

**Answers to Questions:**

- Q1. I have a question on the tender for the remediation of hydrocarbon impacted soil at 122 Wasagaming Drive. I'm looking at the approximate impacted area and it appears to encroach onto Wasagaming Drive. I don't see anything on the tender asking for asphalt removal or replacement. Would I be correct to assume that all the work is to be within the property footprint?
- A1. Yes the impacted area encroaches Wasagaming Drive and this material off site will be left in place. There will be no asphalt removal and/or replacement at the site. The Departmental Representative will direct the extent of excavation. Excavation work should remain within the property. Dewatering wells, fencing, etc will be allowed outside the property limits in order to allow for excavation to begin at the property line.
- Q2. I have one question in respect to the anchoring of the geomembrane. What is the required or specified anchoring method of the geomembrane at the top point of the slope? Typically there's an anchor trench at the top of a slope/berm but in this application I realize that this is not possible. Should the geomembrane be anchored with pins or sand bags at the top?
- A2. An anchor trench would not be practical at this site. We did not specify any particular method for securing the geomembrane near the top of the slope as we are not overly concerned with how the contractor does this. Sand bags would certainly be an acceptable method. We would generally not be in favour of methods that would cause holes to be made in the geomembrane – like pinning. However, if there is a pinning detail that is approved by the geomembrane manufacturer that doesn't compromise the integrity of the geomembrane, we would certainly consider it.
- Q3. Do you have any information or contact person about, cost/fees of excavation or necessary permits for this soil remediation job?
- A3. We do not have any specific information about the permits that may be required for the Work. As noted within the tender documents, the Contractor shall be responsible for providing all permits necessary for the project.
- Q4. Do you know approximately location to disposal site for unsuitable soil material (500 M3)?
- A4. Locations for disposal of unsuitable and uncontaminated will be identified by the Departmental Representative, and are anticipated to be local to the project site. Grey Owl Disposal Ground, 6 km NE of Wasagaming off /10 highway. Parks Canada will plow the snow if necessary.
- Q5. Could we consider, Concrete sidewalk replacement with same thickness, 100 mm depth as per specs?
- A5. Yes, as per clause 3.13 of Section 31 23 33.01, the replacement sidewalks are to be the same thickness as the existing sidewalks – which is 100 mm.
- Q6. Could we consider Pit run material as per granular backfill?
- A6. Imported fill material shall meet the requirements of clause 3.9.1.1 of Section 31 23 33.01.
- Q7. Who is responsible for obtaining discharge approvals for treated groundwater?
- A7. The Contractor is responsible for treating all groundwater prior to discharge into the sanitary sewer system in accordance with the standards of City of Winnipeg Sewer By-Law No. 92/2010. The Departmental Representative will conduct confirmatory testing of the discharged water to ensure that the discharge water is meeting the required standards. The confirmatory testing conducted by the Departmental Representative will in no way relieve the Contractor from ensuring that all discharges of treated groundwater meet the required standards prior to being released into the local sanitary sewer system.
- Q8. Are we able to direct load for contaminated material/non-contaminated but unsuitable to be hauled off-site for disposal?
- A8. Yes. Any material intended for off-site disposal can be directly loaded into the trucks and hauled away.

- Q9. Is it possible to have RTAC weights allowed from site through Highway 10?  
A9. Load restrictions on local roads will not be altered for this project.
- Q10. Is there a cross section for the sidewalk install you can provide? Or can you provide the depth for the base and width of the side walk to be replaced?  
A10. Sidewalk is to be replaced as described within the specifications. Contractor should attend site prior to bidding to confirm existing sidewalk dimensions.
- Q11. Who is responsible for the legal land survey?  
A11. There shouldn't be a need to have a legal survey done in order to define property line. The Departmental Representative can delineate the site boundaries (ie property line) before the start of the Work.
- Q12. Do you have the further flow rate information for the groundwater in winter conditions?  
A12. As per clause 3.7.4 of Section 33 23 33.01, "The Contractor shall engage a specialist dewatering subcontractor, or dewatering Engineer licensed to practice within the province of Manitoba, and shall be responsible for designing, installing and operating a wellpoint dewatering system that is capable of dewatering the site in order to carry out the Work in accordance with the specified schedule milestones, and as shown on the Drawings.
- Q13. Where is the department representative going to stage clean overburden, will it hinder the site laydown area for water treatment?  
A13. The Contractor shall assume that a portion of Buffalo Drive adjacent to the site will be made available to the Contractor to stockpile suitable excavated material. Buffalo Drive will be available. Please note the sidewalk on the south side of Buffalo Drive (running east west) is normally used for a ski trail.
- Q14. Do you have thrust block information for the hydrant?  
A14. No.
- Q15. Is there an agreement with the exterior property owners for the encroachment on their properties (back lane, roads and north property)?  
A15. Property owner is federal government. The land is leased so permissions for access and well point installation will be provided by Parks Canada. Departmental Representative will inform contractor of access requirements such as how far encroachment on adjacent leased land is allowable and what the restoration requirements will be.
- Q16. Is there an agreement in place for the well points to be inducted outside the property with the property owner? If not, who is obtaining this agreement?  
A16. Property owner is federal government. The land is leased so permissions for access and well point installation will be provided by Parks Canada. Departmental Representative will inform contractor of access requirements such as how far encroachment on adjacent leased land is allowable and what the restoration requirements will be.
- Q17. Would you allow for a performance spec rather than the 95% compaction spec due to working in winter conditions?  
A17. No. We understand that freezing conditions can create challenges with backfilling. We will address any such challenges – should they arise - with the Contractor at the site as the work progresses.
- Q18. Will you accept a different execution plan? For example, excavating and backfilling in sections?  
A18. We have not prescribed an excavation and backfilling methodology.
- Q19. How will compaction be measured during backfilling activities under conditions less than -10?  
A19. We understand that freezing conditions can create challenges with backfilling. We will address any such challenges – should they arise - with the Contractor at the site as the work progresses.
- Q20. Will compaction be measured on the 500m<sup>3</sup> of stockpiled material that will be frozen after sitting in stockpile during excavation activities?  
A20. Same answer as above. However, should the stockpiled uncontaminated soil be found to be frozen and not suitable for backfilling, the Departmental Representative may deem this material to be unsuitable and instruct the Contractor to dispose of it as "Unsuitable and Uncontaminated soil".

Q21. What will be the turnaround time on water samples?

A21. Treated water sampling results (as performed by the Departmental Representative) are expected within 2 business days.

Q22. What is the expected wait time for confirmatory samples to allow for backfilling activities to commence?

A22. Confirmatory hydrocarbon results (as performed by the Departmental Representative) are expected within 2 business days.

Q23. What is the expected quantity of water that is to be treated?

A23. That is for the Contractor to determine.

Q24. What is the expected groundwater re-charge rate?

A24. That is for the Contractor to determine.