REQUEST FOR QUOTATION
RURAL MUNICIPALITY OF PINEY

January 7, 2019

Ground Water Monitoring for

RM of Piney Waste Disposal/Transfer Sites

Request for Quotation
Rural Municipality of Piney

Issue Date: January 7, 2019
Closing Date: February 11, 2019
Closing Time: 1:00pm CST

The Rural Municipality of Piney is undertaking a Groundwater Monitoring Program on three Waste Disposal Grounds/Transfers currently being operated by the RM. Part of the study is ongoing monitoring and sampling of ground water wells located at each of the three WDG/WTS operated by the RM.

The objective of the hydrogeological investigation and monitoring program is to evaluate contaminant hydrogeology associated with the waste disposal sites and meet licensing requirements outlined by Manitoba Sustainable Development. Waste disposal facilities at the site have been operating for varying lengths of time from approximately 10 years to over 30 and it is anticipated that contaminant transport has stabilized over this period of time.

Scope of Work:
The RM is looking for a qualified firm to provide a minimum of three years of service and will enter into an agreement formalizing the services provided. The following WDG/WTS sites are to have water samples removed and tested by an accredited laboratory. There are three groundwater monitoring wells present at each site.

The sites include:

1. Menisino WDG SE 6-2-11 EPM Permit ER-WDG-07
2. Sprague/South Junction WDG SE 19-1-14 EPM Permit ER-WDG-10
3. Woodridge WDG SE 1-4-10 EPM Permit ER-WDG-12

The wells are to receive full draw down and subsequent recharge prior to sample collection. Each well is to be mapped, geo referenced and characterized. Samples are to be removed using standard groundwater well sampling methods. Samples are to be submitted to an accredited laboratory for analysis using the parameters listed in Appendix A here attached. A summary report is to be developed and delivered to the RM of Piney; details comprised in the report shall include, but not be limited to, sampling methodology, dates, site map, results, interpretation of the results, recommendations and conclusion.

Timeline:
The Ground Water Monitoring Program and correlating report are to be completed and submitted to the RM of Piney by August 15th of the current year.

Fees:

Quotations and fees are to be inclusive. Additional work shall be issued by RFQ or letter of understanding. No funds will be released until the current years' work is completed in full and the annual report presented to the RM.

Completed quotations must be submitted by February 11, 2019 at 1:00pm to:

Rural Municipality of Piney
Attention: Martin Van Osch, C.A.O.
PO Box 48
Vassar, MB R0A 2J0
204-437-2284

The outside of each quotation must be clearly labeled:
"Quotation for Ground Water Monitoring Program", submitted by_____.

Appendix A
Ground Water Chemistry Parameters

Chemical Parameters		
Inorganics		
Alkalinity – Total		Magnesium – Dissolved
Ammonia – Total		Manganese – Dissolved
Arsenic – Total		Mercury – Dissolved
Barium – Dissolved		Nitrate - Reported as N
Boron – Dissolved		Nitrite - Reported as N
Cadmium – Dissolved		Total Kjeldahl Nitrogen – Reported as N
Calcium – Dissolved		Total Phosphorous
Calcium Carbonate		Potassium – Dissolved
Chloride		Silicon – Dissolved
Chromium – Dissolved		Sodium – Dissolved
Conductivity		Total Dissolved Solids (TDS)
Copper – Dissolved		Sulphate
Iron – Dissolved		Uranium – Dissolved
Lead – Dissolved		Zinc – Dissolved
Volatile Organic Compounds (VOC's)		
BTEX		
Other Organics		
Biological Oxygen Demand (BOD)		Chemical Oxygen Demand (COD)
Dissolved Organic Carbon (DOC)		
Field Parameters		
pH		Groundwater Elevation
Conductivity		Dissolved Oxygen
Temperature		

Note: **This Appendix is subject to revision at any time by the Director.**
All metals (except Arsenic) are to be sampled for dissolved analysis.
Dissolved samples should be filtered in the field and preserved in the field at time of sampling. If dissolved samples are not to be filtered and preserved in the field then the Director and the Laboratory must be notified prior to sampling.