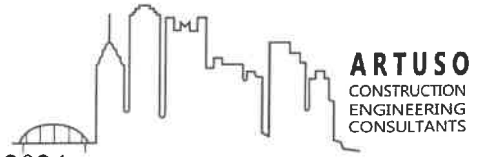


Infiltration Testing Report



December 19, 2024
CEC 176 670
J-17888

Mr. Toby Partridge
Michael Baker
100 Airside Drive
Moon Township, PA 15108

**RE: Infiltration Test Results and Test Pit Excavations
Rura Field
Center Township, Indiana County, PA**

Dear Mr. Partridge,

We have completed the twenty-eight (28) test pits and infiltration tests for the proposed stormwater management areas for the Rura Field project just outside Homer City, Pennsylvania. Two (2) infiltration tests were performed in each test pit location. All tests were conducted utilizing a double-ring infiltrometer. The infiltrometer was seated two (2) inches into the bottom of the excavation at each test location. The tests were conducted at the proposed infiltration depth. All the tests were conducted according to the PA DEP Stormwater Manual. The tests pits were designated as TP-1 through TP-28. Each infiltration test was designated as A or B in each test pit location. See the attached sketch for the test pit locations. Test pit logs are also attached to the end of this letter. The infiltration test field results are also attached.

Test Pit Results

All twenty-eight (28) test pits encountered naturally occurring soils below the eight (8) to twelve (12) inches of topsoil encountered at the surface. The naturally occurring soils at the site consist of a light brown to orangish brown silty sandy clay and a light gray silty clay. Portions of the clayey soils have some interbedded sandy shale and sandstone fragments at various depths. The sandstone fragments vary in size from gravel size to boulder size. Portions of the clay layers with the larger rock fragments appears to be alluvial soils placed by flooding of the nearby creek. The clayey soils have a soft to stiff consistency. This is based on a scale for cohesive soils of very soft, soft, medium stiff, stiff, very stiff, and hard. The clay was damp to moist at the time of excavation. This is based on a moisture range of dry, damp, moist, wet, and saturated. All the test pits except TP-21 and TP-23 were terminated in the clay layers at depths ranging from three (3) to twelve (12) feet. At test pits TP-21 and TP-23, a stiff to hard residual sandy shale was encountered below the clay layer at a depth of two and one-half (2.5) feet and six (6) feet, respectively. TP-21 and TP-23 were terminated at the top of the shale layer. The hard sandy shale encountered at TP-23 should be considered a limiting zone. Therefore, at TP-23 the infiltration test was performed two feet above the limiting zone.

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EMAIL: lab@cectesting.com

No limiting zones of groundwater or bedrock were encountered in any of the test pits except for the shale layer encountered at TP-23. All the infiltration tests except TP-23 were performed at the proposed infiltration elevation.

Test Results and Conclusions

Two (2) infiltration tests were conducted at the proposed infiltration elevation at each test pit location. All the tests were conducted in the silty, sandy clay layers. Each test received a one (1) hour pre-soak, and the test interval was based off the second half hour reading. All the tests except at TP-12A,B and TP-15A had pre-soak readings of less than two (2) inches. Therefore, test intervals at all the test pit locations were one-half hour. AT Test pits TP-12A,B and TP-15A, the pre-soak readings were over two (2) inches. Therefore, the test intervals at these locations were every ten (10) minutes. See the table on the next page for the stabilized infiltration rates obtained at each test location.

The infiltration rates in the table are the actual field results, and they do not include a factor of safety that is recommended in the PADEP stormwater manual. The manual recommends a factor of safety of between 2 and 10 for the final design calculations. The higher rates obtained in portions of the site soils is likely due to the larger sandstone cobbles and boulders that are interbedded at various depths within the alluvial soils encountered.

A websoil survey of the site was also performed from the USDA Natural Resources Conservation Services (NRCS). The survey indicates the site soils are composed of Allegheny silt loam, Buchanan loam, Chavies fine sandy loam, Ernest silt loam, Gilpin channery loam, Hazleton channery sandy loam, Lobdell silt loam, Monongahela silt loam, Purdy silt loam, Tyler silt loam, and Wharton silt loam. These soils rate as somewhat limited to very limited mostly due to wetness or water movement. The rates obtained during the testing confirmed these ratings as generally speaking the higher rates were obtained in alluvial areas that were designated at somewhat limited. A copy of the survey is attached at the end of this report.

Test Location	Approx. Surface Elevation	Infiltration Test Elevation (ft)	Stabilized Rate (in./hr.)
TP-1	988.1	985.0	A: 0.25 B: 0.25
TP-2	986.5	985.0	A: 0 B: 0.25
TP-3	986.0	985.0	A: 0.25 B: 0
TP-4	988.3	985.0	A: 0.25 B: 0.5
TP-5	987.7	985.0	A: 0.25 B: 0.25
TP-6	986.5	985.0	A: 0.5 B: 0.25
TP-7	1016.0	1014.0	A: 0.25 B: 0.5
TP-8	1006.3	1005.3	A: 0.5 B: 1.5
TP-9	995.8	988.0	A: 0.25 B: 0.25
TP-10	994.5	988.0	A: 2.0 B: 0.25
TP-11	990.1	988.0	A: 0.25 B: 0.25
TP-12	996.7	988.0	A: 6.0 B: 7.5
TP-13	990.3	988.0	A: 3.0 B: 0.25
TP-14	995.5	988.0	A: 1.0 B: 0.25
TP-15	993.5	988.0	A: 6.0 B: 0.5
TP-16	989.8	988.0	A: 0.5 B: 0.5
TP-17	992.8	988.0	A: 0.5 B: 0.5
TP-18	994.6	988.0	A: 0.25 B: 0.5
TP-19	989.8	988.0	A: 0.25 B: 0.25
TP-20	1003.5	1002.5	A: 0 B: 0
TP-21	1003.1	1001.1	A: 0.5 B: 0.5
TP-22	1003.7	1001.7	A: 0.5 B: 0.5
TP-23*	1004.0	1000.0	A: 0.25 B: 0.25
TP-24	999.2	993.0	A: 1.0 B: 1.5
TP-25	1002.9	993.0	A: 1.0 B: 0.5
TP-26	1002.0	993.0	A: 0.25 B: 0.25
TP-27	1008.7	1006.7	A: 0.5 B: 0.5
TP-28	1002.3	1000.3	A: 0.25 B: 0.5

*Test elevation adjusted due to limiting zone of sandy shale bedrock.

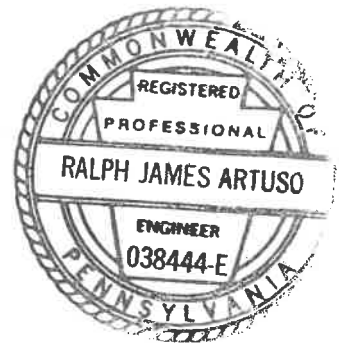
Page 4
December 18, 2024
CEC 176 670

Please contact us if you have any questions or concerns regarding this information.

Sincerely,



Ralph Artuso, P.E.
President



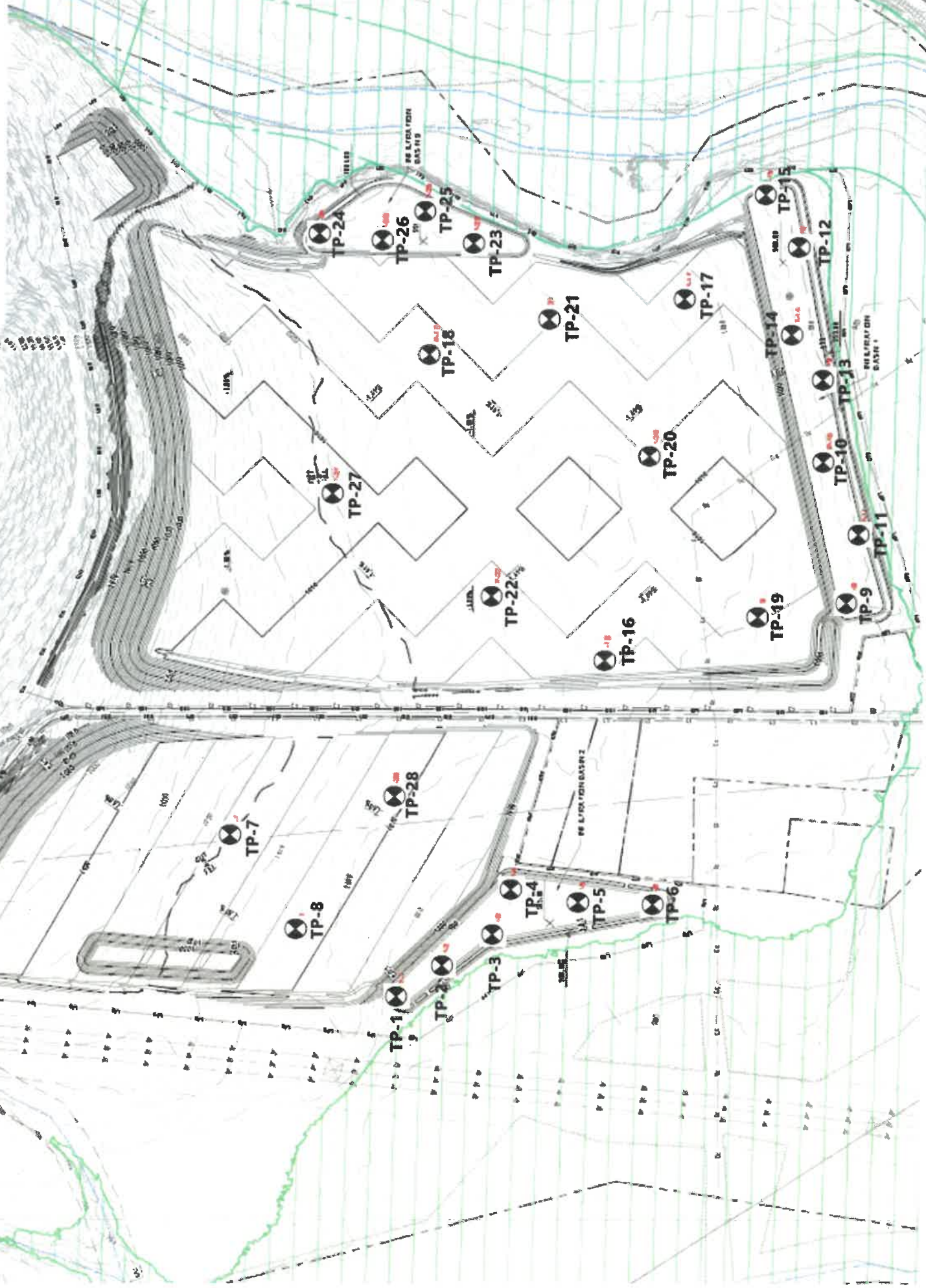
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CONSULTING ENGINEERING FIRM, INC. 1000 N. 10TH AVE., SUITE 100, DENVER, CO 80202

RURA FIELD INFILTRATION PLAN

HOMER CITY, PA

J-17888





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TEST BORING LOG

BORING NO.: TP-1

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 11-25-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 988.10

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 11-25-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
988.1'	0.0'			TOPSOIL						
987.1'	1.0'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
		2								
		3								Infiltration test at 3.1'
		4								
983.0'	5.1'	5								Bottom of test pit at 5.1'
		6								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-2

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 11-25-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 986.5

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 11-25-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
986.5'	0.0'			TOPSOIL						
985.5'	1.0'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						Infiltration test at 1.5'
		2								
		3								
983.0'	3.5'									Bottom of test pit at 3.5'
		4								
		5								
		6								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-3

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 11-26-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 986.0

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 11-26-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
986.0'	0.0'			TOPSOIL						
985.0'	1.0'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						Infiltration test at 1.0'
		2								
983.0'	3.0'	3		SANDY CLAY WITH SANDSTONE: Light to medium brown, some cobbles, stiff, damp to moist						
982.5'	3.5'									Bottom of test pit at 3.5'
		4								
		5								
		6								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-4

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 11-26-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 988.3

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 11-26-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
988.3'	0.0'			TOPSOIL						
987.3'	1.0'	1		SANDY CLAY: Light orangish brown, some sandstone fragments, soft to stiff, damp to moist						
		2								
		3								Infiltration test at 3.3'
		4								
		5								
983.0'	5.3'	6								Bottom of test pit at 5.3'

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-5

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 11-26-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 987.66

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 11-26-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
987.7'	0.0'			TOPSOIL						
986.7'	1.0'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
		2								
		3								
		4								
982.7'	5.0'	5								
		6								

Infiltration test at 2.67'

Bottom of test pit at 5.0'

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-6

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 11-26-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 986.5

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 11-26-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
986.5'	0.0'			TOPSOIL						
985.7'	0.8'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
		2								
		3								
983.0'	3.5'	4								Bottom of test pit at 3.5'
		5								
		6								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-7

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-5-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 1016.04

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-5-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
1016.0'	0.0'			TOPSOIL						
1015.0'	1.0'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
		2								Infiltration test at 2.0'
		3								
1012.0'	4.0'	4								Bottom of test pit at 4.0'
		5								
		6								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-8

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 11-25-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 1006.3

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 11-25-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
1006.3'	0.0'			TOPSOIL						
1005.6'	0.7'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						Infiltration test at 1.0'
		2								
1003.3'	3.0'	3								Bottom of test pit at 3.0'
		4								
		5								
		6								

—NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.—



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TEST BORING LOG

BORING NO.: TP-9

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-3-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 995.81

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-3-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
995.8'	0.0'			TOPSOIL						
994.8'	1.0'			SANDY CLAY WITH SANDSTONE: Light orangish brown, Some cobbles and boulders , soft to stiff, damp to moist						
		2								
		4								
		6								
		8								Infiltration test at 8.0'
985.8'	10.0'	10								Bottom of test pit at 10.0'
		12								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-10

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-4-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 994.5

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-4-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
994.5'	0.0'			TOPSOIL						
993.7'	0.8'			SANDY CLAY WITH SANDSTONE: Light orangish brown, Some cobbles and boulders , soft to stiff, damp to moist						
		1.5								
		3								
		4.5								
		6								
		7.5								Infiltration test at 6.5'
986.0'	8.5'									Bottom of test pit at 8.5'
		9								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-11

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-3-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 990.1

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-3-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
990.1'	0.0'			TOPSOIL						
989.1'	1.0'	1		SANDY CLAY: Light orangish brown, some sandstone fragments, soft to stiff, damp to moist						
		2								Infiltration test at 2.0'
		3								
986.1'	4.0'	4								Bottom of test pit at 4.0'
		5								
		6								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-12

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-5-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 996.7

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-5-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW, STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
996.7'	0.0'			TOPSOIL						
995.9'	0.8'			SANDY CLAY WITH SANDSTONE: Light orangish brown, Some cobbles and boulders, soft to stiff, damp to moist						
		2								
		4								
		6								
		8								
		10								Infiltration test at 8.7'
985.7'	11.0'									Bottom of test pit at 11.0'
		12								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.—



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TEST BORING LOG

BORING NO.: TP-13

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-4-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 990.3

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-4-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
990.3'	0.0'			TOPSOIL						
989.5'	0.8'	1		SANDY CLAY WITH SANDSTONE: Light orangish brown, some sandstone cobbles and boulders, soft to stiff, damp to moist						
		2								
		3								
		4								
985.8'	4.5'	5								Bottom of test pit at 4.5'
		6								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.---



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TEST BORING LOG

BORING NO.: TP-14

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-4-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 995.5

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-4-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
995.5'	0.0'			TOPSOIL						
994.5'	1.0'			SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
		2								
992.5'	3.0'			SILTY CLAY: Light gray, stiff, moist						
		4								
991.0'	4.5'			SANDY CLAY WITH SANDSTONE: Light brown, some cobbles, stiff, damp to moist						
		6								
		8								Infiltration test at 7.5'
985.5'	10.0'	10								Bottom of test pit at 10.0'
		12								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-15

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-5-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 993.5

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-5-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
993.5'	0.0'			TOPSOIL						
992.5'	1.0'			SANDY CLAY WITH SANDSTONE: Light orangish brown, some sandstone cobbles and boulders, soft to stiff, damp to moist						
		1.5								
		3								
		4.5								
		6								Infiltration test at 5.5'
986.0'	7.5'	7.5								Bottom of test pit at 7.5'
		9								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-16

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-3-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 989.8

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-3-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
989.8'	0.0'			TOPSOIL						
988.8'	1.0'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
		2								Infiltration test at 2.0'
		3								
985.8'	4.0'	4								Bottom of test pit at 4.0'
		5								
		6								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED. -



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TEST BORING LOG

BORING NO.: TP-17

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-6-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 992.76

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-6-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
992.8'	0.0'			TOPSOIL						
991.8'	1.0'			SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
		1.5								
		3								
		4.5								
		6								Infiltration test at 4.75'
986.0'	6.8'									
		7.5								Bottom of test pit at 6.75'
		9								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.

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TEST BORING LOG

BORING NO.: TP-18

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-10-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 994.5

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-10-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
994.5'	0.0'			TOPSOIL						
993.5'	1.0'			SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
992.0'	2.5'			SILTY CLAY: Light gray, stiff, moist						
990.5'	4.0'			SANDY CLAY: Light brown, some sandstone fragments, stiff, moist						
										Infiltration test at 6.5'
986.0'	8.5'									Bottom of test pit at 8.5'

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-19

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-3-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 989.8

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-3-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
989.8'	0.0'			TOPSOIL						
988.8'	1.0'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
		2								
		3								
985.8'	4.0'	4								
		5								
		6								

Infiltration test at 1.75'

Bottom of test pit at 4.0'

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-20

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-5-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 1003.5

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-5-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
1003.5'	0.0'			TOPSOIL						
1002.5'	1.0'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						Infiltration test at 1.0'
		2								
1000.5'	3.0'	3								Bottom of test pit at 3.0'
		4								
		5								
		6								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-21

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-10-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 1003.13

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-10-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
1003.1'	0.0'			TOPSOIL						
1002.4'	0.7'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
1001.5'	1.6'	2		SILTY CLAY: Light gray, stiff, moist						
1000.6'	2.5'	3		WEATHERED SILTY SHALE: Light brown, stiff, damp						
999.1'	4.0'	4								
		5								
		6								

Infiltration test at 2.0'

Bottom of test pit at 4.0'

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED. —



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TEST BORING LOG

BORING NO.: TP-22

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-2-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 1003.73

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-2-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
1003.7'	0.0'			TOPSOIL						
1002.7'	1.0'	1		SANDY CLAY: Light orangish brown and gray to brown, traces of sandstone fragments, soft to stiff, damp to moist						
		2								Infiltration test at 2.0'
		3								
999.7'	4.0'	4								Bottom of test pit at 4.0'
		5								
		6								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-23

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-10-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 1004.0

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-10-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
1004.0'	0.0'			TOPSOIL						
1003.0'	1.0'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
		2								
		3								
		4								Infiltration test at 4.0'
		5								
998.0'	6.0'	6		SANDY SHALE: Light brown, hard, damp						
997.7'	6.3'									Bottom of test pit at 6.3'

A LIMITING ZONE OF SHALE BEDROCK WAS ENCOUNTERED AT AT DEPTH OF EIGHT (8) FEET. THE INFILTRATION TEST WAS PERFORMED IN SANDY CLAY LAYER AT A DEPTH OF FOUR (4) FEET.

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TEST BORING LOG

BORING NO.: TP-24

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-6-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 999.23

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-6-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

[illegible]

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-25

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-6-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 1002.9

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-6-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
1002.9'	0.0'			TOPSOIL						
1001.9'	1.0'			SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
		2								
998.9'	4.0'	4		SILTY, SANDY CLAY: Light brown and gray, some sandstone fragments, stiff, moist						
		6								
		8								
		10								Infiltration test at 9.9'
990.9'	12.0'	12								Bottom of test pit at 12.0'

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-26

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-6-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 1002.0

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-6-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
1002.0'	0.0'			TOPSOIL						
1001.0'	1.0'			SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
		2								
		4								
997.0'	5.0'			SILTY CLAY: Light gray, some sandstone fragments, stiff, moist						
		6								
995.0'	7.0'			SANDY CLAY: Light brown, traces of sandstone, stiff, moist						
		8								
		10								Infiltration test at 9.0'
991.0'	11.0'									Bottom of test pit at 11.0'
		12								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.



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TEST BORING LOG

BORING NO.: TP-27

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 12-2-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 1008.72

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 12-2-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
1008.7'	0.0'			TOPSOIL						
1007.7'	1.0'	1		SILTY CLAY: Light gray, soft to medium stiff, moist						
1007.2'	1.5'	2		SANDY CLAY: Light brown, some sandstone fragments, medium stiff to stiff, damp to moist						
		3								
		4								
1004.7'	4.0'									Bottom of test pit at 4.0'
		5								
		6								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED.—



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TEST BORING LOG

BORING NO.: TP-28

PROJECT: RURA FIELD

LOCATION: HOMER CITY, PA

DATE STARTED: 11-25-24

DRILLER: EXCAVATOR

SURFACE ELEVATION: 1002.3

WATER LEVELS:

AT COMPLETION: DRY

AT 24 HOURS: BACKFILLED

CLIENT: MICHAEL BAKER

PROJECT NO.: J-17888

DATE COMPLETED: 11-25-24

LOGGED BY: ZMW

LOG TYPE: TEST PIT LOG

SPOON SIZE: N/A

HLW. STEM AGR.: N/A

SHEET 1 OF 1

ELEVATION	DEPTH	LEGEND	SYMBOL	DESCRIPTION OF MATERIAL	RECOVERY (%)	SAMPLE NO.	SPOON BLOWS/6in.	THICKNESS OF SAMPLES	RQD, %	REMARKS
1002.3'	0.0'			TOPSOIL						
1001.3'	1.0'	1		SANDY CLAY: Light orangish brown, traces of sandstone fragments, soft to stiff, damp to moist						
		2								Infiltration test at 2.0'
		3								
998.3'	4.0'	4								Bottom of test pit at 4.0'
		5								
		6								

NO LIMITING ZONES OF BEDROCK OR GROUNDWATER WERE ENCOUNTERED. —



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FAX: (412)-351-6401**

INFILTRATION INSPECTION REPORT

CLIENT: Michael Baker					REPORT NO.:			
PROJECT: Rura Field					JOB NUMBER: J-17888			
LOCATION: Homer City, PA					INSPECTOR: Alex Crisan			
INSPECTION TYPE: Infiltration Tests					DATE: November 25, 2024			
Interval Time	:30	:30	:30	:30				
TEST LOCATION	WATER LEVEL READING (in.)							INFILTRATION RATE (in/hr.)
TP-1A @ 3.1' Pre Soak: 1/8"	1/8"	1/8"	1/8"	1/8"				0.25" / Hour
TP-1B @ 3.1' Pre-Soak: 1/8"	1/8"	1/8"	1/8"	1/8"				0.25"/ Hour
TP-2A @ 1.5' Pre-Soak: 1/8"	1/8"	0"	0"	0"				0"/Hour
TP-2B @ 1.5' Pre-Soak: 1/8"	1/8"	1/8"	1/8"	1/8"				0.25"/Hour
TP-8A @ 1.0' Pre-Soak: 1/4"	1/4"	1/4"	1/4"	1/4"				0.5"/Hour
TP-8B @ 1.0' Pre-Soak: 1"	1"	3/4"	3/4"	3/4"				1.5"/Hour
TP-28A @ 2.0' Pre-Soak: 1/4"	1/4"	1/8"	1/8"	1/8"				0.25"/Hour
TP-28B @ 2.0' Pre-Soak: 1/4"	1/4"	1/4"	1/4"	1/4"				0.5"/Hour

No limiting zones of bedrock or groundwater were encountered. All tests were in stiff, silty sandy clay. Some interbedded sandstone fragments were noted in the clay.



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FAX: (412)-351-6401

INFILTRATION INSPECTION REPORT

CLIENT: Michael Baker					REPORT NO.:			
PROJECT: Rura Field					JOB NUMBER: J-17888			
LOCATION: Homer City, PA					INSPECTOR: Alex Crisan			
INSPECTION TYPE: Infiltration Tests					DATE: November 26, 2024			
Interval Time	:30	:30	:30	:30				
TEST LOCATION	WATER LEVEL READING (in.)							INFILTRATION RATE (in/hr.)
TP-3A @ 1.0' Pre Soak: 1/8"	1/8"	1/8"	1/8"	1/8"				0.25" / Hour
TP-3B @ 1.0' Pre-Soak: 1/8"	1/8"	1/8"	0"	0"				0" / Hour
TP-4A @ 3.3' Pre-Soak: 1/4"	1/8"	1/8"	1/8"	1/8"				0.25"/Hour
TP-4B @ 3.3' Pre-Soak: 3/8"	1/4"	1/4"	1/4"	1/4"				0.5"/Hour
TP-5A @ 2.67' Pre-Soak: 1/4"	1/8"	1/8"	1/8"	1/8"				0.25"/Hour
TP-5B @ 2.67' Pre-Soak: 1/8"	1/8"	1/8"	1/8"	1/8"				0.25"/Hour
TP-6A @ 1.5' Pre-Soak: 3/8"	3/8"	1/4"	1/4"	1/4"				0.5"/Hour
TP-6B @ 1.5' Pre-Soak: 1/4"	1/4"	1/4"	1/8"	1/8"				0.25"/Hour

No limiting zones of bedrock or groundwater were encountered. All tests were in stiff, silty sandy clay.

INFILTRATION INSPECTION REPORT

CLIENT: Michael Baker					REPORT NO.:			
PROJECT: Rura Field					JOB NUMBER: J-17888			
LOCATION: Homer City, PA					INSPECTOR: Alex Crisan			
INSPECTION TYPE: Infiltration Tests					DATE: December 4, 2024			
Interval Time					:30	:30	:30	:30
TEST LOCATION	WATER LEVEL READING (in.)							INFILTRATION RATE (in/hr.)
TP-7A @ 2.0' Pre Soak: ¼"	¼"	⅛"	⅛"	⅛"				0.25" / Hour
TP-7B @ 2.0' Pre-Soak: ¼"	¼"	¼"	¼"	¼"				0.5"/ Hour
TP-10A @ 6.5' Pre-Soak: 1½"	1¼"	1"	1"	1"				2.0"/Hour
TP-10B @ 6.5' Pre-Soak: ⅛"	⅛"	⅛"	⅛"	⅛"				0.25"/Hour
TP-13A @ 2.3' Pre-Soak: 1¾"	1½"	1½"	1½"	1½"				3.0"/Hour
TP-13B @ 2.3' Pre-Soak: ¼"	¼"	¼"	⅛"	⅛"				0.25"/Hour
TP-14A @ 7.5' Pre-Soak: ¾"	¾"	½"	½"	½"				1.0"/Hour
TP-14B @ 7.5' Pre-Soak: ⅛"	¼"	⅛"	⅛"	⅛"				0.25"/Hour

No limiting zones of bedrock or groundwater were encountered.

Tests at TP-7A,B, TP-10B, TP-13B, and TP-14B were in stiff, silty sandy clay.

Tests at TP-10A, TP-13A, and TP-14A were is stiff sandy clay with some sandstone fragments and cobbles.



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**2018 WAVERLY STREET
PITTSBURGH, PA 15218
PHONE: (412)-351-6465
FAX: (412)-351-6401**

INFILTRATION INSPECTION REPORT

CLIENT: Michael Baker					REPORT NO.:			
PROJECT: Rura Field					JOB NUMBER: J-17888			
LOCATION: Homer City, PA					INSPECTOR: Alex Crisan			
INSPECTION TYPE: Infiltration Tests					DATE: December 3, 2024			
Interval Time	:30	:30	:30	:30				
TEST LOCATION	WATER LEVEL READING (in.)							INFILTRATION RATE (in/hr.)
TP-9A @ 8.0' Pre Soak: 1/8"	1/8"	1/8"	1/8"	1/8"				0.25" / Hour
TP-9B @ 8.0' Pre-Soak: 1/8"	1/8"	1/8"	1/8"	1/8"				0.25"/ Hour
TP-11A @ 2.0' Pre-Soak: 1/4"	1/4"	1/8"	1/8"	1/8"				0.25"/Hour
TP-11B @ 2.0' Pre-Soak: 1/8"	1/8"	1/8"	1/8"	1/8"				0.25"/Hour
TP-16A @ 2.0' Pre-Soak: 1/4"	1/4"	1/4"	1/4"	1/4"				0.5"/Hour
TP-16B @ 2.0' Pre-Soak: 1/2"	1/2"	1/2"	1/4"	1/4"				0.5"/Hour
TP-19A @ 1.75' Pre-Soak: 1/4"	1/8"	1/8"	1/8"	1/8"				0.25"/Hour
TP-19B @ 1.75' Pre-Soak: 1/8"	1/8"	1/8"	1/8"	1/8"				0.25"/Hour

No limiting zones of bedrock or groundwater were encountered. All tests were in stiff, silty sandy clay.



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INFILTRATION INSPECTION REPORT

CLIENT: Michael Baker					REPORT NO.:			
PROJECT: Rura Field					JOB NUMBER: J-17888			
LOCATION: Homer City, PA					INSPECTOR: Alex Crisan			
INSPECTION TYPE: Infiltration Tests					DATE: December 5, 2024			
Interval Time		:30	:30	:30	:30			
TEST LOCATION	WATER LEVEL READING (in.)							INFILTRATION RATE (in/hr.)
TP-15B @ 5.5' Pre Soak: ¼"	¼"	¼"	¼"	¼"				0.5" / Hour
TP-17A @ 4.75' Pre-Soak: ¼"	¼"	¼"	¼"	¼"				0.5"/ Hour
TP-17B @ 4.75' Pre-Soak: ½"	¼"	¼"	¼"	¼"				0.5"/Hour
TP-20A @ 1.0' Pre-Soak: ⅛"	⅛"	⅛"	0"	0"				0.0"/Hour
TP-20B @ 1.0' Pre-Soak: ⅛"	⅛"	0"	0"	0"				0"/Hour
Interval Time		:10	:10	:10	:10	:10		
TEST LOCATION	WATER LEVEL READING (in.)							INFILTRATION RATE (in/hr.)
TP-12A @ 8.7' Pre-Soak: 4"	1"	1"	1"	1"				6.0"/Hour
TP-12B @ 8.7' Pre-Soak: 4½"	1¼"	1¼"	1¼"	1¼"				7.5"/Hour
TP-15A @ 5.5' Pre-Soak: 4"	1"	1"	1"	1"				6.0"/Hour

No limiting zones of bedrock or groundwater were encountered.

Tests at TP-12A,B and TP-15A were in stiff, silty sandy clay with sandstone fragments and some cobbles.

Tests at TP-15B, TP-17A,B, and TP-20A,B were is stiff, sandy clay with traces of sandstone fragments.



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INFILTRATION INSPECTION REPORT

CLIENT: Michael Baker					REPORT NO.:			
PROJECT: Rura Field					JOB NUMBER: J-17888			
LOCATION: Homer City, PA					INSPECTOR: Alex Crisan			
INSPECTION TYPE: Infiltration Tests					DATE: December 10, 2024			
Interval Time		:30	:30	:30	:30			
TEST LOCATION	WATER LEVEL READING (in.)							INFILTRATION RATE (in/hr.)
TP-18A @ 6.5' Pre Soak: ¼"	¼"	⅛"	⅛"	⅛"				0.25" / Hour
TP-18B @ 6.5' Pre-Soak: ¼"	¼"	¼"	¼"	¼"				0.5" / Hour
TP-21A @ 2.0' Pre-Soak: ⅜"	⅜"	¼"	¼"	¼"				0.5"/Hour
TP-21B @ 2.0' Pre-Soak: ¼"	¼"	¼"	¼"	¼"				0.5"/Hour
Interval Time		:10	:10	:10	:10	:10		
TEST LOCATION	WATER LEVEL READING (in.)							INFILTRATION RATE (in/hr.)

No limiting zones of bedrock or groundwater were encountered. All tests were in stiff, silty sandy clay. Portions of the clay layer had some interbedded sandstone fragments.



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INFILTRATION INSPECTION REPORT

CLIENT: Michael Baker					REPORT NO.:			
PROJECT: Rura Field					JOB NUMBER: J-17888			
LOCATION: Homer City, PA					INSPECTOR: Alex Crisan			
INSPECTION TYPE: Infiltration Tests					DATE: December 2, 2024			
Interval Time	:30	:30	:30	:30				
TEST LOCATION	WATER LEVEL READING (in.)							INFILTRATION RATE (in/hr.)
TP-22A @ 2.0' Pre Soak: ½"	½"	½"	¼"	¼"				0.5" / Hour
TP-22B @ 2.0' Pre-Soak: ¾"	½"	½"	¼"	¼"				0.5"/ Hour
TP-27A @ 2.0' Pre-Soak: ½"	¼"	¼"	¼"	¼"				0.5"/Hour
TP-27B @ 2.0' Pre-Soak: ¼"	¼"	¼"	¼"	¼"				0.5"/Hour
Interval Time	:10	:10	:10	:10	:10			
TEST LOCATION	WATER LEVEL READING (in.)							INFILTRATION RATE (in/hr.)

No limiting zones of bedrock or groundwater were encountered. All tests were in stiff, silty sandy clay. Portions of the clay layer had some interbedded sandstone fragments.



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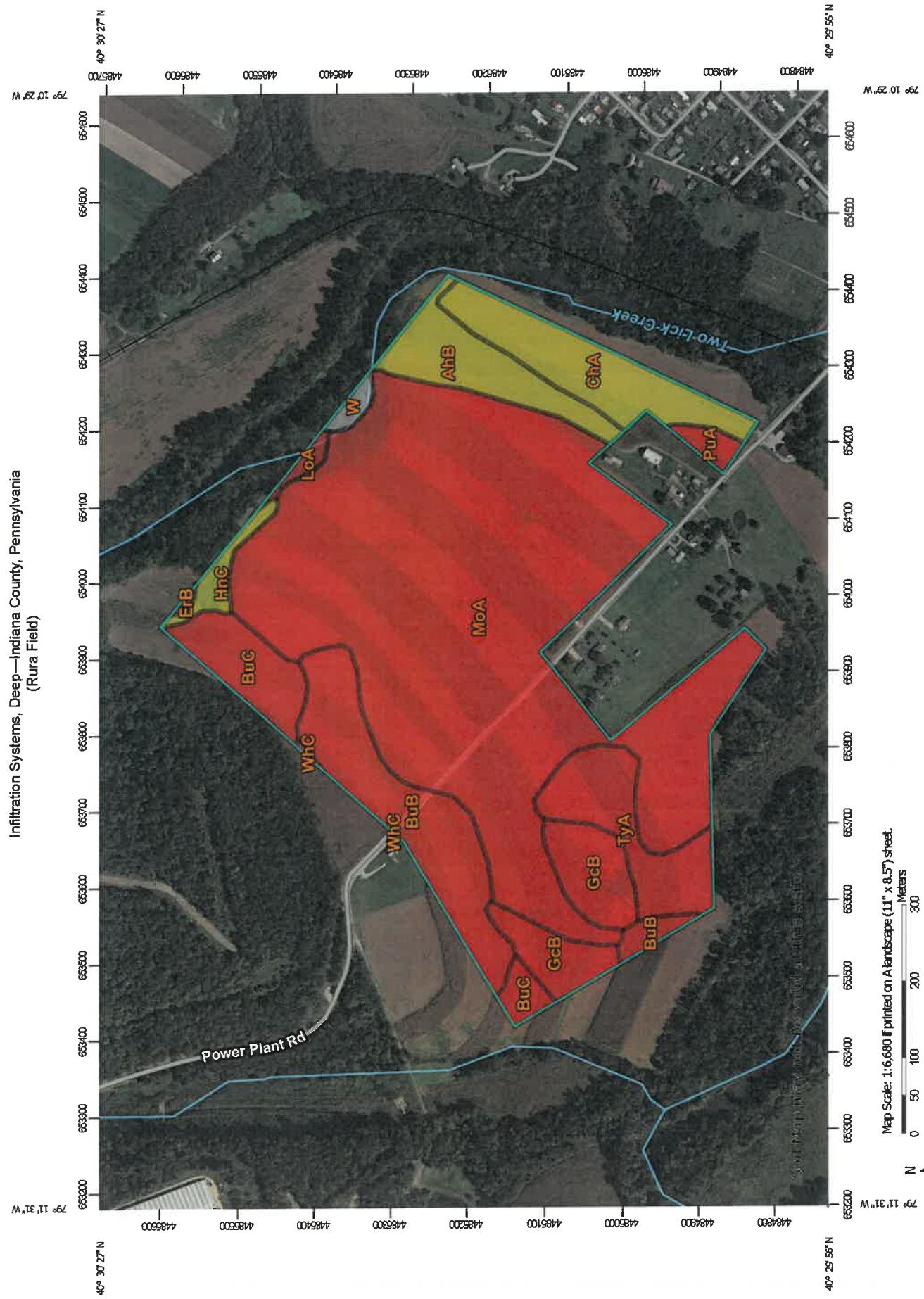
INFILTRATION INSPECTION REPORT

CLIENT: Michael Baker					REPORT NO.:			
PROJECT: Rura Field					JOB NUMBER: J-17888			
LOCATION: Homer City, PA					INSPECTOR: Alex Crisan			
INSPECTION TYPE: Infiltration Tests					DATE: December 6, 2024			
Interval Time		:30	:30	:30	:30			
TEST LOCATION	WATER LEVEL READING (in.)							INFILTRATION RATE (in/hr.)
TP-23A @ 4.0' Pre Soak: ¼"	¼"	⅛"	⅛"	⅛"				0.25" / Hour
TP-23B @ 4.0' Pre-Soak: ¼"	¼"	¼"	⅛"	⅛"				0.25"/ Hour
TP-24A @ 6.25' Pre-Soak: ½"	½"	½"	½"	½"				1.0"/Hour
TP-24B @ 6.25' Pre-Soak: 1"	1"	¾"	¾"	¾"				1.5"/Hour
TP-25A @ 9.9' Pre-Soak: ½"	½"	½"	½"	½"				1.0"/Hour
TP-25B @ 9.9' Pre-Soak: ¼"	¼"	¼"	¼"	¼"				0.5"/Hour
TP-26A @ 9.0' Pre-Soak: ¼"	⅛"	⅛"	⅛"	⅛"				0.25"/Hour
TP-26B @ 9.0' Pre-Soak: ⅛"	⅛"	⅛"	⅛"	⅛"				0.25"/Hour

A limiting zone of shale bedrock was encountered at TP-23 at a depth of six (6) feet. The test at TP-23 was performed at 4.0' in the sandy clay.

No limiting zones of bedrock or groundwater were encountered in tests at TP-24,25, or 26. These tests were performed in stiff, silty sandy clay. Portions of the clay layer have some interbedded sandy shale and sandstone fragments.

Infiltration Systems, Deep—Indiana County, Pennsylvania
(Rura Field)



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Background

Aerial Photography

Soils

Soil Rating Polygons

Severely limited

Somewhat limited

Not limited

Not rated or not available

Soil Rating Lines

Severely limited

Somewhat limited

Not limited

Not rated or not available

Soil Rating Points

Severely limited

Somewhat limited

Not limited

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Indiana County, Pennsylvania
Survey Area Data: Version 21, Sep 4, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 11, 2021—Nov 16, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Infiltration Systems, Deep

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
AhB	Allegheny silt loam, 3 to 8 percent slopes	Somewhat limited	Allegheny (85%)	Water movement (0.45)	4.8	4.9%
				Adsorptive capacity (0.24)		
				Slope (0.08)		
				Vegetation establishment (0.05)		
BuB	Buchanan loam, 3 to 8 percent slopes	Severely limited	Buchanan (90%)	Wetness (1.00)	9.6	9.9%
				Vegetation establishment (0.28)		
				Adsorptive capacity (0.23)		
				Slope (0.04)		
			Andover (5%)	Wetness (1.00)		
				Vegetation establishment (0.19)		
				Adsorptive capacity (0.03)		
			Philo (3%)	Wetness (1.00)		
				Flooding (0.50)		
				Adsorptive capacity (0.25)		
				Vegetation establishment (0.10)		
BuC	Buchanan loam, 8 to 15 percent slopes	Severely limited	Buchanan (85%)	Wetness (1.00)	4.5	4.6%
				Slope (0.70)		
				Vegetation establishment (0.28)		
				Adsorptive capacity (0.23)		
			Laidig (5%)	Wetness (1.00)		
				Slope (0.70)		
				Vegetation establishment (0.39)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Adsorptive capacity (0.18)		
			Philo (3%)	Wetness (1.00)		
				Flooding (0.50)		
				Adsorptive capacity (0.25)		
				Vegetation establishment (0.10)		
			Andover (3%)	Wetness (1.00)		
				Vegetation establishment (0.19)		
				Slope (0.08)		
				Adsorptive capacity (0.03)		
ChA	Chavies fine sandy loam, 0 to 2 percent slopes	Somewhat limited	Chavies (85%)	Adsorptive capacity (0.15)	6.3	6.5%
				Vegetation establishment (0.05)		
ErB	Ernest silt loam, 3 to 8 percent slopes	Severely limited	Ernest (85%)	Wetness (1.00)	0.1	0.1%
				Vegetation establishment (0.20)		
				Adsorptive capacity (0.15)		
				Slope (0.08)		
			Buchanan (5%)	Wetness (1.00)		
				Vegetation establishment (0.23)		
				Adsorptive capacity (0.19)		
				Slope (0.08)		
			Brinkerton (5%)	Wetness (1.00)		
				Adsorptive capacity (0.25)		
				Vegetation establishment (0.16)		
				Slope (0.13)		
GcB	Gilpin channery silt loam, 3 to 8 percent slopes	Severely limited	Gilpin (85%)	Hard bedrock (1.00)	5.3	5.5%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Adsorptive capacity (0.25)		
				Vegetation establishment (0.11)		
				Slope (0.08)		
			Wharton (10%)	Wetness (1.00)		
				Water movement (1.00)		
				Vegetation establishment (0.16)		
				Slope (0.08)		
				Adsorptive capacity (0.06)		
			Weikert (5%)	Hard bedrock (1.00)		
				Adsorptive capacity (0.25)		
				Vegetation establishment (0.14)		
				Slope (0.08)		
HnC	Hazleton channery sandy loam, 8 to 15 percent slopes	Somewhat limited	Hazleton (80%)	Slope (0.70)	1.2	1.2%
				Hard bedrock (0.55)		
				Vegetation establishment (0.34)		
				Adsorptive capacity (0.25)		
			Clymer (10%)	Hard bedrock (0.88)		
				Slope (0.70)		
				Adsorptive capacity (0.25)		
				Vegetation establishment (0.16)		
LoA	Lobdell silt loam, 0 to 3 percent slopes, occasionally flooded	Severely limited	Lobdell (85%)	Wetness (1.00)	0.5	0.5%
				Flooding (0.50)		
				Water movement (0.45)		
				Adsorptive capacity (0.23)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Vegetation establishment (0.16)		
			Holly (5%)	Wetness (1.00)		
				Water movement (0.78)		
				Flooding (0.50)		
				Adsorptive capacity (0.25)		
				Vegetation establishment (0.16)		
			Orrville (5%)	Wetness (1.00)		
				Flooding (0.50)		
				Vegetation establishment (0.05)		
			Melvin (5%)	Wetness (1.00)		
				Flooding (0.50)		
				Water movement (0.45)		
				Vegetation establishment (0.16)		
MoA	Monongahela silt loam, 0 to 3 percent slopes	Severely limited	Monongahela (85%)	Wetness (1.00)	58.1	59.8%
				Vegetation establishment (0.32)		
				Adsorptive capacity (0.25)		
			Purdy (5%)	Water movement (1.00)		
				Wetness (1.00)		
PuA	Purdy silt loam, 0 to 2 percent slopes	Severely limited	Purdy (75%)	Adsorptive capacity (0.11)	0.8	0.8%
				Vegetation establishment (0.02)		
				Water movement (1.00)		
				Wetness (1.00)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
			Tyler (15%)	Wetness (1.00)		
				Vegetation establishment (0.32)		
				Adsorptive capacity (0.25)		
			Monongahela (10%)	Wetness (1.00)		
				Adsorptive capacity (0.20)		
				Vegetation establishment (0.00)		
TyA	Tyler silt loam, 0 to 2 percent slopes	Severely limited	Tyler (85%)	Wetness (1.00)	5.5	5.6%
				Vegetation establishment (0.32)		
				Adsorptive capacity (0.25)		
			Monongahela (10%)	Wetness (1.00)		
				Adsorptive capacity (0.20)		
				Vegetation establishment (0.00)		
			Purdy (5%)	Water movement (1.00)		
				Wetness (1.00)		
				Adsorptive capacity (0.11)		
				Vegetation establishment (0.02)		
W	Water	Not rated	Water (100%)		0.5	0.6%
WhC	Wharton silt loam, 8 to 15 percent slopes	Severely limited	Wharton (80%)	Wetness (1.00)	0.1	0.1%
				Water movement (1.00)		
				Slope (0.70)		
				Vegetation establishment (0.16)		
				Adsorptive capacity (0.06)		
			Ernest (5%)	Wetness (1.00)		
				Slope (0.70)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Vegetation establishment (0.05)		
				Adsorptive capacity (0.01)		
			Rarden (5%)	Wetness (1.00)		
				Slope (0.70)		
				Soft bedrock (0.50)		
				Adsorptive capacity (0.25)		
				Vegetation establishment (0.23)		
Totals for Area of Interest					97.1	100.0%

Rating	Acres in AOI	Percent of AOI
Severely limited	84.3	86.8%
Somewhat limited	12.3	12.6%
Null or Not Rated	0.5	0.6%
Totals for Area of Interest	97.1	100.0%

Description

Deep infiltration systems are stormwater management practices that are placed 3 to 5 feet in the ground, depending on the application. These systems include rain gardens, bioretention basins, and infiltration basins. They slow the movement of stormwater to surface waters and also filter a significant portion of pollutants from the stormwater. The fundamental function of these systems is to hold the runoff generated from the first 1 inch of rainfall during a 24-hour storm preceded by 48 hours of no measurable precipitation. There should be little or no ponding at the surface. The water should infiltrate into the surrounding soil in 24 to 48 hours. Only that part of the soil between depths of 24 and 80 inches is evaluated.

The ratings are based on the soil properties that affect infiltration of the stormwater, construction and maintenance of the system, and public safety and health. Saturated hydraulic conductivity (Ksat), depth to a water table, ponding, depth to bedrock or a cemented pan, and flooding affect the transmission of rainwater. Stones and boulders, ice, and bedrock or a cemented pan interfere with installation. Subsidence interferes with installation and maintenance. Excessive slope may cause lateral seepage and surfacing of the water in downslope areas. Some slopes may become unstable and move upon addition of water.

Some soils are underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the bottom of the system. In these soils the deep infiltration system may not adequately filter the stormwater, particularly if the adsorptive capacity of the soil below the system is low. As a result, the ground water may become contaminated. In areas underlain by limestone, solution channels and subsequent subsidence may damage adjacent infrastructure. Also, areas underlain by limestone may be subject to ground-water contamination.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified infiltration system. "Not limited" indicates that the soil has features that are very favorable for the specified system. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified system.

The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified system. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the specified system (1.00) and the point at which the soil feature is not a limitation (0.00).

The accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer lists the map unit components. These

components are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as the one indicated for the map unit. The percent composition of each component in a particular map unit is shown to help the user better understand the percentage of each map unit that has the rating indicated. Other components with different ratings may occur in each map unit. The complete ratings list for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher