Federal Government Contaminated Sites
Project Overview

BEST Workshop
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Public Services and Procurement Canada
Pacific Region – BC and Yukon
May 10, 2019
Presentation Overview

• Program of Work FY2019-20
• Types of Work
• PSPC Contracting
  – Consulting Contracts
  – Construction Contracts
Work Volumes for FY2019-20

- ECCC, PEC Site: $12M
- TC-Pacific Region, BC: $15M
- TC-Prairie Northern Region, Yukon Airports: $2M
- PSPC, Esquimalt Graving Dock: $2M
- PSPC, Alaska Highway: $15M
- DND, Comox: $3M
- DND, Esquimalt Uplands: $3M
- DND, Harbour Work: $35M
Types of Work

• **Consulting CTAs**
  – CS Characterization Services
  – CS Remediation Services
  – CS Risk Assessment Services
  – CS Marine Sediments Services
  – ES Laboratory Services

• **Construction Contracts**
  – Excavation and Offsite Treatment/Disposal
  – Excavation and Onsite Bioremediation
  – Pump and Treat
  – Insitu Remediation
  – Permeable Reactive Barrier Wall
  – Dredging
CS Characterization

- Phase 1/PSI-Stage 1
- Preliminary Assessment
  - Archaeological
  - Species At Risk
- Phase 2/PSI-Stage 2, DSI
- Remedial Options Analysis
- Site Closure
- Federal Reporting
  - National Classification Scoring
  - Estimate of Liability
CS Remediation

- Supplemental Investigations
  - Geotechnical
  - Groundwater Modelling
- Specifications
  - National Master Specifications
- Construction Monitoring
  - Not Owner’s Representative
- Confirmatory Sampling
- Environmental Monitoring
  - Spills
  - Water Quality
  - Air/Dust
- Post-Remediation Monitoring
CS Risk Assessment

- Data Gap analysis
- Background Concentrations
- Tier 2 CCME Standards
- Screening Level RA
- Preliminary Quantitative RA
- Detailed RA
- Species At Risk of particular concern

Hemiphilia glandulosa², Warty Jumping-slug, Invertebrate Animal (Slug), Red 1, Special Concern
CS Marine Sediments

• Investigations
  – Archaeological
  – UXO

• Remediation
  – Dredging Residuals
  – Water Quality Monitoring

• Risk Assessment
  – Tissue Sampling
  – Sediment transport
  – SWAC

• First Nations Engagement
  – Traditional consumption
  – Assistance in work
Excavation and Offsite Treatment/Disposal

- Design-Build for shoring/sloping
- Offsite Disposal Requirements
  - Be an existing facility
  - Be specifically designed for treatment/disposal
  - Hold a valid permit
  - Comply with applicable requirements
- Contractor responsible for providing documentation
  - Letter from facility
  - Copy of Permit
  - Letter from Qualified Professional
Excavation and Onsite Bioremediation

- Design-Build for Land Treatment Facility
- Several existing facilities
  - Whitehorse Airport
  - Watson Lake Airport
  - Fireside Camp
  - Muncho Lake Pit
  - Stringer Creek Pit
  - Sikanni Camp
- Unit rate based
  - Pay for hours of aeration and quantities removed
  - Contractor not responsible for performance
Pump and Treat

- Used at sites where hydrocarbon contamination exists at depth or under structures
- Existing systems at Whitehorse Airport and Liard Camp
- Not intended for full numerical – in conjunction with risk assessment
- Systems are multiphase injection/extraction
  - Remotely monitored and controlled
  - Operate in extreme cold
Insitu Remediation

- Used at sites where hydrocarbon contamination extends 10m to 30m BGS
- Performed at two sites along AH
- Based on detailed investigation using Laser Induced Fluorescence
- Grid pattern and injection depths provided
- Hydrogen Peroxide concentrations provided
- Injection methodology responsibility of Contractor
Permeable Reactive Barrier Wall

- Used at site where groundwater contaminated by leachable metals
- Interim measure, not permanent solution
- May be a new wall or renewal of existing wall
- Media mixture provided
  - Pea gravel
  - Limestone
  - Compost
  - Zero valent iron
- Installation method responsibility of Contractor
Dredging

- Used in active harbours contaminated with metals, TBT, PAHs, PCBs, Dioxins and Furans
- Performed at Victoria Harbour and Esquimalt Harbour
- Silt control critical
- Coordination with other site users and with Harbour Master
Consulting Contracts

- **Request For Proposals**
  - May include a separate Set-Aside Tender

- **Evaluation Criteria**
  - Corporate Capability
  - Key Personnel
  - Management of Services

- **General Conditions**
  - Copyright
  - Liability
Evaluation Criteria for Past RFP

- **Corporate Capability**
  - Relevant projects: Location, Types of Sites, Contaminants, Standards, # of Key Personnel, Value of Work
  - Ability to: Design, Quality of Results, Management, Time, Cost

- **Key Personnel**
  - Focus on Experts and Seniors
  - Experience on: Location, Types of Sites, Contaminants, Standards

- **Management of Services**
  - Backup Personnel
  - Key Positions
  - Communications

### Generic Evaluation Table

<table>
<thead>
<tr>
<th></th>
<th>INADEQUATE</th>
<th>WEAK</th>
<th>ADEQUATE</th>
<th>FULLY SATISFACTORY</th>
<th>STRONG</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 point</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Did not submit information which could be evaluated</td>
<td>Team proposed is not likely able to meet requirements</td>
<td>Team does not cover all components or overall experience is weak</td>
<td>Team covers most components and will likely meet requirements</td>
<td>Team covers all components - some members have worked successfully together</td>
<td>Strong team has worked successfully together or comparable projects</td>
</tr>
<tr>
<td>Sample projects not related to this requirement</td>
<td>Sample projects generally not related to this requirement</td>
<td>Sample projects generally related to this requirement</td>
<td>Sample projects directly related to this requirement</td>
<td>Leads in sample projects directly relate to this requirement</td>
<td></td>
</tr>
<tr>
<td>Weaknesses cannot be corrected</td>
<td>Generally doubtful that weaknesses can be corrected</td>
<td>Weaknesses can be corrected</td>
<td>No significant weaknesses</td>
<td>No apparent weaknesses</td>
<td></td>
</tr>
<tr>
<td>Proponent do not possess qualifications and experience</td>
<td>Proponent lacks qualifications and experience</td>
<td>Proponent has an acceptable level of qualifications and experience</td>
<td>Proponent is qualified and experienced</td>
<td>Proponent is highly qualified an experienced</td>
<td></td>
</tr>
<tr>
<td>Lacks complete or almost complete understanding of the requirements.</td>
<td>Has some understanding of the requirements but lacks adequate understanding in some areas of the requirements.</td>
<td>Demonstrates a good understanding of the requirements.</td>
<td>Demonstrates a very good understanding of the requirements.</td>
<td>Demonstrates an excellent understanding of the requirements.</td>
<td></td>
</tr>
<tr>
<td>Extremely poor, insufficient to meet performance requirements</td>
<td>Acceptable capability, should ensure adequate results</td>
<td>Satisfactory capability, should ensure effective results</td>
<td>Superior capability, should ensure very effective results</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Public Services and Procurement Canada  Services publics et Approvisionnement Canada  Canada
General Conditions for Consultants

• Copyright
  – “Copyright in the Material belongs to Canada and the Contractor must include the copyright symbol and either of the following notice on the Material: © Her Majesty the Queen in right of Canada (year)”
  – Reports cannot include language restricting distribution, including seeking permission from Consultant

• Liability
  – “The Parties agree that no limitation of liability or indemnity provision applies to the Contract unless it is specifically incorporated in full text in the Articles of Agreement.”
  – Reports cannot include language that third parties may not rely upon report.
Construction Contracts

• Solicitation Evaluations
  – Invitation To Tender
  – Mandatory Criteria
  – Request For Proposal

• First Nations Engagement
  – Set Aside
  – Indigenous Benefits Plan

• General Conditions CPERF:
  – Quality of Workmanship
  – Time
  – Project Management
  – Contract Management
  – Health and Safety
Solicitation Evaluations

- Invitation To Tender
  - Low bid
- Mandatory Criteria may include:
  - Superintendent’s Experience
  - Bidder’s Experience
- RFP may include:
  - Key Personnel Experience
  - Methods and Means
  - Scheduling
  - Disposal Facilities
3. The consequences resulting from the performance evaluation are as follows:

a. For an overall rating of 85% or higher, a congratulation letter is sent to the Contractor.

b. For an overall rating of between 51% and 84%, a standard “meets expectations”, letter is sent to the Contractor.

c. For an overall rating of between 30% and 50%, a warning letter is sent to the Contractor indicating that if, within the next two years from the date of the letter, they receive 50% or less on another evaluation, the Contractor may be suspended from any new Public Works and Government Services Canada (PWGSC) solicitations for construction services, architectural and engineering services or facility maintenance services, of real property projects, for a period of one year.

d. For an overall rating of less than 30%, a suspension letter is sent to the Contractor indicating that the Contractor is suspended from any new PWGSC solicitations for construction services, architectural and engineering services or facility maintenance services, of real property projects, for a period of one year from the date of the letter.

e. When general average is between 30% and 50% and one of the ratings is of 5 points or less on any one criterion, a suspension letter is sent to the Contractor indicating that the Contractor is suspended from any new PWGSC solicitations for construction services, architectural and engineering services or facility maintenance services, of real property projects, for a period of one year from the date of the letter.
Thank You! - Questions?

More information:

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