

SOIL ANALYSES

Test	Test Description	Price per Sample	Sample Size*	Notes**
S1	Sample Preparation / Drying and Grinding (required for most sample analyses)	\$2.50		
	Chemical Parameters			
S2	pH (saturated paste)	\$2.50	100g	
S3	Electrical Conductivity (ECe) (saturated paste)	\$3.50	100g	
S4	pH + ECe	\$4.50	100g	
S5	SAR - Sodium Adsorption Ratio	\$11.50	150g	
S6	pH + ECe + SAR	\$14.00	150g	
S7a	Phosphorus - Olsen NaHCO ₃ Method (Available P)	\$6.00	2.5g	
S7b	Potassium - Olsen NaHCO ₃ Method (Available K)	\$6.00	2.5g	
S7c	Phosphorus + Potassium - Olsen NaHCO ₃ Method	\$8.50	2.5g	
	Nitrate-N (Available nitrogen)			
S8a	Ca(OH) ₂ extract	\$8.00	5g	b
S8b	2N KCl extract	\$9.00	20g	b
S8c	Ammonia-N (2N KCl extract)	\$11.50	20g	a,b
S8d	Ammonia-N + Nitrate N (2N KCl extract)	\$17.00	20g	a,b
	DTPA-extractable Elements			
S9a	Micronutrients (Fe, Zn, Cu, Mn)	\$9.00	10g	
S9b	Metals (Fe, Zn, Cu, Mn, Cd, Cr, Ni, Pb)	\$10.00	10g	
S10	Sulfate-S (Available Sulfur)	\$9.00	10g	
S11	Boron - Hot-water Extractable	\$15.00	15g	
	Organic Carbon / Organic Matter			
S12a	Walkley-Black	\$11.50	0.5g	
S12b	Loss on Ignition / Ash	\$11.50	20g	
S12c	Combustion / Leco Instrument (Total C)	\$11.50	0.5g	
	Nitrogen – Total			
S13a	Kjeldahl N	\$11.50	2.0g	
S13b	Combustion (Leco Instrument)	\$11.50	0.5g	
S13c	Combustion (Leco Instrument) – client preps samples	\$ 6.00	0.2g	a
S14a	Carbon + Nitrogen (Combustion / Leco Instrument)	\$11.50	0.5g	
S14b	Carbon + Nitrogen (Leco Instr.) – client preps samples	\$ 6.00	0.2g	a
	Water-Soluble Elements (Saturation paste)			
S15a	Ca, Mg, Na, K, B, S	\$14.00	250g+	
S15b	Chloride (Cl)	\$11.50		
S15c	CO ₃ + HCO ₃	\$12.50		
S15d	Nitrate-N (NO ₃ -N)	\$12.50		
S15e	All	\$30.00		
S16	Ammonium Acetate Extractable Cations (Ca, Mg, Na, K)	\$11.50	4.0g	
	Cation Exchange Capacity			
S17a	NaOAc / NH ₄ OAc Replacement Method	\$23.00	4.0g	
S17b	Estimated - Sum of Cations (NH ₄ Cl-BaCl ₂)	\$11.50	2.5g	
S18	Exchangeable Cation Percentage (Includes tests - CEC, NH ₄ OAc-ext. cations, water-soluble cations, SP)	\$50.00	200g+	
S19	Total Element Composition - EPA 3050 Digestion + ICP analysis	\$25.00	0.5g	

S20a	Arsenic - Total by ICP-MS	\$23.00	1.0g	c
S20b	Selenium - Total by ICP/MS	\$23.00	1.0g	c
S20c	Arsenic + Selenium - Total by ICP/MS	\$30.00	1.0g	c
S21	CaCO ₃ Equivalent	\$12.00	10g	
	Physical Parameters			
S22	Coarse Fragment Analysis (> 2mm fraction)	\$6.00		
S23	Particle Size by Hydrometer	\$17.00	100g	
S24	Particle Size by Hydrometer + Sand Sieving	\$26.00	110g	
S24b	Sand Sieving (VF, F, M, C, VC)	\$11.50	10g	
S25	Texture by Feel	\$4.00	15g	
S26	Moisture Content	\$3.50		
S27	Water Holding Capacity (each point)	\$17.50	20g ea.	
S29a	Farmer Routine Package - includes pH, ECe, P, K, texture-by-feel	\$11.50		
S29b	Farmer N - includes pH, ECe, P, K, texture-by-feel, NO ₃ -N	\$21.50		
S29c	Farmer Micro - includes pH, ECe, P, K, texture-by-feel, DTPA-extractable Zn, Fe, Cu, Mn	\$21.50		
S29d	Farmer Complete - includes pH, ECe, P, K, texture-by-feel, NO ₃ -N, Zn, Fe, Cu, Mn, SO ₄ -S, Organic matter	\$47.50		
S29e	Landscape & Garden - includes pH, ECe, P, K, texture-by-feel, NO ₃ -N, Zn, Fe, Cu, Mn, SO ₄ -S, Organic matter	\$47.50		
S29f	UDOT Requirements – pH, salinity, SAR, organic matter, particle size, >2mm	\$47.50		
S30	Greenhouse Mixes - includes pH, ECe, Nitrate-N, Phosphorus, Calcium, Magnesium, Sodium, Potassium, Chloride (Saturated paste)	\$35.00		a
S32	Compost Analysis (ECe, Nitrate-N, Available P+K)	\$25.00		a
S33	Special Handling***	***		

* Sample size is for sample dried and ground to pass a 2-mm sieve. This is a minimum sample size for analysis. The lab requests twice this amount. Insufficient sample size will result in lower quality data.

** Notes:

- a. Consult laboratory prior to submission.
- b. Preservation and special handling/storage required; consult laboratory.
- c. As + Se for bulk samples possibly available at a lower cost; consult laboratory.
- d. Keep all samples at 4° C (35° F); consult laboratory.

*** Special Handling charges may be included for atypical samples, special requests, or other problems with samples. Please consult the laboratory.