

Section II
Soil and Site Information

Construction Materials Table 2
Custer and Pennington
Counties, Praire Parts, South
Dakota

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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
AaA: Altvan-----	90	Fair Low content of organic matter Water erosion	0.12 0.99	Good		Fair Hard to reclaim	0.92
AaB: Altvan-----	90	Fair Low content of organic matter Water erosion	0.12 0.99	Good		Fair Hard to reclaim	0.92
AaC: Altvan-----	85	Fair Low content of organic matter Water erosion	0.12 0.99	Good		Fair Hard to reclaim	0.92
ArA: Arvada-----	90	Poor Sodium content Too clayey Too alkaline Low content of organic matter Water erosion Droughty	0.00 0.00 0.00 0.12 0.99 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Too Clayey Rock fragments	0.00 0.00 0.97
BaA: Baca-----	85	Poor Too clayey Water erosion	0.00 0.90	Good		Poor Too Clayey	0.00
Bb: Badland-----	85	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
BcB: Bankard-----	85	Poor Wind erosion Droughty Low content of organic matter	0.00 0.39 0.88	Good		Fair Rock fragments Hard to reclaim	0.03 0.98
BfA: Beckton-----	90	Poor Sodium content Too clayey Too alkaline Low content of organic matter Salinity Water erosion	0.00 0.00 0.00 0.12 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Salinity Sodium content Rock fragments	0.00 0.00 0.60 0.97
BhA: Beckton-----	50	Poor Sodium content Too clayey Too alkaline Low content of organic matter Salinity Water erosion	0.00 0.00 0.00 0.12 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Salinity Sodium content Rock fragments	0.00 0.00 0.60 0.97
Arvada-----	35	Poor Sodium content Too clayey Too alkaline Low content of organic matter Water erosion Droughty	0.00 0.00 0.00 0.12 0.99 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Sodium content Too Clayey Rock fragments	0.00 0.00 0.97
BkA: Blackpipe-----	85	Poor Too clayey Droughty Depth to bedrock	0.00 0.54 0.58	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.62	Poor Too Clayey 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
BkB: Blackpipe-----	85	Poor Too clayey Droughty Depth to bedrock	0.00 0.54 0.58	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.62	Poor Too Clayey Depth to bedrock	0.00 0.58
BlA: Blackpipe-----	85	Fair Depth to bedrock Droughty	0.58 0.75	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Fair Depth to bedrock	0.58
BlB: Blackpipe-----	85	Fair Depth to bedrock Droughty	0.58 0.75	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Fair Depth to bedrock	0.58
BnC: Blackpipe-----	50	Fair Depth to bedrock Droughty	0.58 0.75	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Fair Depth to bedrock	0.58
Norrest-----	35	Poor Too clayey Droughty Depth to bedrock Carbonate content Low content of organic matter Water erosion	0.00 0.40 0.58 0.80 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.21	Poor Too Clayey Depth to bedrock Carbonate content	0.00 0.58 0.80
BoA: Blackpipe-----	50	Poor Too clayey Droughty Depth to bedrock	0.00 0.54 0.58	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.62	Poor Too Clayey 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
Wortman-----	35	Poor Too clayey Sodium content Droughty Depth to bedrock Salinity Water erosion	0.00 0.00 0.56 0.58 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.46	Poor Too Clayey Sodium content Salinity Depth to bedrock	0.00 0.00 0.00 0.58
BoB: Blackpipe-----	50	Fair Depth to bedrock Droughty	0.58 0.75	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Fair Depth to bedrock	0.58
Wortman-----	40	Poor Sodium content Droughty Depth to bedrock Salinity Water erosion	0.00 0.38 0.58 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.22 0.64	Poor Sodium content Salinity Depth to bedrock	0.00 0.00 0.58
Bp: Bridgeport-----	85	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength	0.00	Good	
Ca: Cactusflat-----	90	Poor Sodium content Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.00	Fair Sodium content	0.22
Cb: Cactusflat-----	50	Poor Sodium content Low content of organic matter Water erosion	0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.00	Fair Sodium content	0.22

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Weta-----	35	Poor Sodium content Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Low strength Shrink-swell	0.00 0.85	Fair Sodium content	0.90
CeA: Cedarpass-----	85	Poor Sodium content Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Low strength	0.00	Poor Sodium content	0.00
CfA: Cedarpass-----	50	Poor Sodium content Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Low strength	0.00	Poor Sodium content	0.00
Denby-----	35	Poor Too clayey Sodium content Low content of organic matter Water erosion	0.00 0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.72	Poor Sodium content Too Clayey	0.00 0.00
Ch: Cedarpass-----	40	Poor Sodium content Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Low strength	0.00	Poor Sodium content	0.00
Interior-----	25	Poor Sodium content Low content of organic matter Water erosion Carbonate content	0.00 0.12 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Poor Sodium content Carbonate content	0.00 0.92

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Badland-----	20	Not rated		Not rated		Not rated	
ClF: Colby-----	90	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
CmC: Colby-----	55	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
Norka-----	30	Fair Low content of organic matter	0.12	Good		Good	
Cn: Colombo-----	85	Fair Low content of organic matter	0.50	Good		Fair Rock fragments	0.97
Co: Colombo-----	90	Fair Low content of organic matter	0.50	Good		Fair Rock fragments	0.97
Cp: Colombo-----	50	Fair Low content of organic matter	0.50	Good		Fair Rock fragments	0.97
Urban Land-----	40	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
CuD: Conata-----	50	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.00 0.82	Poor Too Clayey Depth to bedrock Slope	0.00 0.00 0.00
Hisle-----	35	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 Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Sodium content Salinity Depth to bedrock Slope	0.00 0.00 0.00 0.58 0.96
CyC: Cushman-----	85	Fair Depth to bedrock Low content of organic matter Droughty	0.58 0.88 0.96	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.91	Fair Depth to bedrock	0.58
CzD: Cushman-----	45	Fair Depth to bedrock Low content of organic matter Droughty	0.58 0.88 0.96	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.91	Fair Slope Depth to bedrock	0.16 0.58
Shingle-----	35	Poor Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.88	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to bedrock Slope Rock fragments	0.00 0.16 0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
DmA: Denby-----	85	Poor Too clayey Sodium content Low content of organic matter Water erosion	0.00 0.00 0.12 0.99	Poor Low strength Shrink-swell	0.00 0.72	Poor Sodium content Too Clayey	0.00 0.00
Eg: Egas-----	90	Poor Too clayey Low content of organic matter Salinity Water erosion	0.00 0.50 0.50 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.12	Poor Salinity Depth to saturated zone Too Clayey	0.00 0.00 0.00
EmA: Emigrant-----	90	Poor Too clayey Depth to bedrock Droughty	0.00 0.58 0.82	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to bedrock	0.00 0.58
EmB: Emigrant-----	90	Poor Too clayey Depth to bedrock Droughty	0.00 0.58 0.82	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to bedrock	0.00 0.58
EnD: 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 Slope	0.00 0.00 0.92	Poor Carbonate content Depth to bedrock Slope	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
Minnequa-----	35	Fair Low content of organic matter Droughty Depth to bedrock Carbonate content Sodium content Water erosion	0.12 0.39 0.58 0.68 0.78 0.99	Poor Depth to bedrock Low strength	0.00 0.22	Fair Slope Depth to bedrock Carbonate content Sodium content	0.37 0.58 0.68 0.78
FaE: Fairburn-----	85	Poor Depth to bedrock Droughty Low content of organic matter Water erosion	0.00 0.00 0.50 0.90	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.87 0.92	Poor Depth to bedrock Slope	0.00 0.00
FgE: Fairburn-----	85	Poor Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.50 0.90	Poor Depth to bedrock Low strength Slope Shrink-swell	0.00 0.00 0.00 0.96	Poor Slope Depth to bedrock	0.00 0.00
FhE: Fairburn-----	50	Poor Depth to bedrock Droughty Low content of organic matter Water erosion	0.00 0.00 0.50 0.90	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.87 0.92	Poor Depth to bedrock Slope	0.00 0.00
Badland-----	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
FOF: Fairburn-----	40	Poor Depth to bedrock Droughty Low content of organic matter Water erosion	0.00 0.00 0.50 0.90	Poor Depth to bedrock Slope Low strength Shrink-swell	0.00 0.00 0.00 0.87	Poor Slope Depth to bedrock	0.00 0.00
Orella-----	25	Poor Droughty Depth to bedrock Too clayey Sodium content Salinity Low content of organic matter Water erosion	0.00 0.00 0.00 0.00 0.88 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.39 0.50	Poor Slope Depth to bedrock Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00 0.00
Badland-----	20	Not rated		Not rated		Not rated	
Gb: Glenberg-----	90	Fair Low content of organic matter	0.12	Good		Fair Rock fragments	0.97
GrE: Grummit-----	55	Poor Too clayey Droughty Depth to bedrock Too acid Low content of organic matter	0.00 0.00 0.00 0.08 0.88	Not Rated Depth to bedrock Slope	0.00 0.00	Poor Slope Too Clayey Depth to bedrock Too acid	0.00 0.00 0.00 0.50
Rock Outcrop, Acid--	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
GsD: Grummit-----	55	Poor Too clayey Droughty Depth to bedrock Too acid Low content of organic matter	0.00 0.00 0.00 0.08 0.88	Not Rated Depth to bedrock Slope	0.00 0.50	Poor Too Clayey Depth to bedrock Slope Too acid	0.00 0.00 0.00 0.50
Urban Land-----	30	Not rated		Not rated		Not rated	
Ha: Haverson-----	90	Fair Low content of organic matter	0.50	Fair Shrink-swell	0.87	Good	
Hc: Haverson-----	90	Fair Low content of organic matter	0.50	Fair Low strength Shrink-swell	0.22 0.87	Good	
HpB: Hisle-----	90	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 Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Sodium content Salinity Depth to bedrock	0.00 0.00 0.00 0.58
HrC: Hisle-----	45	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 Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Sodium content Salinity Depth to bedrock	0.00 0.00 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
Rock Outcrop, Soft--	35	Not rated		Not rated		Not rated	
HsB: Hisle-----	65	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 Low strength Shrink-swell	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----	20	Not rated		Not rated		Not rated	
Hv: Hoven-----	85	Poor Too clayey Sodium content Salinity Water erosion	0.00 0.00 0.88 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00
Hz: Hoven Variant-----	85	Poor Too clayey Low content of organic matter Droughty Water erosion	0.00 0.88 0.92 0.99	Poor Depth to saturated zone Shrink-swell Low strength Depth to bedrock	0.00 0.00 0.00 0.58	Poor Too Clayey Depth to saturated zone	0.00 0.00
In: Interior-----	90	Poor Sodium content Too alkaline Low content of organic matter Water erosion Carbonate content	0.00 0.00 0.12 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Poor Sodium content Carbonate content	0.00 0.92

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Io: Interior-----	90	Poor Sodium content 0.00 Low content of organic matter 0.12 Water erosion 0.90 Carbonate content 0.92		Poor Low strength 0.00 Shrink-swell 0.87		Poor Sodium content 0.00 Carbonate content 0.92	
IrB: Interior-----	30	Poor Sodium content 0.00 Low content of organic matter 0.12 Water erosion 0.90 Carbonate content 0.92		Poor Low strength 0.00 Shrink-swell 0.87		Poor Sodium content 0.00 Carbonate content 0.92	
Cedarpass-----	25	Poor Sodium content 0.00 Low content of organic matter 0.50 Water erosion 0.90		Poor Low strength 0.00		Poor Sodium content 0.00	
Denby-----	25	Poor Too clayey 0.00 Sodium content 0.00 Low content of organic matter 0.12 Water erosion 0.99		Poor Low strength 0.00 Shrink-swell 0.72		Poor Sodium content 0.00 Too Clayey 0.00	
JaA: Jayem-----	90	Fair Low content of organic matter 0.88		Good		Good	
JaC: Jayem-----	85	Fair Low content of organic matter 0.88		Good		Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
KtA: 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	0.00 0.78
KyA: 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	0.00 0.78
KyB: 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	0.00 0.78
KyC: 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	0.00 0.78
LaB: Larvie-----	90	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.58 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	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
LaD: Larvie-----	85	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.58 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Slope	0.00 0.58 0.63
LhC: Larvie-----	50	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.58 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock	0.00 0.58
Hisle-----	35	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 Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Sodium content Salinity Depth to bedrock	0.00 0.00 0.00 0.58
Lo: Lohmiller-----	85	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
Lp: Lohmiller-----	90	Fair Low content of organic matter Water erosion	0.12 0.99	Fair Low strength Shrink-swell	0.78 0.87	Good	
M-W: Miscellaneous Water-	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
MaB: 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
MeC: Manvel-----	55	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
Minnequa-----	30	Fair Low content of organic matter Droughty Depth to bedrock Carbonate content Sodium content Water erosion	0.12 0.39 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
MgC: Manvel-----	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	0.46
Urban Land-----	35	Not rated		Not rated		Not rated	
MoE: Midway-----	85	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 Slope Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Slope Depth to bedrock Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.60 0.88

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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
MosE: Midway-----	85	Poor Droughty Depth to bedrock Too clayey Low content of organic matter Sodium content	0.00 0.00 0.00 0.12 0.60	Poor Depth to bedrock Slope Low strength Shrink-swell	0.00 0.00 0.00 0.12	Poor Slope Depth to bedrock Too Clayey Sodium content Rock fragments	0.00 0.00 0.00 0.60 0.95
MpD: Midway-----	55	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 0.92	Poor Depth to bedrock Too Clayey Slope Sodium content Salinity	0.00 0.00 0.00 0.60 0.88
Urban Land-----	30	Not rated		Not rated		Not rated	
MrC: Minnequa-----	60	Fair Low content of organic matter Droughty Depth to bedrock Carbonate content Sodium content Water erosion	0.12 0.39 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
Penrose-----	30	Poor Droughty Depth to bedrock Low content of organic matter Sodium content	0.00 0.00 0.12 0.60	Poor Depth to bedrock	0.00	Poor Depth to bedrock Sodium content Rock fragments	0.00 0.60 0.88

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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
NgE: Nihill-----	85	Fair Low content of organic matter Droughty	0.12 0.85	Fair Slope	0.92	Poor Hard to reclaim Rock fragments Slope	0.00 0.00 0.00
NeD: Nihill-----	80	Fair Low content of organic matter Droughty	0.12 0.76	Fair Slope	0.50	Poor Slope Hard to reclaim Rock fragments	0.00 0.00 0.00
NgA: Norka-----	90	Fair Low content of organic matter	0.12	Good		Good	
NgB: Norka-----	90	Fair Low content of organic matter	0.12	Good		Good	
NhA: Norka-----	50	Fair Low content of organic matter	0.12	Good		Good	
Weta-----	35	Poor Sodium content Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Low strength Shrink-swell	0.00 0.85	Fair 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
NkD: Norrest-----	85	Poor Too clayey Droughty Depth to bedrock Carbonate content Low content of organic matter Water erosion	0.00 0.40 0.58 0.80 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.21	Poor Too Clayey Depth to bedrock Slope Carbonate content	0.00 0.58 0.63 0.80
NuA: Nunn-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Fair Shrink-swell	0.60	Poor Too Clayey	0.00
NuB: Nunn-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Fair Shrink-swell	0.60	Poor Too Clayey	0.00
NuC: Nunn-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Fair Shrink-swell	0.60	Poor Too Clayey	0.00
NvA: Nunn-----	55	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Fair Shrink-swell	0.60	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
Beckton-----	35	Poor Sodium content Too clayey Too alkaline Low content of organic matter Salinity Water erosion	0.00 0.00 0.00 0.12 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Salinity Sodium content Rock fragments	0.00 0.00 0.60 0.97
NvC: Nunn-----	50	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Fair Shrink-swell	0.60	Poor Too Clayey	0.00
Beckton-----	35	Poor Sodium content Too clayey Too alkaline Low content of organic matter Salinity Water erosion	0.00 0.00 0.00 0.12 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Salinity Sodium content Rock fragments	0.00 0.00 0.60 0.97
NwA: Nunn-----	60	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.99	Fair Shrink-swell	0.60	Poor Too Clayey	0.00
Urban Land-----	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
ObE: Orella-----	50	Poor Droughty Depth to bedrock Too clayey Sodium content Salinity Low content of organic matter Water erosion	0.00 0.00 0.00 0.00 0.88 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.39 0.92	Poor Depth to bedrock Too Clayey Slope Sodium content Salinity	0.00 0.00 0.00 0.00 0.00
Badland-----	35	Not rated		Not rated		Not rated	
OeE: Orella-----	35	Poor Droughty Depth to bedrock Too clayey Sodium content Salinity Low content of organic matter Water erosion	0.00 0.00 0.00 0.00 0.88 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.39	Poor Depth to bedrock Too Clayey Sodium content Salinity Slope	0.00 0.00 0.00 0.00 0.16
Interior-----	30	Poor Sodium content Low content of organic matter Water erosion Carbonate content	0.00 0.12 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Poor Sodium content Carbonate content	0.00 0.92
Badland-----	20	Not rated		Not rated		Not rated	
OtA: Ottumwa-----	90	Poor Too clayey Low content of organic matter Droughty Water erosion	0.00 0.50 0.87 0.99	Poor Low strength Shrink-swell Depth to bedrock	0.00 0.12 0.58	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
OtB: Ottumwa-----	85	Poor Too clayey Low content of organic matter Droughty Water erosion	0.00 0.50 0.87 0.99	Poor Low strength Shrink-swell Depth to bedrock	0.00 0.12 0.58	Poor Too Clayey	0.00
OvC: Ottumwa-----	55	Poor Too clayey Low content of organic matter Droughty Water erosion	0.00 0.50 0.87 0.99	Poor Low strength Shrink-swell Depth to bedrock	0.00 0.12 0.58	Poor Too Clayey	0.00
Razor-----	30	Poor Too clayey Low content of organic matter Droughty Depth to bedrock Water erosion	0.00 0.12 0.56 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
Ow: Owanka-----	90	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey	0.00
Ox: Owanka-----	50	Poor Too clayey Low content of organic matter Water erosion	0.00 0.50 0.90	Poor Low strength Shrink-swell	0.00 0.12	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
Beckton-----	40	Poor Sodium content Too clayey Too alkaline Low content of organic matter Salinity Water erosion	0.00 0.00 0.00 0.12 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Salinity Sodium content Rock fragments	0.00 0.00 0.60 0.97
PdF: Penrose-----	65	Poor Droughty Depth to bedrock Low content of organic matter Sodium content	0.00 0.00 0.12 0.60	Poor Depth to bedrock Slope	0.00 0.00	Poor Slope Depth to bedrock Sodium content Rock fragments	0.00 0.00 0.60 0.88
Rock Outcrop, Sandy-	25	Not rated		Not rated		Not rated	
PeB: Pierre-----	90	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 Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Sodium content	0.00 0.58 0.90
PeC: Pierre-----	85	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 Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Sodium content	0.00 0.58 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
PeD: Pierre-----	85	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 Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Slope Depth to bedrock Sodium content	0.00 0.37 0.58 0.90
PgD: Pierre-----	65	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 Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Slope Depth to bedrock Sodium content	0.00 0.37 0.58 0.90
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	Not Rated Depth to bedrock	0.00	Poor Too Clayey Depth to bedrock Too acid Slope	0.00 0.00 0.50 0.63
PhB: Pierre-----	55	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 Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to bedrock Sodium content	0.00 0.58 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
Hisle-----	35	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 Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Sodium content Salinity Depth to bedrock	0.00 0.00 0.00 0.58
PkC: Pierre-----	60	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 Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Slope Depth to bedrock Sodium content	0.00 0.37 0.58 0.90
Urban Land-----	35	Not rated		Not rated		Not rated	
Ps: Orthents, Gravelly--	100	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.29	Not Rated Slope	0.00	Poor Too sandy Rock fragments Slope Hard to reclaim	0.00 0.00 0.00 0.18
RaB: Razor-----	85	Poor Too clayey Low content of organic matter Droughty Depth to bedrock Water erosion	0.00 0.12 0.56 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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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
RaC: Razor-----	85	Poor Too clayey Low content of organic matter Droughty Depth to bedrock Water erosion	0.00 0.12 0.56 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
RbD: Razor-----	50	Poor Too clayey Low content of organic matter Droughty Depth to bedrock Water erosion	0.00 0.12 0.56 0.58 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.15	Poor Too Clayey Slope Depth to bedrock	0.00 0.37 0.58
Midway-----	35	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 Slope Salinity	0.00 0.00 0.60 0.63 0.88
Rv: Riverwash-----	85	Not rated		Not rated		Not rated	
SbF: Samsil-----	85	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.50 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	0.00 0.00 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
ScE: Samsil-----	55	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.50 0.99	Poor Depth to bedrock Shrink-swell Low strength Slope	0.00 0.00 0.00 0.50	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.00 0.00
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 Shrink-swell Low strength Slope	0.00 0.00 0.00 0.92	Poor Too Clayey Slope Depth to bedrock Sodium content	0.00 0.00 0.58 0.90
SdF: Samsil-----	55	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.50 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	0.00 0.00 0.00 0.00
Rock Outcrop, Soft--	30	Not rated		Not rated		Not rated	
SeA: Satanta-----	90	Fair Low content of organic matter	0.88	Good		Good	
SeB: Satanta-----	90	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
SeC: Satanta-----	85	Fair Low content of organic matter	0.88	Good		Good	
SgA: Satanta-----	55	Fair Low content of organic matter	0.88	Good		Good	
Beckton-----	35	Poor Sodium content Too clayey Too alkaline Low content of organic matter Salinity Water erosion	0.00 0.00 0.00 0.12 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Salinity Sodium content Rock fragments	0.00 0.00 0.60 0.97
SkA: Satanta-----	45	Fair Low content of organic matter	0.88	Good		Good	
Urban Land-----	45	Not rated		Not rated		Not rated	
SkB: Satanta-----	45	Fair Low content of organic matter	0.88	Good		Good	
Urban Land-----	45	Not rated		Not rated		Not rated	
SmA: Savo-----	90	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.35	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
SmB: Savo-----	90	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.35	Good	
SmC: Savo-----	85	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.35	Good	
SoB: Savo-----	55	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.35	Good	
Urban Land-----	35	Not rated		Not rated		Not rated	
StE: Schamber-----	55	Poor Too sandy Droughty Low content of organic matter	0.00 0.00 0.50	Poor Slope	0.00	Poor Slope Too sandy Hard to reclaim Rock fragments	0.00 0.00 0.00 0.00
Samsil-----	30	Poor Too clayey Droughty Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.50 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	0.00 0.00 0.00 0.00

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Dakota

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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
SuE: Shingle-----	85	Poor Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.88	Poor Depth to bedrock Low strength Slope Shrink-swell	0.00 0.00 0.50 0.87	Poor Slope Depth to bedrock Rock fragments	0.00 0.00 0.97
SvF: Shingle-----	50	Poor Droughty Depth to bedrock Low content of organic matter	0.00 0.00 0.88	Poor Depth to bedrock Slope Low strength Shrink-swell	0.00 0.00 0.00 0.87	Poor Slope Depth to bedrock Rock fragments	0.00 0.00 0.97
Rock Outcrop, Sandstone-----	35	Not rated		Not rated		Not rated	
SzB: Swanboy-----	90	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
TfA: Tilford-----	90	Fair Low content of organic matter Water erosion	0.50 0.90	Fair Low strength	0.78	Good	
VbD: Valent-----	90	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.75	Fair Slope	0.92	Poor Too sandy Slope	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
VbwB: Valent-----	50	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.12 0.75	Good		Poor Too sandy	0.00
Wortman-----	30	Poor Wind erosion Sodium content Droughty Too sandy Depth to bedrock	0.00 0.00 0.20 0.36 0.58	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.33	Fair Too sandy Depth to bedrock	0.36 0.58
W: Water-----	100	Not rated		Not rated		Not rated	
WaA: Wanblee-----	90	Fair Droughty Depth to bedrock Salinity Sodium content Water erosion	0.52 0.58 0.88 0.90 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.91	Poor Salinity Depth to bedrock Sodium content	0.00 0.58 0.90
WbB: Wanblee-----	55	Fair Droughty Depth to bedrock Salinity Sodium content Water erosion	0.52 0.58 0.88 0.90 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.91	Poor Salinity Depth to bedrock Sodium content	0.00 0.58 0.90
Wortman-----	30	Poor Sodium content Droughty Depth to bedrock Salinity Water erosion	0.00 0.38 0.58 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.22 0.64	Poor Sodium content Salinity Depth to bedrock	0.00 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
WeA: Weta-----	85	Poor Sodium content Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Low strength Shrink-swell	0.00 0.85	Fair Sodium content	0.90
Wh: Whitelake-----	85	Poor Sodium content Low content of organic matter Salinity	0.00 0.12 0.88	Good		Poor Sodium content Salinity	0.00 0.00
WkA: Whitewater-----	90	Poor Too clayey Droughty Sodium content Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.58 0.88 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Sodium content Depth to bedrock	0.00 0.00 0.58
WoB: Whitewater-----	50	Poor Too clayey Droughty Sodium content Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.58 0.88 0.99	Poor Depth to bedrock Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Sodium content Depth to bedrock	0.00 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
Orella-----	35	Poor Droughty Depth to bedrock Too clayey Sodium content Salinity Low content of organic matter Water erosion	0.00 0.00 0.00 0.00 0.88 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.00 0.39	Poor Depth to bedrock Too Clayey Sodium content Salinity	0.00 0.00 0.00 0.00
WwB: Wortman-----	85	Poor Sodium content Droughty Depth to bedrock Salinity Water erosion	0.00 0.38 0.58 0.88 0.99	Poor Depth to bedrock Low strength Shrink-swell	0.00 0.22 0.64	Poor Sodium content Salinity Depth to bedrock	0.00 0.00 0.58
ZnD: Zigweid-----	50	Fair Low content of organic matter	0.50	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope	0.63
Nihill-----	35	Fair Low content of organic matter Droughty	0.12 0.85	Good		Poor Hard to reclaim Rock fragments Slope	0.00 0.00 0.63

