Series	Map Unit Symbol	Topsoil
Albrights	AbB,AbC,AcB,AcC	Fair on AbB and AbC; Poor on AcB and AcC: Large stones
Allegheny	AIB	Fair: small stones
Andover	AnB,AnC,AoB,AoC	Poor: small stones; large stones on AoB and AoC; high water table
Armagh	ArA,ArB	Poor: high water table
Atkins	At	Poor: high water table
Basher	Ва	Fair; small stones
*Berks	BkB,BkC,BKD,BID,BMF (For Weikert part of BMF, see	Poor: small stones
Brinkerton	BrA,BrB,BrC,BsB	Poor: large stones on BsB; high water table
Buchanan	BtB,BuB,BuC,BxB,BxD	Poor: small stones; large stones on BxB and BxD
Calvin	(Mapped only with Leck Kill)	Poor: small stones;
Carlisle	CA	Poor organic material; high water table
Cavode	CdA,CdB	Fair; thin layer; small stones
Chagrin	Ch	Good
Clarksburg	CkA,CkB	Good
Clymer	CIB,CIC,CvB,CvD	Fair on CIB and CIC: small stones; Poor on CvB and CvD: large stones
Dekalb	(Mapped only with Hazelton)	Poor: small and large stones
Dunning	Du	Poor: high water table
Edom	EdB,EdC,EdD	Fair: small stones; too clayey
Ernest	ErB,ErC,ErD,EvB,EvD	Poor: small stones; large stones on EvB and EvD
Gilpin	GIB,GIC,GID	Poor: small stones
Hagerstown	HaA,HaB,HaC,HcB,HcC,HcD	Fair: difficult to revegetate borrow areas
*Hazelton	HhB,HhC,HhD,HSB,HSD,HTF (For Dekalb part of HTF,see Dekalb series.)	Poor: small stones; large stones on HSB,HSD, and HTF

Suitability as a source of Sand and Gravel	Road Fill	Highway and Road Location
Unsuited: excessive fines	Fair: frost action	Frost action; large stones on AcB and AcC
Poor: excessive fines	Fair: frost action	Frost action
Unsuited: excessive fines	Poor: high frost action; medium to low strength;	High water table; frost action; large stones on AoB
Unsuited: excessive fines	Poor: frost action; low strength; high water table	High water table; frost action; shrink-swell
Unsuited: excessive fines; locally poor in substratum	Poor: frost action; high water table	Floods; frost action; high water table
Poor: excessive fines; locally poor in substratum	Fair: frost action	Floods; frost action; seasonal high water table
Unsuited: excessive fines	Poor: thin layer	Rippable bedrock at a depth of 1.5 to 3.5 feet
Unsuited: excessive fines	Poor: frost action; medium to low strength; high water table	High water table; frost action; shrink-swell potential; large stones on BsB: seepage above fragipan
Unsuited: excessive fines	Fair: frost action; large stones on BxB and BxD	Frost action; large stones on BxB and BxD;
Poor: excessive fines	Poor: thin layer	Rippable bedrock at a depth of 1.5 to 3.5 feet; steep
Unsuited: organic material	Unsuited: organic material; shrink-swell; frost action	Organic material; frost action; shrink-swell; unstable;
Unsuited: excessive fines	Poor: frost action; low strength	Frost action; seasonal high water table; shrink-swell
Unsuited: excessive fines	Fair; frost action; low strength	Floods; frost action
Unsuited: excessive fines	Fair; frost action; low strength	Frost action; shrink-swell; seasonal high water table
Poor: excessive fines	Good	Large stones on CvB and CvD
Poor: excessive fines	Poor: thin layer	Hard bedrock at depth of 1.5 to 3.5 feet; steep;large
Unsuited: excessive fines	Poor: frost action; low strength; high water table	Floods; high water table; frost action; shrink-swell;
Unsuited: excessive fines	Poor: low strength	Frost action; shrink-swell; low strength
Unsuited: excessive fines	Fair; frost action	Frost action; large stones on EvB and EvD;
Unsuited: excessive fines	Poor: thin layer	Rippable bedrock at a depth of 1.5 to 3.5 feet;
Unsuited: excessive fines	Poor: low strength	Frost action: shrink-swell; low strength; sinkholes
Poor: excessive fines; large stones	Good on HhB,HhC, and HhD. Fair on HSB,HSD, and HSF: large stones	Large stones on HSB, HSD, and HTF

Reservoir Areas	Embankments	Drainage
Moderatly slow permeability	Fair to good compaction; medium to low strength; large stones on AcB and AcC	Moderately slow permeability; seasonal high water table; fragipan
Moderate permeability; pervious substratum	Fair to good compaction; medium strength susceptible to piping	Well drained
Fair to good compaction; medium to low strength; large stones on AoB and AoC	Fair to good compaction; medium to low strength; large stones on AoB and AoC	Slow permeability; high water table; fragipan
Slow permeability; high water table	Fair to good compaction; low strength	Slow permeability; high water table
Floods; moderately slow and slow permeability; high water table; possible pervious substratum	Fair compaction; medium strength; susceptible to piping; floods	Floods; moderately slow and slow permeability; high water table
Floods; moderate permeability; pervious substratum	Fair compaction; medium strength; floods; susceptible to piping	Floods; moderate permeability; seasonal high water table
Pervious bedrock at a depth of 1.5 to 3.5 feet; moderately rapid permeability	Limited material; bedrock at a depth of 1.5 to 3.5 feet; medium strength; susceptible to piping; slopes	Well drained
Slow permeability; high water table; large stones on BsB	Fair to good compaction; medium to low strength	Slow permeability; high water table; fragipan
Slow permeability	Fair to good compaction; medium strength; large stones on BxB and BxD	Slow permeability; seasonal high water table; fragipan
Pervious bedrock at a depth of 1.5 to 3.5 feet; moderately rapid permeability	Limited material; bedrock at a depth of 1.5 to 3.5 feet; medium strength; susceptible to piping	Well drained
Organic materal; floods; high water table; moderately rapid permeability	Unstable organic material; poor compaction; low strength	Floods; organic material; moderately rapid permeability; high water table
Slow permeability; seasonal high water table	Fair to good compaction; low strength	Slow permeability; seasonal high water table
Floods; moderate permeability; pervious substratum	Susceptible to piping; fair to poor compaction; floods	Floods; well drained
Slow permeability; seasonal high water table	Fair to good compaction; low strength; susceptible to piping	Slow permeability; seasonal high water table; fragipan
Moderately rapid permeability; slope	Fair compaction; large stones on CvB and CvD; medium permeability when compacted	Well drained
Moderately rapid permeability; pervious bedrock at a depth of 1.5 to 3.5 feet	Limited material; hard bedrock at at depth of 1.5 to 3.5 feet; large stones; susceptible to piping	Well drained
Floods; slow permeability; high water table; possible pervious substratum	Low strength; floods; poor compaction; high compressibility	Floods; slow permeability; high water table
Moderate: permeability; slope	Low strength; high compressibility; poor compaction	Well drained
Moderately slow and slow permeability; seasonal high water table	Medium and low strength; fair and good compaction; large stones on EvB and EvC	Moderately slow and slow permeability; seasonal high water table; fragipan
Pervious bedrock at depth of 1.5 to 3.5 feet; moderate permeability	Limited material; rippable bedrock at at depth of 1.5 to 3.5 feet; susceptible to piping	Well drained
Moderate permeability; sinkholes	Low strength; high compressibility; fair and poor compaction	Well drained
Moderately rapid and rapid permeability	Medium and high permeability when compacted; large stones on HSB, HSD, and HTF; susceptible to piping	Well drained

Sprinkler Irrigation

Seasonal high water table; fragipan; moderately slow permeability; large stones on AcB and AcC Moderate permeability; high available water capacity`

High water table; fragipan; slow permeability; large stones on AoB and AoC High water table; slow permeability

High water table; moderately slow and slow permeability; floods

Seasonal high water table; moderate permeability; floods; high available water capacity Moderately rapid permeability; very low available water capacity

High water table; slow permeability; fragipan; large stones on BsB

Seasonal high water table; slow permeability; fragipan; large stones on BxB and BxD $\,$

Low to moderate available water capacity; moderately rapid permeability

High water table; organic material; high available water capacity; floods

Seasonal high water table; slow permeability

Floods; high available water capacity; moderate permeability

Seasonal high water table; slow permeability; fragipan

Moderately rapid permeability; moderate available water capacity; large stones on CvB and CvD Very low and low available water capacity; moderately rapid permeability; large stones High water table; slow permeability; floods

Moderate permeability; moderate and high available water capacity;

Seasonal high water table; moderately slow and slow permeability; fragipan; large stones on EvB and EvD; slope Moderate permeability; low and moderate available water capacity;

Moderate permeability; high available water capacity

Moderately rapid and rapid permeability; low and moderate available water capacity; large stones on HSB, HSD, and HTF.

Soil features affecting Terraces and Diversions

Moderately slow permeability; seasonal high water table; erodes easily Moderately permeability; erodes easily

Slow permeability; erodes easily; high water table

Slow permeability; high water table; erodes easily

High water table; floods

Seasonal high water table; floods

Rippable bedrock at a depth of 1.5 to 3.5 feet

Slow permeability; erodes easily; high water table

Slow permeability; seasonal high water table large stones on BxB and BxD Rippable bedrock at a depth of 1.5 to 3.5 feet

Unstable organic material; high water table

Slow permeability; seasonal high water table; erodes easily Floods

Slow permeability; erodes easily; seasonal high water table Moderately rapid permeability; large stones on CvB and CvD Hard bedrock at a depth of 1.5 to 3.5 feet; large stones Floods; high water table

Moderate permeability; erodes easily; clayey subsoil

Moderately slow and slow permeability; seasonal high water table; large stones on EvB and EvD Rippable bedrock at a depth of 1.5 to 3.5 feet

Moderate permeability; erodes easily; clayey subsoil

Moderately rapid and rapid permeability; large stones on HSB, HSD, and HTF

Grassed Waterways

Erodes easily; seasonal high water table; seepage above fragipan; large stones on AcC and AcB Erodes easily; high available water capacity;

Erodes easily; seepage above fragipan; large stones on AoB and AoC; high water table Erodes easily; clayey subsoil; high water table

Floods; high water table

Seasonal high water table; floods

Rippable bedrock at 1.5 to 3.5 feet; low available water capacity

Erodes easily; seepage above fragipan; large stones on BsB; high water table Seasonal high water table; seepage above fragipan; large stones on BxB and BxD Rippable bedrock at a depth of 1.5 to 3.5 feet low to moderate available water capacity Floods; organic material; high water table

Erodes easily; seasonal high water table

Floods

Erodes easily; seepage above fragipan; seasonal high water table Erodes easily; large stones on CvB and CvD

Hard bedrock at a depth of 1.5 to 3.5 feet; low and very low available water capacity; large stones Floods; high water table

Erodes easily; moderate and high available water capacity; clayey subsoil; sinkholes Seasonal high water table; seepage above fragipan; large stones on EvB and EvD; erodes easily Rippable bedrock at a depth of 1.5 to 3.5 feet; Erodes easily; low and moderate available water capacity Erodes easily; high available water capacity; clayey subsoil; sinkholes

Erodes easily; low and moderate available water capacity; large stones on HSB, HSD, and HTF

Winter Grading	Pipeline Construction and Maintenance
Seasonal high water table; forms large frozen clods; large stones on AcC and AcB	Seasonal high water table; high corrosion potential; large stones on
May form large frozen clods; fair trafficability	ACC and ACB Subject to caving
Forms large frozen clods; high water table; poor trafficability; large stones on AoB and AoC	High water table; high corrosion potential; large stones on AoB and AoC
Forms large frozen clods; high water table; poor trafficability	High water table; high corrosion potential
Floods; high water table; forms large frozen clods	High water table; high corrosion potential; subject to caving; floods
Floods; seasonal high water table; forms large frozen clods	Seasonal high water table; subject to caving; floods; moderate corrosion
All features favorable	Rippable bedrock at a depth to 15. To 3.5 feet
Forms large frozen clods; poor trafficability; large stones on BsB; high water table	High water table; high to moderate corrosion potential; large stones on BsB
Seasonal high water table; forms large frozen clods; large stones on BxB and BxD	Seasonal high water table; moderate corrosion potential; large stones
All features favorable	on BXB and BXD Rippable bedrock at a depth of 15. to 3.5 feet
Floods; high water table; forms large frozen clods; organic material; poor trafficability	High water table; high corrosion potential; subsidence; organic material
Forms large frozen clods; poor trafficability; seasonal high water table	Seasonal high water table; high corrosion potential
May form large frozen clods; floods	Subject to caving; floods
Seasonal high water table; forms large frozen clods	Seasonal high water table; moderate corrosion potential
Forms large frozen clodes in places; large stones on CvB and CvD; fair compaction	Large stones on CvB and CvD; moderate corrosion potential
Large stones	Hard bedrock at a depth of 1.5 to 3.5 feet; large stones
Floods; forms large frozen clods; poor trafficability	High water table; high corrosion potential; subject to caving; floods
Forms large frozen clods; poor compaction	High corrosion potential; clayey subsoil; sinkholes
Seasonal high water table; forms large frozen clods; large stones on EvB and EvD	Seasonal high water table; moderate corrosion potential; large stones on
Forms large frozen clodes in places; fair and good compaction	EVB and EVD Rippable bedrock at a depth of 1.5 to 3.5 feet
Forms large frozen clodes in places; fair and good compaction	High corrosion potential; clayey subsoil; sinkholes
Large stones on HSB, HSD, and HTF	Large stones on HSB, HSD, and HTF

Hublersburg Hublersburg	HuA,HuB,HuC,HuD HuB	Fair: small stones; difficult to vegetate borrow areas
Laidig	LaB,LaC,LaD,LcB,LcD,LDF	Poor: small stones on LaB, LaC, LaD; large stones on LcB, LcD, and LDF
*Leck Kill	LkB,LkC,LkD,LIB,LID,LMF (For Calvin part of LMF; see Calvin series)	Poor: small stones on LkB, LkC, and LkD; large stones on LIB,LID, and LMF
Leetonia	LtB,LvB,LvC	Poor: large stones; too sandy
Leetonia variant Linside	LvB,LvC Lx	Poor: too sandy Good
Markes	MaB	Poor; high water table
Meckesville	MeB,MeC,MkB,MkD	Fair on MeB and MeC: small stones; slope. Poor on MkB and MkD: large stones
Melvin	Mm	Poor; high water table
Millheim	MnB,Mnc,MnD	Fair: too clayey
Monongahela	МоВ	Fair: small stones
Morrison	MrB,MrC,MrD, MsB,MsD,MTF	Fair on MrB,MrC, and MrD: small stones. Poor on MsB,MsD, and MTF: large stones
Murrill	MuA,MuB,MuC,MuD,MvB,MvD	Poor: small stones; large stones on MvB and MvD
Nolin *Opequon	No OhB,OhC,.OhD,ORFOxB,OxD (For Hagerstown part of OhB, see Hagerstown series; Rock outcrop parts of OxB and and OxD not interpreted because they are areas of exposed bedrock.)	Good Poor: too clayey; thin layer
*Philo	Ph,Pk (For Atkins part of Pt, see Atkins series.)	Good on Ph; Poor on Pk: large stones
Pope	Po	Fair: small stones
Purdy	Pu	Poor; high water table
Rayne Rubble land Strip mines	RaB Ru Sm	Fair; small stones Poor large stones Poor: small stones; acid materials
Tyler	Ту	Good

Unsuited: excessive fines

Unsuited: excessive fines	Poor: low strength	Frost action; shrink-swell; sinkholes; low strength
Unsuited: excessive fines	Good on LaB, LaC, and LaD. Fair on LcB, LcD, LdF: large	Large stones on LcB,LcD, LDF; seepage above
Unsuited: excessive fines	Fair: frost action	ragipan Large stones on LIB,LIC, and LMF; frost action; rippable bedrock at a depth of 3.5 to 6 feet;
Fair: excessive fines	Fair: large stones	Large stones; hard bedrock at a depth of 3.5 to 4 feet
Fair: excessive fines Unsuited: excessive fines	Good Fair: frost action	Erodes easily Floods; frost action; low strength; seasonal high water table
Unsuited: excessive fines	Poor: high frost action; thin layer; high water table	Frost action; shrink-swell; rippable bedrock at a depth of 1.5 to 3.5 feet; high water table
Unsuited: excessive fines	Fair: frost action	Large stones on MkB and MkD; frost action
Unsuited: excessive fines	Poor: frost action; high water table	Floods; high water table; frost action
Unsuited: excessive fines	Poor: low strength	Frost action; shrink-swell; low strength
Unsuited: excessive fines	Fair: frost action	Frost action; seasonal high water table
Unsuited: excessive fines	Fair: frost action	Frost action; large stones on MsB, MsD, and MTF
Unsuited: excessive fines	Poor: low strength	Frost action: sinkholes; large stones on MvB and MvD;
Unsuited: excessive fines Unsuited: excessive fines; thin layer	Fair: frost action Poor: low strength; thin layer; shrink-swell	Frost action; rarely floods Shrink-swell; low strength; hard bedrock at a depth of 1 to 1.5 feet
Poor: excessive fines	Fair: frost action	Floods; frost action; large stones on Pk; seasonal high water table
Poor: excessive fines	Fair: frost action; low strength	Floods; frost action
Unsuited: excessive fines	Poor: frost action; low strength; high water table	Frost action; shrink-swell; high water table
Unsuited: excessive fines Unsuited: large stones Unsuited: soft shale and siltstone fragments	Fair: frost action Poor: large stones Fair: large stones	Frost action Large stones Large stones; acid materials

Poor: front action; low strength

Frost action; low strength; shrink-swell; seasonal high

Moderate permeability; sinkholes	Low strength; high compressibility; fair and poor compaction	Well drained
Moderarely slow permeability	Fair and good compaction; large stones on LcB, LcD and LDF	Well drained
Moderately rapid permeability	Fair and good compaction; large stones on LIB,LIC, and LMF	Well drained
Moderately rapid permeability; pervious bedrock at	Susceptible to piping; high permeability when compacted;	Well drained
a depth of 3.5 to 4 feet	large stones; hard bedrock at a depth of 3.5 to 4 feet	Wall drained
Floods; moderate permeability; pervious substratum	Fair compaction; susceptible to piping; floods	Floods; moderate permeability; seasonal high water
Slow permeability; rippable bedrock at a depth of 1.5 to 3.5 feet; high water table	Limited material; rippable bedrock at a depth of 1.5 to 3.5 feet fair and good compaction	Slow permeability; rippable bedrock at at depth of 1.5 to 3 feet; high water table
Moderately slow permeability	Fair and good compaction; medium and low strength; large stones on MkB and MkD	Moderately slow permeability; fragipan
Moderate permeability; high water table; floods; possible pervious substratum	Fair compaction; medium and low strength; susceptible to piping; floods	Floods; moderate permeability; seasonal high water
Moderate permeability	Low strength; high compressibility; poor compaction	Well drained
Moderately slow permeability; possible pervious	Fair and good compaction; medium and low strength; susceptible	Moderately slow permeability; seasonal high water table;
Moderately rapid permeability	Susceptible to piping; medium permeability when compacted;	Well drained
Moderate permeability; sinkholes	Low strength; susceptible to piping; high compressibility	Well drained
Moderate permeability; possible pervious substratum Moderate permeability; pervious bedrock at a depth of 1 to 1.5 feet; sinkholes	Fair compaction; susceptible to piping Limited material; hard bedrock at a depth of 1 to 1.5 feet; sinkholes	Well drained Well drained
Floods; moderate permeability; pervious substratum; seasonal high water table	Floods; fair and poor compaction; medium strength; susceptible to piping	Floods; moderate permeability; seasonal high water
Floods; moderately rapid permeability; pervious	Floods; fair compaction; susceptible to piping	Well drained; floods
Slow permeability; high water table; possible pervious substratum	Fair and good compaction; low strength	Slow permeability; high water table
Moderate permeability	Fair compaction; medium strength; susceptible to piping	Well drained
Pervious substratum	Large stones; high permeability when compacted	Well drained; large stones
pervious substratum	Small and large stones; poor compaction; high permeability when compacted; susceptible to piping	Features variable
Slow permeability; seasonal high water table; possible	Fair compaction; low strength; susceptible to piping	Slow permeability; seasonal high water table; fragipan

Moderate permeability; erodes easily; clayey subsoil	Erodes easily; high available water capacity; clayey subsoil; sinkholes
Moderately slow permeability; large stones on LcB, LcD, and LDF	Large stones on LcB, LcD, and LDF
Moderately rapid permeability; large stones on LIB, LIC, and LMF; erodes easily	Erodes easily; large stones on LIC, LID, and LMF; moderate and high available water capacity
Moderately rapid permeability; large stones; hard bedrock at a depth of 3.5 to 4 feet	Very low available water capacity; hard bedrock at a depth of 3.5 to 4 feet; large stones
Rapid permeability; erodes easily	Erodes easily; very low available water capacity
Floods; seasonal high water table	Seasonal high water table; floods
Slow permeability; erodes easily; rippable bedrock at a depth of 1.5 to 3.5 feet	Rippable bedrock at a depth of 1.5 to 3.5 feet; Erodes easily; low and moderate available water capacity; high water table
Moderately slow permeability; large stones on MkB and MkD; erodes easily	Erodes easily; large stones on MkB and MkD
Floods; high water table	Floods; high water table
Moderate permeability; erodes easily; clayey subsoil	Erodes easily; moderate available water capacity; clayey subsoil
Moderately slow permeability; seasonal high water table; erodes easily	Erodes easily; seasonal high water table; seepage above fragipan
Moderately rapid permeability; large stones on MsB, MsD, and MTF; erodes easily	Erodes easily; moderate available water capacity; large stones on MsB.MsD, and MTF
Moderate permeability; erodes easily; clayey subsoil; sinkholes; large stones on MvB and MvD	Erodes easily; moderate and high available water capacity; clayey subsoil; large stones on MvB and MvD
Moderate permeability; erodes easily; rarely floods Hard bedrock at a depth of 1 to 1.5 feet; clayey subsoil; moderate permeability; steep slopes; sinkholes	Erodes easily; high available water capacity Hard bedrock at a depth of 1 to 1.5 feet; low available water capacity; clayey subsoil; erodes easily sinkholes
	Moderate permeability; erodes easily; clayey subsoil Moderately slow permeability; large stones on LcB, LcD, and LDF Moderately rapid permeability; large stones on LIB, LIC, and LMF; erodes easily Moderately rapid permeability; large stones; hard bedrock at a depth of 3.5 to 4 feet Rapid permeability; erodes easily Floods; seasonal high water table Slow permeability; erodes easily; rippable bedrock at a depth of 1.5 to 3.5 feet Moderately slow permeability; large stones on MkB and MkD; erodes easily Floods; high water table Moderate permeability; erodes easily; clayey subsoil Moderately slow permeability; large stones on MsB, Moderately slow permeability; large stones on MsB, Moderately rapid permeability; large stones on MsB, MsD, and MTF; erodes easily Moderate permeability; erodes easily; clayey subsoil; sinkholes; large stones on MvB and MvD Moderate permeability; erodes easily; rarely floods Hard bedrock at a depth of 1 to 1.5 feet; clayey subsoil; moderate permeability; steep slopes; sinkholes

Seasonal high water table; moderate permeability; floods; large stones on Pk; moderate and high available water capacity	Floods; seasonal high water table	Seasonal high water table; floods
Moderately rapid permeability; moderate and high available water capacity; floods	Floods	Floods
Slow permeability; high water table	Slow permeability; wetness; high water table	High water table
Moderate permeability; moderate and high available water capacity Large stones Acid material; low and very low available water capacity; small and large stones	Moderate permeability; erodes easily Large stones Small and large stones; acid material	Erodes easily; moderate and high available water capacity; Large stones Low and very low available water capacity
Seasonal high water table; slow permeability; fragipan	Slow permeability; seasonal high water table; fragipan	Seasonal high water table; erodes easily

High corrosion potential; clayey subsoil; sinkholes
Moderate corrosion potential; large stones on LcB, LcD, and LDF
Large stones on LIB, LIC, and LMF
Large stones; hard bedrock at a depth of 3.5 to 4 feet
Subject to caving Seasonal high water table; subject to caving; moderate corrosion potential; floods High water table; high corrosion potential; rippable bedrock at a depth of 1.5 to 3.5 feet
Moderate corrosion potential; large stones on MkB and MkD
High water table; high corrosion potential; subject to caving; floods
High corrosion potential
Season high water table; high corrosion potential; subject to caving
Large stones on MsB, MsD, and MTF
Moderate corrosion potential; clayey subsoil; sinkholes; large stones on MvB and MvD Subject to caving Hard bedrock at a depth of 1 to 1.5 feet; high corrosion potential; sinkholes clayey subsoil

Floods: seasonal high water table; may form large frozen clods; large stones on Pk

Floods; may form large frozen clods

Forms large frozen clods; high water table; poor trafficability

Forms large frozen clods in places Large stones; poor trafficability Small and large stones

Froms large frozen clods; poor trafficability; high water table

Seasonal high water table; subject to caving; floods; large stones on Pk; moderate corrosion potential

Subject to caving; floods

High corrosion potential; subject to caving; high water table

All feature favorable Large stones High corrosion potential

High corrosion potential; subject to caving; seasonal high water table

Ungers	UmB, UmC,UmD,UnB,UnD	Poor: small stones; large stones on UnB and UnD
*Urban land	URB	Too variable to be rated. Onsite investigation required. For Hagerstown part, see Hagerstown series.
Vanderlip	VaC	Poor; too sandy
Weikert	WeC,WeD	Poor; small stones; thin layer
Wharton	WhA,WhB,WhC	Fair: thin layer
Wyoming	Wy	Poor: small stones

Poor: excessive fines

Fair: excessive fines Poor; excessive fines

Unsuited: excessive fines

Fair: excessive fines

Good where slope is less than moderately steep Fair where slope is moderately steep

Good Poor: thin layer

Poor: frost action; low strength

Good

water table Large stone on UnB and UnD

Erodes easily Rippable bedrock at a depth of 1 to 1.5 feet

Frost action; shrink-swell; seasonal high water table; low strength Favorable; rarely floods

pervious substratum Moderate: permeability; slope	Fair compaction; large stones on UnB and UnD; medium permeability when compacted; susceptible to piping	Well drained
Rapid permeability	High permeability when compacted; susceptible to piping	Well drained
Pervious bedrock at depth of 1 to 1.5 feet; moderately rapid permeability	Limited material; bedrock at a depth of 1 to 1.5 feet; high permeability when compacted	Well drained
Moderately slow permeability; seasonal high water table	Fair and poor compaction; low strength	Moderately slow permeability; seasonal high water table
Rapid permeability; pervious substratum	High permeability when compacted; susceptible to piping	Somewhat excessively drained

Moderate permeability; moderate available water capacity; large stones on UnB and UnD

Moderate permeability; large stones on UnB and UnD

Rapid permeability; very low and moderate available water capacity Moderately rapid permeability; very low available water capacity

Season high water table; moderately slow permeability; high available water capacity Rapid permeability; very low and low available water capacity Rapid permeability; erodes easily Rippable bedrock at a depth of 1 to 1.5 feet; moderately rapid permeability Moderately slow permeability; seasonal high water table; eroded easily Rapid permeability; rarely floods Erodes easily; large stones on UnB and UnD; moderate available water capacity

Erodes easily; low and moderate available water capacity; Rippable bedrock at a depth of 1 to 1.5 feet; very low water capacity Erodes easily; high available water capacity

Low available water capacity

Forms large frozen clods in places; large stones on UnB an UnD; fair compaction

Large stones on UnB and UnD; moderate corrosion potential

All features favorable All features favorable

Froms large frozen clods; poor trafficability; seasonal high water table

All features favorable

Subject to caving Rippable bedrock at a depth of 1 to 1.5 feet

High corrosion potential; season hgih water table

Subject to caving