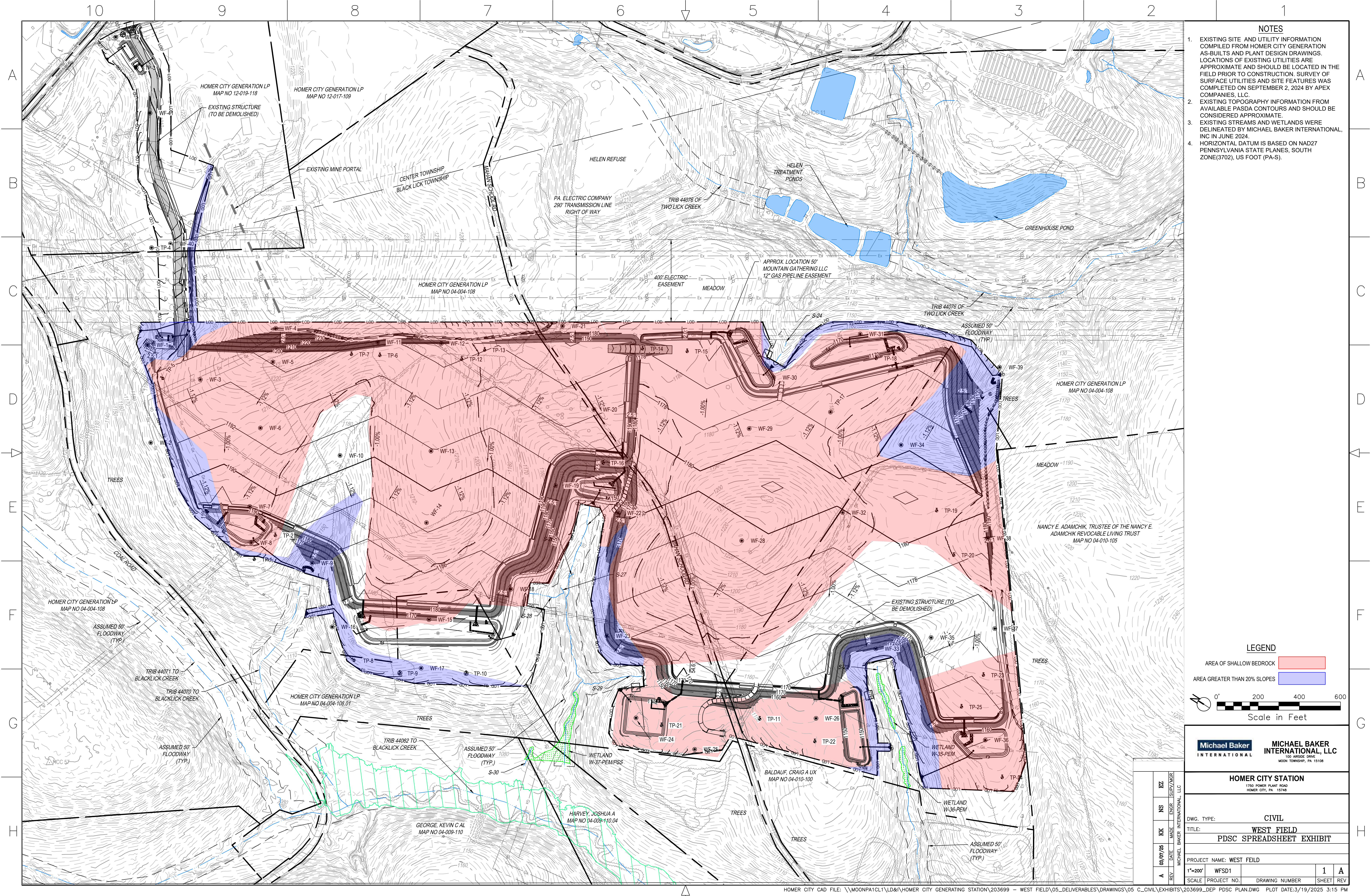


Infiltration Testing Report



- NOTES**
1. EXISTING SITE AND UTILITY INFORMATION COMPILED FROM HOMER CITY GENERATION AS-BUILTS AND PLANT DESIGN DRAWINGS. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND SHOULD BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. SURVEY OF SURFACE UTILITIES AND SITE FEATURES WAS COMPLETED ON SEPTEMBER 2, 2024 BY APEX COMPANIES, LLC.
 2. EXISTING TOPOGRAPHY INFORMATION FROM AVAILABLE PASDA CONTOURS AND SHOULD BE CONSIDERED APPROXIMATE.
 3. EXISTING STREAMS AND WETLANDS WERE DELINEATED BY MICHAEL BAKER INTERNATIONAL, INC IN JUNE 2024.
 4. HORIZONTAL DATUM IS BASED ON NAD27 PENNSYLVANIA STATE PLANES, SOUTH ZONE(3702), US FOOT (PA-S).

LEGEND

AREA OF SHALLOW BEDROCK

AREA GREATER THAN 20% SLOPES

0' 200 400 600

Scale in Feet

Michael Baker International

MICHAEL BAKER INTERNATIONAL, LLC

100 ARSIDE DRIVE
MOON TOWNSHIP, PA 15108

HOMER CITY STATION			
1750 POWER PLANT ROAD HOMER CITY, PA 15748			
DWG. TYPE: CIVIL			
TITLE: WEST FIELD			
PDSC SPREADSHEET EXHIBIT			
PROJECT NAME: WEST FIELD			
1"=200'	WFSD1	1	A
SCALE	PROJECT NO.	DRAWING NUMBER	SHEET REV

DOUBLE RING INFILTROMETER TEST

PROJECT: HCR - West Properties
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TECHNICIAN: JSL/BSR
LOCATION: TP-1

DATE: 12/17/2024
WEATHER: 44° Partly Cloudy
ELEVATION: 1167.5'
LAND USE: Ag- Row Crop



165 East Union Street, Suite 100
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(use a separate form for each location)

Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Depth of Test	Comments
--	--	--	--	--	--	--	--	--	(1) 2.0' (2) 4.0'	See TP-1 Log 12/17/2024.

Ground Temp.		Presoak		Readings (<i>Water level drop in inches</i>)								Avg Reading (4 tests)	Avg Reading/hr
	Test	10 Min.	30 Min.	1	2	3	4	5	6	7	8		
50° - 2.0'	1		X	1311/0.125"	1341/0.125"	1411/0.125"	1441/0.125"					0.125"	0.250"
50° - 4.0'	2	X		1205/1.125"	1215/1.125"	1225/1.125"	1235/1.125"					1.125"	--
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Remarks: (1) Presoak at 1211 - 0.125" - 30 min test; End test 1441
 (2) Presoak at 1055 - 3.5"- 10 min test; End test 1235

Field tests were conducted according to the following procedures:

ASTM D2488: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)
 ASTM D3385: Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer
 Appendix C of the Pennsylvania Stormwater Best Management Practices

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-1
GEOLOGY: Casselman Formation

DATE: 12/17/2024
WEATHER: 44° Partly Cloudy
ELEVATION: 1167.5'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT: CAT 317 Excavator



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(use a separate form for each location)

Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
Ap	0.0'	0.8'	Sandy Loam	Massive/Subangular blocky, fine to medium, gravelly	10 YR 3/4	Consistent	Many roots, plowed	6.0	--	M
B	0.8'	2.3'	Sandy Clay	Massive/Subangular blocky, fine to medium, gravelly and cobbly	7.5YR 5/6	Consistent	No roots	5.2'	--	M
B	2.3'	4.2'	Sand	Single grain, very fine to fine, gravelly and cobbly	10YR 6/8	Consistent	--	3.7'	--	M
B	4.2'	6.0'	Sandy Loam	Massive/Subangular blocky, fine to coarse, gravelly and cobbly	2.5YR 4/3	Consistent	--	1.8'	--	M
Cr	6.0'	7.2'	Loamy Sand	Single grain, very fine to fine, channery, weathered bedrock	10YR 5/6	Consistent	Extremely channery, angular	--	--	M

Comments: 1 Infiltration test at 2.0' and 4.0'

DOUBLE RING INFILTROMETER TEST

PROJECT: HCR - West Properties
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TECHNICIAN: BSR
LOCATION: TP-2

DATE: 12/18/2024
WEATHER: Clear 30°
ELEVATION: 1176.1'
LAND USE: Ag - Row Crop



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(use a separate form for each location)

Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Depth of Test	Comments
--	--	--	--	--	--	--	--	--	1.3'	See TP-2 Log 12/17/2024.

Ground Temp.		Presoak		Readings (<i>Water level drop in inches</i>)								Avg Reading (4 tests)	Avg Reading/hr
	Test	10 Min.	30 Min.	1	2	3	4	5	6	7	8		
48° - 1.3'	1	X		0905/1.0"	0915/1.0"	0925/1.0"	0935/1.0"					1.0"	--
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Remarks: Start presoak at 0755; After presoak = 2.25"
 Start test at 0855

Field tests were conducted according to the following procedures:

ASTM D2488: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)
 ASTM D3385: Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer
 Appendix C of the Pennsylvania Stormwater Best Management Practices

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-2
GEOLOGY: Casselman Formation

DATE: 12/17/2024
WEATHER: 44° Partly Cloudy
ELEVATION: 1176.1'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT: CAT 317 Excavator



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(use a separate form for each location)

Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.7'	Sandy Loam	Massive/Subangular blocky, very fine to medium, gravelly	10 YR 3/4	Consistent	Roots, plowed	2.6'	--	M
B	0.7'	2.6'	Loamy Sand	Subangular blocky, very fine to fine, gravelly and cobbly	7.5YR 5/6	Consistent	No roots	1.9'	--	M
Cr	2.6'	7.5'	Sandy Loam	Single grain, very fine to medium, cobbly/channery, weathered bedrock	10YR 4/4	Consistent	Extremely channery	--	--	M

Comments: 1 Infiltration test at 1.3'

DOUBLE RING INFILTROMETER TEST

PROJECT: HCR - West Properties
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TECHNICIAN: BSR
LOCATION: TP-3

DATE: 12/16/2024
WEATHER: 40° Partly Cloudy
ELEVATION: 1196.5'
LAND USE: Range



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(use a separate form for each location)

Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Depth of Test	Comments
--	--	--	--	--	--	--	--	--	4.0' - 6.0'	See TP-3 Log 12/16/2024.

Ground Temp.	Test	Presoak		Readings (Water level drop in inches)								Avg Reading (4 tests)	Avg Reading/hr
		10 Min.	30 Min.	1	2	3	4	5	6	7	8		
50° - 4.0'	1	X		1255/0.75"	1305/0.75"	1315/0.75"	1325/0.75"					0.75"	--
50.0' - 6.0'	2		X	1315/1.0"	1345/0.75"	1315/0.75"	1345/0.75"					0.81"	1.63"
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Remarks: Start presoak at 1145; 4.0' = 2.75" / 6.0' = 1.0"
 Start test 1245

Field tests were conducted according to the following procedures:

ASTM D2488: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)
 ASTM D3385: Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer
 Appendix C of the Pennsylvania Stormwater Best Management Practices

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-3
GEOLOGY: Casselman Formation

DATE: 12/16/2024
WEATHER: 40° Partly Cloudy
ELEVATION: 1196.5'
LAND USE: Range
SOIL TYPE: Rayne- Gilpin channery silt loams
EQUIPMENT: CAT 317 Excavator



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(use a separate form for each location)

Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
O/A	0.0'	0.4'	Loamy Sand	Granular, very fine - very coarse, gravelly	Grey 4/N	Consistent	Some Roots	N/A	N/A	M
Fill	0.4'	2.9'	Clay Loam	Massive/Subangular blocky, very fine to medium, cobbles and boulders	Grey 2 7/5B	Intermixed	Few Roots	N/A	N/A	M
B	2.9'	9.0'	Sandy Loam	Massive/Subangular blocky, fine to medium, gravelly, smooth transition	10YR 6/8	Consistent	No Roots	N/A	N/A	M

Comments: 1 Infiltration test at 4' and 6'

DOUBLE RING INFILTROMETER TEST

PROJECT: HCR - West Properties
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TECHNICIAN: BSR
LOCATION: TP-4

DATE: 12/17/2024
WEATHER: 44° Partly Cloudy
ELEVATION: 1199.6'
LAND USE: Range



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(use a separate form for each location)

Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Depth of Test	Comments
--	--	--	--	--	--	--	--	--	2.0' - 4.0'	See TP-4 Log 12/16/2024.

Ground Temp.	Test	Presoak		Readings (Water level drop in inches)								Avg Reading (4 tests)	Avg Reading/hr
		10 Min.	30 Min.	1	2	3	4	5	6	7	8		
50° - 2.0'	1		X	1130/1.0"	1200/0.75"	1230/0.75"	1300/0.75"					0.81"	1.63"
50° - 4.0'	2	X		1110/1.25"	1120/1.25"	1130/1.0"	1140/1.0"					1.125"	--
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Remarks: Start presoak at 1000 - After presoak 2.0' = 1.5"; 4.0' = 3.0"
 Start test at 1100

Field tests were conducted according to the following procedures:

ASTM D2488: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)
 ASTM D3385: Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer
 Appendix C of the Pennsylvania Stormwater Best Management Practices

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-4
GEOLOGY: Casselman Formation

DATE: 12/16/2024
WEATHER: 40° Partly Cloudy
ELEVATION: 1199.6'
LAND USE: Range
SOIL TYPE: Wharton silt loam
EQUIPMENT: CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
O/A	0.0'	0.4'	Sandy Loam	Granular, very fine to fine	2.5YR 2.5/1	Consistent	Roots, Earth Worms	N/A	N/A	M
B	0.4'	9.0'	Clay	Massive/Subangular blocky, fine to medium, gravelly/cobbly	10YR 5/4	Consistent	Few roots	N/A	N/A	M

Comments: Looser/Softer Material Below 3', 1 Infiltration test at 2' and 4'

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-5
GEOLOGY: Casselman Formation

DATE: 12/16/2024
WEATHER: 40° Partly Cloudy
ELEVATION: 1195.6'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT: CAT 317 Excavator



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(use a separate form for each location)

Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	1.0'	Loam	Granular, fine to medium	7.5 YR 5/2	Consistent	Many roots	4.0'	3.5'	M
B	1.0'	2.2'	Clay Loam	Massive/Subangular blocky, very fine to medium, gravelly	10YR 5/6	Consistent	No roots	3.0'	2.5'	M
Cr	2.2'	4.0'	Sandy Loam	Single grains, very fine to fine, channery, weathered bedrock	10YR 6/6	Consistent	Extremely channery, angular	1.8'	--	M - W Wet - 3.5'
Cr	4.0'	5.0'	Sandy Loam	Single grains very fine to fine, channery, weathered bedrock	5YR 5/8	Consistent	Extremely channery, angular	1.0'	--	M
R	5.0'	6.0'	Rock	Bedrock	--	Consistent	Gray sandstone	--	--	D

Comments: Infiltration test abandoned due to shallow limiting layer.

DOUBLE RING INFILTROMETER TEST

PROJECT: HCR - West Properties
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TECHNICIAN: BSR
LOCATION: TP-6

DATE: 12/23/2024
WEATHER: 5° - 28° partly cloudy
ELEVATION: 1198.6'
LAND USE: Range



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(use a separate form for each location)

Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Depth of Test	Comments
--	--	--	--	--	--	--	--	--	2.0'	See TP-6 Log from 12/18/2024.

Ground Temp.		Presoak		Readings (<i>Water level drop in inches</i>)								Avg Reading (4 tests)	Avg Reading/hr
	Test	10 Min.	30 Min.	1	2	3	4	5	6	7	8		
48° - 2.0'	1		X	1035/0.0"	1105/0.0"	1135/0.0"	1205/0.125"					0.03"	0.06"
48° - 2.0'	2		X	1035/0.125"	1105/0.125"	1135/0.0"	1205/0.125"					0.09"	0.19"
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Remarks: (1) Start presoak at 0905; Holes spaced at 6.0' apart; (2) Start presoak at 0905

(1) Start test at 1005 = 0.0", (2) Start test at 1005 = 0.125"

Field tests were conducted according to the following procedures:

ASTM D2488: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)
 ASTM D3385: Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer
 Appendix C of the Pennsylvania Stormwater Best Management Practices

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-6
GEOLOGY: Casselman Formation

DATE: 12/18/2024
WEATHER: 35° Overcast
ELEVATION: 1198.6'
LAND USE: Range
SOIL TYPE: Wharton silt loam
EQUIPMENT: CAT 317 Excavator



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(use a separate form for each location)

Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
O/A	0.0'	1.2'	Sandy Clay Loam	Subangular blocky, very fine to medium	7.5 YR 4/2	Consistent	Common fine to coarse roots,	--	--	M
B	1.2'	3.0'	Clay	Massive/ Subangular blocky Fine to very coarse, gravelly	10YR 5/6	Consistent	Few roots	--	--	M
B	3.0'	8.0'	Clay	Massive/Subangular blocky, fine to very coarse, gravelly	10YR 5/6 10YR 7/1	Intermixed metal & gleying	No roots	--	--	M

Comments: 2 Infiltration test at 2'.

DOUBLE RING INFILTROMETER TEST

PROJECT: HCR - West Properties
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TECHNICIAN: BEN
LOCATION: TP-7

DATE: 12/20/2024
WEATHER: 40° light shower
ELEVATION: 1205.5'
LAND USE: Ag - Row Crop



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(use a separate form for each location)

Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Depth of Test	Comments
--	--	--	--	--	--	--	--	--	1.0'	See TP-7 Log 12/18/2024.

Ground Temp.		Presoak		Readings (<i>Water level drop in inches</i>)								Avg Reading (4 tests)	Avg Reading/hr
	Test	10 Min.	30 Min.	1	2	3	4	5	6	7	8		
49° - 1.0'	1		X	1310/0.0"	1340/0.0"	1410/0.0"	1440/0.0"					0.0"	0.0"
49° -1.0	2		X	1310/0.0"	1340/0.0"	1410/0.0"	1440/0.0"					0.0"	0.0"
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Remarks: (1) Started presoak at 1140; Holes spaced at 10' apart; (2) Started presoak at 1140
 (1) Start test at 1240 = 0.0"; (2) Started test at 1240 =0.0"

Field tests were conducted according to the following procedures:

ASTM D2488: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)
 ASTM D3385: Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrrometer
 Appendix C of the Pennsylvania Stormwater Best Management Practices

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-7
GEOLOGY: Casselman formation

DATE: 12/18/2024
WEATHER: 40° Light Shower
ELEVATION: 1205.5'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
O/A	0.0'	0.8'	Sandy Clay Loam	Subangular blocky, fine to coarse, gravelly	10YR 4/3	Consistent	Common roots	--	--	M
B	0.8'	2.2'	Sandy Clay Loam	Massive/Subangular Blocky fine to coarse, cobbly	10YR 5/6	Consistent	Few roots	--	--	M
B	2.2'	7.5'	Sandy Clay Loam	Massive/Subangular blocky, fine to very coarse, cobbly & gravelly	10YR 5/6 Gley 2 7-10B	Gleying throughout, intermixed, strong gleying 2'-4'	No roots	--	--	M

Comments: 2 infiltration tests at 1'

DOUBLE RING INFILTROMETER TEST

PROJECT: HCR - West Properties
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TECHNICIAN: BEN
LOCATION: TP-8

DATE: 12/18/2024
WEATHER: 28° Overcast
ELEVATION: 1139.9'
LAND USE: Ag - Row Crop



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(use a separate form for each location)

Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Depth of Test	Comments
--	--	--	--	--	--	--	--	--	1.3'	See TP-8 Log 12/17/2024.

Ground Temp.		Presoak		Readings (<i>Water level drop in inches</i>)								Avg Reading (4 tests)	Avg Reading/hr
	Test	10 Min.	30 Min.	1	2	3	4	5	6	7	8		
48° - 1.3'	1		X	0945/0.125"	1015/0.125"	1045/0.125"	1115/0.125"					0.125"	0.250"
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Remarks: Start presoak at 0815 = 0.125"

Start test at 0915

Field tests were conducted according to the following procedures:

ASTM D2488: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)
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 Appendix C of the Pennsylvania Stormwater Best Management Practices

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-8
GEOLOGY: Casselman Formation

DATE: 12/17/2024
WEATHER: 44° Partly Cloudy
ELEVATION: 1139.9'
LAND USE: Ag - Row Crop
SOIL TYPE: Gilpin channery silt loam
EQUIPMENT: CAT 317 Excavator



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(use a separate form for each location)

Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.9'	Sandy Loam	Massive/Subangular blocky, fine to medium, gravelly	7.5 YR 4/3	Consistent	Roots	3.0	--	M
B	0.9'	3.0'	Sandy Loam	Massive/Angular blocky fine to medium, gravelly	10YR 6/4	Consistent	No Roots	2.1	--	M
Cr	3.0'	8.0'	Loamy Sand	Single grain/Granular very fine to fine, channery, weathered bedrock	10YR 4/3	Consistent	Extremely channery	--	--	M

Comments: 1 Infiltration test at 1.3'

DOUBLE RING INFILTROMETER TEST

PROJECT: HCR - West Properties
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TECHNICIAN: BSR
LOCATION: TP-9

DATE: 12/18/2024
WEATHER: 32° Overcast
ELEVATION: 1147.4'
LAND USE: Ag - Row Crop



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(use a separate form for each location)

Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Depth of Test	Comments
--	--	--	--	--	--	--	--	--	1.0'	See TP-9 Log 12/18/2024.

Ground Temp.		Presoak		Readings (<i>Water level drop in inches</i>)								Avg Reading (4 tests)	Avg Reading/hr
	Test	10 Min.	30 Min.	1	2	3	4	5	6	7	8		
50° - 1.0'	1	X		1225/0.75"	1235/0.75"	1245/0.75"	1255/0.75"					0.75"	--
50° -1.0'	2	X		1225/1.0"	1235/0.75"	1245/0.75"	1255/0.75"					0.81"	--
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Remarks: Start presoak at 1115 = 0.125"; After presoak 1 = 2.0", 2= 2.25"
 Start test at 1215

Field tests were conducted according to the following procedures:

ASTM D2488: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)
 ASTM D3385: Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer
 Appendix C of the Pennsylvania Stormwater Best Management Practices

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-9
GEOLOGY: Casselman Formation

DATE: 12/18/2024
WEATHER: 28° Overcast
ELEVATION: 1147.4'
LAND USE: Ag - Row Crop
SOIL TYPE: Gilpin channery silt loam
EQUIPMENT: CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.9'	Sandy Loam	Angular blocky, fine to medium, gravelly	7.5 YR 4/3	Consistent	Some roots, plowed	2.5	--	M
B/C	0.9'	2.5'	Sandy Clay Loam	Massive/Subangular blocky fine to medium, gravelly and channery	10YR 5/6	Consistent	No roots, extremely channery	1.6	--	M
Cr	2.5'	6.0'	Loamy Sand	Single grain, very fine to fine, flaggy, weathered bedrock	10YR 5/4	Consistent	Extremely flaggy	--	--	M

Comments: 2 Infiltration tests at 1'.

DOUBLE RING INFILTROMETER TEST

PROJECT: HCR - West Properties
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TECHNICIAN: BEN
LOCATION: TP-10

DATE: 12/20/2024
WEATHER: 28° overcast
ELEVATION: 1138.6
LAND USE: Ag - Row Crop



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(use a separate form for each location)

Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Depth of Test	Comments
--	--	--	--	--	--	--	--	--	3.0'	See Pit Log TP-10 from 12/18/2024.

Ground Temp.		Presoak		Readings (<i>Water level drop in inches</i>)								Avg Reading (4 tests)	Avg Reading/hr
	Test	10 Min.	30 Min.	1	2	3	4	5	6	7	8		
48° - 3.0'	1		X	0930/0.0"	1000/0.125"	1030/0.0"	1100/0.0"					0.03"	0.06"
48° - 3.0'	2	X		0910/1.5"	0920/1.25"	0930/1.25"	0940/1.25"					1.3"	--
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Remarks: (1) Start presoak at 0800; Holes spaced at 10' apart; (2) Started presoak at 0800

(1) Start test at 0900 = 0.125"; (2) Start test at 0900 = 3.0"

Field tests were conducted according to the following procedures:

ASTM D2488: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)
 ASTM D3385: Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer
 Appendix C of the Pennsylvania Stormwater Best Management Practices

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-10
GEOLOGY: Casselman Formation

DATE: 12/18/2024
WEATHER: 28° Overcast
ELEVATION: 1138.6'
LAND USE: Ag - Row Crop
SOIL TYPE: Gilpin channery silt loam
EQUIPMENT: CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.8'	Sandy Clay Loam	Massive/Subangular blocky, fine to medium, gravelly	7.5 YR 4/3	Consistent	Roots, plowed	--	--	M
B	0.8'	3.4'	Sandy Clay Loam	Massive/Subangular blocky fine to coarse, gravelly and cobbly	10YR 5/8	Consistent	Few roots	--	--	M
C	3.4'	7.0'	Sandy Loam	Massive/Single grain, fine to medium, channery	10YR 5/6	Consistent	No roots	--	--	M

Comments: 2 Infiltration tests at 3'

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-11
GEOLOGY: Casselman Formation

DATE: 12/23/2024
WEATHER: 5° - 28° partly cloudy
ELEVATION: 1144.1'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.6'	Clay Loam	Massive/Subangular blocky, fine to medium, gravelly	10YR 3/3	Consistent	Common fine to medium roots	0.6'	--	M
Cr	0.6'	2.6'	Sandy Loam	Single grain, fine to medium, gravel to flagstone, weathered bedrock	10YR 5/8	Consistent	Extremely cobbly, flaggy	--	--	M

Comments: Infiltration testing abandoned due to shallow limiting layer.

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-11
GEOLOGY: Casselman Formation

DATE: 12/23/2024
WEATHER: 5° - 28° partly cloudy
ELEVATION: 1144.1'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.6'	Clay Loam	Massive/Subangular blocky, fine to medium, gravelly	10YR 3/3	Consistent	Common fine to medium roots	0.6'	--	M
Cr	0.6'	2.6'	Sandy Loam	Single grain, fine to medium, gravel to flagstone, weathered bedrock	10YR 5/8	Consistent	Extremely cobbly, flaggy	--	--	M

Comments: Infiltration testing abandoned due to shallow limiting layer.

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-12
GEOLOGY: Casselman Formation

DATE: 12/19/2024
WEATHER: 28° Overcast
ELEVATION: 1205.4'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT: CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
O/Ap	0.0'	0.9'	Sandy Clay Loam	Massive/ Subangular blocky, fine to medium, gravelly	7.5YR 4/3	Consistent	Common fine to medium roots	1.4'	2.1'	M
B/C	0.9'	1.4'	Sandy Clay Loam	Massive, Subangular blocky, fine to medium, cobbly/gravelly	10YR 6/8	Consistent	Few roots	0.5'	1.2'	M
Cr	1.4'	2.7'	Sandy Clay Loam	Single grain, very fine to fine channery, weathered bedrock	10YR 5/6 10YR 7/1	Intermixed some gleying & metal staining	Few fine roots, extremely channery	--	0.7'	M/W Water at 2.1'

Comments: Wet at 2.1'; Shale at 1.4', Infiltration test abandoned due to shallow limiting layer.

DOUBLE RING INFILTROMETER TEST

PROJECT: HCR - West Properties
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TECHNICIAN: BEN
LOCATION: TP-13

DATE: 12/19/2024
WEATHER: 30° Overcast
ELEVATION: 1196.0'
LAND USE: Forest



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(use a separate form for each location)

Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Depth of Test	Comments
--	--	--	--	--	--	--	--	--	1.0'	See TP-13 Log 12/19/2024.

Ground Temp.		Presoak		Readings (<i>Water level drop in inches</i>)								Avg Reading (4 tests)	Avg Reading/hr
	Test	10 Min.	30 Min.	1	2	3	4	5	6	7	8		
48° - 1.0'	1		X	1200/0.0"	1230/0.0"	1300/0.0"	1330/0.0"					0.0"	0.0"
49° - 1.0'	2	X		1155/1.0"	1205/1.0"	1215/1.0"	1225/1.0"					1.0"	--
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Remarks: #1 Start presoak at 1030, after presoak 0.0", started test 1130
 #2 Start presoak at 1045, after presoak 2.75", started test at 1145; Holes spaced 10' apart

Field tests were conducted according to the following procedures:
 ASTM D2488: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)
 ASTM D3385: Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer
 Appendix C of the Pennsylvania Stormwater Best Management Practices

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-13
GEOLOGY: Casselman Formation

DATE: 12/19/2024
WEATHER: 28° Overcast
ELEVATION: 1196.0'
LAND USE: Forest
SOIL TYPE: Wharton silt loam
EQUIPMENT: CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
O/A	0.0'	0.7'	Clay	Subangular Blocky, fine to medium, gravelly	10YR 4/3	Consistent	Common fine to coarse roots	2.8'	4.9'	M
B	0.7'	1.5'	Clay	Massive/ Subangular blocky, fine to medium	10YR 6/8	Consistent	Some fine to coarse roots,	2.1'	4.2'	M
B/C	1.5'	3.0'	Sandy Clay	Massive/ Subangular blocky, fine to medium	10YR 6/4 Gley 2 7 5BG	Intermixed weak gleying & metal staining	Few fine roots	1.5'	3.4'	M
Cr	3.0'	6.0'	Sandy Clay	Single grain, very fine to fine, flaggy, weathered bedrock	Gley 2 7/5PB 10YR 4/6 10YR 5/6	Intermixed, strong gleying & metal staining	Few fine roots, extremely flaggy/channery	--	1.9'	M/W Water at 4.9'

Comments: Water/wet at 4.9'; 2 Infiltration tests at 1'

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-14
GEOLOGY: Casselman Formation

DATE: 12/19/2024
WEATHER: 30°
ELEVATION: 1178.6'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT: CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
Ap	0.0'	0.7'	Sandy Loam	Massive/Subangular blocky, fine to medium, gravelly	7.5YR 4/2	Consistent	Common very fine to fine roots,	1.7'	--	M
B	0.7'	1.2'	Sandy Clay Loam	Massive/Subangular blocky, fine to medium, gravelly	10YR 4/6	Consistent	Few fine roots	1.0'	--	M
B/C	1.2'	1.7'	Sandy Clay Loam	Massive/ Subangular blocky, very fine to fine, channery	10YR 4/6	Consistent	No roots	0.5'	--	M
Cr	1.7'	3.0'	Loamy Sand	Platy/Single grain, platy shale channers and flagstones fragments, single grain fine to very fine, weathered bedrock	10YR 5/6	Predominately, consistent, some metal staining	Extremely channery/flaggy	--	--	M

Comments: Infiltration testing abandoned due to shallow limiting layer.

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-15
GEOLOGY: Casselman Formation

DATE: 12/19/2024
WEATHER: 30°
ELEVATION: 1178.5'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
Ap	0.0'	1.0'	Sandy Loam	Massive/Subangular blocky, fine to very coarse, gravelly	10YR 4/3	Consistent	Common fine roots	1.9'	--	M
B	1.0'	1.9'	Sandy Clay Loam	Massive/Subangular blocky, fine to medium, gravelly	10YR 4/6	Consistent	No roots	0.9'	--	M
Cr	1.9'	3.5'	Sandy Loam	Single grain, very fine to fine, flaggy/channery weathered bedrock, shale	10YR 4/6	Predominately consistent, some metal staining	Extremely flaggy/channery	--	--	M

Comments: Shale at 1.9', Infiltration testing abandoned due to shallow limiting layer.

DOUBLE RING INFILTROMETER TEST

PROJECT: HCR - West Properties
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TECHNICIAN: WC
LOCATION: TP-16

DATE: 12/20/2024
WEATHER: 33° snow
ELEVATION: 1170.9'
LAND USE: Forest



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(use a separate form for each location)

Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Depth of Test	Comments
--	--	--	--	--	--	--	--	--	1.5'	See TP-16 Log from 12/19/2024.

Ground Temp.		Presoak		Readings (<i>Water level drop in inches</i>)								Avg Reading (4 tests)	Avg Reading/hr
	Test	10 Min.	30 Min.	1	2	3	4	5	6	7	8		
48° - 1.5'	1		X	1150/1.75"	1220/1.5"	1250/1.5"	1320/1.5"					1.6"	3.1"
48° - 1.5'	2		X	1150/0.375"	1220/0.5"	1250/0.5"	1320/0.625"					0.5"	1.0"
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Remarks: Started presoak of both holes at 1020. Began/took presoak measurement at 1120 - both at 30 min intervals (hole (1) at 1.75"; Hole (2) at 0.375").
 Took measurements thereafter for each at 30 minute interval. Holes are approximately 6.0' apart.

Field tests were conducted according to the following procedures:
 ASTM D2488: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)
 ASTM D3385: Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer
 Appendix C of the Pennsylvania Stormwater Best Management Practices

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-16
GEOLOGY: Casselman Formation

DATE: 12/19/2024
WEATHER: 30°
ELEVATION: 1170.9'
LAND USE: Forest
SOIL TYPE: Gilpin channery silt loam
EQUIPMENT CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
O/A	0.0'	0.9'	Silty Loam	Massive/Subangular blocky, fine to medium, no coarse fragments	7.5YR 3/4	Consistent	Common fine to very coarse roots	--	--	M
A	0.9'	1.9'	Sandy Clay Loam	Massive/Subangular blocky, fine to medium, gravelly	10YR 4/3	Consistent	Few fine roots	--	--	M
B	1.9'	2.9'	Sandy Clay Loam	Massive/Subangular blocky, medium to very coarse, gravelly	2.5Y 7/4	Predominately consistent, some metal staining	Few fine roots	--	--	D
B	2.9'	7.9'	Sandy Clay Loam	Massive/Subangular blocky, medium to very coarse, gravelly	10YR 6/3	Predominately consistent, little gleying, some metal staining	Few roots	--	--	D

Comments: 2 Infiltration tests at 1.5'

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-17
GEOLOGY: Casselman Formation

DATE: 12/20/2024
WEATHER: 34° overcast
ELEVATION: 1178.4'
LAND USE: Ag - Row Crop
SOIL TYPE: Gilpin channery silt loam
EQUIPMENT CAT 317 Excavator



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(use a separate form for each location)

Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.6'	Clay Loam	Massive/Subangular blocky, fine to medium, gravelly	7.5YR 3/3	Consistent	Common very fine to medium roots	1.9'	--	M
B	0.6'	1.9'	Silty Clay Loam	Massive/Subangular blocky, fine to coarse, gravelly	10YR 5/6	Consistent	Few medium roots	1.3'	--	M
Cr	1.9'	3.0'	Sandy Clay Loam	Single grain, very fine to fine, predominately flaggy, weathered bedrock	10YR 5/8	Consistent	No roots, extremely channery/ flaggy	--	--	M

Comments: Shale at 1.9' - Flagstones at 1.9', Infiltration testing abandoned due to shallow limiting layer.

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-18
GEOLOGY: Casselman Formation

DATE: 12/20/2024
WEATHER: 34° overcast/light snow
ELEVATION: 1178.3'
LAND USE: Ag - Row Crop
SOIL TYPE: Gilpin channery silt loam
EQUIPMENT CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.7'	Clay Loam	Massive/Subangular blocky, fine to medium, gravelly/cobbly	10YR 3/4	Consistent	Common very fine to medium roots	0.7'	--	M
Cr	0.7'	2.8'	Sandy Loam	Single grain, very fine to medium, flaggy, weathered bedrock	10YR 5/8	Consistent	Common fine to medium roots, extremely cobbly/flaggy	--	--	M

Comments: Shale at 0.7' - Flagstones at 0.7', Infiltration testing abandoned due to shallow limiting layer.

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-18
GEOLOGY: Casselman Formation

DATE: 12/20/2024
WEATHER: 34° overcast/light snow
ELEVATION: 1178.3'
LAND USE: Ag - Row Crop
SOIL TYPE: Gilpin channery silt loam
EQUIPMENT CAT 317 Excavator



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(use a separate form for each location)

Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.7'	Clay Loam	Massive/Subangular blocky, fine to medium, gravelly/cobbly	10YR 3/4	Consistent	Common very fine to medium roots	0.7'	--	M
Cr	0.7'	2.8'	Sandy Loam	Single grain, very fine to medium, flaggy, weathered bedrock	10YR 5/8	Consistent	Common fine to medium roots, extremely cobbly/flaggy	--	--	M

Comments: Shale at 0.7' - Flagstones at 0.7', Infiltration testing abandoned due to shallow limiting layer.

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-19
GEOLOGY: Casselman Formation

DATE: 12/20/2024
WEATHER: 34° overcast/light snow
ELEVATION: 1175.8'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT CAT 317 Excavator



165 East Union Street, Suite 100
 Somerset, PA 15501
 814-443-3344 Fax 814-444-0365
 www.apexcscos.com

(use a separate form for each location)

Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.9'	Clay Loam	Massive/Subangular blocky, fine to medium, gravelly	10YR 4/4	Consistent	Common fine roots	6.0'	3.5'	M
B/C	0.9'	1.6'	Clay Loam	Massive/Subangular blocky, medium to coarse, gravelly	10YR 6/8	Consistent	No roots	5.1'	2.6'	M
Cr	1.6'	6.0'	Sandy Clay Loam	Platy/Single grain, fine to medium, predominately channery, weathered bedrock	7.5YR - 6/6 10YR - 6/1	Intermixed, some gley, metal staining	Extremely channery	4.4'	1.9'	M/W Water at 3.5'
R	6.0'	6.0'	Rock	Bedrock	--	Consistent	Gray shale, extremely channery, flaggy	--	--	M

Comments: Shale at 1.6' - Channers, Shale at 6.0' - Flagstones, Water at 3.5', Infiltration testing abandoned due to shallow limiting layer.

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-20
GEOLOGY: Casselman Formation

DATE: 12/23/2024
WEATHER: 5° - 28° partly cloudy
ELEVATION: 1173.1'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.8'	Clay Loam	Massive/Subangular blocky, fine to medium, gravelly	10YR 4/3	Consistent	Common fine roots	1.6'	--	M
B/C	0.8'	1.6'	Clay Loam	Massive/Subangular blocky, medium to coarse, gravelly	10YR 6/7	Consistent	No roots	0.8'	--	M
Cr	1.6'	3.4'	Sandy Clay Loam	Platy, medium, channery, weathered bedrock	10YR 6/1	Consistent	Extremely channery	--	--	M

Comments: Infiltration testing abandoned due to shallow limiting layer.

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-21
GEOLOGY: Casselman Formation

DATE: 12/23/2024
WEATHER: 5° - 28° partly cloudy
ELEVATION: 1145.4'
LAND USE: Ag - Row Crop
SOIL TYPE: Gilpin channery silt loam
EQUIPMENT CAT 317 Excavator



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(use a separate form for each location)

Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	1.0'	Clay Loam	Massive/Subangular blocky, fine to medium, gravelly	10YR 3/4	Consistent	Common fine to medium roots	1.0'	--	M
Cr	1.0'	2.6'	Sandy Loam	Single grain, fine to medium, gravelly to flaggy, weathered bedrock	10YR 5/8	Consistent	Extremely cobbly, flaggy	--	--	M

Comments: Infiltration testing abandoned due to shallow limiting layer.

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-22
GEOLOGY: Casselman Formation

DATE: 12/23/2024
WEATHER: 5° - 28° partly cloudy
ELEVATION: 1152.7'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.8'	Clay Loam	Massive/Subangular blocky, fine to medium, gravelly	10YR 4/3	Consistent	Common fine roots	2.6'	--	M
B/C	0.8'	2.6'	Clay Loam	Massive/Subangular blocky, medium to coarse, gravelly	10YR 6/8	Consistent	No roots	1.8	--	M
Cr	2.6'	3.2'	Sandy Clay Loam	Platy, fine to medium, channery, weathered bedrock	10YR 6/1	Consistent	Extremely channery	--	--	M

Comments: Infiltration testing abandoned due to shallow limiting layer.

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-23
GEOLOGY: Casselman Formation

DATE: 12/30/2024
WEATHER: 30° partly cloudy
ELEVATION: 1165.0'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.7'	Clay loam	Massive/Subangular blocky, fine to medium, gravelly/cobbly	10YR 3/4	Consistent	Common fine to medium roots	0.7'	--	M
Cr	0.7'	2.3'	Sandy loam	Single grain, fine to medium, gravel to flagstones, weathered bedrock	10YR 5/8	Consistent	Extremely flaggy, medium to fine	--	--	M

Comments: Infiltration testing abandoned due to shallow limiting layer.

DOUBLE RING INFILTROMETER TEST

PROJECT: HCR - West Properties
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TECHNICIAN: BEN
LOCATION: TP-24

DATE: 12/30/2024
WEATHER: 30° - Partly cloudy
ELEVATION: 1151.5'
LAND USE: Ag - Row Crop



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(use a separate form for each location)

Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Depth of Test	Comments
--	--	--	--	--	--	--	--	--	1.0'	See TP-24 Log 12/30/24.

Ground Temp.		Presoak		Readings (<i>Water level drop in inches</i>)								Avg Reading (4 tests)	Avg Reading/hr
	Test	10 Min.	30 Min.	1	2	3	4	5	6	7	8		
48° - 1.0'	1		X	0950/1.0"	1020/1.0"	1050/1.0"	1120/1.0"					1.0"	2.0"
48° - 1.0'	2		X	0950/0.0"	1020/0.0"	1050/0.0"	1120/0.0"					0.0"	0.0"
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												

Remarks: (1) Start presoak at 0820; Holes spaced at 8.0' apart; (2) Start presoak at 0820

(1) Start test at 0920 = 1.0"; (2) Start test at 0920 = 0.125"

Field tests were conducted according to the following procedures:

ASTM D2488: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)
 ASTM D3385: Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer
 Appendix C of the Pennsylvania Stormwater Best Management Practices

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-24
GEOLOGY: Casselman Formation

DATE: 12/30/2024
WEATHER: 30° partly cloudy
ELEVATION: 1151.6'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.6'	Clay Loam	Massive/Subangular blocky, fine to medium, gravelly	7.5YR 3/3	Consistent	Common fine to medium roots	3.3'	--	M
B	0.6'	3.3'	Silty Clay Loam	Massive/Subangular blocky, fine to coarse, gravelly	10YR 5/5	Consistent	Few roots	2.7'	--	M
Cr	3.3'	4.2'	Sandy Loam	Single grain, fine to medium, flaggy, weathered bedrock	10YR 5/8	Consistent	Extremely flaggy	--	--	M

Comments: 2 Infiltration tests at 1'.

TEST PIT DESCRIPTION AND LOG FORM

PROJECT: Homer City Redevelopment
SITE: West Properties
PROJECT NO: HOM018-0633200-24012993
TESTED BY: JSL
TEST PIT: TP-25
GEOLOGY: Casselman Formation

DATE: 12/30/2024
WEATHER: 30° partly cloudy
ELEVATION: 1157.3'
LAND USE: Ag - Row Crop
SOIL TYPE: Wharton silt loam
EQUIPMENT CAT 317 Excavator



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Horizon	Upper Boundary	Lower Boundary	Soil Textural Class	Type, Size, Coarse Fragments, etc.	Soil Color	Color Patterns	Pores, Roots, Rock Structure	Depth to Bedrock	Depth to Water	Moisture
A	0.0'	0.5'	Clay Loam	Massive/Subangular blocky, fine to medium, gravelly/cobbly	10YR 3/3	Consistent	Common fine to medium roots	0.5'	--	M
Cr	0.5'	1.9'	Sandy Loam	Single grain, fine to medium, gravel to flagstone, weathered bedrock	10YR 5/8	Consistent	Extremely flaggy	--	--	M

Comments: Infiltration testing abandoned due to shallow limiting layer.