

Section II
Soil and Site Information

Construction Materials Table 2
Codington 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
Bc: Brookings-----	90	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.50 0.97 0.98 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Too Clayey	0.98
Bh: Brookings-----	60	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.50 0.97 0.98 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Too Clayey	0.98
Hidewood-----	30	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Hard to reclaim	0.00 0.68
BmD: Buse-----	90	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Slope	0.37
BmE: Buse-----	90	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Slope Low strength Shrink-swell	0.00 0.22 0.87	Poor Slope	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
B _o : Buse-----	90	Poor Stone content Low content of organic matter Carbonate content	0.00 0.12 0.80	Poor Stone content Slope Low strength Shrink-swell Cobble content	0.00 0.18 0.78 0.87 0.97	Poor Slope Hard to reclaim Rock fragments Salinity	0.00 0.50 0.50 0.88
B _{pD} : Buse-----	60	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Slope	0.37
Poinsett-----	25	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope Carbonate content	0.37 0.92
B _{sD} : Buse-----	60	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Slope	0.63
Sioux-----	25	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.24	Good		Poor Too sandy Rock fragments Hard to reclaim Slope	0.00 0.00 0.00 0.63
B _u : Buse-----	60	Poor Stone content Low content of organic matter Carbonate content	0.00 0.12 0.80	Poor Stone content Slope Low strength Shrink-swell Cobble content	0.00 0.18 0.78 0.87 0.97	Poor Slope Hard to reclaim Rock fragments Salinity	0.00 0.50 0.50 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
Sioux-----	25	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.14	Fair Slope	0.18	Poor Too sandy Rock fragments Hard to reclaim Slope	0.00 0.00 0.00 0.00
BvD: Buse-----	60	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Slope	0.63
Vienna-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope	0.63
Bx: Buse-----	40	Poor Stone content Low content of organic matter Carbonate content	0.00 0.12 0.80	Poor Stone content Low strength Shrink-swell Cobble content	0.00 0.78 0.87 0.97	Fair Hard to reclaim Rock fragments Slope Salinity	0.50 0.50 0.63 0.88
Barnes-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Fair Slope Carbonate content	0.63 0.92
Sioux-----	20	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.24	Good		Poor Too sandy Rock fragments Hard to reclaim Slope	0.00 0.00 0.00 0.63

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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
Cs: Aquents, Saline-----	100	Fair Salinity	0.50	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone	0.00
		Water erosion	0.90	Low strength Shrink-swell	0.00 0.87	Salinity	0.00
EfA: Egeland-----	90	Fair Too sandy	0.02	Good		Fair Too sandy	0.02
		Low content of organic matter	0.12				
EfB: Egeland-----	90	Fair Too sandy	0.02	Good		Fair Too sandy	0.02
		Low content of organic matter	0.12				
EsA: Estelline-----	95	Fair Water erosion	0.90	Poor Low strength	0.00	Fair Hard to reclaim	0.82
EsB: Estelline-----	90	Fair Water erosion	0.90	Poor Low strength	0.00	Fair Hard to reclaim	0.82
FdA: Fordville-----	90	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.18
FdB: Fordville-----	90	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.18
FfA: Fordville-----	60	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.18

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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
Renshaw-----	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.71	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.08
FfB: Fordville-----	50	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.18
Renshaw-----	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.71	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.08
FmB: Forman-----	90	Fair Low content of organic matter Carbonate content	0.12 0.97	Fair Low strength Shrink-swell	0.22 0.87	Fair Salinity Hard to reclaim Rock fragments Carbonate content	0.88 0.88 0.88 0.97
FmC: Forman-----	90	Fair Low content of organic matter Carbonate content	0.12 0.97	Fair Low strength Shrink-swell	0.22 0.87	Fair Salinity Hard to reclaim Rock fragments Carbonate content	0.88 0.88 0.88 0.97
FnA: Forman-----	90	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FnB: Forman-----	90	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.97
FnC: Forman-----	90	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.97
KrB: Kranzburg-----	90	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.92
La: Lamoure-----	90	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone	0.00
Lc: Lamoure-----	90	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone	0.00
Lp: La Prairie-----	90	Fair Carbonate content	0.92	Poor Low strength Shrink-swell	0.00 0.87	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
Ma: Southam-----	100	Poor Too clayey	0.00	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone	0.00
		Carbonate content	0.92	Low strength	0.00	Too Clayey	0.00
		Water erosion	0.99	Shrink-swell	0.20	Salinity	0.88
Ms: Southam-----	100	Poor Too clayey	0.00	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone	0.00
		Carbonate content	0.92	Low strength	0.00	Too Clayey	0.00
		Water erosion	0.99	Shrink-swell	0.20	Salinity	0.88
Od: Oldham-----	90	Poor Too clayey	0.00	Poor Low strength	0.00	Poor Too Clayey	0.00
		Low content of organic matter	0.12	Depth to saturated zone	0.00	Depth to saturated zone	0.00
		Water erosion	0.90	Shrink-swell	0.55		
Op: Oldham-----	45	Poor Too clayey	0.00	Poor Low strength	0.00	Poor Too Clayey	0.00
		Low content of organic matter	0.12	Depth to saturated zone	0.00	Depth to saturated zone	0.00
		Water erosion	0.90	Shrink-swell	0.55		
Parnell-----	45	Poor Too clayey	0.00	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone	0.00
		Low content of organic matter	0.12	Low strength	0.00	Too Clayey	0.00
		Water erosion	0.90	Shrink-swell	0.12		
Ow: Oldham-----	50	Poor Too clayey	0.00	Poor Low strength	0.00	Poor Too Clayey	0.00
		Low content of organic matter	0.12	Depth to saturated zone	0.00	Depth to saturated zone	0.00
		Water erosion	0.90	Shrink-swell	0.55		

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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
Parnell-----	50	Poor Too clayey	0.00	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone	0.00
		Low content of organic matter	0.12	Low strength	0.00	Too Clayey	0.00
		Water erosion	0.90	Shrink-swell	0.12		
PmA: Poinsett-----	90	Fair Low content of organic matter	0.88	Poor Low strength	0.00	Fair Carbonate content	0.92
		Water erosion	0.90	Shrink-swell	0.87		
		Carbonate content	0.92				
PmB: Poinsett-----	90	Fair Low content of organic matter	0.88	Poor Low strength	0.00	Fair Carbonate content	0.92
		Water erosion	0.90	Shrink-swell	0.87		
		Carbonate content	0.92				
PnB: Poinsett-----	90	Fair Low content of organic matter	0.88	Poor Low strength	0.00	Fair Carbonate content	0.92
		Water erosion	0.90	Shrink-swell	0.87		
		Carbonate content	0.92				
POC: Poinsett-----	50	Fair Low content of organic matter	0.88	Poor Low strength	0.00	Fair Carbonate content	0.92
		Water erosion	0.90	Shrink-swell	0.87		
		Carbonate content	0.92				
Buse-----	20	Fair Low content of organic matter	0.12	Fair Low strength	0.22	Good	
		Carbonate content	0.46	Shrink-swell	0.87		
		Water erosion	0.99				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Forman-----	20	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.97
PsB: Poinsett-----	60	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.92
Forman-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.97
PwA: Poinsett-----	75	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.92
Waubay-----	20	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Good	
Ra: Rauville-----	90	Fair Too clayey	0.88	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.86

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
RsA: Renshaw-----	60	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.71	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.08
Sioux-----	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.24	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
RsB: Renshaw-----	50	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.71	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.08
Sioux-----	30	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.24	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00
Ts: Buse-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Slope Low strength Shrink-swell	0.00 0.22 0.87	Poor Slope	0.00
Sioux-----	35	Poor Too sandy Droughty Low content of organic matter	0.00 0.10 0.12	Poor Slope	0.00	Poor Too sandy Rock fragments Hard to reclaim Slope	0.00 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
VnA: Vienna-----	90	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
VnB: Vienna-----	90	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
VnC: Vienna-----	90	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Good	
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated		Not rated	
Wa: Waubay-----	90	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Good	
WfA: Waubay-----	60	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Low strength Shrink-swell	0.00 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
Forman-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.97 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.97

