

EcoCore Rates: July 1, 2013 through June 30, 2014



Conditions	Internal (CSU)		Non-profit		Commercial	
	Client operator ^[6] (training required)	EcoCore operator	Client operator ^[6] (training required)	EcoCore operator	EcoCore operator	
Elemental Analysis (\$/sample)						
Total C <u>and</u> N - Solid	<20 Samples	4.65	7.75	6.07	10.12	15.18
	20-999 Samples	4.65	5.70	6.07	7.42	11.13
	1000-1999 Samples	4.45	5.50	5.80	7.15	10.73
	≥2000 Samples	4.25	5.25	5.53	6.88	10.32
	Difficult Samples ^[1]	+ \$1.00	+ \$1.00	+ \$1.31	+ \$1.31	+\$2.00
Inorganic C (CaCO ₃ equiv) - Solid		included in lab use fee (\$4.00/h)	Inquire	included in lab use fee (5.40/h)	Inquire	Inquire
Total or dissolved C <u>and</u> N - Liquid	< 20 Samples	4.50	10.50	8.52	13.76	20.63
	≥ 20 Samples	4.50	8.50	8.52	11.14	16.70
	Difficult Samples ¹	+ \$1.00	+ \$2.00	+ \$2.62	+ \$2.62	+ \$3.95
Dissolved inorganic C - Liquid	< 20 Samples	4.50	10.50	8.52	13.76	20.63
	≥ 20 Samples	4.50	8.50	8.52	11.14	16.70
	Difficult Samples ^[1]	+ \$1.00	+ \$2.00	+ \$2.62	+ \$2.62	+ \$3.95
Nutrient Analysis (\$/sample)						
Inorganic N or P - Liquid	< 40 Samples	2.60	6.50	3.37	7.42	11.13
	≥ 40 Samples	2.60	3.65	3.37	4.72	7.08
	Difficult Samples ^[1]	+ \$1.00	+ \$1.00	+ \$1.31	+ \$1.31	+\$2.00
Stable Isotope Analysis (\$/sample)						
¹³ C <u>or</u> ¹⁵ N – solids ²	< 999 Samples	7.75	8.80	10.12	11.47	17.20
	1000-2999 Samples	6.70	7.75	8.77	10.12	15.18
	3000-4999 Samples	5.70	6.70	7.42	8.77	13.16
	≥ 5000 Samples	4.65	5.70	6.07	7.42	11.13
	Difficult Samples ^[1]	+ \$1.00	+ \$1.00	+ \$1.31	+ \$1.31	+\$2.00
	Weighing & Encapsulation ^[2]	-	+ \$2.00	-	+ \$2.62	+ \$3.95

¹³ C - CO ₂	CO ₂ conc >2000 ppm	7.75	10.30	10.12	13.49	20.24
	CO ₂ conc <2000 ppm	9.05	14.45	11.81	18.89	28.34
¹⁸ O - water		9.05	10.05	11.81	13.16	19.73
Compound-specific ¹³ C	Fatty acid methyl esters	46.35	67.00	60.72	87.70	131.56
	Other ^[3]	inquire	inquire	inquire	inquire	inquire
Molecular Analysis (\$/run, plate read or sample)						
PCR	\$/run	6.20	-	8.10	-	-
Q-PCR	\$/run	24.75	-	32.38	-	-
Plate Reader	\$/plate read	3.10	-	4.05	-	-
HPLC	\$/sample	4.15	5.15	5.40	6.75	10.12
Other services/ Miscellaneous (\$/h, day, sample)						
Lab Use Fee ^[4]	\$/h	4.15	-	5.40	-	-
Freeze-drying	\$/day	15.45	-	20.24	-	-
Soil preparation (sieving, drying, grinding,...)		Included in lab use fee (\$4.15/h)	Inquire	Included in lab use fee (\$5.40/h)	Inquire	Inquire
PLFA extractions		\$7.25/sample plus lab use fee (\$4.00/h)	Inquire	\$9.50/sample plus lab use fee (\$5.24/h)	Inquire	Inquire
Training/Consulting/Method Development ^[5]	\$/h	40.00		52.40		78.60

¹ Difficult samples require an additional charge:

C, N - solid	Concentrations outside range of standard methods; salts; liquid samples
TOC, TN - liquid	Non-filtered waters or 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
¹³ C, ¹⁵ N - solid	Salts, glass fiber or quartz filters, large samples that exceed standards range, samples encapsulated in silver capsules, highly enriched samples (> 2 atom% for C; > 1 atom% for N)
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 Daniel.Reuss@colostate.edu.

- ² Solid samples for isotope analysis should be sent to EcoCore weighed and encapsulated. Samples should be oven-dried and ground to a fine powder. We occasionally weigh and encapsulate samples for outside clients for an additional charge. Oven-drying and grinding can also be done by EcoCore upon request. Please contact Daniel.Reuss@colostate.edu for details.
- ³ 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.
- ⁴ We welcome users to use the EcoCore facility for sample preparation. An hourly bench fee is charged to cover for the use of general lab equipment (ovens, shakers, centrifuges, incubators, grinders, etc.), glassware and plastic ware, and chemicals, as well as basic support from our lab managers.
- ⁵ Training and consulting fees are charged by the hour 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.
- ⁶ 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).