



April 17, 2020

Reference PG-4812

Ms. Martina Chait-Hartwig, Temporary C.A.O.  
TOWNSHIP OF DOURO-DUMMER  
894 South Street  
WARSAW, Ontario  
K0L 3A0

**Re: Proposal and Cost Estimate  
2020 Groundwater Monitoring Program  
Annual Monitoring of Closed Landfill Sites**

Dear Ms. Chait-Hartwig:

GHD Limited (GHD) respectfully submits the following proposal for the annual monitoring of the closed landfill sites: Warsaw Road, Stoney Lake Road and Hall's Glen. It is our understanding that the request is for the 2020 monitoring and reporting years.

The general work scope for each site, as per the request for proposal, included the collection of surface and groundwater sample as per established protocol; general review of each site in accordance with the applicable closure plan; analysis of each sample collected by a licensed and qualified laboratory; field measurement of landfill gases and preparation of an annual report suitable for submission to the Ministry of the Environment, Conservation and Parks (MECP). The report is to include, but is not limited to, the results of the sampling and analysis, results of the measurements of landfill gases; recommendations relative to the site and future work and responding to any comments received for the MECP following the submission of the reports. Annual operations reviews will be prepared for the Stoney Lake and Hall's Genn Transfer Stations.

If GHD's proposal is successful the Township of Douro-Dummer (Township) will be provided with a copy of GHD's current WSIB Clearance Certificate, a copy of GHD's liability insurance and copies of required licenses and/or accreditations of the proponent as required.

The work is proposed to be conducted on a lump sum basis. A detailed work plan, price and a project schedule is provided on the following pages for each site for the 2020 monitoring program based on the existing monitoring programs.



### **WARSAW ROAD WASTE DISPOSAL SITE**

The work scope includes eight (8) monitoring stations sampled twice per year, four (4) residential wells sampled twice every 3 years (due in 2020) and seven (7) surface water stations to be monitored twice a year. The work will be carried out as in past monitoring circuits with in-situ field condition monitoring data collected as required and water samples collected from individual monitors using appropriate containers. In addition to the above work scope field measurements of landfill gas will be conducted during the two (2) sampling periods and an additional five (5) times annually.

It is estimated that the total costs to complete the planned work scope will be on the order of \$11,210 (excluding H.S.T.) for the 2020 monitoring period.

### **SCHEDULE**

The work scope schedule will be carried out as outlined in the 2019 AMR. This includes spring and autumn monitoring circuits with samples collected and additional field measurement of landfill gas. The annual report will be prepared and submitted in the early part of the following year.

### **STONEY LAKE WASTE DISPOSAL SITE**

The work scope includes sixteen (16) groundwater monitoring stations sampled twice per year, four (4) surface water stations to be sampled three (3) times a year and four (4) passive air vents monitored twice per year. It is our understanding from the 2012 Annual Report two (2) of the short list monitors are historically dry and therefore have been omitted from the chemical pricing provided below. Should samples be collected from these monitors they will be charged out at the respective rate. The work will be carried out as in past monitoring circuits with in-situ field condition monitoring data collected as required and water samples collected from individual monitors using appropriate containers.

Program will also include the preparation of the annual operations review of the transfer station, the installation of two background monitors and the re-surveying of all on-site monitors.

It is estimated that the total costs to complete the planned work scope will be on the order of \$12,420 (excluding H.S.T.) for the 2020 monitoring period. A breakdown of the estimated costs to complete each task of the monitoring program and operations report is outlined below. The estimated amounts presented include all professional and technical labour, laboratory charges, and related disbursements.



## SCHEDULE

The work scope schedule will be carried out as outlined in the 2020 AMR. This includes Spring and Fall monitoring circuits with samples collected and additional field work and sampling of surface water stations Summer. The annual report will be prepared and submitted in the later part of the monitoring year. The annual operations review will be completed in early part of the following year after receipt of necessary documentation from the township.

## **HALLS GLEN WASTE DISPOSAL SITE**

### STUDY APPROACH

The work scope includes thirteen (13)-monitoring stations with a total of twenty-seven (27) monitoring wells, four (4) residential wells and one (1) surface water station to be monitored twice a year. The work will be carried out as in past monitoring circuits with in-situ field condition monitoring data collected as required and water samples collected from individual monitors using appropriate containers. The preparation of the annual transfer station operations review is also included in the pricing.

It is estimated that the total costs to complete the planned work scope will be on the order of \$14,900 (excluding H.S.T.) for the 2020 monitoring period. A detailed breakdown of the estimated costs to complete each task of the monitoring program is outlined below. The estimated amounts presented include all professional and technical labour, laboratory charges, and related disbursements.

## SCHEDULE

The work scope schedule will be carried out as outlined in the 2020 AMR. This includes Spring and Fall monitoring circuits with samples collected and additional field work and sampling of surface water stations Summer. The annual report will be prepared and submitted in the later part of the monitoring year. The annual operations review will be completed in early part of the following year after receipt of necessary documentation from the township



## **TIME AND EXPENSE RATES**

### **COST ESTIMATE**

For additional items not covered we will provide a lump sum estimate or to carry out on a time-and-expense basis in accordance with the following rates:

Senior Engineer.....	\$250.00/hour
Hydrogeologist.....	\$180.00/hour
Environmental Technologist.....	\$85.00/hour
Junior Technologist.....	\$75.00/hour
Travel Expense.....	\$0.60/km

## **PRICING SUMMARY**

The total estimate for the 2020 monitoring year is \$38,530 excluding H.S.T.

We trust that this proposal meets your requirements. All work will be carried out by experienced personnel who are familiar with groundwater and environmental projects throughout Ontario. Should you have any questions regarding the planned work scope, related costs or scheduling, please contact our office.

Yours Truly,

A handwritten signature in black ink that reads "Steven Gagne".

Steven Gagne, H.B.Sc.

A handwritten signature in blue ink that reads "Nyle C. McIlveen".

Nyle C. McIlveen, P.Eng.

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## Standard Terms for Professional Services

GHD Limited ("GHD") and Client (as set out below) agree that any professional services performed by GHD for Client, relating to the scope of work, will be on the following standard terms:

1. Invoices for services rendered will be issued monthly payable on receipt. Amounts due will be increased at the rate of 1 1/2 percent per month after 30 days. GHD reserves the right, without penalty, to discontinue services in the event of non-payment of undisputed amounts.
2. GHD maintains statutory workers compensation insurance, and professional, pollution, general, auto, and employers liability insurance which GHD deems adequate. Certificates of insurance shall be provided on request.
3. GHD's services are solely for Client's benefit and may not be relied upon by any third party without GHD's express written consent. Any use, change, or distribution of Work Product without the written consent of GHD shall be at Client's risk and will not give rise to liability of GHD.
4. GHD shall perform its professional services in the manner consistent with the level of care and skill ordinarily exercised by other professional firms acting under similar circumstances and at similar times. GHD makes no other warranty, implied or expressed.
5. GHD shall indemnify and hold harmless Client for its services to the extent GHD's neglect or willful misconduct causes liability for the Client. Neither party shall be liable for any consequential loss, injury or damages suffered by the other party, including but not limited to loss of use, earnings, and business interruption.
6. To the maximum extent permitted by law, GHD's liability and that of its employees, agents, directors, officers, and subcontractors to Client due to any negligent acts, errors or omissions, shall not exceed \$5,000 except as to damages resulting from the gross negligence or willful misconduct of GHD.
7. Client acknowledges that the pre-existing presence, if any, of pollutants, and other potentially hazardous conditions at the project site were not caused by or are not the responsibility of GHD, and that this contractual arrangement does not transfer any legal responsibilities for such conditions to GHD.
8. GHD may terminate this Agreement for nonpayment or other default by Client. Terms agreed to under this Agreement shall survive any such termination.
9. Client hereby agrees that this agreement may be assigned to another entity within the GHD group of companies that will be directly or indirectly wholly-owned by GHD Group Pty Ltd. (a "Related Entity"). Any such Related Entity shall assume all of GHD's liabilities, duties and obligations in, to, and under this Agreement. Client hereby agrees that this assignment may be effected without any further notice or action on the part of GHD. Upon request, Client agrees to execute and deliver any further documents as may be reasonably requested by GHD or its successor to evidence such consent and/or assignment.

These Terms and Conditions are hereby accepted this \_\_\_\_\_ day of \_\_\_\_\_, 201\_\_.

**Client Signature:**

\_\_\_\_\_  
Name of Company:

\_\_\_\_\_  
Per:

\_\_\_\_\_  
Title:

I have authority to bind the Corporation