



Department of Soil Science  
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For Lab Use Only:

Date:

Lab No.:

## Sample Submission Form

Customer Information		Payment Information	
<b>Please check the box below on how you would like your results sent to you:</b> (Preferably One per customer) <input type="checkbox"/> US Mail   OR <input type="checkbox"/> Email   OR <input type="checkbox"/> Fax		Account Number:	
Name:		OR Amount Paid \$	
Company Name:		<b>Method of Payment:</b> (UW Researchers Fill Funding Information Below)	
Address:		<input type="checkbox"/> Cash	
City:                      State:                      Zip:		<input type="checkbox"/> Check – Number:	
Email:		<input type="checkbox"/> Credit Card (We will contact you for number.)	
Phone:                      Fax:			
<b>UW Researchers Only</b>			
Researcher:		Department:	
Fund:	Project:	Dept. ID (UDDS):	Activity:
Budget Secretary:		Phone:	Email:
<b>Number of Samples:</b>		<ul style="list-style-type: none"><li>• UW samples must be consecutively labeled</li><li>• If not consecutively labeled, provide detailed sample list on additional page.</li></ul>	
<b>Sample Description (Important!):</b> Is your sample a <b>regulated</b> sample (i.e. from a foreign country or a US restricted area)? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes, please contact our lab prior to sending the sample and provide the proper permit with your sample.</i> Is your sample <b>radioactive</b> ? <input type="checkbox"/> Yes <input type="checkbox"/> No Do you want us to save your sample? <input type="checkbox"/> Yes (Must be picked up in 90 days) <input type="checkbox"/> No (Will be discarded after 30 days) <b>Is your sample hazardous in any way?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No Additional Comments:			
<b>Sample Types:</b>			
<input type="checkbox"/> Tissue	<input type="checkbox"/> Water <input type="checkbox"/> Other Solutions	<input type="checkbox"/> Soil/Sludge	<input type="checkbox"/> Other
Type of Tissue:	<b>MATRIX:</b> Dilution Factor: Expected Concentration: Internal Standard: Filtering Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	Already Dried? <input type="checkbox"/> Yes <input type="checkbox"/> No  Acid Treated? <input type="checkbox"/> Yes <input type="checkbox"/> No	Explain:  Acid Treated? <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Tests Requested:</b>			
<input type="checkbox"/> ICP-OES (See list of other elements on back) <input type="checkbox"/> Elemental Analysis Package 1 (P, K, Ca, Mg, S, Zn, Mn, B, Cu, Fe, Na, Al) <input type="checkbox"/> Elemental Analysis Package 2 (As, Ba, Cd, Cr, Co, Pb, Li, Mo, Ni, Se)		(LECO CNS 2000 at 1350°C; Dry or Solution Samples) <input type="checkbox"/> Total C <input type="checkbox"/> Total S <input type="checkbox"/> Total N <input type="checkbox"/> C:N Ratio	
<input type="checkbox"/> ICP-MS (Please list element(s) – see back):		Organic & Inorganic Carbon <input type="checkbox"/> Organic C at 900°C (SPAL method) <input type="checkbox"/> Organic C at ____°C (client specified temp.) <input type="checkbox"/> Inorganic C by difference (TC - OC)	
<input type="checkbox"/> Chloride (Chloridometer)		(LECO CNS 2000)	
<input type="checkbox"/> Inorganic Anions (Ion Chromatography) Matrix: _____		Physical Analysis (% sand, silt & clay): <input type="checkbox"/> Dry Without Ashing <input type="checkbox"/> Wet <input type="checkbox"/> Dry With Ashing (additional charge) <input type="checkbox"/> ASTM D422	
Nitrogen (Flow Injection) <input type="checkbox"/> Total (TN) <input type="checkbox"/> Total Kjeldahl (TKN) <input type="checkbox"/> NH <sub>4</sub> <sup>+</sup> <input type="checkbox"/> NO <sub>3</sub> <sup>-</sup>		<input type="checkbox"/> Other	
<input type="checkbox"/> Soluble Salts (Electrical Conductivity)			
<input type="checkbox"/> Alkalinity (Solution samples only)			
<input type="checkbox"/> Solids (% Moisture – Over dried at 105°C)			
<input type="checkbox"/> Ash			

**ICP-OES Analysis List of Elements\*\*:**

Element	Limit of Detection (LODs) (mg/liter or ppm)	Element	Limit of Detection (LODs) (mg/liter or ppm)
Al	0.06	Mn	0.0004
As	0.03	Mo	0.005
B	0.004	Na	0.006
B (high Fe)	0.02	Ni	0.003
Ba	0.0003	Ni (high Fe)	0.03
Ca	0.02	P	0.05
Cd	0.004	Pb	0.02
Co	0.003	S	0.05
Cr	0.002	Se	0.04
Cu	0.006	Si	0.007
Fe	0.001	Ti	0.002
K	0.03	V	0.004
Li	0.006	Y	0.009
Mg	0.008	Zn	0.001

**ICP-MS Analysis List of Elements\*\*:**

Element	Limit of Detection (LODs) (ng/ml or ppb)	Element	Limit of Detection (LODs) (ng/ml or ppb)	Element	Limit of Detection (LODs) (ng/ml or ppb)
Ag	0.02	Hg (NB)	0.1	Ru	*
Al	0.05	Hg (HG)	0.03	S	500
As (NB)	0.1	Ho	0.005	Sb (NB)	0.02
As (HG)	0.008	I	0.05	Sb (HG)	0.004
Au	0.02	In	0.01	Sc	0.03
B	0.2	Ir	*	Se (NB)	2
Ba	0.02	K	10	Se (HG)	0.01
Be	0.02	La	0.005	Si	70
Bi	0.005	Li	0.01	Sm	0.03
Br	2	Lu	0.002	Sn	0.04
Ca	5	Mg	0.3	Sr	0.01
Cd	0.08	Mn	0.03	Ta	0.002
Ce	0.005	Mo	0.08	Tb	0.005
Cl	200	Na	0.3	Te (NB)	0.1
Co	0.01	Nb	0.01	Te (HG)	0.002
Cr	0.04	Nd	0.02	Th	0.005
Cs	0.006	Ni	0.05	Ti	0.3
Cu	0.07	Os	*	Tl	0.006
Cy	0.01	P	30	Tm	0.005
Er	0.006	Pb	0.01	U	0.006
Eu	0.006	Pd	0.08	V	0.06
Fe	2	Pr	0.005	W	0.02
Ga	0.04	Pt	0.02	Y	0.005
Gd	0.02	Rb	0.01	Yb	0.007
Ge	0.1	Re	*	Zn	0.2
Hf	0.02	Rh	*	Zr	0.01

\* Not measured. Expected to be <0.05 ng/ml.

(NB): Regular nebulizer sample introduction

(HG): Hydride generation or cold vapor sample introduction

These are LODs of elements in 1% HNO<sub>3</sub>. LODs for real-world samples may be lower or higher, depending on actual measuring conditions.

**\*\*If element needed is not listed, please call the laboratory. Thank you!**

Note: This form is also available on our website at: <http://uwlab.soils.wisc.edu>