

Yellowknife Community Garden Collective
Site 1

Overall Physical and Chemical Properties

Date	Parameter	Value	Optimal Value	Notes
Fall 2012	pH	7.4	6 - 7	
	Texture			

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Contaminants (CCME Metals)					
Date	Parameter	Value	CCME Contaminant Guideline - Agriculture (mg/kg)	Nutrient Recommended Value (mg/kg)	Notes
Fall 2012	Antimony (Sb)	0.2	20		
	Arsenic (As) -inorganic	15	12		** Not worried about this value - within accepted range for YK.
	Barium (Ba)	99	750		
	Beryllium (Be)	0.3	4		
	Boron (B)	1.4	2	>3.5	
	Cadmium (Cd)	0.18	1.4		
	Chromium (Cr)	20.8	64		
	Cobalt (Co)	5.6	40		
	Copper (Cu)	18	63	>1.0	
	Lead (Pb)	4.9	70		
	Mercury (Hg) - inorganic	0.03	6.6		
	Molybdenum (Mo)	1	5		
	Nickel	14.9	50		
	Selenium (Se)	1.6	1		Doesn't seem excessively high. Ok I think.
	Silver (Ag)	0.1	20		
	Thallium (Th)	0.08	1		
	Tin (Sn)	2	5		
	Vanadium (V)	19.4	130		
	Zinc (Zn)	38	200		

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Nutrient	Soil Test Result (ppm)	Soil Test Result (kg/ha) *	Depth (cm)	Nutrient Deficient (kg/ha)			Nutrient Marginal (kg/ha)			Nutrient Adequate (kg/ha)		
				<24	24-45	46-67	68-90	91-112	113-134	136-157	158-179	>179
N-Nitrate	19	76	0-60 cm	<24	24-45	46-67	68-90	91-112	113-134	136-157	158-179	>179
N-NH ₄ ⁺												
Phosphorus (P)	110	440	0-15 cm	<12	12-22	24-28	29-34	35-45	46-56	57-78	79-101	>101
Potassium (K)	225	900	0-15 cm	<57	57-112	113-168	169-224	225-280	281-336	337-448	449-672	>672
Sulphur (S)			0-60 cm	<7	7-11	12-17	18-22	24-28	29-34	35-45	46-56	>56
Sulphate (SO ₄ ²⁻)	154	616										
* We have assumed a soil depth of 30 cm (12") to convert soil test values from ppm to kg/ha. Calculation: kg/ha = ppm x 2 x sample depth (30cm) / 15 cm, as suggested by XX (ref).												

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