

PSAI

March 18, 2017

Urban Systems

①

MMCD

Sample

Mackenzia  
Interchange

Sample	pH	Est E.C. mmhos cm	Lime Rqmt lbs 1000 sq. ft	Total O.M. %	Total N %	C/N	Bray					Avail > 2mm %	Sand %	Silt %	Clay %	Text. Class	
							Avail P ppm	Avail K ppm	Avail Ca ppm	Avail Mg ppm	Avail Na ppm						
NE Quadrant	6.2	0.40	X	5.2	0.14	21.6	40	80	2100	490	✓	36.1	63.9	34.6	44.9	20.5	L
	✓	✓			VL	✓	M	M	✓	SH		-BE gravel -pea gravel					
SE Quadrant	6.0	0.32	X	5.1	0.11	26.9	35	100	2250	585	✓	26.4	73.6	30.3	48.5	21.2	SIL
	✓	✓			VL	✓	M	M	✓	SH		-BE gravel -pea gravel					

① These 4 soils are fairly similar in composition. The average results of the main factors determining suitability as a planting medium are:

- A. ~ 34% BE (birds-eye gravel) plus peagravel
- B. ~ 66% < 2mm fraction
- C. ~ 34% sand
- D. ~ 66% fine (silt plus clay)
- E. ~ 5.6% organic matter

Nutrient Legend VL= Very Low    L= Low    M= Moderate    (V) = Adequate    SH= Slightly High    H= High

Unit # 5 - 11720 Voyageur Way, Richmond, B. C.    V6X 3G9    604-273-8226

Urban Systems

(2)

MMCD

Sample

MacKenzie Interchange

Sample	pH	Est E.C. mmhos/cm	Lime Rqmt lbs/1000 sq. ft	Total O.M. %	Total N %	C/N	Bray				Avail Na ppm	Avail Mg ppm	Avail Ca ppm	Avail K ppm	Avail P ppm	Avail > 2mm < 2 mm %	Sand %	Silt %	Clay %	Text. Class
							Avail N ppm	Avail K ppm	Avail Ca ppm	Avail Mg ppm										
NW Quadrant	5.9	0.28	20	6.2	0.16	22.5	50	115	2250	455	✓	39.7	60.3	34.2	46.9	18.9	L			
	✓	✓			VL	✓	M	M	✓	SH										
SW Quadrant	5.7	0.26	20	6.0	0.14	24.9	68	95	1900	415	✓	33.5	66.5	35.2	47.5	17.3	L			
	✓	✓			VL	✓	M	M	✓	SH										

- BE gravel  
- pea gravel

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2. If the >2mm fraction remains part of the "whole sample" since BE gravel can not easily be screened out, then the BE gravel fraction is considered as a "jumbo sand", and all results would become  
 A. ~53% sand + sand-like  
 B. ~41% fines (silt + clay)  
 C. ~6% organic matter

3. The Victoria mncd spec allows for 35% fines maximum per low traffic lawns and tree installations. 35% fines is also the maximum for BC Landscape Society spec 2L lawns & trees. In order to meet the mncd spec, sand would need to be added at a 4parts existing soil to 1 part sand.

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