

# Petroleum Tank Release Compensation Board Groundwater Monitoring and Sampling Unit Cost Worksheet

## Contractor Information

Company Name:

Address:

City, State, Zip:

Cost Estimator:

Phone:

Signature:

Date:

## Project Information

Site Name:

Address:

City:

Facility ID#

Release #

WP ID#

## Monitoring Well Details

Total Number of Wells at Site

Number of Water Level Measurements Only <sup>(2)</sup>

Number of Wells to be Monitored/Sampled <sup>(3)</sup>

Well Casing Diameter (inches)

Average Depth to Groundwater (ft)

Average Depth of Wells (ft)

## Well Purging Method

Hand Bailing

Peristaltic Pump

Submersible Pump

Micropurge

No Purge

Other (please specify)

## Monitoring/Sampling Interval

Estimated Start Date:

Quarterly # of events

Semi-annual # of events

Annual # of events

Other # of events (specify)

## Other Services

Free Product Recovery

Groundwater Well survey

Wellhead retrofit/reconstruction

Other (please specify)

## Cost Estimate Explanation:

<sup>(1)</sup> Mobilization/Demobilization: Includes all costs and mileage to transport equipment, materials, and personnel to and from the site location. More than one mobilization event will require justification and pre-approval by the DEQ-PTCS and Board staffs. This item should be on a per mile unit rate.

<sup>(2)</sup> Water Level Measurements: Includes all costs (labor, equipment, materials, and well consumables) to measure groundwater depth, collect other groundwater information from well, and decontaminate equipment. The well monitoring costs should be on a per well basis and does not include purging and sampling of the well.

<sup>(3)</sup> Well Monitoring/Purging/Sampling: Includes all costs (labor, equipment, materials, and well consumables) to monitor (see above), purge, sample groundwater, decontaminate equipment, take water level measurements and handle disposal of contaminated purge water. The cost should be on a per well basis.

<sup>(4)</sup> Laboratory Analysis: Includes all laboratory costs for all wells, for duration of project. It is realized that some laboratory analyses will not be conducted for every event and that the well sampling frequency may change.

<sup>(5)</sup> PTRCB Sampling Fee: Includes all costs related to management of the sample including: sample container, cooler, packing, shipping, handling, sample preservation, and office related handling charges. The sample is defined as the laboratory ID number on the laboratory invoice.

<sup>(6)</sup> Report Preparation and Project Management: Includes all costs (labor and materials) project management, report preparation, and report submittal, including all office related costs, per groundwater sampling event.

## Groundwater Monitoring and Sampling Unit Cost Worksheet

Task	Unit Cost	Number of Units	Total Cost
<b>Work Plan Preparation</b>			
<b>Project Management</b>	/hr		
<b>Mobilization/Demobilization</b> <sup>(1)</sup>	/mile		
<b>Field Work</b>			
Water Level Measurements <sup>(2)</sup>	/well		
Well Monitoring/Purging/Sampling <sup>(3)</sup>	/well		
Other Service (please specify)			
Other Service (please specify)			
<b>Lodging &amp; Per Diem</b> (Lodging – actual only)			
Lodging: # of people	/person per day		
Food: # of people (\$23.00 max a day allowed)	/person per day		
<b>Laboratory Analysis</b> <sup>(4)</sup>			
Volatile Petroleum Hydrocarbons (VPH)	/sample		
Extractable Petroleum Hydrocarbons (EPH)			
EPH “screen”	/sample		
EPH “fractions”	/sample		
BTEX/MTBE/Naphthalene only-method:	/sample		
Polyaromatic Hydrocarbons (PAHs)	/sample		
PTRCB sampling fee (\$10.00 allowed) <sup>(5)</sup>	/sample		
Other (please specify)	/sample		
Other (please specify)	/sample		
<b>Report Preparation</b> <sup>(6)</sup>			
Quarterly	/report		
Semi-annual	/report		
Annual	/report		
Other (Please specify)			
<b>Monitoring &amp; Sampling Total:</b>			

**Additional Conditions/Comments/Costs:**

**If you require assistance, call 406-444-9710**  
**Submit completed form to:**  
**Petroleum Tank Release Compensation Board**  
**PO Box 200902, Helena MT 59620-0902**