

# Shchepetkina Sedimentology and Ichnology Lab Charges

(updated October 4, 2024)

Procedure	Instrument	Comment	Price per sample (government, industry)	Price per sample (academic)		Training
			Assisted	Assisted	Unassisted	
<b>Grain Size Analysis*</b>						
Grain size analysis (fine)	Micromeritics Sedigraph 5120	0.01 to 250 µm	\$70	\$50	\$20	\$50
Develop a new SOP (Standard Operating Procedure) for Micromeritics Sedigraph 5120			\$30	\$30	free	
Grain size analysis (coarse; dry seive)	Analytical sieve shaker RETSCH 200 digit with Comfort clamping device	63 µm to >4 mm (1φ step)	\$50	\$40	\$15	\$25
<b>Laboratory Analyses</b>						
Hydrogen Peroxide Pre-Treatment			\$10	\$5	\$5	
Crushing	Mortar and Pestle/ Ball mill		\$15	free	free	
Sediment drying	Drying oven BINDER	56 L	\$10	\$5	\$5	
<b>Calcium Carbonate (lime) Content Analysis**</b>						
Calcium carbonate analysis	Eijkelkamp calcimeter		\$50	\$40	\$15	\$50
<b>Core/sample description and analysis ***</b>						
Color determination	Munsell soil color chart		\$20	\$15		
Mineralogy	Binocular microscope/ 10x professional hand lens/ grain size chart		\$20	\$15		
Core/ sample photography	Camera RICOH		\$20	\$15		

All rush deliveries (< 1 week) subject to a 50% surcharge

\* Use of glassware, magnetic stirrer, deionized water, ultrasonic bath, analytical microbalance, and Calgon is included in the price

\*\* Use of calcium carbonate powder (98.5%) and hydrochloric acid is included in the price

\*\*\* Price per day of use, unassisted only

1. Unassisted analysis using the Micromeritics Sedigraph, RETSCH sieves, microbalance, and Eijkelkamp calcimeter requires training and adhering to strict laboratory protocols. Any costs to fix damaged equipment that results from user error is the responsibility of the individual user (for unassisted analyses).

2. All laboratory users must show evidence of completing lab safety training. Additionally, all Micromeritics Sedigraph operators must show evidence of completing x-ray safety training.