

TP 101, ELEV. 790.1, 7+33, 390' U.S.

Table with 3 columns: Depth, Description, Classification. Rows include 0.0 1.2 Topsoil, roots, etc.; 1.2 3.0 Sand with silt, brn, moist to wet, 20% low plastic fines, 20% fine gravel, 60% sand, weathered shale; 3.0 7.0 Gravel with cobbles & sand, brn, moist to wet, 15% cobbles, 5% boulders; matrix is: 20% low plastic fines, 25% well graded sand, and 55% well graded gravel, weathered shale; 7.0 Refusal, seeps at bedrock, wet.

TP 102, ELEV. 795.2, 5+32, 390' U.S.

Table with 3 columns: Depth, Description, Classification. Rows include 0.0 0.7 Topsoil, roots, etc.; 0.7 3.0 Clay, sandy, lt. brn & gry mottled, moist, 15% clay, 5% fine sand, trace gravel; 3.0 10.5 Gravel, cobbles with sand, brn, moist to wet below 7.0', 5% cobbles; matrix is: 25% low plastic fines, 30% well graded sand, 45% well graded gravel, 70% coarse particles are moderately durable, approximately 90% crumbles to sand with fingers.

TP 103, ELEV. 786.5, 6+35, 290' U.S.

Table with 3 columns: Depth, Description, Classification. Rows include 0.0 0.7 Topsoil, roots, etc.; 0.7 4.0 Clay, lt. brn & gry mottled, moist, med. plastic, 10% fine sand, trace gravel; 4.0 8.5 Sand, gravelly & silty, brn, moist, wet below 8.0', trace cobbles, 20% low plastic fines, 30% well graded gravel; 8.5 Refusal.

TP 104, ELEV. 779.7, 8+37, 290' U.S.

Table with 3 columns: Depth, Description, Classification. Rows include 0.0 1.0 Topsoil, roots, etc.; 1.0 2.8 Sand, silty, brn, wet, 25% low plastic fines, 10% gravel, fine to very fine sand, slight organic; 2.8 5.0 Shale - excavates as gravel with cobbles, poorly graded, wet, 10% low plastic fines, 5% sand, 5% cobbles; 5.0 Refusal.

TP 105, ELEV. 780.0, 9+15, 315' U.S.

Table with 3 columns: Depth, Description, Classification. Rows include 0.0 0.8 Topsoil, roots, etc.; 0.8 3.8 Silt, sandy, brn, moist to wet, thin 0.2' fine sand lenses, 15% sand, 5% gravel, low plastic, organic pieces; 3.8 Refusal (in shale?) wet, seeps.

TP 106, ELEV. 788.2, 10+32, 220' U.S.

Table with 3 columns: Depth, Description, Classification. Rows include 0.0 0.7 Topsoil, roots, etc.; 0.7 6.0 Gravel, sandy, brn, moist, 20% low plastic fines, trace of cobbles, 20% sand poorly graded, well graded gravel, residual; 6.0 Refusal in shale?

TP 201, ELEV. 891.3, 2+70, Centerline

Table with 3 columns: Depth, Description, Classification. Rows include 0.0 0.7 Topsoil, roots, etc.; 0.7 3.2 Sand, silty with gravel, lt. brn, moist, 25% low plastic fines, 10% gravel, sand is well graded; 3.2 6.2 Gravel, brn to gry, moist, stratified, 5% fines, 5% sand, poorly graded, particles are moderately durable, siltstone, glacial; 6.2 10.5 Gravel, silty, brn, moist, stratified, 15% low plastic fines, 10% sand, gravel is well graded, moderately durable.

TP 202, ELEV. 850.5, 4+40, 80' U.S.

Table with 3 columns: Depth, Description, Classification. Rows include 0.0 0.6 Topsoil, roots, etc.; 0.6 1.6 Sand, silty, brn, moist, 25% med. to low plastic fines, 10% gravel; 1.6 5.8 Gravel, sandy & silty, brn, moist, stratified, 15% low plastic fines, 15% well graded sand, trace cobbles, well graded moderately durable olive siltstone gravel, disk shaped; 5.8 Refusal.

TP 203, ELEV. 834.3, 4+71, 70' D.S.

Table with 3 columns: Depth, Description, Classification. Rows include 0.0 0.6 Topsoil, roots, etc.; 0.6 1.7 Silt with sand & gravel, brn, moist, 15% gravel, 20% sand; 1.7 2.5 Gravel, brn, moist, stratified, disk shaped, 5% fines, 5% sand, gravel is moderately durable; 2.5 6.6 Gravel, sandy & silty, brn, moist, 20% low plastic fines, 20% sand, trace of cobbles, gravel is well graded, olive, siltstone moderately durable; 6.6 8.4 Cobbles, gravelly with sand, brn, moist, 35% cobbles, trace of boulders; matrix is: 35% low plastic fines, 40% well graded gravel, 25% sand; 8.4 Refusal.

TP 204, ELEV. 891.3, 4+27, 155' D.S.

Table with 3 columns: Depth, Description, Classification. Rows include 0.0 0.6 Topsoil, roots, etc.; 0.6 4.4 Gravel, silty & sandy, brn, moist, well graded, stratified, 20% low plastic fines, 15% sand; 4.4 7.4 Cobbles with boulders & gravel, brn, moist, 25% cobbles, 20% boulders, well graded to 2 1/2"; matrix is: 15% low plastic fines, 35% well graded sand, 50% well graded gravel; 7.4 Refusal.

TP 205, ELEV. 822.0, 4+93, 120' U.S.

Table with 3 columns: Depth, Description, Classification. Rows include 0.0 0.7 Topsoil, roots, etc.; 0.7 7.2 Gravel, cobbles, silty, brn, moist, 35% well graded cobbles, trace boulders; matrix is: 15% low plastic fines, 65% well graded gravel, and 20% sand; 7.2 Refusal.

DH 206, ELEV. 905.6, 2+00, Centerline
Logged by: G. C. Johnson 12/20/65
Drilling Equipment: Sprague & Henwood 40 CL

Table with 6 columns: Hole Depth, Description of Materials, Unif. Soil Class, STANDARD PENETRATION, Type, SAMPLES. Rows include 0.0 0.5 Forest litter, roots, etc.; 0.5 8.7 Gravel, sandy, silty & clayey; brn, slightly moist, some cobbles, 60% gravel, 25% sand, 15% moderately plastic fines, coarse particles are moderately durable, grn-gry & some red siltstone, subround to subangular; 8.7 13.5 Siltstone, badly weathered, grn-gry on wet surface, gry on dry surface, core recovered in pieces less than 0.3' long, mostly sand & gravel size, platy, can be scratched by fingernail, thin pieces can be broken with finger pressure; dip equals 60°; 13.5 15.9 Same as above only larger pieces up to 0.4', only 10% sand & gravel size pieces; 15.9 17.0 Same as from 8.7 to 13.5' only brn in color (dry & wet); 17.0 22.0 Sandstone, fine grained, gry-brn on wet surface, lt. brn on dry surface, largest piece of core is 0.8', a few gravel sized pieces. Can be scratched with knife blade, lost drill water at 19.0'; 22.0 28.0 Sandstone, gry & brn streaked, very hard, cannot be scratched with knife blade, cores have a peculiar pitted surface, dip equals 30°, largest piece is 1.1' long, pieces average about 0.8', med. & fine grained gravel size pieces from 24.5 to 25.0'; 28.0 Bottom of boring - dry hole.

DH 207, ELEV. 855.4, 3+95, 92' D.S.
Logged by: G. C. Johnson 12/20/65
Drilling Equipment: Sprague & Henwood 40 CL

Table with 6 columns: Hole Depth, Description of Materials, Unif. Soil Class, STANDARD PENETRATION, Type, SAMPLES. Rows include 0.0 8.7 Gravel, sandy, silty, & clayey; brn slightly moist, some cobbles, 50% gravel, 35% sand, 15% moderately plastic fines, coarse particles are moderately durable & subround to subangular, grn-gry siltstone & some red siltstone; 8.7 35.0 Siltstone, weathered, grn-gry on wet surface, slightly lighter on dry surface, can be scratched with fingernail, largest piece of core is 0.5', about 50% of core is sand and gravel size pieces, thin pieces can be broken by finger pressure. Dip equals 60°, orange and black staining. WL (12/22/65) 16.8' WL (12/23/65) 21.5'

DH 208, ELEV. 872.3, 3+40, Centerline
Logged by: G. C. Johnson & H. R. Marien 12/22/65
Drilling Equipment: Sprague & Henwood 40 CL

Table with 6 columns: Hole Depth, Description of Materials, Unif. Soil Class, STANDARD PENETRATION, Type, SAMPLES. Rows include 0.0 0.4 Forest litter, roots, etc.; 0.4 2.0 Sand, clayey; lt. brn, moist, 10% gravel, 50% sand, 40% moderately plastic fines, coarse particles are moderately durable subround to subangular siltstone fragments; 2.0 7.0 Gravel, sandy & silty, tan, slightly moist, some cobbles, 20% sand, 15% low plastic fines, coarse particles are moderately durable subangular siltstone; 7.0 49.5 Siltstone, weathered, olive, 50% weathered to sand & fine gravel, thin bedded, pieces of core to 0.5' long, orange & black staining, can be scratched with fingernail easily, moderately durable; 49.5 52.0 Siltstone, weathered, tan, can be scratched easily with fingernail, vertical fractures, pieces from 0.3' to 0.6' long, thin red siltstone interbedded, 10% weathered to sand size; 52.0 Bottom of hole. WL (12/28/65) 41.0'

DH 209, ELEV. 862.6, 3+00, 138' D.S.
Logged by: H. R. Marien 12/28/65
Drilling Equipment: Sprague & Henwood 40 CL

Table with 6 columns: Hole Depth, Description of Materials, Unif. Soil Class, STANDARD PENETRATION, Type, SAMPLES. Rows include 0.0 0.7 Topsoil, roots, etc.; 0.7 3.7 Gravel, sandy & silty, lt. brn, moist, trace of cobbles, 25% low plastic fines, 15% sand, gravel is olive-gry, siltstone, moderately durable; 3.7 18.8 Siltstone, weathered, olive-gry, 20% core sand size particles, 50% gravel size, largest piece 0.5' long, orange & black staining, cannot be broken with fingers, dip of 65°; 18.8 23.3 Sandstone, fine grained, tan olive, slightly weathered orange staining along beds, pieces from 0.1' to 1.0' long, durable; 23.3 30.0 Siltstone, same as from 3.7' to 18.8'; 30.0 Bottom of hole - dry.

DH 210, ELEV. 861.4, 3+95, Centerline
Logged by: H. R. Marien 12/28/65
Drilling Equipment: Sprague & Henwood 40 CL

Table with 6 columns: Hole Depth, Description of Materials, Unif. Soil Class, STANDARD PENETRATION, Type, SAMPLES. Rows include 0.0 0.5 Topsoil, roots, etc.; 0.5 4.0 Gravel, sandy with silt, lt. brn moist, 25% med. to low plastic fines, 15% sand, gravel is fine to med., moderately durable olive siltstone, no sample recovery from 0.0 to 2.0'; 4.0 10.0 Gravel, silty, lt. brn, slightly moist, 15% low plastic fines, 20% sand, gravel is moderately durable, subangular olive siltstone; 10.0 12.5 Siltstone, weathered, lt. tan-gry with dark gry streaks, gravel size pieces, thin bedded iron stain, 5% sand size soft, can be scratched easily with fingernail, lost water at 12.0'; 12.5 14.0 Sandstone, slightly weathered, gry with slight pitting which is brn, fractured, iron stains, can be scratched with knife blade, durable pieces from 0.1 to 0.4' long; 14.0 40.0 Siltstone highly weathered, olive-gry, 20% of core is sand size, other pieces to 0.2' long, can be easily scratched with fingernail, moderately durable mud seam 16.0 to 18.0'.

DH 211, ELEV. 884.8, 2+97, 130' U.S.
Logged by: H. R. Marien 1/5/66
Drilling Equipment: Sprague & Henwood 40 CL

Table with 6 columns: Hole Depth, Description of Materials, Unif. Soil Class, STANDARD PENETRATION, Type, SAMPLES. Rows include 0.0 0.5 Topsoil, roots, forest litter, etc.; 0.5 1.5 Silt, sandy with gravel, lt. brn, moist, 5% gravel, 20% well graded sand; 1.5 5.5 Gravel, silty with sand, lt. brn, moist, 20% low plastic fines, 20% sand, gravel is mostly moderately durable to durable, gry to olive siltstone, subangular, occasional pieces of highly weathered rose sandstone; 5.5 30.0 Siltstone, highly weathered, olive, can be scratched easily with fingernail, 15% of core is fine gravel & sand size particles, occasional mud seams (24.0) fractured along bedding, iron stains, 60% of core is pieces from 0.1' to 0.5' long.

(SEE SHEET 22 OF 23 FOR DR'S 212 THROUGH 214)

Soil descriptions and classifications are based on physical examination and may be subject to change following laboratory testing. The percentages of gravel, sand and fines in the matrix are estimated on the basis of 100% passing 3-inches.

For location of drill holes & test pits see sheets 2, 4, 7, 8, 9 & 10.

BRIAR CREEK WATERSHED
FLOODWATER RETARDING DAM PA-498
COLUMBIA & LUZERNE COUNTIES, PENNSYLVANIA
LOGS OF DRILL HOLES & TEST PITs
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Form with fields for Date, Approved by, Title, Drawing No, No. 23 of 23, PA-498-P.