

Yellowknife Community Garden Collective
Old Town Garden

Overall Physical and Chemical Properties

Date	Parameter	Value	Optimal Value	Notes
2009	pH	7.5	6 - 7	
Fall 2012		7.1		
	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)	0.5	20		
	Arsenic (As) -inorganic	35.6	12		** This guideline is not specifically for YK area.
	Barium (Ba)	96	750		
	Beryllium (Be)	0.3	4		
	Boron (B)	1.7	2	>3.5	
	Cadmium (Cd)	0.19	1.4		
	Chromium (Cr)	19.7	64		
	Cobalt (Co)	4.9	40		
	Copper (Cu)	18	63	>1.0	
	Lead (Pb)	7.6	70		
	Mercury (Hg) - inorganic	0.09	6.6		
	Molybdenum (Mo)	1	5		
	Nickel	12.3	50		
	Selenium (Se)	1.7	1		
	Silver (Ag)	0.1	20		
	Thallium (Th)	0.08	1		
	Tin (Sn)	2	5		
	Vanadium (V)	18.7	130		
	Zinc (Zn)	49	200		

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Macro-nutrients

Date Measured	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
May 11 2009	N-Nitrate	33	132	0-60 cm	<24	24-45	46-67	68-90	91-112	113-134	136-157	158-179	>179
	N-NH ₄ ⁺												
	Phosphorus (P)	210	840	0-15 cm	<12	12-22	24-28	29-34	35-45	46-56	57-78	79-101	>101
	Potassium (K)	480	1920	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⁻)	42	168										
* 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).													