



<p>Gas Geochemistry Laboratory (GASLAB) Soil gas survey costs <i>Person in charge: Dr. Giancarlo Ciotoli</i></p>	<p>Rate (€ net of tax charges)</p>
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Field analyses	Cost of equipment	Annual amortization rate (3 years)	Annual calibration	Average number of analyses / y	Cost of analyses
Measurements of CO ₂ , CH ₄ , H ₂ S, H ₂ , O ₂ concentrations in the soil gas or dissolved in water	5.500,00	1.833,33	260,00	300,00	6,98
Measurement of CH ₄ concentration by laser spectrometry	16.000,00	5.333,33	500,00	300,00	19,44
Measurement of radon and thoron concentrations in the soil gas or dissolved in water	8.700,00	2.900,00	600,00	300,00	11,67
Soil CO ₂ and CH ₄ flux measurements	35.000,00	11.666,67	500,00	300,00	40,56
Steel sampling probes, connectors and silicone tubes (replenishment of consumable material per year)	750,00				2,50
Cost of equipment use for in situ analysis (cost per sample)					81,14

Direct costs	Daily cost	Cost per sample (considering 10 samples / day)
<i>Costs of a specialized technician from the Lazio Region rate table</i>		
Personnel - Researcher III	350,00	35,00
Technical support staff for field work	200,00	20,00

The total cost is determined by the sum of (1) x N.Samples + (2) x N.days + (3)

(1) Summary of in situ measurement costs	Survey for Public Research Bodies / Universities	Survey for internal request (-30%)	Survey for third parties (+30%)
Cost of using equipment for in situ analysis (per sample)	81,14	56,80	105,49
Personnel - Researcher III (per sample)	35,00	24,50	45,50
Technical support staff for field work (per sample)	20,00	14,00	26,00
Cost of in situ measurements per sample	136,14	95,30	176,99
(2) Data analysis, mapping elaboration and final report (daily cost):	400,00	280,00	520,00
Study of the sampling strategy			
Data analysis			
Mapping elaboration			
Reporting			
(3) expenses for travel, handling of equipments, food and accommodation			