Question 1:	Specification Section 31 32 23 Foundation Grouting, Paragraph 2.2.5 Source Quality Control states in part “The Contractor shall perform sufficient number of Trial Batches of each planned grout mix, including admixtures, using the proposed equipment to establish base line reference data…” Please confirm that all ingredients required for the Trial Batches will be paid for using the unit price bid items. If not, please identify the minimum number of trial batches of each grout mix are required so that material costs can be included in our pricing.
Answer 1:	Contractor is not paid for trial batches. Contractor may have reference data for some or all grout mix depending on his experience with tixotropic admixture.

Question 2:	Specification Section 31 32 23 Foundation Grouting, Paragraph 3.1.12 Preparation states in part “Grout may be mixed in a central plant and pumped to an agitated sump at a second pumping plant which shall be located not more than 50 m from the hole.” Grouts have successfully been pumped to holes distances exceeding 250 m. Please consider revising the pumping distance to the hole to a maximum of 200 m.
Answer 2 :	Please consider a maximum distance of 50 m. Use of tixotropic admixture is dosage up to 200g/per 20kg of cement is expected to produce a grout impossible to pump over the requested distance of 200m at acceptable pressure.

Question 3:	Specification Section 31 32 23 Foundation Grouting, Paragraph 3.1.16 Consolidation Grouting. The sequencing of work and effort required to perform consolidation grouting will differ from curtain grouting. Is consolidation grouting required, and if so, how will the Contractor be compensated for consolidation grouting?
Answer 3:	If consolidation is required, it is expected to be in limited area as part of the foundation treatment. Payment for consolidation grouting will be made like the curtain grouting: as per the grouting most appropriate bid item unit price.

Question 4:	Specification Section 31 32 23 Foundation Grouting, Paragraph 3.1.17.4 Curtain Grouting. Please identify the length of each grouting stage required in each of the grout holes, or will holes be grouted over their entire length as a single stage?
Answer 4:	Grouting stage range from 3 to 5m. Typical curtain hole are 8m and will be grouted in 2 stages.

Question 5:	Specification Section 31 32 23 Foundation Grouting, Paragraph 3.1.18.15 Grouting Procedure states “Where the water pressure test in a single stage indicates a permeability less than 3 Lugeons, the Departmental Representative may recommend that the stage need not be grouted separately but may be grouted with the next above stage.?” In instances

	where this occurs, and 2 grout stages are combined into a single longer stage, please confirm that the Contractor would be compensated for 2 successful grouting stages under unit price item 37.
Answer 5:	The successful grouting stage is defined with the refusal criteria art. 3.1.18.20. In the particular mentioned example, Only 1 grouting stage would be paid and the Water test would be pay by hour.

Question 6:	Can the contractor change the construction methodology at tender time for the void treatment as shown on drawing #201?
Answer 6:	The contractor is expected to prepare their bid based on the posted tender documents. PWGSC may accept “value added proposals” (VAPs) from the Contractor after award of contract through the duration of the contract (as specified in the Bid and Acceptance of the tender document). Any VAP must include the information outlined in the Value Added Proposal Submittal Documentation and submitted in accordance with Submittal Instructions, after contract award.

Question 7:	Can the video inspection related to appendix APP S4 be provided for review by bidders?
Answer 7:	Yes, bidders will be able to access relevant dive videos under Specifications_appendices_videos_part - 4

Question 8:	Can you please provide the maximum load capacity on the existing dam?
Answer 8:	Maximum factored uniformly distributed load: 9 kPa Maximum factored concentrated load: 21 kN Before using the existing dam’s deck contractor must preform the visual inspection of the deck, underside and bearing points as per section 01 71 00 of the technical specifications

Question 9:	Can you please clarify what is to be included in Payment Item #23 “Concrete works Sluiceway sills including embedded steel”? Drawing #301.1 shows the sill as circular arc of the radius and stops at the middle of the pier but the cross sections on drawing #301.3 show the construction joint parallel to the downstream face of the piers.
Answer 9:	The lines shown on drawing 301.1 represent the changes in the sill’s profile, as shown on drawing 301.3. The sill has a length of 10.0 m and includes all concrete above the horizontal construction joint (including rebar, forming and finishing and other incidentals) and embedded steel includes the stoplog sill beams, embedded steel angles on the downstream edge and all other incidentals.

Question 10:	Can you clarify the purpose of the steel nosing to be installed in Phase 1 as shown on drawing #203? If the purpose is to install the temporary bulkhead, can the bidder elect to adjust the design in order to lower the cost for the client?
Answer 10:	The steel nosing serves as a guide for the installation of the steel bulkhead considering the state of the existing piers concrete. The contractor is expected to prepare their bid based on the posted tender documents. PWGSC may accept “value added proposals” (VAPs) from the Contractor after award of contract through the duration of the contract (as specified in the Bid and Acceptance of the tender document). Any VAP must include the information outlined in the Value Added Proposal Submittal Documentation and submitted in accordance with Submittal Instructions, after contract award.

Question 11:	Subsection 2.4.4 of the Section 35 20 17.01 of the tender specifications refer to heating elements to be installed on passageways 8 to 12. Can drawings be provided for those elements?
Answer 11:	Heating elements are presented as performance specification on drawing 202 and paragraph 2.4.4. of section 35 20 17.01 of the technical specifications. The Contractor can choose to use heating elements that complies with the stated specifications.

Question 12:	Subsection 1.6.1 of the Sect5ion 01 51 00 refers to the use of temporary gain heaters. Can you please clarify the requirements and provide drawings for those units?
Answer 12:	Heating elements are presented as performance specification on drawing 202 and paragraph 2.4.4. of section 35 20 17.01 of the technical specifications. The Contractor can choose to use heating elements that complies with the stated specifications.

Question 13:	Can you please clarify if ongoing projects more than 50% completed are acceptable as reference projects of heavy civil marine construction project as experience for bidder in the technical proposition?
Answer 13:	Bidders are expected to provide examples of projects successfully completed by the Bidder within the last ten (10) years, as per the tender documents. Projects which demonstrate they have reached **substantial completion** will be considered as **completed**.

Question 14:	Section 01 14 00, 1.8.6 "Special Requirements" of the Contract Specifications states that no in-water work can occur during the fish spawning period between March 15th and June 30th. This statement is repeated again in Section 01 35 43, 1.8.1 "Aquatic Life Protection". However, Section 01 32

	16.07, 1.3.6.1 "Requirements" states that no in-water work is to occur between March 15th and July 15th. Please clarify which is correct.
Answer 14:	The correct in water work restriction period is March 15th to June 30th inclusively. Specification section 01 32 16.07 Remove paragraph 1.3.6.1 and replace with new paragraph 1.3.6.1 as follows "Due to the fish spawning season in water work is not allowed between March 15th and June 30th, inclusively. As such, the Contractor cannot build or remove cofferdams or perform other work in the waterway within this period. This restriction also applies to any work involving movement of equipment in the water during this period"

Question 15:	Section 01 14 00, 1.12 "Critical Project Dates" of the Contract Specifications states that the deadline for substantial completion for the project is August 1, 2023. The "Bid and Acceptance Form" (page 13 of 30 of the tender) states that the project must be completed by November 2023. Please clarify which is correct. In reference to the question above, if November 2023 is correct, are we to assume that means the completion date is November 1, 2023?
Answer 15:	Work is expected to be substantially completed by August 1, 2023. Final completion date of all work including deficiencies and contract close-out is expected no later than November 1, 2023. There should be ample time for the successful bidder to complete all work within this timeframe, and extensions of time beyond November 1, 2023 cannot be entertained.