

Section II
Soil and Site Information

Construction Materials Table 2
Butte County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AbA: Absher-----	55	Poor Salinity Sodium content Too clayey Low content of organic matter Water erosion	0.00 0.00 0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Salinity Too Clayey	0.00 0.00 0.00
Loburn-----	30	Poor Sodium content Too clayey Low content of organic matter Salinity	0.00 0.00 0.12 0.50	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Too Clayey Salinity	0.00 0.00 0.00
AbB: Absher-----	50	Poor Salinity Sodium content Too clayey Low content of organic matter Water erosion	0.00 0.00 0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Salinity Too Clayey	0.00 0.00 0.00
Loburn-----	30	Poor Sodium content Too clayey Low content of organic matter Salinity	0.00 0.00 0.12 0.50	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Too Clayey Salinity	0.00 0.00 0.00
AeB: Absher-----	50	Poor Salinity Sodium content Too clayey Low content of organic matter Water erosion	0.00 0.00 0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Salinity Too Clayey	0.00 0.00 0.00
Slickspots, Dry-----	30	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AfB: Alice-----	85	Fair Low content of organic matter	0.88	Good		Good	
AfC: Alice-----	80	Fair Low content of organic matter	0.88	Good		Good	
AlA: Altvan-----	85	Poor Too sandy Low content of organic matter Droughty Water erosion	0.00 0.12 0.82 0.99	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.92
AlB: Altvan-----	85	Fair Low content of organic matter Too sandy Droughty Water erosion	0.12 0.22 0.82 0.99	Good		Poor Rock fragments Too sandy Hard to reclaim	0.00 0.22 0.92
AnA: Archin-----	60	Poor Sodium content Low content of organic matter Salinity Water erosion	0.00 0.12 0.97 0.99	Good		Poor Salinity Sodium content	0.00 0.22
Slickspots, Dry-----	30	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ArA: Arvada-----	90	Poor Sodium content Too alkaline Low content of organic matter Too clayey Water erosion	0.00 0.00 0.12 0.24 0.90	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Too Clayey Rock fragments	0.00 0.14 0.97
AsA: Arvada-----	60	Poor Sodium content Too alkaline Low content of organic matter Too clayey Water erosion	0.00 0.00 0.12 0.24 0.90	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Too Clayey Rock fragments	0.00 0.14 0.97
Slickspots, Dry----	30	Not rated		Not rated		Not rated	
AtA: Assinniboine-----	90	Fair Low content of organic matter	0.12	Good		Good	
BaA: Baca-----	90	Fair Low content of organic matter Water erosion	0.12 0.90	Good		Good	
BaB: Baca-----	90	Fair Low content of organic matter Water erosion	0.12 0.90	Good		Good	
Bd: Badland-----	75	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Be: Barnum-----	90	Fair Low content of organic matter Water erosion	0.88 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Salinity	0.88
Bh: Barnum-----	90	Fair Low content of organic matter Water erosion	0.88 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Salinity	0.88
BlA: Belfield-----	60	Fair Low content of organic matter Sodium content Too clayey Salinity Water erosion	0.12 0.22 0.32 0.88 0.90	Poor Low strength Shrink-swell	0.00 0.17	Poor Salinity Sodium content Too Clayey	0.00 0.02 0.19
Loburn-----	30	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Too Clayey Salinity	0.00 0.00 0.00
BlB: Belfield-----	60	Fair Low content of organic matter Sodium content Too clayey Salinity Water erosion	0.12 0.22 0.32 0.88 0.90	Poor Low strength Shrink-swell	0.00 0.17	Poor Salinity Sodium content Too Clayey	0.00 0.02 0.19

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Loburn-----	30	Poor Sodium content Too clayey Low content of organic matter Salinity Water erosion	0.00 0.00 0.12 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Too Clayey Salinity	0.00 0.00 0.00
BmA: Bidman-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Fair Shrink-swell Low strength	0.72 0.78	Poor Too Clayey	0.00
BmB: Bidman-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Fair Shrink-swell Low strength	0.72 0.78	Poor Too Clayey	0.00
BrB: Bidman-----	60	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Fair Shrink-swell Low strength	0.72 0.78	Poor Too Clayey	0.00
Redig-----	30	Fair Low content of organic matter	0.12	Fair Shrink-swell	0.87	Poor Rock fragments Hard to reclaim	0.00 0.00
BsB: Boneek-----	90	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Low strength Depth to bedrock	0.00 0.58	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BsC: Boneek-----	90	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Low strength Depth to bedrock	0.00 0.58	Good	
BtB: Broadhurst-----	85	Poor Too clayey Too acid Low content of organic matter Salinity Water erosion	0.00 0.20 0.50 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Salinity Too acid	0.00 0.00 0.76
BuD: Butche-----	50	Poor Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.88	Poor Depth to bedrock Slope	0.00 0.98	Poor Depth to bedrock Rock fragments Slope	0.00 0.00 0.00
Boneek-----	30	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Low strength Depth to bedrock	0.00 0.58	Good	
BvF: Butche-----	50	Poor Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.88	Poor Depth to bedrock Slope	0.00 0.00	Poor Slope Depth to bedrock Rock fragments	0.00 0.00 0.00
Rock Outcrop, Sandy-	30	Not rated		Not rated		Not rated	
CaF: Cabbart-----	80	Poor Droughty Depth to bedrock Low content of organic matter Carbonate content	0.00 0.00 0.88 0.97	Poor Depth to bedrock Slope Low strength	0.00 0.00 0.00	Poor Slope Depth to bedrock Carbonate content	0.00 0.00 0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CbD: Cabbart-----	45	Poor Droughty Depth to bedrock Low content of organic matter Carbonate content	0.00 0.00 0.88 0.97	Poor Depth to bedrock Low strength	0.00 0.00	Poor Depth to bedrock Slope Carbonate content	0.00 0.37 0.97
Lismas-----	35	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.12 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope Rock fragments	0.00 0.00 0.37 0.97
CcF: Cabbart-----	50	Poor Droughty Depth to bedrock Low content of organic matter Carbonate content	0.00 0.00 0.88 0.97	Poor Depth to bedrock Slope Low strength	0.00 0.00 0.00	Poor Slope Depth to bedrock Carbonate content	0.00 0.00 0.97
Rock Outcrop, Sandstone-----	40	Not rated		Not rated		Not rated	
CgD: Cabbart-----	50	Poor Droughty Depth to bedrock Low content of organic matter Carbonate content	0.00 0.00 0.88 0.97	Poor Depth to bedrock Low strength Slope	0.00 0.00 0.98	Poor Depth to bedrock Slope Carbonate content	0.00 0.00 0.97
Scroggin-----	30	Fair Droughty Low content of organic matter Depth to bedrock	0.44 0.50 0.58	Poor Depth to bedrock Low strength Slope	0.00 0.00 0.50	Poor Slope Depth to bedrock	0.00 0.58

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ClF: Canyon-----	50	Poor Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.88 0.99	Poor Depth to bedrock Slope	0.00 0.00	Poor Slope Depth to bedrock Rock fragments	0.00 0.00 0.03
Colby-----	25	Fair Carbonate content Low content of organic matter Water erosion	0.46 0.50 0.90	Poor Slope Low strength	0.00 0.00	Poor Slope Carbonate content	0.00 0.46
CmA: Nunn-----	90	Fair Low content of organic matter Water erosion	0.12 0.99	Fair Shrink-swell	0.72	Good	
CmB: Nunn-----	90	Fair Low content of organic matter Water erosion	0.12 0.99	Fair Shrink-swell	0.72	Good	
CmC: Nunn-----	85	Fair Low content of organic matter Water erosion	0.12 0.99	Fair Shrink-swell	0.72	Good	
CnA: Chinook-----	90	Fair Low content of organic matter	0.12	Good		Good	
CoD: Colby-----	50	Fair Carbonate content Low content of organic matter Water erosion	0.46 0.50 0.90	Poor Low strength	0.00	Fair Carbonate content Slope	0.46 0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Canyon-----	30	Poor Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.88 0.99	Poor Depth to bedrock Slope	0.00 0.50	Poor Slope Depth to bedrock Rock fragments	0.00 0.00 0.03
DsA: Dix-----	80	Poor Too sandy Droughty Low content of organic matter	0.00 0.00 0.12	Good		Poor Hard to reclaim Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00 0.02
EpD: Epsie-----	85	Poor Too clayey Droughty Salinity Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.00 0.12 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.39	Poor Too Clayey Salinity Depth to bedrock Slope	0.00 0.00 0.00 0.04
EsE: Epsie-----	70	Poor Too clayey Droughty Salinity Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.00 0.12 0.99	Poor Depth to bedrock Low strength Slope Shrink-swell	0.00 0.00 0.00 0.39	Poor Too Clayey Salinity Depth to bedrock Slope	0.00 0.00 0.00 0.00
Rock Outcrop, Soft--	30	Not rated		Not rated		Not rated	
GgA: Glenberg-----	85	Fair Low content of organic matter	0.50	Good		Fair Rock fragments	0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
GgB: Glenberg-----	85	Fair Low content of organic matter	0.50	Good		Fair Rock fragments	0.97
Gh: Glenberg-----	45	Fair Low content of organic matter	0.88	Good		Fair Rock fragments	0.97
Haverson-----	45	Fair Low content of organic matter	0.50	Fair Low strength Shrink-swell	0.22 0.87	Good	
GnC: Graner-----	90	Poor Too clayey Too acid	0.00 0.08	Poor Low strength Shrink-swell	0.00 0.87	Poor Too Clayey Slope Too acid	0.00 0.04 0.50
GrE: Grummit-----	90	Poor Too clayey Droughty Depth to bedrock Too acid Low content of organic matter	0.00 0.00 0.00 0.08 0.88	Poor Depth to bedrock Low strength Slope Shrink-swell	0.00 0.00 0.50 0.87	Poor Slope Too Clayey Depth to bedrock Too acid	0.00 0.00 0.00 0.50
Ha: Hanly-----	85	Poor Wind erosion Too sandy Low content of organic matter	0.00 0.00 0.12	Good		Poor Too sandy	0.00
HeA: Haverson-----	80	Fair Low content of organic matter	0.50	Fair Shrink-swell	0.87	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HeB: Haverson-----	80	Fair Low content of organic matter	0.50	Fair Shrink-swell	0.87	Good	
HlB: Hisle-----	80	Poor Too clayey Sodium content Droughty Depth to bedrock Salinity Water erosion	0.00 0.00 0.00 0.58 0.97 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Sodium content Salinity Depth to bedrock	0.00 0.00 0.00 0.58
HsB: Hisle-----	55	Poor Too clayey Sodium content Droughty Depth to bedrock Salinity Water erosion	0.00 0.00 0.00 0.58 0.97 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Sodium content Salinity Depth to bedrock	0.00 0.00 0.00 0.58
Slickspots, Dry----	30	Not rated		Not rated		Not rated	
KeA: Keith-----	90	Fair Low content of organic matter Water erosion	0.12 0.90	Good		Good	
KeB: Keith-----	90	Fair Low content of organic matter Water erosion	0.12 0.90	Good		Good	
KeC: Keith-----	85	Fair Low content of organic matter Water erosion	0.12 0.90	Good		Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
K1A: Kyle-----	90	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.78 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.40 0.88
K1B: Kyle-----	90	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.78 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.40 0.88
K1C: Kyle-----	85	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.78 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.40 0.88
Kt: Kyle-----	95	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.78 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.40 0.88
KuB: Kyle-----	50	Poor Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.12 0.78 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Sodium content Salinity	0.00 0.40 0.88

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pierre-----	30	Poor Too clayey Droughty Low content of organic matter Depth to bedrock Sodium content Water erosion	0.00 0.00 0.50 0.58 0.90 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Sodium content	0.00 0.58 0.90
LaF: Lakoa-----	50	Fair Low content of organic matter Too acid Too clayey	0.12 0.97 0.98	Poor Slope Low strength Shrink-swell	0.00 0.78 0.87	Poor Slope Too Clayey Hard to reclaim	0.00 0.64 0.95
Colby-----	35	Fair Carbonate content Low content of organic matter Water erosion	0.46 0.50 0.90	Poor Low strength Slope	0.00 0.08	Poor Slope Carbonate content	0.00 0.46
LcE: Lismas-----	75	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.12 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope Rock fragments	0.00 0.00 0.04 0.97
LeD: Lismas-----	50	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.12 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope Rock fragments	0.00 0.00 0.63 0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pierre-----	35	Poor Too clayey Droughty Low content of organic matter Depth to bedrock Sodium content Water erosion	0.00 0.00 0.50 0.58 0.90 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Slope Depth to bedrock Sodium content	0.00 0.37 0.58 0.90
Lm: Haverson-----	90	Fair Low content of organic matter	0.50	Fair Low strength Shrink-swell	0.22 0.87	Good	
LnA: Lohmiller-----	80	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
LnB: Lohmiller-----	80	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
Lo: Sage-----	95	Poor Salinity Too clayey Droughty Low content of organic matter Water erosion	0.00 0.00 0.21 0.50 0.99	Poor Shrink-swell Low strength Depth to saturated zone Depth to bedrock	0.00 0.00 0.00 0.58	Poor Salinity Too Clayey Depth to saturated zone	0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ls: Lohmiller Variant---	95	Poor Too clayey Low content of organic matter Too acid Water erosion	0.00 0.50 0.54 0.90	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Too acid	0.00 0.98
MaA: Manter-----	85	Good		Good		Fair Rock fragments	0.97
MaB: Manter-----	85	Good		Good		Fair Rock fragments	0.97
McA: Manvel-----	95	Fair Carbonate content Low content of organic matter Water erosion	0.46 0.50 0.90	Poor Low strength	0.00	Fair Carbonate content	0.46
McB: Manvel-----	85	Fair Carbonate content Low content of organic matter Water erosion	0.46 0.50 0.90	Poor Low strength	0.00	Fair Carbonate content	0.46
Mh: Aquolls-----	100	Fair Too clayey Water erosion	0.68 0.99	Poor Depth to saturated zone Shrink-swell	0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.53
MLA: Mawer-----	80	Fair Low content of organic matter Droughty	0.50 0.75	Good		Poor Rock fragments Hard to reclaim	0.00 0.32

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MLB: Mawer-----	80	Fair Low content of organic matter Droughty	0.50 0.75	Good		Poor Rock fragments Hard to reclaim	0.00 0.32
Mn: Mckenzie-----	90	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone Salinity	0.00 0.00 0.88
MoE: Midway-----	80	Poor Droughty Depth to bedrock Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.00 0.00 0.12 0.60 0.99	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.12 0.98	Poor Depth to bedrock Too Clayey Slope Sodium content Salinity	0.00 0.00 0.00 0.60 0.88
MrD: Midway-----	50	Poor Droughty Depth to bedrock Too clayey Low content of organic matter Sodium content Water erosion	0.00 0.00 0.00 0.12 0.60 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to bedrock Too Clayey Sodium content Salinity Slope	0.00 0.00 0.60 0.88 0.96
Razor-----	30	Poor Too clayey Low content of organic matter Depth to bedrock Droughty Water erosion	0.00 0.12 0.58 0.58 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.15	Poor Too Clayey Depth to bedrock	0.00 0.58

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ms: Minatare-----	55	Poor Too alkaline Sodium content Too clayey Salinity	0.00 0.00 0.00 0.00	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.53 0.73	Poor Sodium content Too Clayey Salinity Hard to reclaim Depth to saturated zone	0.00 0.00 0.00 0.18 0.53
Whitelake-----	40	Poor Sodium content Salinity	0.00 0.88	Fair Shrink-swell	0.99	Poor Sodium content Salinity	0.00 0.00
Mt: Orthents, Tailings--	100	Not rated		Not rated		Not rated	
MuB: Minnequa-----	85	Fair Low content of organic matter Droughty Depth to bedrock Carbonate content Sodium content Water erosion	0.12 0.22 0.58 0.68 0.78 0.99	Poor Depth to bedrock Low strength	0.00 0.22	Fair Depth to bedrock Carbonate content Sodium content	0.58 0.68 0.78
MuC: Minnequa-----	85	Fair Low content of organic matter Droughty Depth to bedrock Carbonate content Sodium content Water erosion	0.12 0.22 0.58 0.68 0.78 0.99	Poor Depth to bedrock Low strength	0.00 0.22	Fair Depth to bedrock Carbonate content Sodium content	0.58 0.68 0.78
NeB: Nevee-----	90	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.92	Fair Low strength	0.22	Fair Carbonate content	0.92

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
NsD: Nevee-----	55	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.92	Fair Low strength Slope	0.22 0.50	Poor Slope Carbonate content	0.00 0.92
Spearfish-----	35	Poor Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.88	Poor Depth to bedrock Slope	0.00 0.98	Poor Depth to bedrock Slope Rock fragments	0.00 0.00 0.88
ObA: Loburn-----	85	Poor Sodium content Too clayey Low content of organic matter Salinity	0.00 0.00 0.12 0.50	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Too Clayey Salinity	0.00 0.00 0.00
PaA: Parshall-----	85	Good		Good		Good	
PeE: Enning-----	80	Poor Droughty Carbonate content Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.50 0.90	Poor Depth to bedrock Low strength Slope	0.00 0.00 0.98	Poor Carbonate content Depth to bedrock Slope	0.00 0.00 0.00
PmD: Enning-----	50	Poor Droughty Carbonate content Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.50 0.90	Poor Depth to bedrock Low strength	0.00 0.00	Poor Carbonate content Depth to bedrock Slope	0.00 0.00 0.96

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Minnequa-----	30	Fair Low content of organic matter 0.12 Droughty 0.22 Depth to bedrock 0.58 Carbonate content 0.68 Sodium content 0.78 Water erosion 0.99		Poor Depth to bedrock 0.00 Low strength 0.22		Fair Depth to bedrock 0.58 Carbonate content 0.68 Sodium content 0.78 Slope 0.96	
PrA: Pierre-----	90	Poor Too clayey 0.00 Droughty 0.00 Low content of organic matter 0.50 Depth to bedrock 0.58 Sodium content 0.90 Water erosion 0.99		Poor Depth to bedrock 0.00 Low strength 0.00 Shrink-swell 0.00		Poor Too Clayey 0.00 Depth to bedrock 0.58 Sodium content 0.90	
PrB: Pierre-----	80	Poor Too clayey 0.00 Droughty 0.00 Low content of organic matter 0.50 Depth to bedrock 0.58 Sodium content 0.90 Water erosion 0.99		Poor Depth to bedrock 0.00 Low strength 0.00 Shrink-swell 0.00		Poor Too Clayey 0.00 Depth to bedrock 0.58 Sodium content 0.90	
PrD: Pierre-----	80	Poor Too clayey 0.00 Droughty 0.00 Low content of organic matter 0.50 Depth to bedrock 0.58 Sodium content 0.90 Water erosion 0.99		Poor Depth to bedrock 0.00 Low strength 0.00 Shrink-swell 0.00 Slope 0.82		Poor Slope 0.00 Too Clayey 0.00 Depth to bedrock 0.58 Sodium content 0.90	

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
RaB: Ralph-----	80	Fair Low content of organic matter Depth to bedrock Droughty	0.50 0.58 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Fair Depth to bedrock	0.58
RcA: Razor-----	95	Poor Too clayey Low content of organic matter Depth to bedrock Droughty Water erosion	0.00 0.12 0.58 0.58 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.15	Poor Too Clayey Depth to bedrock	0.00 0.58
RcB: Razor-----	90	Poor Too clayey Low content of organic matter Depth to bedrock Droughty Water erosion	0.00 0.12 0.58 0.58 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.15	Poor Too Clayey Depth to bedrock	0.00 0.58
RcC: Razor-----	85	Poor Too clayey Low content of organic matter Depth to bedrock Droughty Water erosion	0.00 0.12 0.58 0.58 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.15	Poor Too Clayey Depth to bedrock	0.00 0.58
RdE: Redig-----	85	Fair Low content of organic matter	0.12	Fair Shrink-swell Slope	0.87 0.92	Poor Rock fragments Slope Hard to reclaim	0.00 0.00 0.00
Rh: Riverwash-----	100	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
RsF: Rock Outcrop, Sandstone-----	50	Not rated		Not rated		Not rated	
Spearfish-----	35	Poor Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.88	Poor Depth to bedrock Slope	0.00 0.00	Poor Slope Depth to bedrock Rock fragments	0.00 0.00 0.88
Sa: Sage-----	55	Poor Salinity Too clayey Droughty Low content of organic matter Water erosion	0.00 0.00 0.21 0.50 0.99	Poor Shrink-swell Low strength Depth to saturated zone Depth to bedrock	0.00 0.00 0.00 0.58	Poor Salinity Too Clayey Depth to saturated zone	0.00 0.00 0.00
Slickspots, Dry-----	25	Not rated		Not rated		Not rated	
Sb: Sage-----	80	Poor Salinity Too clayey Droughty Low content of organic matter Water erosion	0.00 0.00 0.21 0.50 0.99	Poor Shrink-swell Low strength Depth to saturated zone Depth to bedrock	0.00 0.00 0.00 0.58	Poor Salinity Too Clayey Depth to saturated zone	0.00 0.00 0.00
ScA: Satanta-----	80	Fair Low content of organic matter	0.88	Good		Good	
ScB: Satanta-----	80	Fair Low content of organic matter	0.88	Good		Good	

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ScC: Satanta-----	80	Fair Low content of organic matter	0.88	Good		Good	
SdA: Savo-----	85	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.67	Good	
SdB: Savo-----	85	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.67	Good	
SeE: Schamber-----	75	Fair Too sandy Low content of organic matter	0.08 0.50	Fair Slope	0.98	Poor Hard to reclaim Rock fragments Slope Too sandy	0.00 0.00 0.00 0.08
Sg: Rock Outcrop, Soft--	80	Not rated		Not rated		Not rated	
ShF: Rock Outcrop, Soft--	60	Not rated		Not rated		Not rated	
Grummit-----	30	Poor Too clayey Droughty Depth to bedrock Too acid Low content of organic matter	0.00 0.00 0.00 0.08 0.88	Poor Depth to bedrock Slope Low strength Shrink-swell	0.00 0.00 0.00 0.87	Poor Slope Too Clayey Depth to bedrock Too acid	0.00 0.00 0.00 0.50
SkB: Slickspots, Dry-----	60	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Demar-----	40	Poor Too clayey Too acid Salinity Low content of organic matter Water erosion Sodium content Droughty	0.00 0.03 0.50 0.88 0.90 0.90 0.98	Poor Low strength Shrink-swell Depth to bedrock	0.00 0.56 0.58	Poor Too Clayey Sodium content	0.00 0.90
SlB: Slickspots, Dry----	60	Not rated		Not rated		Not rated	
Wasa-----	30	Poor Too clayey Droughty Low content of organic matter Depth to bedrock Water erosion	0.00 0.00 0.50 0.58 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.88	Poor Too Clayey Depth to bedrock	0.00 0.58
SmE: Snomo-----	55	Poor Too clayey Too acid Low content of organic matter Water erosion	0.00 0.03 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Poor Too Clayey Slope Too acid	0.00 0.37 0.50
Rock Outcrop, Soft--	30	Not rated		Not rated		Not rated	
SnB: Sorum-----	80	Poor Sodium content Low content of organic matter Water erosion	0.00 0.12 0.99	Good		Poor Sodium content	0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Sr: Stetter-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
Ss: Stetter-----	95	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
St: Lismas-----	60	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.12 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope Rock fragments	0.00 0.00 0.00 0.97
SuA: Swanboy-----	85	Poor Too clayey Low content of organic matter Droughty Salinity Water erosion	0.00 0.50 0.95 0.97 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Salinity	0.00 0.00
Sv: Swanboy-----	50	Poor Too clayey Low content of organic matter Droughty Salinity Water erosion	0.00 0.50 0.95 0.97 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey Salinity	0.00 0.00
Slickspots, Dry-----	30	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Te: Lismas-----	60	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.12 0.99	Poor Depth to bedrock Slope Shrink-swell Low strength	0.00 0.00 0.00 0.00	Poor Slope Too Clayey Depth to bedrock Rock fragments	0.00 0.00 0.00 0.97
Rock Outcrop, Soft--	20	Not rated		Not rated		Not rated	
TfD: Twilight-----	70	Fair Droughty Depth to bedrock	0.01 0.58	Poor Depth to bedrock Slope	0.00 0.50	Poor Slope Depth to bedrock	0.00 0.58
TgC: Twilight-----	40	Fair Droughty Depth to bedrock	0.01 0.58	Poor Depth to bedrock	0.00	Fair Depth to bedrock	0.58
Assinniboine-----	30	Fair Low content of organic matter	0.12	Good		Good	
ThD: Twilight-----	50	Fair Droughty Depth to bedrock	0.01 0.58	Poor Depth to bedrock Slope	0.00 0.92	Poor Slope Depth to bedrock	0.00 0.58
Blackhall-----	30	Poor Droughty Depth to bedrock Low content of organic matter Sodium content	0.00 0.00 0.12 0.78	Not Rated Depth to bedrock	0.00	Poor Depth to bedrock Slope Sodium content	0.00 0.37 0.78
ToB: Twotop-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.99	Poor Shrink-swell Low strength	0.00 0.00	Poor Too Clayey	0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
VaA: Vale-----	90	Fair Low content of organic matter	0.50	Fair Low strength	0.78	Good	
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated		Not rated	
WaB: Wasa-----	60	Poor Too clayey Droughty Low content of organic matter Depth to bedrock Water erosion	0.00 0.00 0.50 0.58 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.88	Poor Too Clayey Depth to bedrock	0.00 0.58
Slickspots, Dry-----	35	Not rated		Not rated		Not rated	
WhA: Whitelake-----	85	Poor Sodium content Salinity	0.00 0.88	Fair Shrink-swell	0.99	Poor Sodium content Salinity	0.00 0.00
WnB: Winler-----	70	Poor Too clayey Droughty Low content of organic matter Depth to bedrock Too acid Water erosion	0.00 0.00 0.12 0.58 0.97 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Rock fragments	0.00 0.58 0.88
ww: Water (greater Than 40 Acres)-----	100	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ZeB: Zeona-----	80	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.76	Good		Poor Too sandy	0.00

