

## EcoCore rates from 07/01/2017 through 06/30/2018

	Conditions	CSU		Non-profit		Commercial	
		Client operator (training required) <sup>2</sup>	EcoCore operator	Client operator (training required) <sup>2</sup>	EcoCore operator	Client operator (training required) <sup>2</sup>	EcoCore operator
<b>Elemental Analysis (\$/sample)</b>							
C and N - Solid	<20 Samples	5.45	11.90	7.14	15.59	10.71	23.38
	20-999 Samples	5.45	8.75	7.14	11.46	10.71	17.19
	1000-1999 Samples	5.20	8.50	6.81	11.14	10.22	16.70
	≥2000 Samples	4.90	8.05	6.42	10.55	9.63	15.82
	Difficult Samples <sup>1</sup>	1.20	1.20	1.57	1.57	2.36	2.36
Inorganic C - Solid		included in lab use fee (\$4.60/h)	Inquire	included in lab use fee (6.22/h)	Inquire	included in lab use fee (\$9.33/h)	Inquire
Total or dissolved C and N - Liquid	< 20 Samples	5.25	11.70	6.88	15.33	10.32	22.99
	≥ 20 Samples	5.25	9.45	6.88	12.38	10.32	18.57
	Difficult Samples <sup>1</sup>	+ \$1.20	+ \$2.25	+ \$2.95	+ \$2.95	+ \$4.43	+ \$4.43
Dissolved inorganic C - Liquid	< 20 Samples	5.25	12.10	6.88	15.85	10.32	23.78
	≥ 20 Samples	5.25	9.80	6.88	12.84	10.32	19.26
	Difficult Samples <sup>1</sup>	+ \$1.15	+ \$2.25	+ \$2.95	+ \$2.95	+ \$4.43	+ \$4.43
<b>Nutrient Analysis (\$/sample)</b>							
Inorganic N or P - Liquid	< 40 Samples	4.45	7.50	5.83	9.83	8.74	14.74
	≥ 40 Samples	3.00	4.25	3.93	5.57	5.90	8.35
	Difficult Samples <sup>1</sup>	1.20	1.20	1.57	1.57	2.36	2.36
<b>Stable Isotope Analysis (\$/sample)</b>							
<sup>13</sup> C or <sup>15</sup> N - solids	< 999 Samples	8.95	10.20	11.72	13.36	17.59	20.04
	1000-2999 Samples	7.75	8.95	10.15	11.72	15.23	17.59
	3000-4999 Samples	6.55	7.75	8.58	10.15	12.87	15.23
	≥ 5000 Samples	5.40	6.65	7.07	8.71	10.61	13.07
	Difficult Samples <sup>1</sup>	1.20	1.20	1.57	1.57	2.36	2.36
	Weighing & Encapsulation <sup>4</sup>	-	+ \$2.35	-	+ \$3.08	-	+ \$4.62
<sup>13</sup> C - CO <sub>2</sub>	CO <sub>2</sub> conc >2000 ppm	8.95	11.90	11.72	15.59	17.59	23.38
<sup>13</sup> C - CO <sub>2</sub> (<2000 ppm)	CO <sub>2</sub> conc <2000 ppm	10.45	16.70	13.69	21.88	20.53	32.82
<sup>18</sup> O - water <sup>6</sup>	10 sample minimum	10.45	11.60	13.69	15.20	20.53	22.79
Compound-specific <sup>13</sup> C	Fatty acid methyl esters	53.25	76.90	69.76	100.74	104.64	151.11
	Other <sup>3</sup>	inquire	inquire	inquire	inquire	inquire	inquire
<b>Molecular Analysis (\$/run, plate read or sample)</b>							
PCR	\$/run	7.20	-	9.43	-	14.15	-
Q-PCR	\$/run	28.50	-	37.34	-	56.00	-
Plate Reader	\$/plate read	3.60	-	4.72	-	7.07	-
HPLC	\$/sample	4.80	5.95	6.29	7.79	9.43	11.69
<b>Additional Fees / Miscellaneous (\$/h, day, sample)</b>							
Lab Use Fee	\$/h	4.75	-	6.22	-	9.33	-
Training & Consulting <sup>2</sup>	\$/h	45.90	-	60.13	-	87.15	-
Freeze-drying	\$/day	17.75	-	23.25	-	33.68	-
Method Development	\$/h	45.90		60.13		90.19	

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

CHN	Low concentration (< ?%C,N) samples; salts; liquid samples
TOC	Any sample matrix other than water
ALPKEM	Any sample matrix other than 2M KCl or water; any sample not near neutral pH; colored samples; dirty samples
COSTECH	Salts; glass or quartz filters; highly enriched samples (> 2 atom%)
FREEZEDRY	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 (starting at \$45.90/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.

<sup>5</sup> A yearly plate reader subscription of \$404 is available to internal users, provided all sample prep is done at EcoCore. This cost does not cover the cost of training.

<sup>6</sup> Due to the substantial amount of time required per run and cost of standards, a 10-sample minimum is required for <sup>18</sup>O water. Small sample batches will be billed for 10 samples.

### Other notes:

**Client vs. EcoCore operator:** for most automated analyses, a 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 (13C in CO<sub>2</sub> analysis), a higher surcharge is included.

For GC-c-IRMS analyses of FAMES, we charge an additional \$23.65/sample (on campus) and \$31.00/sample (off-campus) due to the complexity of the analysis and data processing. If instruments are run by the client, training is required, which will be charged by the hour (starting at \$45.90/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.

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).