REQUEST FOR QUOTATIONS

SITING, DRILLING AND TESTING OF BOREHOLE AT MIDDŽBURG LANDFILL SITE.

Background and Purpose

In terms of the permit conditions, the landfill site should be monitored for ground water pollution in terms of the Minimum Requirements for waste disposal by landfill, second edition, 1998. Currently there are three boreholes on site and therefore one additional borehole is required on the down stream.

Scope

The investigation entails siting, drilling and construction of 1 new borehole and testing of one borehole at Middelburg Landfill Site. This work is required to satisfy the requirements of DWAF regarding water quality monitoring for a general waste landfill site.

1. Borehole Siting

A qualified Hydrogeologist must be appointed by the contractor to conduct Geophysical survey.

2. Borehole drilling

Based on the geophysical survey results and monitoring requirements, one new borehole must be drilled downstream of the landfill. The drilling programme must be undertaken by a drilling contractor under the direction of a qualified hydrogeologist.
3. **Borehole detail**

For the purposes of costing, allowance must be made for 1 borehole to an estimated depth of 35 m, including 35 m of PVC casing and 5 m of solid steel casing, plus one borehole to an estimated depth of 15 m, including 15 m of PVC casing and 5 m of solid steel casing (subject to the final depths of each borehole and casing depending upon the subsurface conditions encountered during drilling).

4. **Testing**

Should sufficient yields (greater than 0.3 l/s) be encountered in the newly-drilled borehole, the borehole must be pump tested to assess aquifer parameters. The testing must be conducted under the direction of an approved hydro geologist.

5. **Sampling**

During testing, the groundwater encountered in the boreholes must be sampled by the approved renderer and be submitted to an approved Laboratory, to be analyzed for the following parameters: pH; EC; NO₃; COD; VOC; TOC, major cat-ions and an-ions and IPC scan. The cost for analyses must be included in the quotation.

6. **Reporting/Deliverables**

The findings of the investigation must be documented in a technical report that needs to be forwarded to the Steve Tshwete Local Municipality (3 hardcopies and 1 electronic copy). The report must include sitting, drilling and aquifer testing results as well as WASP analysis.

7. **Borehole Protection**

The borehole will have a 750mm diameter and 1,0m high concrete ROCLA manhole ring and lid placed on it. The supply of a tool to open the lid is also required.

8. **Timing**

Depending on the availability of drilling contractors, we estimate the investigation will require approximately 3 weeks to be completed.
9. **Ownership**

   The complete borehole and plan of action (i.e. hardware and software copies) to be submitted will be the intellectual property of the STLM to be utilized as and when required.

10. **Occupational Health and Safety**

   All work must be done in accordance with the Occupational Health and Safety Act, Act 85 of 1993 as amended. All work must be done by or under the direct supervision of a competent person.

11. **Available resources**

   Contractors must give an indication of the resources available to execute the work such as

   - Competent staff
   - Equipment
   - Vehicles
   - Safety equipment

12. **Staff component**

   Hydrogeologist
   Contractor

13. **Previous experience**

   The contractor must submit a list of 3 references of previous projects successfully carried out.

14. **Completion of project**

   The work must be done within 42 days from the issue of an official order.

15. **Site meeting**

   There will be no site meeting but the Consultants appointed for Landfill site Audit (Messrs. Lance Hill t/a Hill and Associates) Mr. Lance Hill at telephone (083) 556 9113 can be contacted for more detailed discussion regarding the scope of the work.

16. **Evaluation**

   Criteria will be on staff qualifications, experience and price.

NB: For more information, please contact Ms Rose Makondzo on (013) 249
1. Written Quotations should be submitted to the office of the Senior Manager Solid Waste, Room D214, First Floor, Civic Centre, Wanderers Avenue, Middelburg, Mpumalanga in a sealed envelope not later than 12:00 on the **29 October 2010**.

2. Copies of the following documents must accompany the written quotation:
   - Tax Clearance Certificate
   - Company Registration documents

3. Service providers not registered with council should log on to [www.stevetshwetelm.gov.za](http://www.stevetshwetelm.gov.za) or visit Martha Mtshweni at the Municipal Stores at Corner Protea and Church Street, Middelburg, to get the forms and submit a complete enlistment application before submitting the quotation.