

Analytical Services, College of Forest Resources

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Estimated Cost Effective 01/01/2017

Sample Preparation	Method ¹	Sample Type	C o s t* / Sample	
			1--99*	100-200*
KCl Extraction for NO ₃ -N & NH ₄ -N	Method 33-3 ²	S	\$7.00	\$6.50
Bray Extraction for PO ₄ -P	Method 24-5 ²	S	\$7.00	\$6.50
Exchangeable Base & CEC for ICP & NH ₄ -N	Method 8-3 ²	S	\$12.50	\$10.50
Digest (HNO ₃ , Li ₂ SO ₄)	EPA 3050 & 3051	S,P	\$9.00	\$7.00
Digest (Kjeldahl Nitrogen) ³	EPA 351.2	W	\$10.50	\$9.00
Miscellaneous Preparation (Grind, Filter, etc.)		S,W,P	\$45.00/hr.	\$40.00/hr.
Other Extractions & Digests	(See note 1)	S,W,P	\$45.00/hr.	\$40.00/hr.
Labor only			\$45/hr	

Analysis	Method ¹	Sample Type	C o s t* / Sample	
			1-99	100+
Ammonia ³	EPA 350.1	W,S	\$5.00	\$4.50
Nitrate	EPA 353.2	W,S	\$5.00	\$4.50
Phosphate	EPA 365.1	W,S	\$5.00	\$4.50
Phosphorus Fractions	Std. Method 4500P ⁴	W	\$22.00	\$18.00
Phosphorus Fractions	Method 24-4 ²	S	\$26.00	\$22.00
Total Phosphorus - All Forms ³	EPA 365.4	S,P	\$7.00	\$4.50
Chloride ³ , Nitrate ³ , Orthophosphate ³ , Sulfate ³	EPA 300.0	W	\$12.50	\$10.50
Fluoride, Nitrite, Bromide	EPA 300.0	W	\$12.50	\$10.50
Total (Al, As, B, Ba, Ca, Cd, Cr, Cu, Fe, K, Mg, Mn Mo, Na, Ni, P, Pb, S, Se, Si, Zn)	EPA 200.7	W,S,P	\$13.00	\$10.50
Mercury	EPA 7470 & 7471	W,S	\$12.50	\$10.00
CHN (Total Carbon, Nitrogen, Hydrogen)	Method 29-2.2 ²	S,P	\$17.00	\$14.50
CHN (Total Carbon, Nitrogen, Hydrogen)(run by yourself)	Method 29-2.2 ²	S,P	\$6.00	\$5.50
Total Carbon (Organic & Inorganic)	Method 29-3.2 ²	S	\$24.00	\$21.00
TOC/TN (\$10/per for TOC)		W	\$16.00	\$14.00
pH	EPA 150.1	W	\$4.50	\$3.50
pH	Method 12-2 ²	S	\$4.50	\$3.50
Total Hardness	EPA 200.7	W	\$11.50	\$10.00
pH & Alkalinity	EPA 150.1 & 310.1	W	\$12.00	\$10.00
Specific Conductance	EPA 120.1	W	\$3.50	\$2.50
Total Suspended Solids	Std. Method 2541d ⁴	W	\$13.00	\$11.00
Bulk Density	Method 13-2 ⁵	S	\$10.00	\$8.50
Water Content	Method 21-2 ⁵	S	\$12.00	\$10.00
Particle Size	Method 15-5 ⁵	S	\$30.00	\$25.50
Base Saturation%	Method350.1	S	\$20.00	\$16.00
CEC	Method350.1	S	\$22.00	\$18.00
Other & Green house gases by GC	(See note 1)	W,S,P	\$40.00/hr.	\$35.00/hr.

S = Soil W = Water/Aqueous P = Plant

1 Others methods may also be available or requested.

2 Methods of Soil Analysis, Part 2 - Chemical and Microbiological Properties, ASA,SSSA, 2nd Edition, 1982.

3 For these tests we are certified by Washington State Department of Ecology.

4 Standard Methods for the Examination of water and wastewater, APHA-AWWA-WPCF, 17th Ed., 1989.

5 Methods of Soil Analysis, Part 1 - Physical and Mineralogical Methods, ASA,SSSA, 2nd Edition, 1982.

* **Lab will charge more for 1-10 samples used by IC, ICP, TOC/TN to urgent getting data**

(\$35-\$50/per sample) depends sample# and equipment used

* **Costumer gets more than 200 samples, the rate can be reduced.**

* **Please add 15.6% overhead for non-UW and 9.5% sales tax if applicable.(outside of campus)**