

INFILTRATION TESTING DAILY FIELD REPORT

Project Name: HCPP Pipeline
 Client: Homer City Generation LP
 Test Designation: IT-01
 Latitude: 40.45639
 Longitude: -79.24435

Job No.: 354-010
 Site Location: Burrell Township, Indiana County, PA
 Weather Conditions: Sunny
 Temperature: 57-78
 Date: 4/24/2025

DOUBLE-RING INFILTRMETER TEST RESULTS

No Tests Performed

Test ID (Depth, in bgs): IT-01A ()

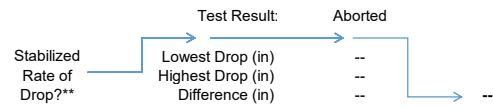
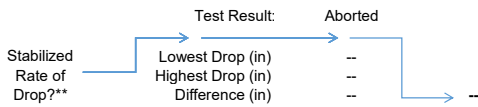
Reading Interval (min)*: 30

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	0.00	--
1	0.00	--
2	0.00	--
3	0.00	--
4	0.00	--
5	--	--
6	--	--
7	--	--
8	--	--

Test ID (Depth, in bgs): IT-01B ()

Reading Interval (min)*: 30

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	0.00	--
1	0.00	--
2	0.00	--
3	0.00	--
4	0.00	--
5	--	--
6	--	--
7	--	--
8	--	--



Infiltration Rate (in/hr)***: --

Infiltration Rate (in/hr)***: --

Design Infiltration Rate (in/hr)**** = --

Assumed Safety Factor = 2

Legend

* If the drop during the second 30-minute presoak interval is less than 2 inches, use 30 minute intervals for the testing. If the drop during the second 30-minute presoak interval is 2 inches or greater, use 10 minute intervals.

**A stabilized rate of drop is defined as a difference of ¼ inch or less of drop between the highest and lowest interval readings of four consecutive interval readings.

***The Infiltration Rate is the average drop between the four appropriate consecutive readings.

****The Design Infiltration Rate is the geometric mean of the tested Infiltration Rates reduced by the assumed factor of safety.

Completed By: *Austin Perry*
X
 Austin Perry, E.I.T.
 Project Consultant

Reviewed By: *Tyler Reynolds*
X
 Tyler Reynolds, P.E.
 Project Manager



Soil Log

Project Name: HCPP Pipeline
 Test Pit: IT-01
 Geology: Casselman Formation
 Latitude: 40.45639
 Longitude: -79.24435

Project Number: 354-010
 Date: 4/24/2025
 NRCS Soil Survey Map Unit: GcB (Gilpin Channery Silt Loam)
 Classified by: Austin Perry, E.I.T.
 Bottom of test pit (in): 50

Client: Homer City Generation LP
 Elevation: 1101
 Land Use: Open Field/Forest
 Reviewed by: Tyler Reynolds, P.E.

Site Location: Burrell Township, Indiana County, PA
 Equipment Used: CAT 300.9D Mini Excavator
 Weather: Sunny

Additional Comments: Excavator bucket refusal at approximately 50 inches below ground surface. Tests were not performed due to limiting features (mottling and bedrock) encountered within 18-inches of the proposed test depth.

Horizon	Horizon Boundary (inches)	Soil Textural Class (USDA)	Coarse Fragments	Color Patterns	Pores - Roots	Grade of Structure	Depth to Bedrock (inches)	Depth to Free Water (inches)	Comments
A	0 to 16	Very Dark Grayish Brown (10YR 3/2) Silt Loam	<15% Gravel	--	Common Very Fine to Coarse Tubular Pores; Common Fine to Very Coarse Roots Throughout	Weak Very Fine to Fine Granular Structure; Loose Consistence	--	--	Topsoil
B	16 to 50	Brownish Yellow (10YR 6/6) Clay Loam	35% to <60% Gravel to Boulders	Light Brownish Gray (10YR 6/2) Common Fine to Coarse Prominent Mottles	Common Fine to Medium Interstitial Pores; Few Very Fine to Fine Roots Matted around Rock Fragments	Moderate Very Fine to Coarse Angular Blocky Structure; Friable to Firm Consistence	50	--	--

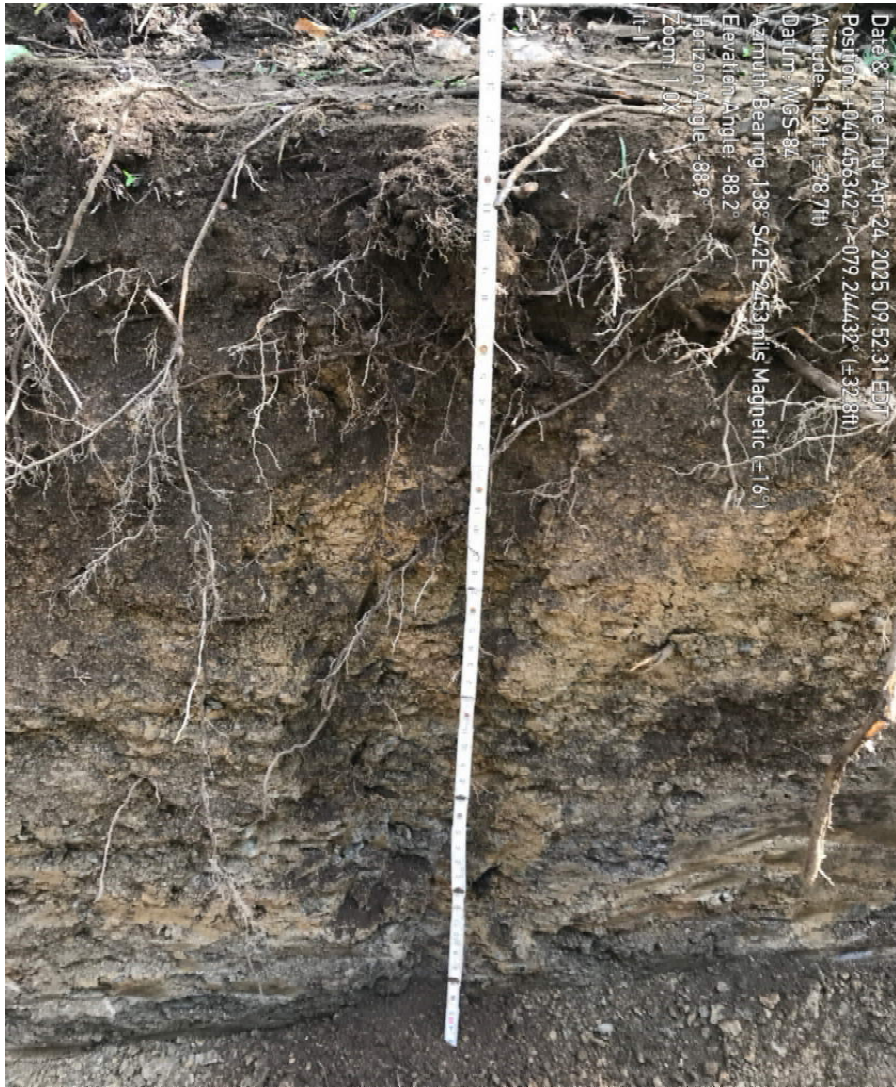


Photo Number: 1
Description: IT-01 Test Pit Photo (approx. 50 in. bgs)
Date Taken: 4/24/2025



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(724) 327-5200
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Homer City Generation LP
HCPP Pipeline
354-010
IT-01

INFILTRATION TESTING DAILY FIELD REPORT

Project Name: HCPP Pipeline
 Client: Homer City Generation LP
 Test Designation: IT-02
 Latitude: 40.45629
 Longitude: -79.24466

Job No.: 354-010
 Site Location: Burrell Township, Indiana County, PA
 Weather Conditions: Sunny
 Temperature: 57-78
 Date: 4/24/2025

DOUBLE-RING INFILTROMETER TEST RESULTS

Tests Performed

Test ID (Depth, in bgs): **IT-02A (36)**

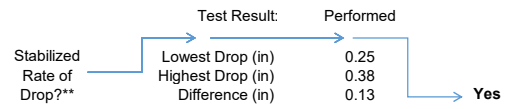
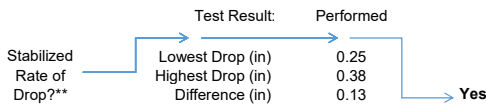
Reading Interval (min)*: 30

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	0.25	--
	0.38	--
1	0.31	0.62
2	0.31	0.62
3	0.25	0.50
4	0.38	0.76
5	--	--
6	--	--
7	--	--
8	--	--

Test ID (Depth, in bgs): **IT-02B (36)**

Reading Interval (min)*: 30

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	0.38	--
	0.25	--
1	0.38	0.76
2	0.25	0.50
3	0.25	0.50
4	0.25	0.50
5	--	--
6	--	--
7	--	--
8	--	--



Infiltration Rate (in/hr)**: **0.63**

Infiltration Rate (in/hr)**: **0.57**

Design Infiltration Rate (in/hr)**** = **0.30**

Assumed Safety Factor = 2

Legend

* If the drop during the second 30-minute presoak interval is less than 2 inches, use 30 minute intervals for the testing. If the drop during the second 30-minute presoak interval is 2 inches or greater, use 10 minute intervals.

**A stabilized rate of drop is defined as a difference of ¼ inch or less of drop between the highest and lowest interval readings of four consecutive interval readings.

***The Infiltration Rate is the average drop between the four appropriate consecutive readings.

****The Design Infiltration Rate is the geometric mean of the tested Infiltration Rates reduced by the assumed factor of safety.

Completed By: Austin Perry
X
 Austin Perry, E.I.T.
 Project Consultant

Reviewed By: Tyler Reynolds
X
 Tyler Reynolds, P.E.
 Project Manager



Soil Log

Project Name: HCPP Pipeline
 Test Pit: IT-02
 Geology: Casselman Formation
 Latitude: 40.45629
 Longitude: -79.24466

Project Number: 354-010
 Date: 4/24/2025
 NRCS Soil Survey Map Unit: GcB (Gilpin Channery Silt Loam)
 Classified by: Austin Perry, E.I.T.
 Bottom of test pit (in): 79

Client: Homer City Generation LP
 Elevation: 1100
 Land Use: Open Field/Forest
 Reviewed by: Tyler Reynolds, P.E.

Site Location: Burrell Township, Indiana County, PA
 Equipment Used: CAT 300.9D Mini Excavator
 Weather: Sunny

Additional Comments: _____

Horizon	Horizon Boundary (inches)	Soil Textural Class (USDA)	Coarse Fragments	Color Patterns	Pores - Roots	Grade of Structure	Depth to Bedrock (inches)	Depth to Free Water (inches)	Comments
A	0 to 13	Dark Grayish Brown (10YR 4/2) Silt Loam	<15% Gravel	--	Common Very Fine to Coarse Tubular Pores; Common Fine to Very Coarse Roots Throughout	Weak Very Fine to Fine Granular Structure; Loose Consistence	--	--	Topsoil
B	13 to 33	Dark Yellowish Brown (10YR 4/4) Clay Loam	<15% Gravel to Cobble	--	Common Fine to Coarse Interstitial Pores; Few Very Fine Roots Throughout	Moderate Very Fine to Coarse Angular Blocky Structure; Friable Consistence	--	--	--
B	33 to 61	Yellow (10YR 7/6) Sandy Clay	35% to <60% Gravel to Cobble	Light Gray (10YR 7/1) Few Very Fine to Fine Prominent Mottles	Few Very Fine to Fine Interstitial Pores; No Roots	Moderate Very Fine to Coarse Angular Blocky Structure; Friable to Firm Consistence	--	--	--
C	61 to 79	Gray (10YR 6/1) Clay	60% to <90% Gravel to Cobble	--	Common Coarse Interstitial Pores; No Roots	Strong Fine to Coarse Platy Structure; Firm Consistence	79	--	Weathered Rock



Photo Number: 1
Description: IT-02A Double Ring Photo
Date Taken: 4/24/2025



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Homer City Generation LP
HCPP Pipeline
354-010
IT-02



Photo Number: 2
Description: IT-02B Double Ring Photo
Date Taken: 4/24/2025



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Homer City Generation LP
HCPP Pipeline
354-010
IT-02

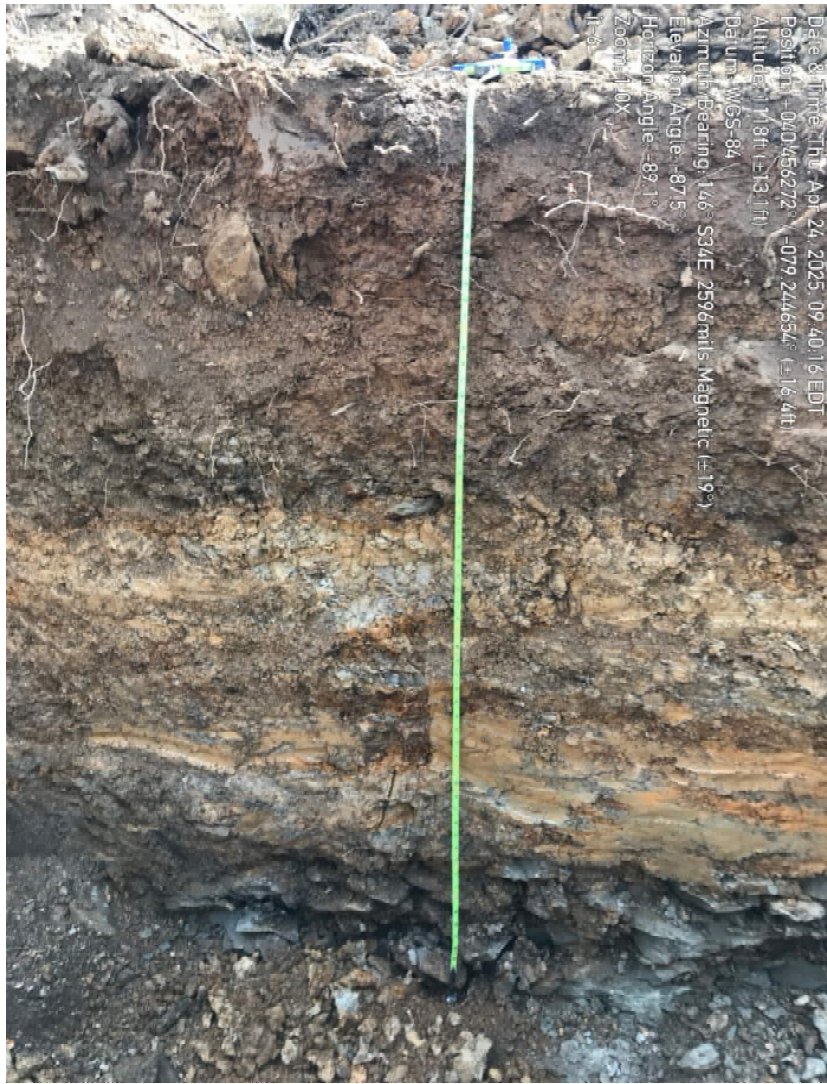


Photo Number: 3
Description: IT-02 Test Pit Photo (approx. 79 in. bgs)
Date Taken: 4/24/2025



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Homer City Generation LP
HCPP Pipeline
354-010
IT-02

INFILTRATION TESTING DAILY FIELD REPORT

Project Name: HCPP Pipeline
 Client: CNX Midstream Partners, LP
 Test Designation: IT-03
 Latitude: 40.456159
 Longitude: -79.24494

Job No.: 346-002
 Site Location: Burrell Township, Indiana County, PA
 Weather Conditions: Sunny
 Temperature: 43-75
 Date: 4/23/2025

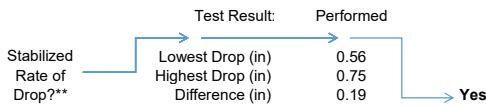
DOUBLE-RING INFILTRMETER TEST RESULTS

Tests Performed

Test ID (Depth, in bgs): **IT-03A (26)**

Reading Interval (min)*: 30

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	0.13	--
	0.75	--
1	0.44	0.88
2	0.25	0.50
3	0.38	0.76
4	0.75	1.50
5	0.56	1.12
6	0.63	1.26
7	0.63	1.26
8	--	--

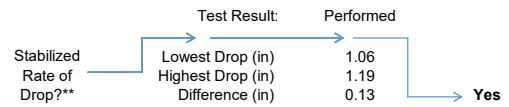


Infiltration Rate (in/hr)***: **1.29**

Test ID (Depth, in bgs): **IT-03B (26)**

Reading Interval (min)*: 10

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	5.50	--
	6.00	--
1	3.19	19.14
2	1.06	6.36
3	1.50	9.00
4	1.06	6.36
5	1.19	7.14
6	1.06	6.36
7	1.13	6.78
8	--	--



Infiltration Rate (in/hr)***: **6.66**

Design Infiltration Rate (in/hr)**** = **1.46**

Assumed Safety Factor = 2

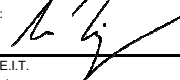
Legend

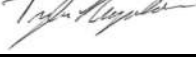
* If the drop during the second 30-minute presoak interval is less than 2 inches, use 30 minute intervals for the testing. If the drop during the second 30-minute presoak interval is 2 inches or greater, use 10 minute intervals.

**A stabilized rate of drop is defined as a difference of ¼ inch or less of drop between the highest and lowest interval readings of four consecutive interval readings.

***The Infiltration Rate is the average drop between the four appropriate consecutive readings.

****The Design Infiltration Rate is the geometric mean of the tested Infiltration Rates reduced by the assumed factor of safety.

Completed By: 
X
 Sean Mingus, E.I.T.
 Staff Consultant

Reviewed By: 
X
 Tyler Reynolds, P.E.
 Project Manager



Soil Log

Project Name: HCPP Pipeline
 Test Pit: IT-03
 Geology: Casselman Formation
 Latitude: 40.456159
 Longitude: -79.24494

Project Number: 346-002
 Date: 4/23/2025
 NRCS Soil Survey Map Unit: Erb (Ernest Silt Loam)
 Classified by: Sean Mingus, E.I.T.
 Bottom of test pit (in): 50

Client: CNX Midstream Partners, LP
 Elevation: 1097
 Land Use: Open Field/Forest
 Reviewed by: Tyler Reynolds, P.E.

Site Location: Burrell Township, Indiana County, PA
 Equipment Used: CAT 300.9D Mini Excavator
 Weather: Sunny

Additional Comments: _____

Horizon	Horizon Boundary (inches)	Soil Textural Class (USDA)	Coarse Fragments	Color Patterns	Pores - Roots	Grade of Structure	Depth to Bedrock (inches)	Depth to Free Water (inches)	Comments
A	0 to 12	Very Dark Grayish Brown (10YR 3/2) Silt Loam	<15% Gravel	--	Common Very Fine to Coarse Tubular Pores; Common Coarse Roots Throughout	Weak Very Fine to Fine Granular Structure; Loose Consistence	--	26	Topsail
B	12 to 39	Brownish Yellow (10YR 6/8) Sandy Clay Loam	35% to <60% Gravel	--	Common Fine to Coarse Interstitial Pores; Few Medium Roots In Cracks	Moderate Very Fine to Coarse Platy Structure; Friable Consistence	--	6.5	--
B	39 to 50	Yellowish Brown (10YR 5/4) Sandy Clay Loam	35% to <60% Gravel	Light Gray (10YR 7/1) Common Medium Distinct Mottles	Few Very Fine Interstitial Pores; Few Fine Roots In Cracks	Moderate Fine Platy Structure; Friable Consistence	--	--	--



Photo Number: 1
Description: IT-03-A Double Ring Photo
Date Taken: 4/23/2025



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CNX Midstream Partners, LP
HCPP Pipeline
346-002
IT-03



Photo Number: 2
Description: IT-03-B Double Ring Photo
Date Taken: 4/23/2025



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CNX Midstream Partners, LP
HCPP Pipeline
346-002
IT-03



Date & Time: Wed, Apr 23, 2025 at 09:54:29 EDT
Position: #040 456177 / # 079 244933 (±15.6m)
Altitude: 1102ft (±17.0ft)
Datum: WGS-84
Azimuth/Bearing: 204° S24W 3627mils True (±19°)
Elevation Angle: -27.8°
Horizon Angle: -01.6°
Zoom: 1.0X
IT-05 (new IT-03)
SRM / CEC

Photo Number: 3
Description: IT-03 Test Pit Photo (approx. 50 inches bgs)
Date Taken: 4/23/2025



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CNX Midstream Partners, LP
HCPP Pipeline
346-002
IT-03

INFILTRATION TESTING DAILY FIELD REPORT

Project Name: HCPP Pipeline
 Client: Homer City Generation LP
 Test Designation: IT-05
 Latitude: 40.456502
 Longitude: -79.245273

Job No.: 354-010
 Site Location: Burrell Township, Indiana County, PA
 Weather Conditions: Sunny
 Temperature: 57-78
 Date: 4/24/2025

DOUBLE-RING INFILTRMETER TEST RESULTS

No Tests Performed

Test ID (Depth, in bgs): IT-05A ()

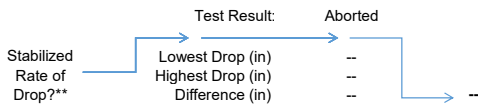
Reading Interval (min)*: 30

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	0.00	--
1	0.00	--
2	0.00	--
3	0.00	--
4	0.00	--
5	--	--
6	--	--
7	--	--
8	--	--

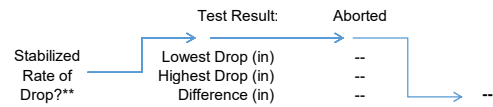
Test ID (Depth, in bgs): IT-05B ()

Reading Interval (min)*: 30

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	0.00	--
1	0.00	--
2	0.00	--
3	0.00	--
4	0.00	--
5	--	--
6	--	--
7	--	--
8	--	--



Infiltration Rate (in/hr)**: --



Infiltration Rate (in/hr)**: --

Design Infiltration Rate (in/hr)**** = --

Assumed Safety Factor = 2

Legend

* If the drop during the second 30-minute presoak interval is less than 2 inches, use 30 minute intervals for the testing. If the drop during the second 30-minute presoak interval is 2 inches or greater, use 10 minute intervals.

**A stabilized rate of drop is defined as a difference of ¼ inch or less of drop between the highest and lowest interval readings of four consecutive interval readings.

***The Infiltration Rate is the average drop between the four appropriate consecutive readings.

****The Design Infiltration Rate is the geometric mean of the tested Infiltration Rates reduced by the assumed factor of safety.

Completed By: Austin Perry
X
 Austin Perry, E.I.T.
 Project Consultant

Reviewed By: Tyler Reynolds
X
 Tyler Reynolds, P.E.
 Project Manager



Soil Log

Project Name: HCPP Pipeline
 Test Pit: IT-05
 Geology: Casselman Formation
 Latitude: 40.456502
 Longitude: -79.245273

Project Number: 354-010
 Date: 4/24/2025
 NRCS Soil Survey Map Unit: ErB (Ernest Silt Loam)
 Classified by: Austin Perry, E.I.T.
 Bottom of test pit (in): 68

Client: Homer City Generation LP
 Elevation: 1106
 Land Use: Open Field/Forest
 Reviewed by: Tyler Reynolds, P.E.

Site Location: Burrell Township, Indiana County, PA
 Equipment Used: CAT 300.9D Mini Excavator
 Weather: Sunny

Additional Comments: Excavator bucket refusal at approximately 68 inches below ground surface. Tests were not performed due to limiting features (mottling) encountered within 18-inches of the proposed test depth.

Horizon	Horizon Boundary (inches)	Soil Textural Class (USDA)	Coarse Fragments	Color Patterns	Pores - Roots	Grade of Structure	Depth to Bedrock (inches)	Depth to Free Water (inches)	Comments
A	0 to 15	Very Dark Grayish Brown (10YR 3/2) Silt Loam	<15% Gravel	--	Common Very Fine to Coarse Tubular Pores; Common Fine to Very Coarse Roots Throughout	Weak Very Fine to Fine Granular Structure; Loose Consistence	--	--	Topsail
B	15 to 32	Brownish Yellow (10YR 6/8) Sandy Clay Loam	35% to <60% Gravel	--	Common Fine to Coarse Interstitial Pores; Few Very Fine Roots In Cracks	Moderate Very Fine to Coarse Platy Structure; Friable to Firm Consistence	--	--	--
B	32 to 60	Yellowish Brown (10YR 5/4) Sandy Clay Loam	35% to <60% Gravel	Light Gray (10YR 7/1) Common Fine Distinct Mottles	Few Fine Interstitial Pores; Few Very Fine Roots In Cracks	Strong Fine Platy Structure; Friable to Firm Consistence	--	--	--
C	60 to 68	Dark Gray (10YR 4/1) Clay	60% to <90% Gravel to Cobble	--	Common Medium Interstitial Pores; No Roots	Strong Fine to Very Coarse Platy Structure; Firm Consistence	68	--	Weathered Rock



Date & Time: Thu, Apr 24, 2025, 10:43:46 EDT
Position: 4040.456496, -079.245294, 4316.4ft
Altitude: 1123ft (+13.1ft)
Datum: WGS-84
Azimuth/Bearing: 112.568E 1991mils/Magnetic (+22)
Elevation Angle: -76.5
Horizon Angle: -89.5
Zoom: 10x
11.3

Photo Number: 1
Description: IT-05 Test Pit Photo (approx. 68 in. bgs)
Date Taken: 4/24/2025



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Homer City Generation LP
HCPP Pipeline
354-010
IT-05

INFILTRATION TESTING DAILY FIELD REPORT

Project Name: HCPP Pipeline
 Client: Homer City Generation LP
 Test Designation: IT-06
 Latitude: 40.451735
 Longitude: -79.243897

Job No.: 354-010
 Site Location: Burrell Township, Indiana County, PA
 Weather Conditions: Sunny
 Temperature: 59-72
 Date: 4/25/2025

DOUBLE-RING INFILTROMETER TEST RESULTS

Tests Performed

Test ID (Depth, in bgs): **IT-06A (13)**

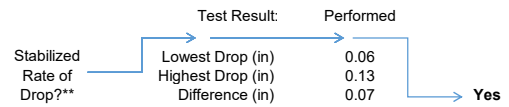
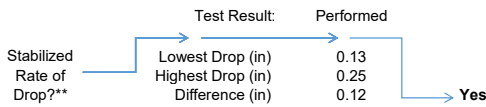
Reading Interval (min)*: 30

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	0.13	--
	0.25	--
1	0.13	0.26
2	0.13	0.26
3	0.25	0.50
4	0.13	0.26
5	--	--
6	--	--
7	--	--
8	--	--

Test ID (Depth, in bgs): **IT-06B (13)**

Reading Interval (min)*: 30

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	0.00	--
	0.06	--
1	0.06	0.12
2	0.13	0.26
3	0.06	0.12
4	0.06	0.12
5	--	--
6	--	--
7	--	--
8	--	--



Infiltration Rate (in/hr)**: **0.32**

Infiltration Rate (in/hr)**: **0.16**

Design Infiltration Rate (in/hr)**** = **0.11**

Assumed Safety Factor = 2

Legend

* If the drop during the second 30-minute presoak interval is less than 2 inches, use 30 minute intervals for the testing. If the drop during the second 30-minute presoak interval is 2 inches or greater, use 10 minute intervals.

**A stabilized rate of drop is defined as a difference of ¼ inch or less of drop between the highest and lowest interval readings of four consecutive interval readings.

***The Infiltration Rate is the average drop between the four appropriate consecutive readings.

****The Design Infiltration Rate is the geometric mean of the tested Infiltration Rates reduced by the assumed factor of safety.

Completed By: *Austin Perry*
X
 Austin Perry, E.I.T.
 Project Consultant

Reviewed By: *Tyler Reynolds*
X
 Tyler Reynolds, P.E.
 Project Manager



Soil Log

Project Name: HCPP Pipeline
 Test Pit: IT-06
 Geology: Manongahela Group
 Latitude: 40.451735
 Longitude: -79.243897

Project Number: 354-010
 Date: 4/25/2025
 NRCS Soil Survey Map Unit: DoC (Dormont Silt Loam)
 Classified by: Austin Perry, E.I.T.
 Bottom of test pit (in): 40

Client: Homer City Generation LP
 Elevation: 1229
 Land Use: Open Field/Forest
 Reviewed by: Tyler Reynolds, P.E.

Site Location: Burrell Township, Indiana County, PA
 Equipment Used: CAT 300.9D Mini Excavator
 Weather: Sunny

Additional Comments: _____

Horizon	Horizon Boundary (inches)	Soil Textural Class (USDA)	Coarse Fragments	Color Patterns	Pores - Roots	Grade of Structure	Depth to Bedrock (inches)	Depth to Free Water (inches)	Comments
A	0 to 13	Grayish Brown (10YR 5/2) Silt Loam	<15% Gravel	--	Common Very Fine to Coarse Tubular Pores; Common Very Fine to Fine Roots Throughout	Weak Very Fine to Fine Granular Structure; Loose Consistence	--	--	Topsail
B	13 to 40	Brownish Yellow (10YR 6/6) Clay Loam	<15% Gravel	--	Few Very Fine to Fine Interstitial Pores; No Roots	Moderate Very Fine to Coarse Angular Blocky Structure; Very Friable to Friable Consistence	--	--	--



Photo Number: 1
Description: IT-06A
Date Taken: 4/25/2025



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Homer City Generation LP
HCPP Pipeline
354-010
IT-06



Date & Time: Fri, Apr 25, 2025, 11:15:11 EDT
Position: +040.451761° / -079.243938° (±16.4ft)
Altitude: 122.2ft (±9.8ft)
Datum: WGS-84
Azimuth/Bearing: 287° N73W 5102mits Magnetic (±17°)
Elevation Angle: -86.8°
Horizon Angle: +22.2°
Zoom: 1.0X
t-b

Photo Number: 2
Description: IT-06B
Date Taken: 4/25/2025



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Homer City Generation LP
HCPP Pipeline
354-010
IT-06



Date & Time: Fri, Apr 25, 2025, 11:15:47 EDT
Position: 40.451732, -079.223888 (E:16.4ft)
Altitude: 1242ft (-9.8ft)
Datum: WGS 84
Azimuth Bearing: 201.581 W, 464.0m/s Magnetic (=12)
Elevation Angle: -88.5
Horizon Angle: -89.5
Zoom: 1.0x

Photo Number: 3
Description: IT-06 (approx. 40 in. bgs)
Date Taken: 4/24/2025



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Homer City Generation LP
HCPP Pipeline
354-010
IT-06

INFILTRATION TESTING DAILY FIELD REPORT

Project Name: HCPP Pipeline
 Client: Homer City Generation LP
 Test Designation: IT-07
 Latitude: 40.455985
 Longitude: -79.245986

Job No.: 354-010
 Site Location: Burrell Township, Indiana County, PA
 Weather Conditions: Sunny
 Temperature: 43-75
 Date: 4/23/2025

DOUBLE-RING INFILTROMETER TEST RESULTS

Tests Performed

Test ID (Depth, in bgs): **IT-07A (48)**

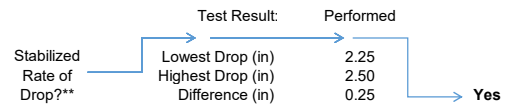
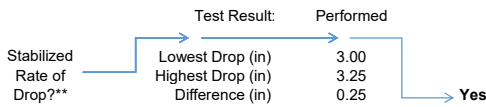
Reading Interval (min)*: 10

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	6.00	--
	5.50	--
1	3.50	21.00
2	3.25	19.50
3	3.25	19.50
4	3.19	19.14
5	3.06	18.36
6	3.00	18.00
7	--	--
8	--	--

Test ID (Depth, in bgs): **IT-07B (48)**

Reading Interval (min)*: 10

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	6.00	--
	5.88	--
1	3.06	18.36
2	2.81	16.86
3	2.50	15.00
4	2.38	14.28
5	2.25	13.50
6	2.25	13.50
7	--	--
8	--	--



Infiltration Rate (in/hr)**: **18.75**

Infiltration Rate (in/hr)**: **14.07**

Design Infiltration Rate (in/hr)**** = **8.12**

Assumed Safety Factor = 2

Legend

* If the drop during the second 30-minute presoak interval is less than 2 inches, use 30 minute intervals for the testing. If the drop during the second 30-minute presoak interval is 2 inches or greater, use 10 minute intervals.

**A stabilized rate of drop is defined as a difference of ¼ inch or less of drop between the highest and lowest interval readings of four consecutive interval readings.

***The Infiltration Rate is the average drop between the four appropriate consecutive readings.

****The Design Infiltration Rate is the geometric mean of the tested Infiltration Rates reduced by the assumed factor of safety.

Completed By: Sean Mingus
X
 Sean Mingus, E.I.T.
 Staff Consultant

Reviewed By: Tyler Reynolds
X
 Tyler Reynolds, P.E.
 Project Manager



Soil Log

Project Name: HCPP Pipeline
 Test Pit: IT-07
 Geology: Casselman Formation
 Latitude: 40.455985
 Longitude: -79.245986

Project Number: 354-010
 Date: 4/23/2025
 NRCS Soil Survey Map Unit: ErB (Ernest Silt Loam)
 Classified by: Sean Mingus, E.I.T.
 Bottom of test pit (in): 72

Client: Homer City Generation LP
 Elevation: 1085
 Land Use: Open Field/Forest
 Reviewed by: Tyler Reynolds, P.E.

Site Location: Burrell Township, Indiana County, PA
 Equipment Used: CAT 300.9D Mini Excavator
 Weather: Sunny

Additional Comments: _____

Horizon	Horizon Boundary (inches)	Soil Textural Class (USDA)	Coarse Fragments	Color Patterns	Pores - Roots	Grade of Structure	Depth to Bedrock (inches)	Depth to Free Water (inches)	Comments
A	0 to 17	Very Dark Grayish Brown (10YR 3/2) Silt Loam	<15% Gravel	--	Common Very Fine to Coarse Tubular Pores; Common Medium Roots Throughout	Weak Very Fine to Fine Granular Structure; Loose Consistence	--	--	Topsail
B	17 to 32	Brownish Yellow (10YR 6/8) Sandy Clay Loam	35% to <60% Gravel	--	Common Fine to Coarse Interstitial Pores; Few Very Fine Roots In Cracks	Moderate Very Fine to Coarse Platy Structure; Friable Consistence	--	--	--
B	32 to 72	Brown (10YR 5/3) Sandy Clay Loam	60% to <90% Gravel	Light Gray (10YR 7/1) Few Coarse Distinct Mottles	Few Very Fine Interstitial Pores; No Roots	Strong Very Coarse Platy Structure; Very Firm Consistence	--	--	--



Photo Number: 1
Description: IT-07-A Double Ring Photo
Date Taken: 4/23/2025



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Homer City Generation LP
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354-010
IT-07



Photo Number: 2
Description: IT-07-B Double Ring Photo
Date Taken: 4/23/2025



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Homer City Generation LP
HCPP Pipeline
354-010
IT-07

Date & Time: Wed, Apr 23, 2025 at 11:44:29 EDT
Position: +040.456032° / -079.245979° (+15.6ft)
Altitude: 1084ft (+12.7ft)
Datum: WGS-84
Azimuth/Bearing: 289° N71W 51.38mils True (+13.1)
Elevation Angle: -45.8°
Horizon Angle: +01.1°
Zoom: 1.0X
IT-01 (old)
SRM / CEC



Photo Number: 3
Description: IT-07 Test Pit Photo (approx. 72 inches bgs)
Date Taken: 4/23/2025



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CNX Midstream Partners, LP
HCPP Pipeline
354-010
IT-07

INFILTRATION TESTING DAILY FIELD REPORT

Project Name: HCPP Pipeline
 Client: Homer City Generation LP
 Test Designation: IT-08
 Latitude: 40.4566799
 Longitude: -79.245422

Job No.: 354-010
 Site Location: Burrell Township, Indiana County, PA
 Weather Conditions: Sunny
 Temperature: 57-78
 Date: 4/24/2025

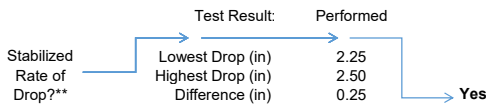
DOUBLE-RING INFILTROMETER TEST RESULTS

Tests Performed

Test ID (Depth, in bgs): **IT-08A (55)**

Reading Interval (min)*: 10

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	7.00	--
	7.00	--
1	2.50	15.00
2	2.50	15.00
3	2.25	13.50
4	2.25	13.50
5	--	--
6	--	--
7	--	--
8	--	--

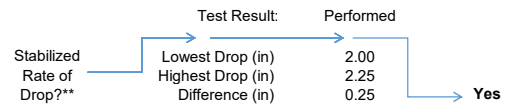


Infiltration Rate (in/hr)**: **14.25**

Test ID (Depth, in bgs): **IT-08B (55)**

Reading Interval (min)*: 10

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	7.00	--
	7.00	--
1	2.25	13.50
2	2.00	12.00
3	2.00	12.00
4	2.13	12.78
5	--	--
6	--	--
7	--	--
8	--	--



Infiltration Rate (in/hr)**: **12.57**

Design Infiltration Rate (in/hr)**** = **6.69**

Assumed Safety Factor = 2

Legend

* If the drop during the second 30-minute presoak interval is less than 2 inches, use 30 minute intervals for the testing. If the drop during the second 30-minute presoak interval is 2 inches or greater, use 10 minute intervals.

**A stabilized rate of drop is defined as a difference of ¼ inch or less of drop between the highest and lowest interval readings of four consecutive interval readings.

***The Infiltration Rate is the average drop between the four appropriate consecutive readings.

****The Design Infiltration Rate is the geometric mean of the tested Infiltration Rates reduced by the assumed factor of safety.

Completed By: Austin Perry
X
 Austin Perry, E.I.T.
 Project Consultant

Reviewed By: Tyler Reynolds
X
 Tyler Reynolds, P.E.
 Project Manager



Soil Log

Project Name: HCPP Pipeline
 Test Pit: IT-08
 Geology: Casselman Formation
 Latitude: 40.4566799
 Longitude: -79.245422

Project Number: 354-010
 Date: 4/24/2025
 NRCS Soil Survey Map Unit: ErB (Ernest Silt Loam)
 Classified by: Austin Perry, E.I.T.
 Bottom of test pit (in): 80

Client: Homer City Generation LP
 Elevation: 1104
 Land Use: Open Field/Forest
 Reviewed by: Tyler Reynolds, P.E.

Site Location: Burrell Township, Indiana County, PA
 Equipment Used: CAT 300.9D Mini Excavator
 Weather: Sunny

Additional Comments: Excavator bucket refusal at approximately 80 inches below ground surface.

Horizon	Horizon Boundary (inches)	Soil Textural Class (USDA)	Coarse Fragments	Color Patterns	Pores - Roots	Grade of Structure	Depth to Bedrock (inches)	Depth to Free Water (inches)	Comments
A	0 to 13	Dark Grayish Brown (10YR 4/2) Silt Loam	<15% Gravel	--	Common Very Fine to Coarse Tubular Pores; Common Fine to Coarse Roots Throughout	Weak Very Fine to Fine Granular Structure; Loose Consistence	--	--	Topsail
B	13 to 60	Yellowish Brown (10YR 5/4) Silty Clay Loam	35% to <60% Gravel	--	Common Fine to Coarse Interstitial Pores; Few Very Fine Roots In Cracks	Moderate Very Fine to Coarse Platy Structure; Friable to Firm Consistence	--	--	--
B	60 to 80	Brownish Yellow (10YR 6/6) Clay	35% to <60% Gravel to Cobble	--	Few Fine to Coarse Interstitial Pores; No Roots	Strong Fine to Very Coarse Angular Blocky Structure; Friable to Firm Consistence	80	--	--



Date & Time: Thu, Apr 24, 2025, 11:26:58 EDT
Position: +040.456610° / -079.245418° (±16.4ft)
Altitude: 1099ft (±19.7ft)
Datum: WGS-84
Azimuth/Bearing: 062° N62E 1102mils Magnetic (±13°)
Elevation Angle: -88.1°
Horizon Angle: +65.8°
Zoom: 1.0X
it=4a

IT-8A

Photo Number: 1
Description: IT-08A Double Ring Photo
Date Taken: 4/24/2025



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Homer City Generation LP
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IT-08

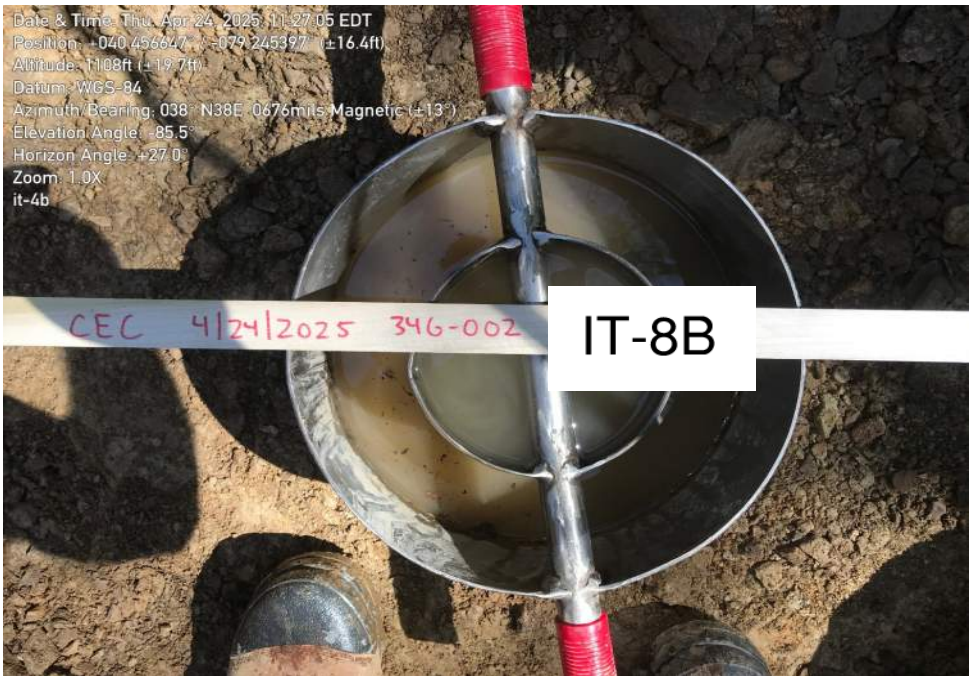


Photo Number: 2
Description: IT-08B Double Ring Photo
Date Taken: 4/24/2025



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IT-08



Photo Number: 3
Description: IT-08 Test Pit Photo (approx. 80 in. bgs)
Date Taken: 4/24/2025



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Homer City Generation LP
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IT-08

INFILTRATION TESTING DAILY FIELD REPORT

Project Name: HCPP Pipeline
 Client: Homer City Generation LP
 Test Designation: IT-09
 Latitude: 40.455870°
 Longitude: -79.245719°

Job No.: 354-010
 Site Location: Burrell Township, Indiana County, PA
 Weather Conditions: Sunny
 Temperature: 71-82
 Date: 8/4/2025

DOUBLE-RING INFILTROMETER TEST RESULTS

Tests Performed

Test ID (Depth, in bgs): **IT-09A (52)**

Reading Interval (min)*: 10

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	1.81	--
	2.44	--
1	0.50	3.00
2	0.63	3.78
3	0.63	3.78
4	0.81	4.86
5	0.69	4.14
6	--	--
7	--	--
8	--	--

Test ID (Depth, in bgs): **IT-09B (52)**

Reading Interval (min)*: 10

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	3.13	--
	3.56	--
1	0.81	4.86
2	0.88	5.28
3	0.69	4.14
4	0.69	4.14
5	--	--
6	--	--
7	--	--
8	--	--

Stabilized Rate of Drop? **

Test Result:	Performed
Lowest Drop (in)	0.63
Highest Drop (in)	0.81
Difference (in)	0.18

Yes

Stabilized Rate of Drop? **

Test Result:	Performed
Lowest Drop (in)	0.69
Highest Drop (in)	0.88
Difference (in)	0.19

Yes

Infiltration Rate (in/hr)***: **4.14**

Infiltration Rate (in/hr)***: **4.61**

Design Infiltration Rate (in/hr)**** = **2.18**

Assumed Safety Factor = 2

Legend


* If the drop during the second 30-minute presoak interval is less than 2 inches, use 30 minute intervals for the testing. If the drop during the second 30-minute presoak interval is 2 inches or greater, use 10 minute intervals.

**A stabilized rate of drop is defined as a difference of ¼ inch or less of drop between the highest and lowest interval readings of four consecutive interval readings.

***The Infiltration Rate is the average drop between the four appropriate consecutive readings.

****The Design Infiltration Rate is the geometric mean of the tested Infiltration Rates reduced by the assumed factor of safety.

Completed By: 
X
 Sean Mingus, E.I.T.
 Staff Consultant

Reviewed By: 
X
 Tyler Reynolds, P.E.
 Project Manager



Soil Log

Project Name: HCPP Pipeline
 Test Pit: IT-09
 Geology: Casselman Formation
 Latitude: 40.455870°
 Longitude: -79.245719°

Project Number: 354-010
 Date: 8/4/2025
 NRCS Soil Survey Map Unit: ErB (Ernest Silt Loam)
 Classified by: Sean Mingus, E.I.T.
 Bottom of test pit (in): 71

Client: Homer City Generation LP
 Elevation: 1085
 Land Use: Open Field/Forest
 Reviewed by: Tyler Reynolds, P.E.

Site Location: Burrell Township, Indiana County, PA
 Equipment Used: CAT 305.SE2
 Weather: Sunny

Additional Comments: _____

Horizon	Horizon Boundary (inches)	Soil Textural Class (USDA)	Coarse Fragments	Color Patterns	Pores - Roots	Grade of Structure	Depth to Bedrock (inches)	Depth to Free Water (inches)	Comments
A	0 to 22	Very Dark Grayish Brown (10YR 3/2) Silt Loam	<15% Gravel	--	Common Very Fine to Coarse Tubular Pores; Common Medium Roots Throughout	Weak Very Fine to Fine Granular Structure; Loose Consistence	--	--	Topsail
B	22 to 50	Pale Brown (10YR 6/3) Sandy Clay Loam	35% to <60% Gravel	--	Common Fine to Coarse Interstitial Pores; Few Fine Roots In Cracks	Moderate Fine to Coarse Granular Structure; Friable to Firm Consistence	--	--	--
B	50 to 71	Light Brownish Gray (10YR 6/2) Sandy Clay Loam	35% to <60% Gravel	--	Few Very Fine Interstitial Pores; No Roots	Strong Coarse to Very Coarse Platy Structure; Very Firm Consistence	--	--	--



Photo Number: 1
Description: IT-09-A Double Ring Photo
Date Taken: 8/4/2025



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IT-09



Photo Number: 2
Description: IT-09-B Double Ring Photo
Date Taken: 8/4/2025



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354-010
IT-09



Photo Number: 3
Description: IT-09 Test Pit Photo (approx. 71 inches bgs)
Date Taken: 8/4/2025



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Homer City Generation LP
HCPP Pipeline
354-010
IT-09

INFILTRATION TESTING DAILY FIELD REPORT

Project Name: HCPP Pipeline
 Client: Homer City Generation LP
 Test Designation: IT-10
 Latitude: 40.456721°
 Longitude: -79.245253°

Job No.: 354-010
 Site Location: Burrell Township, Indiana County, PA
 Weather Conditions: Sunny
 Temperature: 71-82
 Date: 8/4/2025

DOUBLE-RING INFILTROMETER TEST RESULTS

No tests performed due to shallow limiting layer.

Test ID (Depth, in bgs): IT-10A ()

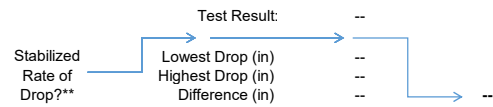
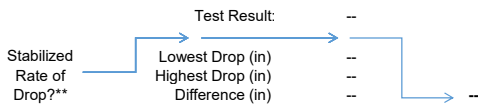
Test ID (Depth, in bgs): IT-10B ()

Reading Interval (min)*: --

Reading Interval (min)*: --

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	--	--
1	--	--
2	--	--
3	--	--
4	--	--
5	--	--
6	--	--
7	--	--
8	--	--

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	--	--
1	--	--
2	--	--
3	--	--
4	--	--
5	--	--
6	--	--
7	--	--
8	--	--



Infiltration Rate (in/hr)**: --

Infiltration Rate (in/hr)**: --

Design Infiltration Rate (in/hr)**** = --

Assumed Safety Factor = --

Legend

* If the drop during the second 30-minute presoak interval is less than 2 inches, use 30 minute intervals for the testing. If the drop during the second 30-minute presoak interval is 2 inches or greater, use 10 minute intervals.

**A stabilized rate of drop is defined as a difference of ¼ inch or less of drop between the highest and lowest interval readings of four consecutive interval readings.

***The Infiltration Rate is the average drop between the four appropriate consecutive readings.

****The Design Infiltration Rate is the geometric mean of the tested Infiltration Rates reduced by the assumed factor of safety.

Completed By: *Austin Perry*
X
 Austin Perry, E.I.T.
 Project Consultant

Reviewed By: *Tyler Reynolds*
X
 Tyler Reynolds, P.E.
 Project Manager



Soil Log

Project Name: HCPP Pipeline
 Test Pit: IT-10
 Geology: Casselman Formation
 Latitude: 40.456721°
 Longitude: -79.245253°

Project Number: 354-010
 Date: 8/4/2025
 NRCS Soil Survey Map Unit: ErB (Ernest Silt Loam)
 Classified by: Austin Perry, E.I.T.
 Bottom of test pit (in): 67

Client: Homer City Generation LP
 Elevation: 1108
 Land Use: Open Field/Forest
 Reviewed by: Tyler Reynolds, P.E.

Site Location: Burrell Township, Indiana County, PA
 Equipment Used: CAT 305.5E2
 Weather: Sunny

Additional Comments: Excavator bucket refusal at approximately 67 inches below ground surface.

Horizon	Horizon Boundary (inches)	Soil Textural Class (USDA)	Coarse Fragments	Color Patterns	Pores - Roots	Grade of Structure	Depth to Bedrock (inches)	Depth to Free Water (inches)	Comments
A	0 to 10	Dark Grayish Brown (10YR 4/2) Silt Loam	<15% Gravel	--	Common Very Fine to Very Coarse Tubular Pores; Many Fine to Very Coarse Roots Throughout	Weak Very Fine to Fine Granular Structure; Loose Consistence	--	--	Topsail
B	10 to 23	Yellowish Brown (10YR 5/4) Sandy Clay Loam	35% to <60% Gravel	--	Few Fine to Medium Interstitial Pores; Common Very Fine to Fine Roots In Cracks	Moderate Very Fine to Coarse Angular Blocky Structure; Very Friable Consistence	--	--	--
C	23 to 67	Yellowish Brown (10YR 5/4) Sand	60% to <90% Gravel to Cobble	--	Common Fine to Coarse Interstitial Pores; No Roots	Strong Fine to Very Coarse Platy Structure; Firm Consistence	--	--	--



Date & Time: Mon, Aug 04, 2025, 12:31:52 EDT
Position: -040.456733 / -079.245268 (16.4ft)
Altitude: 119ft (19.7ft)
Datum: WGS-84
Azimuth/Bearing: 093.587E 1653mils Magnetic (+13°)
Elevation Angle: 83.6°
Horizon Angle: -85.5°
Zoom: 1.0X
IT-10-2

Photo Number: 1
Description: IT-10 Test Pit Photo (approx. 67 in. bgs)
Date Taken: 8/4/2025



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Homer City Generation LP
HCPP Pipeline
354-010
IT-10

INFILTRATION TESTING DAILY FIELD REPORT

Project Name: HCPP Pipeline
 Client: Homer City Generation LP
 Test Designation: IT-11
 Latitude: 40.456829°
 Longitude: -79.245569°

Job No.: 354-010
 Site Location: Burrell Township, Indiana County, PA
 Weather Conditions: Sunny
 Temperature: 71-82
 Date: 8/4/2025

DOUBLE-RING INFILTRMETER TEST RESULTS

Tests Performed

Test ID (Depth, in bgs): **IT-11A (9)**

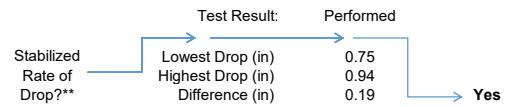
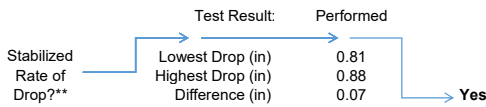
Reading Interval (min)*: 10

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	2.75	--
	3.00	--
1	0.88	5.28
2	0.88	5.28
3	0.88	5.28
4	0.81	4.86
5	--	--
6	--	--
7	--	--
8	--	--

Test ID (Depth, in bgs): **IT-11B (9)**

Reading Interval (min)*: 10

Reading	Drop (in)	Rate (in/hr)
1 hr Presoak in 30-minute Increments	3.00	--
	3.06	--
1	0.94	5.64
2	0.81	4.86
3	0.75	4.50
4	0.75	4.50
5	--	--
6	--	--
7	--	--
8	--	--



Infiltration Rate (in/hr)**: **5.18**

Infiltration Rate (in/hr)**: **4.88**

Design Infiltration Rate (in/hr)**** = **2.51**

Assumed Safety Factor = 2

Legend

* If the drop during the second 30-minute presoak interval is less than 2 inches, use 30 minute intervals for the testing. If the drop during the second 30-minute presoak interval is 2 inches or greater, use 10 minute intervals.

**A stabilized rate of drop is defined as a difference of ¼ inch or less of drop between the highest and lowest interval readings of four consecutive interval readings.

***The Infiltration Rate is the average drop between the four appropriate consecutive readings.

****The Design Infiltration Rate is the geometric mean of the tested Infiltration Rates reduced by the assumed factor of safety.

Completed By: Austin Perry
X
 Austin Perry, E.I.T.
 Project Consultant

Reviewed By: Tyler Reynolds
X
 Tyler Reynolds, P.E.
 Project Manager



Soil Log

Project Name: HCPP Pipeline
 Test Pit: IT-11
 Geology: Casselman Formation
 Latitude: 40.456829°
 Longitude: -79.245569°

Project Number: 354-010
 Date: 8/4/2025
 NRCS Soil Survey Map Unit: ErB (Ernest Silt Loam)
 Classified by: Austin Perry, E.I.T.
 Bottom of test pit (in): 66

Client: Homer City Generation LP
 Elevation: 1097
 Land Use: Open Field/Forest
 Reviewed by: Tyler Reynolds, P.E.

Site Location: Burrell Township, Indiana County, PA
 Equipment Used: CAT 305.SE2
 Weather: Sunny

Additional Comments:

Horizon	Horizon Boundary (inches)	Soil Textural Class (USDA)	Coarse Fragments	Color Patterns	Pores - Roots	Grade of Structure	Depth to Bedrock (inches)	Depth to Free Water (inches)	Comments
A	0 to 8	Dark Grayish Brown (10YR 4/2) Silt Loam	<15% Gravel	--	Common Very Fine to Very Coarse Tubular Pores; Common Fine to Medium Roots Throughout	Weak Very Fine to Fine Granular Structure; Loose Consistence	--	--	Topsail
B	8 to 26	Yellowish Brown (10YR 5/4) Sandy Clay Loam	35% to <60% Gravel	--	Few Fine to Medium Interstitial Pores; Few Very Fine to Fine Roots In Cracks	Moderate Very Fine to Coarse Angular Blocky Structure; Very Friable Consistence	--	--	--
C	26 to 66	Yellowish Brown (10YR 5/4) Sand	35% to <60% Gravel to Cobble	--	Common Fine to Coarse Interstitial Pores; No Roots	Strong Fine to Very Coarse Platy Structure; Friable to Firm Consistence	--	--	--



Photo Number: 1
Description: IT-11A Double Ring Photo
Date Taken: 8/4/2025



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Homer City Generation LP
HCPP Pipeline
354-010
IT-11



Photo Number: 2
Description: IT-11B Double Ring Photo
Date Taken: 8/4/2025



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Photo Number: 3
Description: IT-11 Test Pit Photo (approx. 66 in. bgs)
Date Taken: 8/4/2025



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