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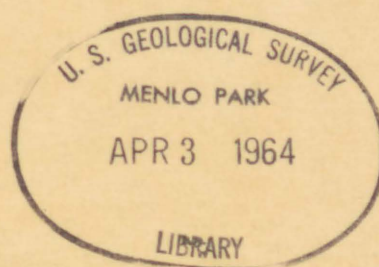
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⌈Reports. Open file no.714⌋

Superficial Geology of the Bashbish
Quadrangle, Massachusetts-Connecticut-
New York. by Hartshorn, Joseph H.



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MEMO. PRA.

(200)
R290
No. 64-73

U.S. Geological Survey. [Reports. Open File no. 714]

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Field and megascopic observations:

Station number 1

Location: County Litchfield Town Salisbury Pit X Active X Inactive
1800' west of Rt. 41 on 42°00'20" N
Road location Forrester property called "The Fairways." Coordinates 73°26' W

Geologic unit or occurrence ice contact stratified drift in kame

Textural description sandy pebble gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 2000' x 10000' Estimated thickness 100' - 150'

Dimensions of pit: Areal extent 25' x 50' Exposed thickness 15'

Est. minimum thickness 75' Est. maximum thickness 100'

Lithologic composition (approximate %) 50% limestone; 30% schists

Grain size: Maximum 5" Mean 1" Est. % of sand 40% Est. % fines 5-7%

Rounding subrounded Grading well graded Sorting poor

Soil development 5" A 26" B Color 10 yr 4/4 dry 10 yr 5/6

Oxidation or staining Leaching

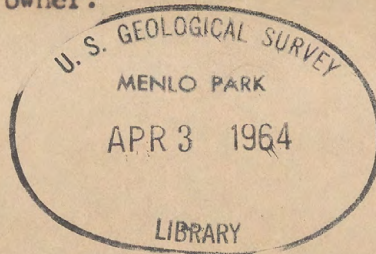
Secondary deposition Reactive matter CaCO₃

General description: Walls of pit are badly slumped and almost completely vegetated. Pit itself is used at present as a brush dump. Use in the past has been for maintenance of driveway by owner.

U.S. Geological Survey

OPEN FILE MAP

This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.



(Sample numbers and locations are given in the field notes)

Pebble count: (based on 100 pebbles unless otherwise stated)

Rock type	Number	Total	Percent	Remarks

(over)

Bashish Falls

Connecticut

J. Atherton

September 1963

Mass materials

Field and megascopic observations:

Station number

3

Location: County Litchfield

Town Salisbury

Pit

X

Active

Inactive

Road location north side of unnamed road

42°02' N

connecting Rt. 41 and

Coordinates

73°25'30" W

Beaverdam road, .9 mi. south of Conn. State line.

Geologic unit or occurrence ice contact stratified drift in kame terrace

Textural description sandy pebble gravel(?)

Eng. Soil Type

GW

Dimensions of deposit: Areal extent 2000' x 4500' Estimated thickness 15'-60'

Dimensions of pit: Areal extent 25' x 25' Exposed thickness

Est. minimum thickness 15' Est. maximum thickness 20'

Lithologic composition (approximate %)

Grain size: Maximum Mean Est. % of sand Est. % fines

Rounding Grading Sorting

Soil development Color

Oxidation or staining Leaching

Secondary deposition Reactive matter

General description: Materials very poorly exposed. Walls of pit are slumped and completely vegetated.

(Sample numbers and locations (size analyses attached))

Pebble count: (based on 100 pebbles unless otherwise stated)

Rock type	Number	Total	Percent	Remarks

(over)

Bashish Falls

Connecticut

J. Atherton

September 1963 Mass materials

Field and megascopic observations:

Station number 4

Location: County Litchfield Town Salisbury Pit Inactive
 800' south, of Hammettown Road; 42°02'30"N
 Road location 800' east of Route 41. Coordinates 73°25'15"W

Geologic unit or occurrence ice contact stratified drift in kame terraceTextural description sandy pebble gravel Eng. Soil Type GWDimensions of deposit: Areal extent 2000' x 4500' Estimated thickness 15'-60'Dimensions of pit: Areal extent 60' x 100' Exposed thickness 12'Est. minimum thickness 20' Est. maximum thickness 30'

Lithologic composition (approximate %)

Grain size: Maximum 22" Mean 1" Est. % of sand 40 Est. % fines 5-7%Rounding subrounded Grading well graded Sorting poorly sorted

A horizon stripped

Soil development 20"-24" mottled B Color B: 10 yr 6/8 dry

remains

Oxidation or staining slight staining Leaching throughout section excepting coarser gravel.Secondary deposition Reactive matter CaCO₃

General description: 12' (?) of silty pebble gravel including large lens of coarse sand and sandy pebble gravel.

(bedrock's analyses and locations are attached)

Pebble count: (based on 100 pebbles unless otherwise stated)

Rock type	Number	Total	Percent	Remarks
Quartzite			10	mostly dark green
Sandstone, conglomerate			13	mostly calcareous
Limestone, dolostone, marble			15	
Gneiss				
Schists			50	occasional amphibolite
Igneous } mafic				
} felsic				
Free quartz			10	
Miscellaneous			2	badly weathered schists

(over)

Bashbich Falls

Connecticut

J. Hartshorn

September 1963

Mass. materials

Field and megascopic observations:

Station number 5Location: County Litchfield Town Salisbury Pit Inactive

South side of Hammettown Road;

Road location 700 feet east of Rt. 41 Coordinates 42°02'45" N 73°25'15" WGeologic unit or occurrence ice contact stratified drift in kame terraceTextural description sandy gravel Eng. Soil Type GWDimensions of deposit: Areal extent 2000' x 4500' Estimated thickness 15'-60'Dimensions of pit: Areal extent 250' x 400' Exposed thickness 18'Est. minimum thickness 25' Est. maximum thickness 35'

Lithologic composition (approximate %) _____

Grain size: Maximum 24" Mean 1.5" Est. % of sand 40% Est. % fines 1-3%

subrounded

Rounding rounded Grading well graded Sorting medium sorted

A stripped

Soil development 8" to 36" B remains Color B horizon: 10 yr 5/8 dry

staining throughout B

Oxidation or staining horizon. Slight Leaching _____

staining of finer materials throughout section.

Secondary deposition _____ Reactive matter CaCO₃General description: 18' (?) interbedded coarse pebble gravel, coarse silty sand, and fine to medium sand. Cobbles amount to about 3% of entire mass.

(bercatta acylans est) brctscod bas areduas alqmsB

Pebble count: (based on 100 pebbles unless otherwise stated)

Rock type	Number	Total	Percent	Remarks
Quartzite			10	mostly dark green
Sandstone, conglomerate			12	mostly calcareous
Limestone, dolostone				sugary sandstone
marble			13	
Gneiss				
Schists			51	occasional amphi-
Igneous mafic				bolite
felsic				
Free quartz			13	
Miscellaneous	1		1	limonite; ferrugi-
				nous conglomerate
(over)			100	

Bashbush Falls

Connecticut

J. Atherton

September 1963

Mass. materials

Field and megascopic observations:

Station number 6Location: County Litchfield Town Salisbury Pit X Inactive

South side of Hammettown

42°02'45" N

Road location Road; 1800' east of Rt. 41 Coordinates 73°25'10" WGeologic unit or occurrence ice contact stratified drift in kame terraceTextural description sandy gravel Eng. Soil Type GWDimensions of deposit: Areal extent 2000' x 4500' Estimated thickness 15'-60'Dimensions of pit: Areal extent 25' x 50' Exposed thickness _____Est. minimum thickness 10' Est. maximum thickness 20'

Lithologic composition (approximate %)

Grain size: Maximum _____ Mean _____ Est. % of sand _____ Est. % fines _____

Rounding _____ Grading _____ Sorting _____

Soil development _____ Color _____

Oxidation or staining _____ Leaching _____

Secondary deposition _____ Reactive matter _____

General description: Inactive pit, walls of which are completely slumped and vegetated. Materials very poorly exposed.

Pebble count: (based on 100 pebbles unless otherwise stated)

Rock type	Number	Total	Percent	Remarks

(over)

Rashbush Falls

Connecticut

J. Hartshorn

September 1963

Mass materials

Field and megascopic observations:

Station number

7

Location: County BerkshireTown SheffieldPit X

Inactive

700' east of Rt. 44;

42°03' N

Road location just north of Mass. State

line.

Coordinates

73°26' W

Geologic unit or occurrence

ice contact stratified drift in kame terrace

Textural description

pebble gravel

Eng. Soil Type

GW

Dimensions of deposit:

Areal extent 500' x 1200'Estimated thickness 25'

Dimensions of pit:

Areal extent 40' x 75'

Exposed thickness

20'Est. minimum thickness 10'Est. maximum thickness 30'* Lithologic composition (approximate %) 60% schists; 15% sandstone quartzite;
10% limestone-dolostone.Grain size: Maximum 18"Mean 1.25"Est. % of sand 30Est. % fines 7-9%

subrounded

Rounding

rounded

Grading

well graded

Sorting

poor

Soil development

6" A

sandy pebble

10 yr 4/4

moist

16" B

gravel.

Color

10 yr 5/8

Oxidation or staining

Leaching

Secondary deposition

Reactive matter

CaCO₃

General description: Pit walls very badly slumped and vegetated. Textural description of materials as they appear in slump debris

(based on 100 pebbles unless otherwise stated)
Pebble count:

Rock type	Number	Total	Percent	Remarks

(over)

* Lithologic composition based on appearance of small mass of slump debris.

Bashish Falls

Massachusetts

J. Atherton

September 1963

Mass. materials

Field and megascopic observations:

Station number 8Location: County Berkshire Town Sheffield Pit X InactiveRoad location 1000' east of Rt. 41; just north of Mass. State line. Coordinates 42°03' N 73°25' 5" WGeologic unit or occurrence ice contact stratified drift in kame terraceTextural description sandy pebble gravel(?) Eng. Soil Type GWDimensions of deposit: Areal extent 700' x 1800' Estimated thickness 25'Dimensions of pit: Areal extent 30' x 60' Exposed thickness 10'Est. minimum thickness 10' Est. maximum thickness 25'Lithologic composition (approximate %) ?Grain size: Maximum Mean Est. % of sand Est. % fines Rounding Grading Sorting Soil development 6" A 20" B sandy pebble gravel. Color 10 yr 4/4 10 yr 5/8 moistOxidation or staining Leaching Secondary deposition Reactive matter CaCO₃

General description: Walls and floor of pit completely vegetated. Textural description is of materials exposed in shovel hole.

(Sample numbers and locations (size analyses attached))

Pebble count: (based on 100 pebbles unless otherwise stated)

Rock type	Number	Total	Percent	Remarks

(over)

Bashish Falls

Massachusetts

J. Atherton

September 1963

Mass. materials

Field and megascopic observations: Station number 9-12

Location: County Berkshire Town Sheffield Pit X Active
Road location 800' south of Kelsey Road; Coordinates 42°04' N
1200' east of Rt. 41. 73°25' W

Geologic unit or occurrence ice contact stratified drift in kame terrace

Textural description sandy gravel Eng. Soil Type CW

Dimensions of deposit: Areal extent 1200' x 1500' Estimated thickness 10'-65'

Dimensions of pit: Areal extent 100' x 200' Exposed thickness 40'

Est. minimum thickness 45' Est. maximum thickness 60'

Lithologic composition (approximate %) same as pit 10.

Grain size: Maximum 28" Mean 1.25" Est. % of sand 40% Est. % fines 0-2%

Rounding subrounded Grading well graded Sorting medium

Soil development 8" A Color 10 yr 4/4 moist
24"-36" B 10 yr 5/8

Oxidation or staining color of sand and gravel
of C-horizon: 10 yr Leaching
7/3 moist

Secondary deposition Reactive matter CaCO₃

General descriptions: Pit walls badly slumped. No section. Pits numbered "9" and "10" are located within 200' of one another on the same kame terrace.

(Sample numbers and locations (size analyses attached))

Pebble count: (based on 100 pebbles unless otherwise stated)

Rock type	Number	Total	Percent	Remarks
Quartzite			5	
Sandstone, conglomerate			11	sugary sandstone
Limestone, dolostone, marble			29	
Gneiss				
Schists			44	
Igneous {mafic felsic				
Free quartz			9	lens and vug quartz assoc. with schists.
Miscellaneous			3	

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Bashish Falls

Massachusetts

J. Hartshorn

September 1963

Mass. materials

Field and megascopic observations:

Station number 10Location: County Berkshire Town Sheffield Pit X Active800' south of Kelsey Road; 42°04'Road location 1200' east of Rt. 41. Coordinates 73°25'Geologic unit or occurrence Ice contact stratified drift in kame terraceTextural description sandy gravel Eng. Soil Type GWDimensions of deposit: Areal extent 1200' x 15000' Estimated thickness 10'-65'Dimensions of pit: Areal extent 100' x 150' Exposed thickness 45'Est. minimum thickness 45' Est. maximum thickness 60'

Lithologic composition (approximate %)

Grain size: Maximum 36" Mean 1.25" Est. % of sand 40% Est. % fines 0-2%
roundedRounding subrounded Grading well graded Sorting medium

8" A

10 yr 4/4 moist

Soil development 24"-36" B Color 10 yr 5/8Oxidation or staining some Fe₂O₃ staining
in sandy beds. Some Leaching caliche.Secondary deposition Reactive matter CaCO₃General description: 45' of interbedded coarse pebble and cobble gravel, and nicely stratified medium to coarse sand. Rare boulders.

See section reverse for the most part badly slumped, though materials at south end of pit are exposed upper half of section.

(Sample numbers and locations (size analyses attached))

Pebble count: (based on 100 pebbles unless otherwise stated)

Rock type	Number	Total	Percent	Remarks
Quartzite			5	
Sandstone, conglomerate			11	
Limestone, dolostone, marble			29	
Gneiss				
Schists			44	
Igneous { mafic felsic				
Free quartz			9	quartz assoc. with schists.
Miscellaneous			3	

(over)

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Pashish Falls

Massachusetts

J. Atherton

September 1963

Mass. Materials

Field and megascopic observations: same to , all along the ~~Station~~ ~~containing~~ ~~quartzite~~

Location: County Berkshire Town Sheffield Pit X Active
Inactive
East side of Barnum Road;
Road location 800' northeast of intersection Coordinates 42°04' N
tion Barnum and Kelsey Roads. 73°23'30" W

Geologic unit or occurrence ice contact stratified drift in same terrace

Textural description sandy pebble gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 300' x 1000' Estimated thickness 30'

Dimensions of pit: Areal extent 40' x 60' Exposed thickness 30'

Est. minimum thickness 10 Est. maximum thickness 30'

Lithologic composition (approximate %) 30% quartzite; 45 or 50% limestone-dolostone; 10% schists.

Grain size: Maximum 40" Mean 1" Est. % of sand 35 or 40% Est. % fines 5-7%

Rounding rounded Grading well graded Sorting poorly sorted

Soil development 6" to 8" AB plow zone Color 10 yr 5/6 dry
5 to 18" B 10 yr 6/8

Oxidation or staining little or no staining Leaching below B horizon

Secondary deposition Reactive matter CaCO₃

General description: Badly slumped. Few exposures show 10'-25' (?) sandy pebble gravel capped with 2' to 5' of pebbly sand (interbedded fine to coarse sand and fine pebble gravel). Few boulders present are of limestone.

(Sample numbers and locations (size analyses attached))

Pebble count: (based on 100 pebbles unless otherwise stated)

Rock type	Number	Total	Percent	Remarks

(over)

Bashish Falls

Massachusetts

J. Atherton

September 1963

Mass. materials

Field and megascopic observations: Station number 12

Location: County Berkshire Town Sheffield Pit Active
600' east of Rt. 41; 3800' Inactive
Road location north of intersection Rt. 41 and Kelsey Road. Coordinates 42°04'30" N
73°25' W

Geologic unit or occurrence ice contact stratified drift in kame terrace

Textural description _____ Eng. Soil Type _____

(ca) 1200' x
Dimensions of deposit: Areal extent 15000' Estimated thickness 10'-65'

Dimensions of pit: Areal extent _____ Exposed thickness _____

Est. minimum thickness _____ Est. maximum thickness _____

Lithologic composition (approximate %) _____

Grain size: Maximum _____ Mean _____ Est. % of sand _____ Est. % fines _____

Rounding _____ Grading _____ Sorting _____

Soil development _____ Color _____

Oxidation or staining _____ Leaching _____

Secondary deposition _____ Reactive matter _____

General description:

(berkshire analyses and locations) sample numbers and locations (size analyses attached)

Pebble count: (based on 100 pebbles unless otherwise stated)

Rock type	Number	Total	Percent	Remarks

(over)

Bashish Falls

Massachusetts

J. Hartshorn

September 1963

Mass. materials

Field and megascopic observations:

Station number 13
Name ActiveLocation: County Berkshire Town Sheffield Pit InactiveEast side of Giberson Road; 42°07'NRoad location 2300' N NE of intersection Coordinates 73°23'30" W

Berkshire School and Giberson Roads.

Geologic unit or occurrence outwash terraceTextural description sandy pebble gravel Reg. Soil Type GWDimensions of deposit: Areal extent 600' x 1000' Estimated thickness 15'Dimensions of pit: Areal extent 75' x 100' Exposed thickness 12'Est. minimum thickness 6' Est. maximum thickness 15'Lithologic composition (approximate %) 45% schists; 20% limestone dolostone
25% quartzite; 10% free quartzGrain size: Maximum 3" Mean .33" Est. % of sand 50% Est. % fines subroundedRounding rounded Grading well graded Sorting mediumSoil development A stripped
B remains Color B horizon: mottled 10 yr 5/4Oxidation or staining little or no staining
below B horizon Leaching Secondary deposition some caliche Reactive matter CaCO₃

General description: Section exposed includes 6' of interbedded medium to coarse sand and fine to very fine pebble gravel. Both sand and gravel are well stratified. Ripple marks in sand. Fine pebble gravel is cross-bedded.

(attached to separate sheet)

Pebble count: (based on 100 pebbles unless otherwise stated)

Rock type	Number	Total	Percent	Remarks

(over)

Berkshire Falls

Massachusetts

J. Hartshorn

September 1963

Mass. materials

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Bashbish Falls

Connecticut

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