

Appendix "D" – Soils Matrix

SOIL TYPES AND CHARACTERISTICS										
SOIL #	SLOPE	DRAINAGE	GEOLOGY	PROFILE	PERMEABILITY	WATER CAPACITY	TREES	BUILDING	SANITARY	NOTE
ANTIGO SILT LOAM 49	0-2%	WELL DRAINED	GLACIAL OUTWASH	13" SILT LOAM, SUBSOIL 25" SILT LOAM/LOAM, UNDERLYING COARSE SAND AND GRAVEL	UPPER-MODERATE LOWER- VERY RAPID	MODERATE	GOOD	FAIR	POOR	GOOD SOURCE SAND AND GRAVEL FOR CONSTRUCTION
49B	2-6%	"	"	11" SILT LOAM, SUBSOIL 22" SILT LOAM/LOAM, UNDERLYING GRAVELLY SAND & GRAVELLY COARSE SAND	"	"	"	"	"	"
49C	6-12%	"	"	13" SILT LOAM, SUBSOIL 25" SILT LOAM/LOAMY SAND, UNDERLYING GRAVELLY SAND	"	"	"	"	"	"
49D	12-18%	"	"	24" SILT LOAM, UNDERLYING COARSE SAND & GRAVEL	"	"	"	"	"	EROSION CONTROL DURING CONTRUC.
BRILL SILT LOAM 120	GENTLY SLOPING	MODERATELY WELL DRAINED	DRAINAGEWAYS/ DEPRESSIONS	35" SILT LOAM, UNDERLYING GRAVELLY COARSE SAND, LOAMY FINE SAND, FINE SAND	UPPER-MODERATE LOWER- VERY RAPID	MODERATE	GOOD	FAIR DRAINTILE	POOR	"
SANTIAGO SILT LOAM 153B	2-6%	WELL DRAINED	TILL PLAINS, PLANE TO SLIGHTLY CONVEX	10" SILT LOAM, 35" SILT LOAM TO SANDY LOAM, UNDERLYING SANDY LOAM	MODERATELY SLOW	HIGH	GOOD	GOOD	FAIR	"
CHETEK SANDY LOAM 155C	6-12%	EXCESSIVELY DRAINED	OUTWASH PLAIN	18" SANDY LOAM, UNDERLYING GRAVELLY SAND AT TIMES <15% COARSE FRAGMENTS	MODERATELY RAPID, RAPID BELOW	LOW	FAIR	GOOD	POOR	SOURCE OF SAND FOR CONSTR.
155D	12-25%	"	"	14" SANDY LOAM UNDERLYING SAND AND GRAVEL	"	"	"	FAIR	POOR	"
GOTHAM LOAMY SAND 177B	1-6%	WELL DRAINED	PITTED OUTWASH PLAINS, AREAS OF COLLAPSED ALLUVIUM	20" LOAMY SAND 13" LOAMY SAND +3% MORE CLAY, AND UNDERLYING LOAMY SAND	RAPID	LOW	FAIR TO POOR	GOOD	POOR	"
AUBURDALE SILT LOAM 189	LEVEL/ DEPRESSIONAL	POOR	LOESS OVER GLACIAL TILL , ON PLAINS OR MORAINES	12" SILT LOAM, 33" SILT LOAM, UNDERLYING SANDY LOAM	MODERATE TO MODERATELY SLOW (PONDS)	HIGH	POOR	POOR	POOR	GOOD WILDLIFE HABITAT
FREEON SILT LOAM 264	1-4%	MODERATELY WELL DRAINED	LOESS OVER GLACIAL TILL , ON PLAINS OR MORAINES	12" SILT LOAM, 42" SILT LOAM TO SANDY LOAM	MODERATE TO MODERATELY SLOW	HIGH	GOOD	FAIR	POOR	WATER TABLE, 3-5'
FREER SILT LOAM 266	LEVEL	POOR	TILL PLAINS, MORAINES	12" SILT LOAM 25" SILT LOAM UNDERLYING SANDY LOAM	MODERATE TO MODERATELY SLOW	HIGH	FAIR	FAIR	POOR	WATER TABLE, 1-3'
LINDSTROM SILT LOAM 301B	2-4%	WELL DRAINED	BOTTOM OF STEEP HILLS	37" SILT LOAM 21" SILT LOAM UNDERLYING SILT LOAM	MODERATE	VERY HIGH	GOOD	GOOD	GOOD	"
ROSHOLT SANDY LOAM 302B	1-6%	WELL DRAINED	OUTWASH PLAIN	31" SANDY LOAM UNDERLYING GRAVELLY SAND	MODERATELY RAPID , VERY RAPID UNDERLYING	LOW	FAIR	GOOD	POOR	SOURCE OF SAND/ GRAVEL
302C	6-15%	"	"	34" SANDY LOAM TO LOAMY SAND UNDERLYING GRAVELLY SAND	"	"	"	"	"	"
KINGSLEY SANDY LOAM 342C	6-12%	WELL DRAINED	MORAINES	32" SANDY LOAM UNDERLYING SANDY LOAM	MODERATELY SLOW	MODERATE	GOOD	GOOD	FAIR TO GOOD	"
342D	12-18%	"	STEEP SIDE SLOPES, MORAINES	25" SANDY LOAM UNDERLYING SANDY LOAM	"	"	"	FAIR	POOR	"
342E	18-30%	"	VERY STEEP, MORAINES	20" SANDY LOAM UNDERLYING SANDY LOAM	"	"	POOR	POOR	POOR	"

SOIL TYPES AND CHARACTERISTICS (CONTD.)										
SOIL #	SLOPE	DRAINAGE	GEOLOGY	PROFILE	PERMEABILITY	WATER CAPACITY	TREES	BUILDING	SANITARY	NOTE
CAMPPIA SILT LOAMS 367B	0-8%	WELL DRAINED	GLACIAL LAKE PLAIN	15" SILT LOAM 25" SILT LOAM UNDERLYING SILT LOAM	MODERATELY	HIGH	GOOD	GOOD DRAINTILE	FAIR	
CRYSTAL LAKE SILT LOAM 449	1-3%	MOD. WELL DRAINED	GLACIAL LAKE PLAIN/ TERRACE	38" SILT LOAM UNDERLYING SILT LOAM	MODERATE	HIGH	GOOD	FAIR (WET)	POOR	
COMSTOCK SILT LOAM 452	LEVEL	POORLY DRAINED	GLACIAL LAKE PLAIN/ TERRACE (PONDS)	52" SILT LOAM UNDERLYING SILT LOAM	MODERATE	HIGH	FAIR	POOR	POOR	WATER TABLE 1-3' WET SEASONS
MAHTOMEDI LOAMY SAND 454B	0-6%	EXCESSIVELY	MORAINES/ OUTWASH PLAIN (CRESTS)	8" LOAMY SAND 19" GRAVELLY SAND TO MEDIUM SAND UNDERLYING GRAVELLY AND MEDIUM SAND	RAPID	VERY LOW	FAIR	GOOD	POOR	
454D	12-25%			8" LOAMY SAND 22" GRAVELLY COARSE SAND TO GRAVELLY SAND UNDERLYING GRAVELLY SAND				FAIR		
BARONNETT SILT LOAM 456	LEVEL	POORLY DRAINED	GLACIAL LAKE PLAIN/ TERRACE	12" SILT LOAM 27" FRIABLE SILTY CLAY LOAM TO FRIABLE SILT LOAM UNDERLYING SILT LOAM	MODERATELY SLOW	VERY HIGH	POOR	POOR	POOR	
POSKIN SILT LOAM 507	GENTLE SLOPE	POORLY DRAINED	DRAINAGEWAYS/ DEPRESSIONS OUTWASH PLAIN	33" SILT LOAM UNDERLYING, MEDIUM AND COARSE SAND	MODERATE ABOVE, RAPID IN UNDERLYING MATERIAL	MODERATE	FAIR	POOR	POOR	
CATHRO MUCK 544	LEVEL	VERY POORLY DRAINED	BOG FRINGE GLACIAL TILL, LAKE PLAINS	32" MUCK 6" MUCKY PEAT UNDERLYING LOAM, SILT LOAM AND SANDY LOAM	VARIES FROM MODERATELY SLOW TO MODERATELY RAPID IN ORGANIC LAYERS	HIGH	POOR	POOR	POOR	WETLAND WILDLIFE HABITAT
MAHTOMEDI-KINGSGLEY COMPLEX 896C	3-12%	EXCESSIVELY & WELL DRAINED	RIDGETOPS & SIDESLOPES, TERMINAL MORAINES	8" LOAMY SAND 30" COARSE SAND TO GRAVELLY COARSE SAND UNDERLYING SAND	RAPID TO MODERATELY SLOW	LOW	FAIR	GOOD	FAIR TO POOR	MODERATE EROSION POTENTIAL
896D	12-25%			8" LOAMY SAND 22" COARSE SAND TO GRAVELLY COARSE SAND UNDERLYING GRAVELLY SAND				FAIR	POOR	
PITS, GRAVEL 1029	EXCAVATIONS, STOCKPILES	NA	NA	NA	NA	NA	NA	NA	NA	
UDIFLUENTS 1033	LEVEL	POORLY DRAINED	SHORELINES	VARIABLE	VARIABLE	LOW	POOR	POOR	POOR	PROTECT VEG, WATER TABLE WITHIN 4' MOSTLY BEACHES
AQUOLIS & HISTOSOLS, PONDED 1055	LEVEL	POORLY DRAINED	ORGANIC SOILS AROUND LAKES OR RIVERS	AQUOLIS & HISTOSOLS,	VERY SLOW	VERY HIGH	POOR	POOR	POOR	WATERFOWL HABITAT, AND OTHERS
BARRONNETT SILT LOAM SANDY SUBSTRATUM 1847	LEVEL	POORLY DRAINED	OUTWASH PLAIN DRAINAGEWAYS/ DEPRESSIONS	42" SILT LOAM UNDERLYING LOAMY SAND TO SAND AND GRAVEL	MODERATELY SLOW TO VERY RAPID BELOW	VERY HIGH	FAIR	POOR	POOR	WATER TABLE <1'