College of Applied Biologists.

The project team needs to have at a minimum:

- a) Hydrotechnical Engineer that is a registered Professional Engineer (P.Eng) under Engineers and Geoscientist BC.
- b) A qualified hydrologist that is a registered Professional Geoscientist (P.Geo) under Engineers and Geoscientist BC or has a similar designation.
- c) A Registered Professional Biologist (RPBio) under the College of Applied Biologists with fisheries experience.

5.1.3 Subcontractors

Proponents need to identify any subcontractors that they will use to perform work under this project and their associated tasks. The Proponents subcontractor should have at least one (1) reference from a recent project for either a municipality or professional engineering firm.

5.1.4 Relevant Experience

The Proponent and any subcontractors of the Proponent included in its proposal should have a minimum of five (5) years within the past 20 years providing services of a similar scope and complexity. Similar scope and complexity is defined as

- a) Expertise in water resource management.
- b) Fish habitat assessment.
- c) Streamflow assessment.

- d) Environmental monitoring.
- e) Implementing adaptive management plans and conducting compliance monitoring in accordance with regulatory standards.
- f) Working with multiple stakeholders.
- g) Engaging and working with First Nations communities is preferred.

5.1.5 References

Proponents need to provide a minimum of three (3) references (i.e. names and contact information) of individuals who can verify the quality of work provided specific to the relevant experience of the Proponent and of any subcontractors named in the proposal. References from the Proponent's own organization or from named subcontractors are not acceptable.

The Regional District reserves the right to seek additional references independent of those supplied by the Proponent, including internal references in relation to the Proponent's and any subcontractor's performance under any past or current contracts with the Regional District or other verifications as are deemed necessary by it to verify the information contained in the proposal and to confirm the suitability of the Proponent.

5.1.6 Reference Projects

Proponents need to include a list of three (3) similar projects completed by the Proponent including details of which projects were undertaken by members of the proposed project team and include a brief outline of the project and its relevance to this project. It is preferred that the reference projects connect to the references requested in item 5.1.5.

Preference will be given to Proponents with multiple recent projects of similar scope and to Proponents whose similar projects were completed by the team members proposed for the Regional District's project.

5.1.7 Sample Adaptive Management Plan

Proponents should also include a sample Adaptive Management Plan for one (1) of their reference projects listed in item 5.1.6. The sample plan should be clear and easy to understand and represent a sample of the Regional District's parameters of interest.

5.1.8 Environmental Requirements

Proponents need to demonstrate that they have an understanding of the environmental requirements required to perform the services. Proponents should

provide details on what (if any) environmental regulations and/or process they will follow to ensure compliance with minimal impact on our environment.

5.2 Approach

5.2.1 General

Proponents need to provide their approach and methodology that demonstrates their ability to perform the services in a timely and efficient manner. Proponents need to provide a clear grasp of the project scope and issues and should:

- a) Demonstrate their understanding of the scope of services and key issues.
- b) Outline their approach to address scope of services and strategy to manage key issues.
- c) Include measures to ensure health and safety.
- d) Identify quality assurance and quality control measures and applicable guidelines.
- e) Include a work breakdown structure.
- f) Layout the plan to accomplish the project including timelines and key milestones and deliverables.
- g) Identify challenges, constraints and obstacles in the project and advise on the strategy to minimize the challenges.
- h) Identify ways your firm's approach will add value to the project.
- i) Identify any proposed variations to the scope of work.
- j) Highlight the benefits and/or capital cost savings from varying the Scope of Service.

5.2.2 Tasks

Proponents need to provide a clear approach for each task (including the additional work task) described that is in alignment with industry best practices and relevant regulations. Consideration of extreme drought conditions and climate change scenarios.

5.2.3 Risk Management

Proponents should provide details on their risk management plan and approach to identify potential project risks and mitigation strategies. This plan should include identification of Project Specific Risks, evaluation of risks, mitigation, monitoring of risks, contingency measures to address unforeseen challenges and ensure project success.

5.3 Project Management

5.3.1 General

Proponent should provide a clear and concise description of their Project Management Plan with sufficient content and detail that describes how they intend to document and monitor the project progress. Proponents should demonstrate their capacity for efficiency and should provide specific details should be provided that demonstrate how the Proponent will control the scope, schedule, and consulting costs.

5.3.2 Schedule and Commitment

Proponents need to provide a project schedule in a form of a Gantt chart with key milestone tasks and associated time allocated to each phase.

Proponents' corporate commitment to completing this Project within the scope, budget and timelines. Proponents need to provide details of current and other potential commitments of key team members and assurance that the staff proposed for the work will have sufficient time availability to fulfil their commitment(s) and/or contingency plans to ensure that their role will be adequately covered.

5.4 Sustainable Social Procurement

A factor in the Regional District evaluation process is sustainable social procurement and the evaluation of proposals will take this into consideration.

As part of any submission the Proponent is encouraged to identify how they may contribute to the following key social, employment and economical goals, but not limited to the following:

- a) Contribute to a stronger local economy by:
 - promoting a Living Wage
 - Using fair employment practices;
 - Increase training and apprenticeship opportunities;
- b) Local expertise knowledge by:
 - Utilization of local subcontractors;
- c) Environmental Cost of Ownership;
- d) Energy efficient products;
- e) Minimal or environmental friendly use of packing materials; and
- f) Reducing hazardous materials (toxics and ozone depleting substances).

5.5 Value Add

Proponents need to provide details about any value-added services that they are offering in connection with this project. Value-added is considered to be additional offerings that are of no additional cost. Added value considerations could be but is not limited to innovations to complete the work more efficiently and effectively, discounts, additional services being included as part of the base scope of work, training and education programs, scheduling efficiencies, etc.

5.6 Price

Proponents need to submit a fee proposal that sets out the separate costs for each task (including the additional work task) described as well as an all-inclusive cost for all the projects; the proposal should include a breakdown of the fix prices including time, travel, hourly billable rates and material costs.

Prices quoted will be deemed to be:

- in Canadian dollars ;
- inclusive of duty, FOB destination, and delivery charges where applicable; and
- exclusive of any applicable taxes.

6. PROPOSAL FORMAT

Proponents should ensure that they fully respond to all requirements in the RFP in order to receive full consideration during evaluation.

The following format, sequence, and instructions should be followed in order to provide consistency in Proponent response and ensure each proposal receives full consideration. All pages should be consecutively numbered.

- a) Signed cover page (see section 7.1 Mandatory Criteria).
- b) Table of contents including page numbers.
- c) A short (one or two page) summary of the key features of the proposal.
- d) The body of the proposal, including pricing, i.e. the "Proponent Response".
- e) Appendices, appropriately tabbed and referenced.
- f) Identification of Proponent (legal name)
- g) Identification of Proponent contact (if different from the authorized representative) and contact information.

7. EVALUATION

Evaluation of proposals will be by a committee formed by the Regional District and may include other employees and contractors.

The Regional District's intent is to enter into a Contract with the Proponent who has met all mandatory criteria and minimum scores (if any) and who has the highest overall ranking.

Proposals will be assessed in accordance with the entire requirement of the RFP, including mandatory and weighted criteria.

The Regional District reserves the right to be the sole judge of a qualified proponent.

The Evaluation Committee may, at its discretion, request clarifications or additional information from a Proponent with respect to any Proposal, and the Evaluation Committee may make such requests to only selected Proponents. The Evaluation Committee may consider such clarification or additional information in evaluating a Proposal.

7.1 Mandatory Criteria

Proposals not clearly demonstrating that they meet the following mandatory criteria will be excluded from further consideration during the evaluation process.

| Mandatory Criteria |
|---|
| The proposal must be received at the Closing Location before the Closing Time. |
| The proposal must be in English. |
| The proposal must be submitted using one of the submission methods set out on the cover page of the RFP |
| The proposal must either (1) include a copy of the Confirmation of Proponent's Intent to be Bound that is signed by an authorized representative of the Proponent, this is also required for email submissions or (2) be submitted by using the e-bidding key on BC Bid (if applicable), in accordance with the requirements set out in the RFP |
| Qualified Environmental Professional that is a Registered Professional Biologist (RPBio) under the College of Applied Biologists. |

7.2 Weighted Criteria

Proposals meeting all of the mandatory criteria will be further assessed against the following weighted criteria.

| Weighted Criteria | Weight (%) |
|---------------------------------|-------------------|
| Capabilities | 30 |
| Approach | 25 |
| Project Management and Schedule | 15 |
| Sustainable Social Procurement | 5 |
| Value Add | 5 |
| Price | 20 |
| TOTAL | 100 |

7.3 Price Evaluation

The lowest priced Proposal will receive full points for pricing. All other prices will be scored using the following formula: lowest priced proposal/price of this proposal* total points available for price.

Appendix A Review of Low Summer Flow

(provided as a separate document)

Appendix B Chapman Lake Low Flow Assessment and Potential Impacts / Benefits to Rearing Salmonids

(provided as a separate document)

Appendix C Initial Environmental Flow Needs Review

(provided as a separate document)

Appendix D Proposed Chapman Creek low Summer flow Mitigation Plan for Odd Year Pink Salmon

(provided as a separate document)

Appendix E Proposed Champman Creek Monitoring Plan for EFN Reduction

(provided as a separate document)

Appendix F Maps of the Study Area and Lower Reaches (provided as a separate document)