

EcoCore Rates : July 01, 2012 through June 30, 2013

Conditions	Internal (CSU)		Non-profit		Commercial	
	Client operator (training required) <sup>2</sup>	EcoCore operator	Client operator (training required) <sup>2</sup>	EcoCore operator	EcoCore operator	
<b>Elemental Analysis</b> (\$/sample)						
C and N - Solid	<20 Samples	3.50	6.50	4.59	8.52	9.59
	20-999 Samples	3.50	4.50	4.59	5.90	6.64
	1000-1999 Samples	3.30	4.30	4.32	5.63	6.34
	≥2000 Samples	3.10	4.10	4.06	5.37	6.05
	Difficult Samples <sup>1</sup>	+\$1.00	+\$1.00	+\$1.30	+\$1.30	+\$1.50
TOC and TN - Liquid	< 20 Samples	3.50	6.50	4.59	8.52	9.59
	≥ 20 Samples	3.50	4.50	4.59	5.90	6.64
	Difficult Samples <sup>1</sup>	+\$1.00	+\$1.00	+\$1.30	+\$1.30	+\$1.50
<b>Nutrient Analysis</b> (\$/sample)						
Inorganic N or P - Liquid	< 20 Samples	2.50	5.50	3.28	7.21	8.11
	≥ 20 Samples	2.50	3.50	3.28	4.59	5.16
	Difficult Samples <sup>1</sup>	+\$1.00	+\$1.00	+\$1.30	+\$1.30	+\$1.50
<b>Stable Isotope Analysis</b> (\$/sample)						
<sup>13</sup> C or <sup>15</sup> N - solids	< 999 Samples	7.50	8.50	9.83	11.14	12.54
	1000-2999 Samples	6.50	7.50	8.52	9.83	11.06
	3000-4999 Samples	5.50	6.50	7.21	8.52	9.59
	≥ 5000 Samples	4.50	5.50	5.90	7.21	8.11
	Difficult Samples <sup>1</sup>	+\$1.00	+\$1.00	1.31	1.31	1.48
<sup>13</sup> C - CO <sub>2</sub>	CO <sub>2</sub> conc >2000 ppm	7.50	10.00	9.83	13.10	14.75
<sup>13</sup> C - CO <sub>2</sub> (<2000 ppm)	CO <sub>2</sub> conc <2000 ppm	8.75	14.00	11.46	18.34	20.65
<sup>18</sup> O - water		8.75	9.75	11.46	12.77	14.38
Compound-specific <sup>13</sup> C	Fatty acid methyl esters	45.00	65.00	58.95	85.15	95.88
	Other <sup>3</sup>	inquire	inquire	inquire	inquire	inquire

Molecular Analysis		(\$/run, plate or sample)				
PCR	\$/run	6.00	-	7.86	-	-
Q-PCR	\$/run	24.00	-	31.44	-	-
Plate Reader	\$/plate	3.00	-	3.93	-	-
HPLC	\$/sample	4.00	5.00	5.24	6.55	7.38
Additional Fees / Miscellaneous		(\$/h, day, sample)				
Lab Use Fee	\$/h	4.00	-	5.24	-	-
Training & Consulting <sup>2</sup>	\$/h	35.00	-	45.85	-	-
Freeze-drying	\$/day	15.00	-	19.65	-	-
Weighing & Encapsulation <sup>4</sup>	\$/sample	-	2.00	-	2.62	2.95
Method Development	\$/h	35.00		45.85		51.63

<sup>1</sup> Difficult samples require an additional charge:

C, N - solid	Concentrations outside range of standard methods; salts; liquid samples
TOC, TN - liquid	Any sample matrix other than water
Inorganic N, P - liquid	Any sample matrix other than 2M KCl or water; any sample not near neutral pH; colored samples; dirty samples
<sup>13</sup> C, <sup>15</sup> N - solid	Salts; glass or quartz filters; highly enriched samples (> 2 atom %)
Freeze-drying	Any solvent/matrix other than water

These are estimated additional costs based on common difficult samples. We reserve the right to charge additional fees upon further information. Please contact lab management.

<sup>2</sup> Training and consulting fees are charged by the hour (@ \$35/h) for instrument, method, and lab use training sessions. Training on instruments needs to be re-taken if operator has not run the instrument for over 6 months.

<sup>3</sup> Stable isotope analyses of other compounds are under development. EcoCore also welcomes experienced GC-c-IRMS users to use our facility to analyze samples with established methods. Rates can be negotiated for these types of analyses. For more information, please contact us.

<sup>4</sup> Solid samples should be sent to EcoCore weighed and encapsulated. We occasionally weigh and encapsulate samples for outside clients for an additional charge.

Other notes:

\* **Client vs. EcoCore operator:** for most automated analyses, a \$1.00/sample surcharge is included when samples are sent to and analyzed by EcoCore, to cover for time investment by laboratory technicians. For analyses requiring manual injection (<sup>13</sup>C in CO<sub>2</sub> analysis), or for more complex analyses (e.g. compound-specific

isotope analyses), a higher surcharge is included. If instruments are run by the client, training is required, which will be charged by the hour. Training on instruments needs to be re-taken if operator has not run the instrument for over 6 months.

\* A discount applies for **large numbers of samples**. The lower rate will be applied to those samples run after having reached the cut-off number of samples during a Colorado State University fiscal year (July 1 – June 30).