Map Showing Location of Sand, Gravel, and Till Pits in Ellington Quadrangle, Connecticut

by

R. B. Colton and M. J. Mallory

Open File Report #69-56

1969

Field and megascopic observations:

Station number E1

Location: County Hartford Town Ellington Pit ___ Active x Inactive

Road location 0.6 mi. N. of Butcher Rd. 0.4 mi. E. of Rt. 83 Coordinates 679,400 E. 384,000 N.

Geologic unit or occurrence till (hardpan)

Textural description mixture of sand and larger sizes Eng. Soil Type ML

Dimensions of deposit: Areal extent 1000' x 3000' Estimated thickness 50'

Dimensions of pit: Areal extent 200' x 100' Exposed thickness 15'

Lithologic composition (approximate %) 87% Triassic rocks; 7% quartzite; 5% gneiss

Grain size: Maximum 1' Mean 1" Est. % of sand 50 Est. % fines 20

Rounding angular to subrounded Grading well graded Sorting none

Soil development thin eolian mantle Soil Color reddish brown

Oxidation or staining much iron staining Leaching none seen

Secondary deposition Fe oxide on pebbles Reactive matter none seen

Rock type	
Triassic sandstone, siltstone,	
conglomerate	87
Quartzite	7
Basalt	1
Granite	2
Gneiss	5

Section:

not exposed;

pit walls slumped and pit partly filled with trash and abandoned machinery.

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 16, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E2

Location: County Hartford Town Ellington Pit x Active / Inactive

3000' N. of Butcher Rd. 383,800 N.

Road location .5 mi. E. of Rt. 83 Coordinates 680,600 E.

Geologic unit or occurrence esker, ice contact stratified drift

Textural description gravel, medium, fine Eng. Soil Type GW

Dimensions of deposit: Areal extent 1000' x 200' Estimated thickness 35'

Dimensions of pit: Areal extent 2 pits each 100' x 50' Exposed thickness 15'

Lithologic composition (approximate %) 87% Triassic rocks; 11% quartzite

Grain size: Maximum 1.5' Mean 0.3" Est. % of sand 40 Est. % fines 10

Rounding well Grading poor Sorting well

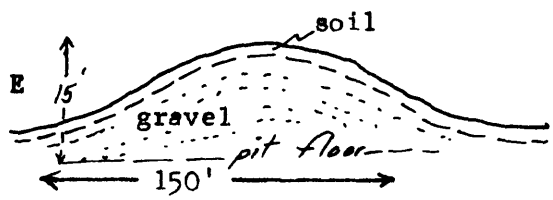
Soil development 1' Soil Color brown

Oxidation or staining much Leaching none seen

Secondary deposition little Reactive matter none seen

Rock type	
Triassic sandstone,	
conglomerate	87
Quartzite	11
Schist	1
Gneiss	2

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 16, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E3

Location: County Hartford Town Ellington Pit x Active Inactive

Road location 400' SW. of Rt. 140 Coordinates 669,500 E. 394,000 N.

1000' E. of W. edge of quad

Geologic unit or occurrence outwash gravel

Textural description gravel, fine Eng. Soil Type SP sand

Dimensions of deposit: Areal extent 0.5 mi. x 0.1 mi. Estimated thickness 50'

Dimensions of pit: Areal extent 500' x 200' Exposed thickness 40'

Lithologic composition (approximate %) 76% Triassic rocks; 16% quartzite; 5% basalt

Grain size: Maximum 1' Mean sand sized Est. % of sand 90 Est. % fines 5

Rounding well rounded Grading poorly graded Sorting well sorted

Soil development 1' eolian mantle Soil Color brown

Oxidation or staining none seen Leaching none seen

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate, siltstone, mudstone	76
Quartzite	16
Basalt	5
Amphibolite	2
Gneiss	1

Section:

2' gravel

20'+ Sand and some silt near bottom of exposure

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 16, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E4

Location: County Hartford Town Ellington Pit x Active ___ Inactive

Road location 2000' E. of 72° 30' 800' SW. of Rt. 140 Coordinates 669,500 E. 393,000 N.

Geologic unit or occurrence outwash gravel

Textural description sand and little gravel Eng. Soil Type SW gravel

Dimensions of deposit: Areal extent 3000' x 1000' Estimated thickness 50'

Dimensions of pit: Areal extent 200' x 50' Exposed thickness 30'

Lithologic composition (approximate %) 85% Triassic rocks; 9% basalt; .5% quartzite

Grain size: Maximum 6" Mean 0.3" Est. % of sand 70 Est. % fines 10

Rounding well Grading poor Sorting well

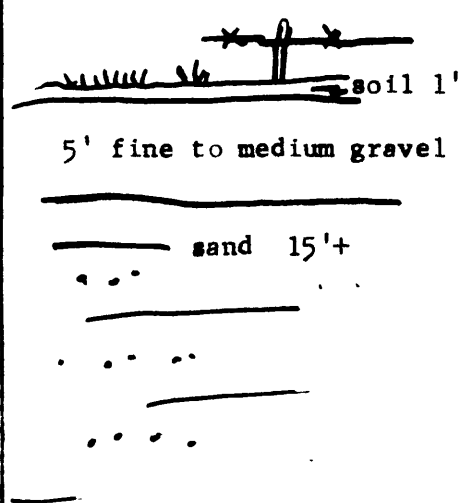
Soil development 1' Soil Color brown

Oxidation or staining some Leaching little

Secondary deposition none (fe) Reactive matter none

Rock type	
Triassic sandstone,	
conglomerate, siltstone, etc.	85
Quartzite	9
Basalt	5
Granite	1

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 16, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E5

Location: County Hartford Town Ellington Pit x Active ___ Inactive

Road location 1000' E. of Rt. 140, N. side of Muddy Brook Rd. 800' E. of Green Rd. Coordinates 72° 29' 55" W. 41° 55' 10" N.

Geologic unit or occurrence outwash deposit

Textural description sand, pebbly Eng. Soil Type SP

Dimensions of deposit: Areal extent 1 x 0.5 mi. Estimated thickness 50'

Dimensions of pit: Areal extent 100' x 50' Exposed thickness 25'

Lithologic composition (approximate %) 85% sandstone; 10% quartzite

Grain size: Maximum 6' Mean 1" Est. % of sand 80 Est. % fines 10

Rounding well rounded Grading poor Sorting well

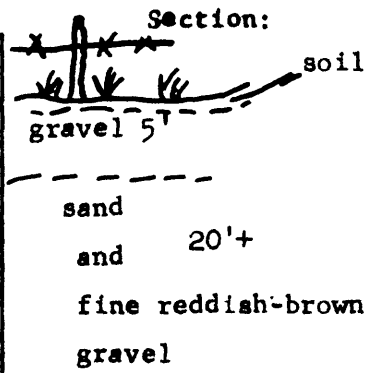
Soil development 1-2' eolian silt mantle Soil Color light brown

Oxidation or staining some Leaching leached

Secondary deposition none Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate etc.	83
Quartzite	11
Pegmatite	2
Gneiss	3
Granite	1

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 16, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E6

Location: County Hartford Town Ellington Pit x Active / Inactive

Road location 2000' W. of Jobs Hill Rd. 300' N. of Muddy Brook Rd. Coordinates 672,600 E. 395,100 N.

Geologic unit or occurrence outwash deposit

Textural description sand Eng. Soil Type SP sand

Dimensions of deposit: Areal extent 3000' x 2000' Estimated thickness 50'

Dimensions of pit: Areal extent 200' x 200' Exposed thickness 35'

Lithologic composition (approximate %) 70% sandstone; 20% quartzite

Grain size: Maximum 6" Mean sand sized Est. % of sand 90 Est. % fines 5

Rounding well Grading poor Sorting well

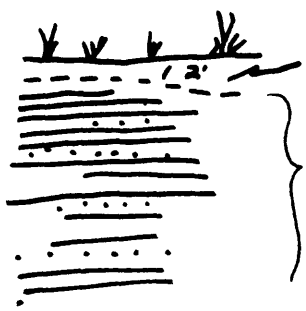
Soil development 1-2' eolian mantle Soil Color light brown

Oxidation or staining some Leaching leached

Secondary deposition none Reactive matter none

Rock type	
Triassic sandstone, conglomerate, siltstone	69
Basalt	4
Quartzite	20
Granite	3
Gneiss	2
Pegmatite	2

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 16, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E7

Location: County Hartford Town Ellington Pit x Active ___ Inactive

Road location 1800' W. of Jobs Hill Rd. 300' NE. Rt. 140 Coordinates 392,300 N. 672,800 E.

Geologic unit or occurrence outwash

Textural description sand, pebbly Eng. Soil Type SP sand

Dimensions of deposit: Areal extent 2000' x 2000' Estimated thickness 50'

Dimensions of pit: Areal extent 150' x 200' Exposed thickness 15'

Lithologic composition (approximate %) 70% sandstone; 20% quartzite

Grain size: Maximum 3" Mean sand sized Est. % of sand 90 Est. % fines 5

Rounding well rounded Grading poor Sorting well sorted

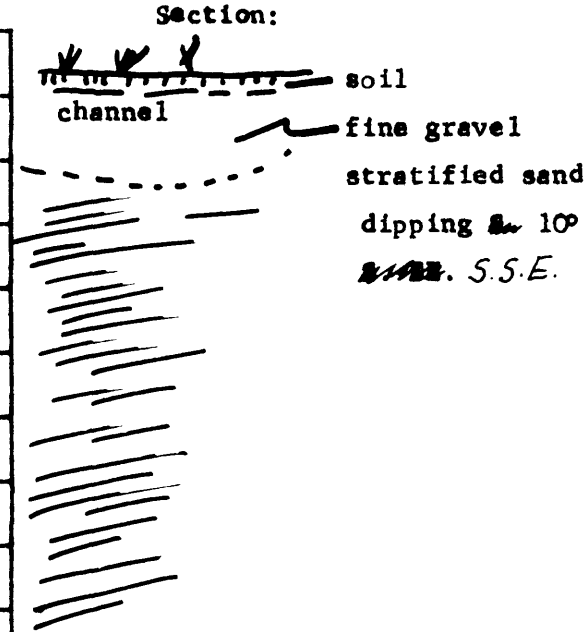
Soil development 1' eolian mantle Soil Color brown

Oxidation or staining little Leaching leached

Secondary deposition none Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate, siltstone, etc.	68
Quartzite	19
Basalt	5
Granite	1
Gneiss	5
Pegmatite	2

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 16, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E8

Location: County Hartford Town Ellington Pit ___ Active x Inactive

Road location 4000' W. of Rt. 83 / 2000' NW. of Rt. 140a Coordinates 392,800 N. / 676,300 E.

Geologic unit or occurrence outwash deposit

Textural description sand, pebbly Eng. Soil Type SP sand

Dimensions of deposit: Areal extent 5000' x 4000' Estimated thickness 50'

Dimensions of pit: Areal extent 100' x 100' Exposed thickness 30'

Lithologic composition (approximate %) 68% sandstone; 20% quartzite

Grain size: Maximum 6" Mean sand sized Est. % of sand 90 Est. % fines 5

Rounding well Grading poor Sorting well

Soil development 1' eolian mantle Color brown

Oxidation or staining some Leaching leached

Secondary deposition none Reactive matter little

Rock type	
Triassic sandstone, conglomerate, siltstone, etc.	68
Quartzite	20
Pegmatite	2
Basalt	2
Schist	1
Gneiss	6
Granite	1

Section:

not exposed; slumped

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 16, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E9

Location: County Hartford Town Ellington Pit x Active ___ Inactive

Road location 4000' W. of Rt. 83 / 200' N. of Kibbe Brook Coordinates 393,500 N / 676,500 E.

Geologic unit or occurrence outwash deposit

Textural description sand and gravel Eng. Soil Type SP-SW

Dimensions of deposit: Areal extent 800' x 500' Estimated thickness 50'

Dimensions of pit: Areal extent 200' x 200' Exposed thickness 20'

Lithologic composition (approximate %) 85% Triassic rocks; 5% quartzite

Grain size: Maximum 1.5' Mean 0.3" Est. % of sand 80 Est. % fines 5

Rounding well rounded Grading fair to poor Sorting good

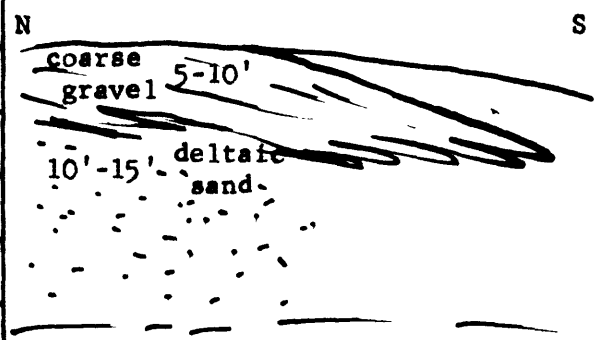
Soil development scraped off Color unknown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic reddish-brown sandstone, conglomerate, siltstone	83
Quartzite	5
Schist	1
Basalt	4
Granite	1
Pegmatite	3
Amphibolite	1
Gneiss	2

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 16, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E10

Location: County Hartford Town Ellington Pit X Active Inactive

Road location 1000' N. of Kibbe Brook 2500' W. of Rt. 83 Coordinates 394,000 N. 678,200 E.

Geologic unit or occurrence outwash deposit

Textural description gravel and sand Eng. Soil Type SP-SW

Dimensions of deposit: Areal extent 2000' x 2000' Estimated thickness 50'

Dimensions of pit: Areal extent 1000' x 300' Exposed thickness 50'

Lithologic composition (approximate %) 85% sandstone; 5% quartzite

Grain size: Maximum 1' Mean 0.3" Est. % of sand 70 Est. % fines 5

Rounding well rounded Grading poor Sorting well sorted

Soil development 1-2' eolian mantle Soil Color light brown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Section:

not exposed

Rock type	
Triassic sandstone	86
Quartzite	7
Gneiss	3
Pegmatite	1
Basalt	2
Granite	1

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 16, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number Ell

Location: County Hartford Town Ellington Pit x Active / Inactive

Road location 1000' W. of Rt. 83 / 1,000' S. of Meadow Brook Rd. Coordinates 680,500 E. / 393,000 N.

Geologic unit or occurrence outwash deposit

Textural description sand and gravel Eng. Soil Type SP

Dimensions of deposit: Areal extent 1000' x 500' Estimated thickness 40'

Dimensions of pit: Areal extent 100' x 50' Exposed thickness 10'

Lithologic composition (approximate %) 60% sandstone; 25% quartzite; 10% gneiss

Grain size: Maximum 1' Mean 0.3" Est. % of sand 80 Est. % fines 10

Rounding well rounded Grading poorly graded Sorting well sorted

Soil development 1' eolian mantle Soil Color brown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Section: pit walls slumped and not exposed but dug holes revealed well stratified sand.

Rock type	
Triassic sandstone, conglomerate, siltstone	58
Quartzite	23
Basalt	3
Gneiss	11
Schist	1
Granite	2
Pegmatite	2

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 17, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E12

Location: County Hartford Town Ellington Pit ___ Active x Inactive

Road location 1600' W. of Rt. 83 / 800' NW. of Rt. 140 Coordinates 678,600 E. / 392,400 N.

Geologic unit or occurrence outwash

Textural description gravel Eng. Soil Type GM

Dimensions of deposit: Areal extent 1000' x 2000' Estimated thickness 40'

Dimensions of pit: Areal extent 200' x 100' Exposed thickness 10'

Lithologic composition (approximate %) 85% sandstone and conglomerate; 5% quartzite
One large boulder 5' diameter of Triassic conglomerate.

Grain size: Maximum 1' most mean 0.5" Est. % of sand 50 Est. % fines 10

Rounding well rounded Grading fair to poor Sorting well sorted

Soil development 1' eolian silt mantle Soil Color brown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Section:

not exposed

Rock type	
Triassic reddish-brown sandstone, conglomerate, siltstone	86
Quartzite	5
Basalt	2
Gneiss	3
Granite	1
Pegmatite	2
Amphibolite	1

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 17, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E13

Location: County Hartford Town Ellington Pit x Active ___ Inactive

Road location 700' S. of Meadow Brook Rd. 500' W. of Rt. 83 Coordinates 394,200 N. 680,000 E.

Geologic unit or occurrence outwash deposits

Textural description sand and gravel Eng. Soil Type SP

Dimensions of deposit: Areal extent 1500' x 800' Estimated thickness 40'

Dimensions of pit: Areal extent 200' x 400' Exposed thickness 15'

Lithologic composition (approximate %) 60% sandstone; 15% gneiss; 15% quartzite

Grain size: Maximum 1' Mean 1" Est. % of sand 85 Est. % fines 5

Rounding well rounded Grading fair to poor Sorting well sorted

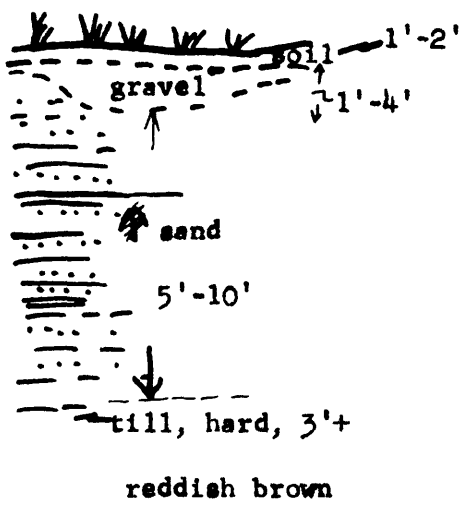
Soil development 1' eolian silt mantle Soil Color brown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate, siltstone	58
Quartzite	14
Gneiss	13
Pegmatite	7
Granite	4
Schist	3
Miscellaneous	1

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 17, 1968

PROJECT Comm. Coop.

Field and megascopic observations:

Station number E14

Location: County Hartford Town Ellington Pit x Active ___ Inactive

Road location 2000' N. of Meadow Brook Rd. 200' E. of Hoffman Rd. Coordinates 698,200 N. 677,000 E.

Geologic unit or occurrence Pitted outwash terrace

Textural description gravel and sand Eng. Soil Type GM-SP

Dimensions of deposit: Areal extent 1000' x 5000' Estimated thickness 50'

Dimensions of pit: Areal extent 100' x 400' Exposed thickness 25'

Lithologic composition (approximate %) 85% sandstone; 5% quartzite

Grain size: Maximum 2' Mean 1" Est. % of sand 60 Est. % fines 10

Rounding well rounded Grading fair to poor Sorting fair to well sorted

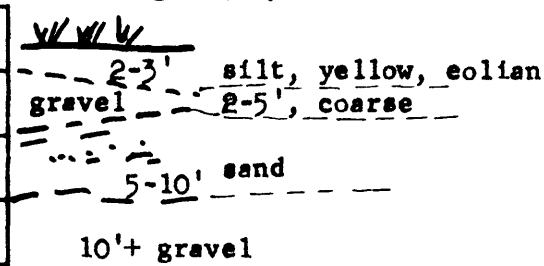
Soil development 1' to 2' eolian mantle Soil Color light yellowish brown

Oxidation or staining iron stained Leaching leached

Secondary deposition calcareous Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate, siltstone	86
Quartzite	6
Gneiss	3
Granite	2
Amphibolie	3

Section:



General Description: Pit is being filled in as town dump. Deposits are well bedded, lenticular, crossbedded, with short lateral continuity. Gravel bed contains mahy cobbles and small boulders.

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 18, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E15

Location: County Hartford Town Ellington Pit x Active ___ Inactive

Road location 600' N. of Hoffman Rd. 400' E. of Egypt Rd. Coordinates 403,500 N. 680,300 E.

Geologic unit or occurrence kame or outwash terrace gravels

Textural description gravel Eng. Soil Type GM-SP

Dimensions of deposit: Areal extent 300' x 600' Estimated thickness 40'

Dimensions of pit: Areal extent 100' x 150' Exposed thickness 20'

Lithologic composition (approximate %) 75% sandstone; 10% gneiss; 5% quartzite

Grain size: Maximum 1.5' Mean 0.3" Est. % of sand 60 Est. % fines 10

Rounding well rounded Grading fair to poor Sorting well to fair

Soil development 1' eolian mantle Soil Color brown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Section:

not exposed

Rock type	
Triassic sandstone, conglomerate, siltstone, etc.	76
Quartzite	5
Basalt	2
Gneiss	12
Granite	1
Amphibolite	1
Pegmatite	2
Miscellaneous	1

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 18, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E16

Location: County Hartford Town Ellington Pit x Active ___ Inactive

Road location 700' S. of Tolland County line 1000' E. of Egypt Rd. Coordinates 406,700 N. 680,100 E.

Geologic unit or occurrence Head of outwash sequence or kame terrace

Textural description sandy gravel Eng. Soil Type GP

Dimensions of deposit: Areal extent 3000' x 1000' Estimated thickness 50'

Dimensions of pit: Areal extent 200' x 300' Exposed thickness 25'

Lithologic composition (approximate %) 80% sandstone; 10% quartzite

Grain size: Maximum 2' Mean 0.3" Est. % of sand 50 Est. % fines 5

Rounding well rounded Grading fair Sorting well sorted

Soil development 1' eolian silt mantle Soil Color light yellowish brown

Oxidation or staining yes Leaching leached

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate	80
Quartzite	10
Gneiss	6
Basalt	2
Amphibolite	1
Pegmatite	1

Section:

slumped and not exposed; trees 4-6" in diameter now growing in pit.

General Description: Pit has degenerated into a trash and target area.

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 18, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E17

Location: County Tolland Town Somers Pit x Active ___ Inactive

Road location 1300' N. of Tolland County line 400' E. of Fields Rd. Coordinates 409,200 N. 679,500 E.

Geologic unit or occurrence kame -- ice contact stratified drift

Textural description sand and gravel Eng. Soil Type GP

Dimensions of deposit: Areal extent 1000' x 1000' Estimated thickness 70'

Dimensions of pit: Areal extent 300' x 200' Exposed thickness 20'

Lithologic composition (approximate %) 65% sandstone; 15% quartzite; 5% gneiss

Grain size: Maximum 3' Mean 0.3" Est. % of sand 80 Est. % fines 5

Rounding large angular blocks to rounded pebbles Sorting poor Sorting fair to good

Soil development 1-2' eolian mantle Soil Color light yellowish brown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate, siltstone	64
Quartzite	17
Basalt	4
Gneiss	6
Granite	1
Pegmatite	7
Miscellaneous	1

Section:

Lenses of gravel and scattered blocks of Triassic sandstone in mostly stratified sand and fine gravel; locally faulted.

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 18, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E18

Location: County Tolland Town Somers Pit x Active / Inactive

Road location 3200' N. of Tolland County line just E. of Fields Rd. Coordinates 410,900 N. 678,800 E.

Geologic unit or occurrence kame--ice contact stratified drift

Textural description sand, little gravel Eng. Soil Type SW-SP

Dimensions of deposit: Areal extent 3000' x 3000' Estimated thickness 50'

Dimensions of pit: Areal extent 100' x 200' Exposed thickness 25'

Lithologic composition (approximate %) 85% sandstone; 5% quartzite

Grain size: Maximum 4" Mean 0.3" Est. % of sand 90 Est. % fines 5

Rounding well rounded Grading poor Sorting well sorted

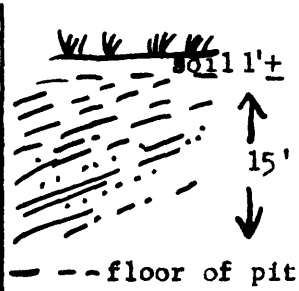
Soil development 1' Soil Color brown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone	87
Quartzite	7
Gneiss	4
Pegmatite	2

Section:



Sand and thin scattered gravel lenses, deltaic; bedding planes dip to S.-S.W.

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 18, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E19

Location: County Tolland Town Somers Pit ~~x~~ Active Inactive

Road location 1800' E. of Field Rd. 200' N. of Billings Rd. Coordinates 412,300 N. 681,500 E.

Geologic unit or occurrence collapsed ice contact stratifed drift

Textural description pebbly sand Eng. Soil Type SW-SP

Dimensions of deposit: Areal extent 500' x 500' Estimated thickness 50'

Dimensions of pit: Areal extent 200' x 100' Exposed thickness 25'

Lithologic composition (approximate %) 75% sandstone; 10% quartzite; 10% gneiss

Grain size: Maximum 1' Mean 0.3" Est. % of sand 60 Est. % fines 5

Rounding well rounded Grading fair to poor Sorting well sorted

Soil development not exposed Soil Color light yellowish gray

Oxidation or staining some Leaching leached

Secondary deposition none Reactive matter none seen

Section:

not exposed

Rock type	
Triassic sandstone	75
Quartzite	9
Gneiss	9
Amphibolite	2
Basalt	3
Granite	2

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 18, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E20

Location: County Tolland Town Somers Pit x Active ___ Inactive

Road location 2000' W. of Rt. 83 400' N. of Billings Rd. Coordinates 412,500 N. 682,300 E.

Geologic unit or occurrence ice contact stratified drift

Textural description gravel Eng. Soil Type GM

Dimensions of deposit: Areal extent 4000' x 3000' Estimated thickness 50'

Dimensions of pit: Areal extent 1000' x 500' Exposed thickness 30'

Lithologic composition (approximate %) 85% sandstone; 10% quartzite

Grain size: Maximum 3' Mean pebble 0.5" Est. % of sand 40 Est. % fines 10

Rounding well rounded Grading fair Sorting poor to well

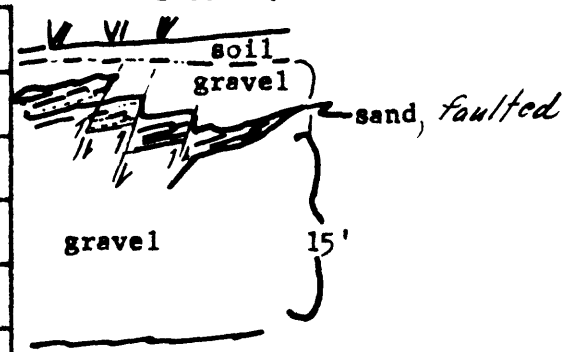
Soil development 1' eolian mantle Soil Color light yellowish brown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate,	
siltstone	83
Quartzite	11
Gneiss	2
Pegmatite	2
Granite	1
Schist	1

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 18, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E21a

Location: County Tolland Town Somers Pit x Active ___ Inactive

Road location 2400' S. of Rt. 190 (20) 100'-600' E. of Rt. 83 Coordinates 417,800 N. 681,800 E.

Geologic unit or occurrence ice contact stratified drift

Textural description gravel overlain by flowtill Eng. Soil Type GW-Gm

Dimensions of deposit: Areal extent 3000' x 2000' Estimated thickness 50'

Dimensions of pit: Areal extent 250' x 600' Exposed thickness 30'

Lithologic composition (approximate %) 45% sandstone; 20% quartzite; 15% gneiss

Grain size: Maximum 10' Mean 1" Est. % of sand 60 Est. % fines 20

Rounding well rounded Grading fair to poor Sorting well to nonsorted

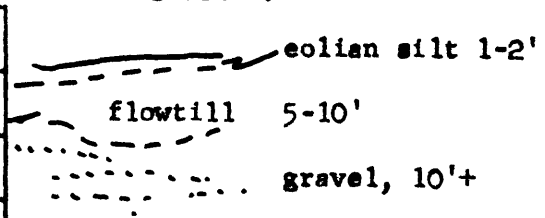
Soil development 1'-3' Soil Color light yellowish brown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone	46
Quartzite	20
Gneiss	16
Pegmatite	6
Schist	5
Amphibolite	3
Miscellaneous	3
Granite	1

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 18, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E21b

Location: County Tolland Town Somers Pit x Active ___ Inactive

Road location 2400' S. of Rt. 190 (20) 100'-600' E. of Rt. 83 Coordinates 417,800 N 681,800 E.

Geologic unit or occurrence Flow till

Textural description till, mixed sizes Eng. Soil Type GC?

Dimensions of deposit: Areal extent 2000' x 1000' Estimated thickness 10-15

Dimensions of pit: Areal extent 250' x 600' Exposed thickness 15'

Lithologic composition (approximate %) 80% sandstone; 10% quartzite

Grain size: Maximum 10' Mean 1" Est. % of sand 70 Est. % fines 10

Rounding angular to subrounded Grading fair Sorting none

Soil development 1-3' Soil Color light yellowish brown

Oxidation or staining some Leaching little

Secondary deposition none seen Reactive matter none seen

Section:

Rock type	
Triassic sandstone, conglomerate,	
siltstone	81
Quartzite	9
Gneiss	5
Basalt	4
Pegmatite	1

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 18, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E22

Location: County Tolland Town Somers Pit x Active ___ Inactive

Road location 1500' N. of Billings Rd. / 1000' W. of Rt. 83 Coordinates 413,200 N. / 683,000 E.

Geologic unit or occurrence ice contact stratified drift

Textural description gravel, fine--medium **Eng. Soil Type** SW-GM

Dimensions of deposit: **Areal extent** 1000' x 2000' **Estimated thickness** 50'

Dimensions of pit: **Areal extent** 200' x 400' **Exposed thickness** 20'

Lithologic composition (approximate %) 85% sandstone; 10% quartzite

Grain size: **Maximum** 6" **Mean** 0.3" **Est. % of sand** 80 **Est. % fines** 5

Rounding well rounded **Grading** fair to poor **Sorting** well sorted

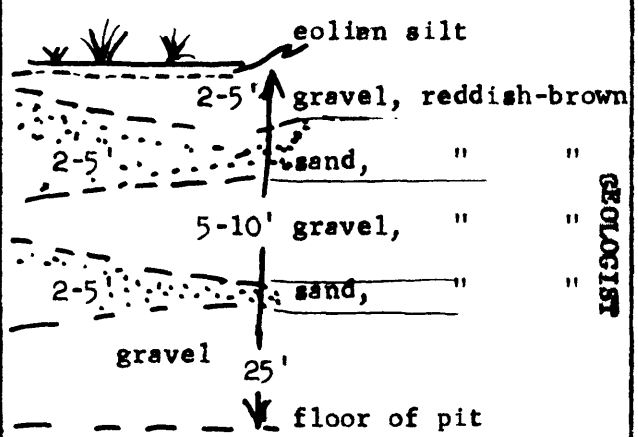
Soil development 2-3' eolian silt mantle **Soil Color** brown

Oxidation or staining some **Leaching** some

Secondary deposition calcareous coating **Reactive matter** none seen

Rock type	
Triassic sandstone,	
conglomerate, siltstone, etc.	85
Quartzite	10
Pegmatite	4
Granite	1

Section:



General Description: strata faulted, folded, and deformed.

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 18, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E23

Location: County Tolland Town Somers Pit ___ Active x Inactive

Road location Just N. of Stebbins Rd. 1500' E. of Rt. 83 Coordinates 423,000 N 683,300 E.

Geologic unit or occurrence ice contact stratified drift

Textural description sand and gravel Eng. Soil Type GP

Dimensions of deposit: Areal extent 1000' x 2000' Estimated thickness 45'

Dimensions of pit: Areal extent 400' x 250' Exposed thickness 15'

Lithologic composition (approximate %) 75% sandstone; 15% quartzite

Grain size: Maximum 10' Mean 0.3" Est. % of sand 60 Est. % fines 20

Rounding well rounded Grading poorly graded Sorting well to moderately ~~well sorted~~

Soil development 6" eolian silt mantle Soil Color light brown

Oxidation or staining some Leaching yes

Secondary deposition none seen Reactive matter none seen

Section:

not exposed

Rock type	
Triassic sandstone,	
conglomerate, siltstone	73
Quartzite	14
Gneiss	6
Basalt	2
Granite	2
Amphibolite	3

General Description: Many large, angular and subrounded boulders scattered around pit.

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 19, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E24

Location: County Tolland Town Somers Pit x Active ___ Inactive

4200' S. of Rt. 190 (20) 415, 800 N.

Road location 1000' W. of Pinney Road Coordinates 671,500 E.

Geologic unit or occurrence ice contact stratified drift

Textural description sand Eng. Soil Type SW

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

Dimensions of pit: Areal extent 100' x 100' Exposed thickness 15'

Lithologic composition (approximate %) 65% sandstone; 15% quartzite

Grain size: Maximum 6' Mean 0.3" Est. % of sand 90 Est. % fines 5

Rounding well rounded Grading poor Sorting well sorted

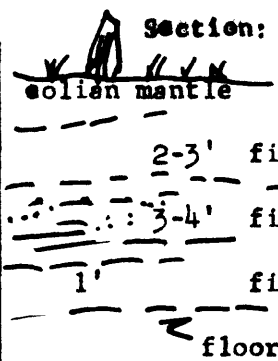
Soil development 2-3' eolian silt mantle Soil Color light yellowish brown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate, siltstone	65
Quartzite	17
Gneiss	6
Basalt	5
Granite	3
Pegmatite	3
Schist	1

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 19, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E25

Location: **County** Tolland **Town** Somers **Pit** x **Active** ___ **Inactive**

Road location 1500' E. of County line 200' N. of Scitico Rd. **Coordinates** 418,300 N. 670,000 E.

Geologic unit or occurrence deltaic glacial gravel

Textural description sandy gravel **Eng. Soil Type** GM

Dimensions of deposit: **Areal extent** 1000' x 300' **Estimated thickness** 20'

Dimensions of pit: **Areal extent** 400' x 200' **Exposed thickness** 10'

Lithologic composition (approximate %) 80% sandstone; 10% quartzite

Grain size: **Maximum** 1' **Mean** 0.3" **Est. % of sand** 30 **Est. % fines** 5

Rounding angular to subrounded **Grading** fair **Sorting** poor to good

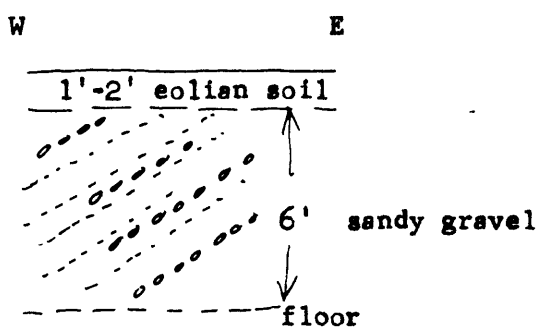
Soil development 1-2' eolian mantle **Soil Color** light brown

Oxidation or staining much due to iron scrap **Leaching** leached

Secondary deposition iron oxide **Reactive matter** none seen

Rock type	
Triassic sandstone,	
conglomerate and siltstone	78
Quartzite	9
Gneiss	4
Basalt	4
Pegmatite	3
Granite	2

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 19, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E26

Location: **County** Tolland **Town** Tolland **Pit** x **Active** ___ **Inactive**

Road location 2600' S. of Rt. 140 just W. of Shenipsit Lake Rd. **Coordinates** 393,000 N. 693,000 E.

Geologic unit or occurrence ice contact stratified drift

Textural description gravel, sandy **Eng. Soil Type** SW-GM

Dimensions of deposit: **Areal extent** 1800' x 1000' **Estimated thickness** 30'

Dimensions of pit: **Areal extent** 100' x 200' **Exposed thickness** 3'

Lithologic composition (approximate %) 50% sandstone; 25% quartzite; 20% gneiss

Grain size: **Maximum** 1.5' **Mean** 1" **Est. % of sand** 80 **Est. % fines** 5

Rounding well rounded **Grading** fair to poor **Sorting** poor to fair

Soil development 1' eolian mantle **Soil Color** light yellowish brown

Oxidation or staining none seen **Leaching** yes

Secondary deposition none seen **Reactive matter** mica flakes

Rock type	
Triassic sandstone,	
conglomerate, siltstone	50
Quartzite	26
Gneiss	18
Schist	3
Granite	2
Pegmatite	1

Section:

not exposed--surface only

bulldozed

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 22, 1968

PROJECT Conn. Co

Field and megascopic observations:

Station number E27

Location: County Tolland Town Tolland Pit x Active ___ Inactive

Road location 800' W. of Rt. 30 800' SW. of Brown's Bridge Rd. Coordinates 388,300 N. 695,800 E.

Geologic unit or occurrence ice contact stratified drift

Textural description gravel, sandy, fine Eng. Soil Type SW

Dimensions of deposit: Areal extent 150' x 250' Estimated thickness 30'

Dimensions of pit: Areal extent 50' x 50' Exposed thickness 10'

Lithologic composition (approximate %) 55% gneiss; 15% pegmatite; 10% sandstone; 10% schist

Grain size: Maximum 3' Mean 0.5" Est. % of sand 90 Est. % fines 5

Rounding subangular well rounded Grading poor Sorting fair to good

Soil development 1-2' eolian mantle Soil Color light yellowish brown

Oxidation or staining little or none Leaching ~~yes~~ leached

Secondary deposition none seen Reactive matter micaceous

Rock type	
Triassic sandstone, conglomerate	11
Quartzite	8
Granite	3
Pegmatite	13
Gneiss	54
Schist	10
Amphibolite	1

Section:

not exposed; pit slumped and trees 1" in diameter are now growing in it.

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 22, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E28

Location: County Tolland Town Tolland Pit x? Active Inactive

1.1 mi. N of 41° 52' 30"

Road location just W. of Green Rd. Coordinates 698,300 E. 385,800 N.

Geologic unit or occurrence ice contact stratified drift

Textural description coarse gravel and sand Eng. Soil Type GM-GW

Dimensions of deposit: Areal extent 500' x 800' Estimated thickness 40'

Dimensions of pit: Areal extent 250' x 100' Exposed thickness 25'

Lithologic composition (approximate %) 45% gneiss; 15% quartzite; 15% pegmatite 10% amphibolite

Grain size: Maximum 3' Mean 1" Est. % of sand 80 Est. % fines 5

Rounding well rounded Grading fair to poor Sorting fair to good

Soil development 1-2' eolian silt mantle Soil Color light yellowish brown

Oxidation or staining some Leaching yes

Secondary deposition none seen Reactive matter micaceous

Section:

slumped; not exposed

Rock type	
Gneiss	46
Quartzite	15
Pegmatite	15
Amphibolite	8
Schist	7
Triassic sandstone	6
Basalt	3

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 22, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E29

Location: County Tolland Town Tolland Pit x Active ___ Inactive

Road location 2000' S. of Bakos Rd. 1600' E. of Hunter Road Coordinates 388,800 N. 699,800 E.

Geologic unit or occurrence ice contact stratified drift

Textural description coarse gravel and sand Eng. Soil Type GW

Dimensions of deposit: Areal extent 500' x 500' Estimated thickness 30'

Dimensions of pit: Areal extent 100' x 200' Exposed thickness 20'

Lithologic composition (approximate %) 35% gneiss; 20% quartzite; 15% pegmatite; 10% Triassic sandstone

Grain size: Maximum 5' Mean 1" Est. % of sand 80 Est. % fines 5

Rounding angular to well rounded Grading fair to poor Sorting good to fair

Soil development 1-2' eolian silt mantle Soil Color light yellowish brown

Oxidation or staining little Leaching yes

Secondary deposition none seen Reactive matter micaceous

Rock type	
Gneiss	34
Schist	11
Quartzite	22
Pegmatite	17
Triassic sandstone	11
Amphibolite	4
Granite	1

Section:

not exposed; pit bulldozed down a hillside and slumped

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 22, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E30

Location: County Hartford Town Ellington Pit x Active Inactive

1800' N. of 41° 52' 30"

Road location 400' W. of Shenipsit Rd. Coordinates 381,700 N. 683,800 E.

(Mtn. St on topo map)

Geologic unit or occurrence esker--icecontact stratified drift

Textural description gravel, pebble Eng. Soil Type GW-GP

Dimensions of deposit: Areal extent 800' x 200' Estimated thickness 40'

Dimensions of pit: Areal extent 50' x 50' Exposed thickness 20'

Lithologic composition (approximate %) 40% sandstone; 30% gneiss; 20% quartzite

Grain size: Maximum 1' Mean 1" Est. % of sand 70 Est. % fines 5

Rounding well rounded Grading fair to poor Sorting poor to well

Soil development 1' eolian silt mantle Soil Color light yellowish brown

Oxidation or staining none seen Leaching yes

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate	39
Gneiss	31
Quartzite	19
Pegmatite	5
Basalt	3
Granite	3

Section:

not exposed; bulldozed flat; north pit is overgrown with trees 1' in diameter

General Description: In late 1940's crest of esker was removed and used for construction of Mountain Road.

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 22, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E31

Location: County Hartford Town Ellington Pit x Active ___ Inactive

Road location 0.5 mi. N. of Brook Rd. 1000' W. of Rt. 83 Coordinates 399,000 N. 679,000 E.

Geologic unit or occurrence outwash

Textural description medium gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 4000' x 2000' Estimated thickness 40'

Dimensions of pit: Areal extent 1000' x 1000' Exposed thickness 20'

Lithologic composition (approximate %) 85% sandstone; 5% gneiss

Grain size: Maximum 8" Mean 1" Est. % of sand 70 Est. % fines 5

Rounding well rounded Grading fair Sorting fair to well sorted

Soil development 1' eolian mantle Soil Color light yellowish brown

Oxidation or staining some Leaching yes

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone	86
Gneiss	5
Quartzite	4
Pegmatite	4
Granite	1

Section:

General Description: Various fresh exposures from one end of pit to the other show remarkable uniformity.

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 22, 1968

PROJECT Comm. Coop.

Field and megascopic observations:

Station number E32

Location: County Hartford Town Ellington Pit x Active ___ Inactive

2000' S. of S. end of Egypt Rd. 679,400 E.

Road location 800' W. of Rt. 83 Coordinates 400,500 N.

Geologic unit or occurrence outwash

Textural description sandy gravel Eng. Soil Type SW

Dimensions of deposit: Areal extent 2000' x 500' Estimated thickness 50'

Dimensions of pit: Areal extent 200' x 100' Exposed thickness 20'

Lithologic composition (approximate %) 90% sandstone; 5% quartzite

Grain size: Maximum 1' Mean 1" Est. % of sand 80 Est. % fines 5

Rounding well rounded Grading fair to poor Sorting well sorted

Soil development 1' eolian mantle Soil Color light yellowish brown

Oxidation or staining some Leaching yes

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate	88
Quartzite	5
Gneiss	5
Granite	1
Basalt	1

Section:

not exposed but probably similar to E31.

General Description:

QUADRANGLE Ellington STATE Connecticut GEOLOGIST R. B. Colton DATE July 22, 1968 PROJECT Conn. Coop.

Field and megascopic observations:

Station number E33

Location: County Hartford Town Ellington Pit x Active ___ Inactive

Road location 200' S. of town line 1100' W. of Rt. 83 Coordinates 681,000 E. 407,700 N

Geologic unit or occurrence kame terrace--ice contact stratified drift

Textural description sandy gravel Eng. Soil Type SW

Dimensions of deposit: Areal extent 2500' x 1000' Estimated thickness 70'

Dimensions of pit: Areal extent 50' x 100' Exposed thickness 30'

Lithologic composition (approximate %) 80% sandstone; 10% quartzite; 10% gneiss

Grain size: Maximum 2' Mean 1" Est. % of sand 75 Est. % fines 5

Rounding well rounded Grading fair to poor Sorting fair to well

Soil development 1' eolian silt mantle Soil Color light yellowish brown

Oxidation or staining some Leaching yes

Secondary deposition none seen Reactive matter none seen

Section:

not exposed

Rock type	
Triassic sandstone, conglomerate	81
Quartzite	9
Gneiss	8
Granite	2

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 22, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E34

Location: County Hartford Town Somers Pit x Active ___ Inactive

Road location 1000' W. of Rt. 83 just N. of Somers town line Coordinates 381,200 E. 388,000 N.

Geologic unit or occurrence kame terrace or ice contact stratified drift

Textural description coarse gravel Eng. Soil Type GC

Dimensions of deposit: Areal extent 1000' x 1000' Estimated thickness 70'

Dimensions of pit: Areal extent 100' x 50' Exposed thickness 25'

Lithologic composition (approximate %) 85% sandstone; 5% gneiss; 5% quartzite

Grain size: Maximum 1' Mean 1" Est. % of sand 70 Est. % fines 5

Rounding well rounded Grading fair to poor Sorting fair to good

Soil development 1' eolian silt mantle Soil Color light yellowish brown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate	87
Quartzite	5
Gneiss	6
Amphibolite	1
Granite	1

Section:

not exposed; pit slumped in and trees 2" in diameter are growing in it.

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 22, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E35

Location: County Tolland Town Somers Pit ~~x~~ Active Inactive

Road location 2000' W. of Somersville mill just S. of Rt. 190 (20) Coordinates 419,300 N. 669,000 E.

Geologic unit or occurrence ice contact stratified drift

Textural description fine gravel, sand Eng. Soil Type SW

Dimensions of deposit: Areal extent 1000' x 1000' Estimated thickness 50'

Dimensions of pit: Areal extent 100' x 200' Exposed thickness 25'

Lithologic composition (approximate %) 83% sandstone; 10% quartzite; 5% gneiss

Grain size: Maximum 2" Mean 0.3" Est. % of sand 85 Est. % fines 5

Rounding well rounded Grading poor Sorting well sorted

Soil development 1-2' eolian silt veneer Soil Color light yellowish brown

Oxidation or staining little Leaching yes

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone	83
Quartzite	10
Gneiss	5
Granite	1
Basalt	1

Section:

Pit slumped and long abandoned; overgrown with trees 6" in diameter.

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 23, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E36

Location: County Tolland Town Somers Pit x Active ___ Inactive

Road location 1200' NE. of Gulf Rd. 800' S. of Rt. 190 (20) Coordinates 418,200 N. 091,000 E.

Geologic unit or occurrence ice contact stratified drift

Textural description sand and fine gravel Eng. Soil Type SW

Dimensions of deposit: Areal extent 2000' x 500' Estimated thickness 70'

Dimensions of pit: Areal extent 300' x 200' Exposed thickness 25'

Lithologic composition (approximate %) 70% sandstone; 15% quartzite; 10% gneiss

Grain size: Maximum 4" Mean 0.5" Est. % of sand 90 Est. % fines 5

Rounding well rounded Grading poorly Sorting well

Soil development 1' eolian silt mantle Soil Color light yellowish brown

Oxidation or staining some Leaching leached

Secondary deposition none seen Reactive matter none seen

Section:

Well bedded sand.

Rock type	
Triassic sandstone, conglomerate, etc.	69
Quartzite	14
Gneiss	12
Pegmatite	3
Basalt	2

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 22, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E37

Location: County Tolland Town Stafford Pit x Active ___ Inactive

Road location 600' E. of Stafford Town line 1600' S. of Rt. 190 (20) Coordinates 694,300 E. 416,500 N.

Geologic unit or occurrence ice contact stratified drift

Textural description sand and gravel Eng. Soil Type SW

Dimensions of deposit: Areal extent 1000' x 500' Estimated thickness 50'

Dimensions of pit: Areal extent 500'+ x 100'+ Exposed thickness 25'

Lithologic composition (approximate %) 60% sandstone; 15% gneiss; 15% quartzite

Grain size: Maximum 4' Mean 0.5" Est. % of sand 90 Est. % fines 5

Rounding angular to subrounded Grading poor to fair Sorting well sorted

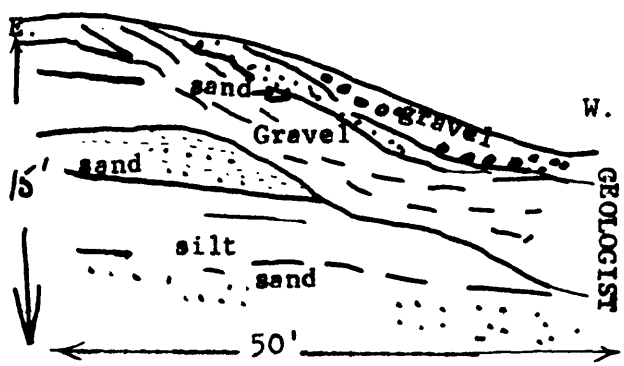
Soil development 1-2' eolian silt mantle Soil Color light yellowish brown

Oxidation or staining little Leaching yes

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone	60
Gneiss	16
Quartzite	14
Granite	4
Pegmatite	3
Schist	2
Basalt	1

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 23, 1968

PROJECT Conn. Coop

Field and megascopic observations:

Station number E38

Location: County Tolland Town Ellington Pit x Active ___ Inactive

Road location 1600' N. of Rt. 140 200' W. of Burbank Rd. Coordinates 400,800 N. 696,200 E.

Geologic unit or occurrence ice contact stratified drift

Textural description sand Eng. Soil Type SW

Dimensions of deposit: Areal extent 500' x 500' Estimated thickness 60'

Dimensions of pit: Areal extent 200' x 100' Exposed thickness 30'

Lithologic composition (approximate %) 50% gneiss; 20% pegmatite; 15% sandstone

Grain size: Maximum 6" Mean 0.3" Est. % of sand 90 Est. % fines 5

Rounding angular to subrounded Grading poor Sorting fair to good

Soil development 1-2' eolian silt veneer Soil Color light brown

Oxidation or staining little Leaching yes

Secondary deposition none seen Reactive matter mica flakes

Section:

not exposed; pit slumped

Rock type	
Triassic sandstone,	
conglomerate, etc.	14
Gneiss	50
Quartzite	11
Pegmatite	22
Basalt	2
Granite	1

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 23, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E39

Location: **County** Hartford **Town** Ellington **Pit** ___ **Active** x **Inactive**

Road location 1200' NW. of Rt. 140 / 600' W. of Rt. 30 **Coordinates** 400,800 N. / 699,300 E.

Geologic unit or occurrence ice contact stratified drift

Textural description pebbly sand **Eng. Soil Type** SW-GW

Dimensions of deposit: **Areal extent** 1000' x 500' **Estimated thickness** 50'

Dimensions of pit: **Areal extent** 500' x 200' **Exposed thickness** 30'

Lithologic composition (approximate %) 40% gneiss; 20% sandstone; 20% quartzite; 15% miscellaneous

Grain size: **Maximum** 6' **Mean** 1" **Est. % of sand** 70 **Est. % fines** 5

Rounding angular to rounded **Grading** poor **Sorting** fair

Soil development 1-2' eolian silt mantle **Soil Color** light brown

Oxidation or staining little **Leaching** ~~yes~~ leached

Secondary deposition none seen **Reactive matter** micaceous

Rock type	
Gneiss	42
Triassic sandstone, conglomerate	21
Quartzite	19
Basalt	7
Amphibolite	5
Pegmatite	5
Granite	1

Section:

not exposed

pit slumped

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 23, 1968

PROJECT Conn.Coop

Field and megascopic observations:

Station number E40

Location: County Hartford Town Ellington Pit ___ Active x Inactive

Road location 4000' E. of Shenipsit Rd. 800' SE. of Rt. 140 Coordinates 397,200 N. 695,700 E.

Geologic unit or occurrence esker--ice contact stratifed drift

Textural description sandy gravel **Eng. Soil Type** GM

Dimensions of deposit: Areal extent 1400' x 200' **Estimated thickness** 30'

Dimensions of pit: Areal extent 100' x 50' **Exposed thickness** 10'

Lithologic composition (approximate %) 60% gneiss; 15% pegmatite; 10% quartzite

Grain size: Maximum 3' **Mean** 1" **Est. % of sand** 70 **Est. % fines** 5

Rounding angular to rounded **Grading** fair to poor **Sorting** poor to good

Soil development 1' eolian silt mantle **Soil Color** light brown

Oxidation or staining little **Leaching** ~~yes~~ leached

Secondary deposition none seen **Reactive matter** none

Rock type	
Gneiss	62
Triassic sandstone, and conglomerate	7
Basalt	1
Quartzite	10
Pegmatite	14
Amphibolite	4
Granite	2

Section:

not exposed; pit bulldozed nearly level

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 23, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E41

Location: County Hartford Town Ellington Pit x Active Inactive

Road location 2000' N. of Rt. 140 / 300' S. of Webster St. Coordinates 398,400 N / 692,300 E.

Geologic unit or occurrence till, sandy gray

Textural description till ("hardpan") - mixed sizing. Soil Type GC

Dimensions of deposit: Areal extent 2000' x 1000' Estimated thickness 40'+

Dimensions of pit: Areal extent 100' x 200' Exposed thickness 20'

Lithologic composition (approximate %) 60% gneiss; 10% sandstone; 10% quartzite 10% pegmatite

Grain size: Maximum 6' Mean sand Est. % of sand 90 Est. % fines 5

Rounding angular to subrounded Grading fair Sorting none

Soil development 1-2' eolian silt mantle Soil Color light grayish brown

Oxidation or staining none seen Leaching ~~yes~~ leached

Secondary deposition none seen Reactive matter none seen

Section:

more than 20' of till

Rock type	
Gneiss	62
Triassic sandstone,	
conglomerate	10
Quartzite	9
Pegmatite	9
Amphibolite	6
Miscellaneous	2
Basalt	1
Granite	1

General Description: bottom of pit very wet

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 23, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E42

Location: County Tolland Town Somers Pit ___ Active x Inactive

Road location 3000' S. of Billings Rd. 1200' W. of Rt. 83 Coordinates 681,500 E. 409,000 N.

Geologic unit or occurrence kame--ice contact stratified drift

Textural description gravel, sandy Eng. Soil Type GW

Dimensions of deposit: Areal extent 1000' x 1500' Estimated thickness 40'

Dimensions of pit: Areal extent 30' x 30' Exposed thickness 5'

Lithologic composition (approximate %) 60% sandstone; 20% gneiss; 10% quartzite

Grain size: Maximum 2' Mean 1" Est. % of sand 70 Est. % fines 5

Rounding well rounded Grading fair to poor Sorting poor to well

Soil development 1' eolian silt mantle Soil Color light brown

Oxidation or staining little Leaching yes

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone,	
conglomerate	61
Gneiss	20
Quartzite	9
Amphibolite	5
Schist	2
Granite	1
Pegmatite	1
Basalt	1

Section:

not exposed

pit walls slumped

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 23, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E43

Location: County Tolland Town Somers Pit x Active ___ Inactive

Road location 3000' N. of Billings Rd. 400' E. of Fields Rd. Coordinates 415,800 N. 680,800 E.

Geologic unit or occurrence outwash

Textural description sand and gravel Eng. Soil Type SW

Dimensions of deposit: Areal extent 2000' x 2000' Estimated thickness 50'+

Dimensions of pit: Areal extent 200' x 400' Exposed thickness 20'

Lithologic composition (approximate %) 60% sandstone; 15% quartzite; 10% gneiss; 10% pegmatite

Grain size: Maximum 2' Mean 1" Est. % of sand 85 Est. % fines 5

Rounding well rounded Grading poor Sorting well sorted

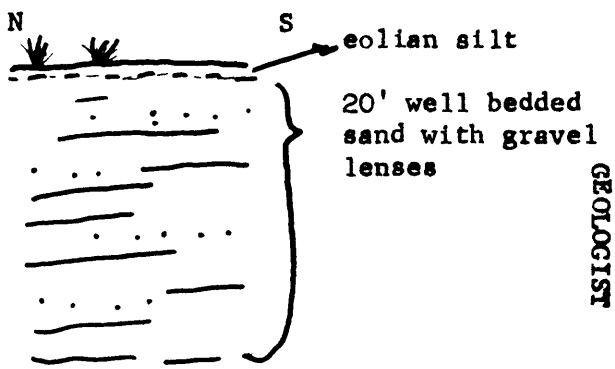
Soil development 1-2' eolian silt mantle Soil Color light brown

Oxidation or staining none seen Leaching ~~yes~~ leached

Secondary deposition none Reactive matter none seen

Rock type	
Triassic sandstone	62
Quartzite	14
Gneiss	11
Pegmatite	10
Schist	1
Granite	1
Amphibolite	1

Section:



General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 23, 1968

PROJECT Comm. Coop.

Field and megascopic observations:

Station number E44

Location: County Tolland Town Somers Pit ___ Active x Inactive

Road location 400' E. of Hall Hill Rd. 2400' N. of Rt. 190 (20) Coordinates 422,000 N. 672,500 E.

Geologic unit or occurrence ice contact stratified drift

Textural description gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 2000' x 1000' Estimated thickness 40'

Dimensions of pit: Areal extent 400' x 600' Exposed thickness 10'

Lithologic composition (approximate %) 80% sandstone; 10% gneiss; 10% quartzite

Grain size: Maximum 8" Mean 0.3" Est. % of sand 70 Est. % fines 5

Rounding well rounded Grading fair to poor Sorting well to fair

Soil development 1' eolian silt mantle Soil Color light brown

Oxidation or staining none seen Leaching ~~yes~~ leached

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate	82
Quartzite	10
Gneiss	7
Basalt	1

Section:

not exposed; pit not used for many years and trees 1' in diameter are growing on floor of pit.

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 23, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E45

Location: County Tolland Town Somers Pit ___ Active x Inactive

Road location 800' E. of 72° 30' 200' E. of Shaker Rd. Coordinates 668,500 E. 423,600 N.

Geologic unit or occurrence ice contact stratified drift

Textural description sandy gravel Eng. Soil Type GM

Dimensions of deposit: Areal extent 1000' x 2000' Estimated thickness 30'

Dimensions of pit: Areal extent 100' x 200' Exposed thickness 10'

Lithologic composition (approximate %) 90% sandstone; 5% quartzite

Grain size: Maximum 2' Mean 1" Est. % of sand 60 Est. % fines 10

Rounding angular to rounded Grading fair to poor Sorting good to poor

Soil development 1-2' eolian silt mantle Soil Color light brown

Oxidation or staining little Leaching ~~yes~~ leached

Secondary deposition little seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate	89
Quartzite	6
Basalt	2
Gneiss	1
Granite	1
Pegmatite	1

Section:

not exposed; pit very old and slumped; overgrown with trees 8" in diameter.

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 24, 1968

PROJECT Comm. Coop.

Field and megascopic observations:

Station number E46

Location: County Tolland Town Somers Pit x Active / Inactive

Road location 200' E. of 72°30' 800' NE. of Shaker Rd. Coordinates 668,200 E. 424,400 N.

Geologic unit or occurrence outwash

Textural description gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 1000' x 1000' Estimated thickness 25'

Dimensions of pit: Areal extent 350' x 100' Exposed thickness 5'

Lithologic composition (approximate %) 80% sandstone; 10% quartzite

Grain size: Maximum 8" Mean 1" Est. % of sand 70 Est. % fines 5

Rounding well rounded Grading fair to poor Sorting fair to good

Soil development 1-2' eolian silt mantle Soil Color light brown

Oxidation or staining none seen Leaching ~~yes~~ leached

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate	81
Quartzite	8
Basalt	3
Pegmatite	3
Gneiss	3
Granite	1
Amphibolite	1

Section:

not exposed; pit walls slumped; trees several inches in diameter growing in pit.

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 24, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E47

Location: County Tolland Town Somers Pit ___ Active x Inactive

Road location 3000' N. of Rt. 190 (20) 400' E. of Shaker Rd. Coordinates 422,800 N. 669,800 E.

Geologic unit or occurrence ice contact stratified drift

Textural description sand Eng. Soil Type SW

Dimensions of deposit: Areal extent 1000' x 2000' Estimated thickness 35'

Dimensions of pit: Areal extent 100' x 200' Exposed thickness 15'

Lithologic composition (approximate %) 75% sandstone; 15% quartzite

Grain size: Maximum 2" Mean sand sized Est. % of sand 90 Est. % fines 5

Rounding rounded Grading poor Sorting well sorted

Soil development 1-2' eolian silt mantle Soil Color light brown

Oxidation or staining none seen Leaching yes

Secondary deposition some seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate	75
Quartzite	15
Pegmatite	4
Basalt	3
Granite	3

Section:

stratified sand with very little fine gravel in thin lenticular beds.

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 24, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E48

Location: County Tolland Town Somers Pit ___ Active x Inactive

Road location 700' S. of 42 800' W. of Hall Hill Rd. Coordinates 424,500 N. 670,400 E.

Geologic unit or occurrence till on side of drumlin

Textural description "hardpan" or "boulder clay" Eng. Soil Type GC

Dimensions of deposit: Areal extent 2000' x 2000' Estimated thickness 80'

Dimensions of pit: Areal extent 300' x 200' Exposed thickness 35'

Lithologic composition (approximate %) 80% sandstone; 10% quartzite

Grain size: Maximum 6' Mean 1" Est. % of sand 60 Est. % fines 20

Rounding angular to well rounded Grading well graded Sorting nonsorted

Soil development 1-2' eolian silt mantle Soil color light yellowish brown

Oxidation or staining little Leaching ~~yes~~ leached

Secondary deposition some Reactive matter none seen

Section: till

Rock type	
Triassic sandstone, conglomerate	79
Quartzite	11
Gneiss	7
Basalt	2
Pegmatite	1

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 24, 1968

PROJECT Comm. Coop.

Field and megascopic observations:

Station number E49

Location: County Tolland Town Somers Pit ___ Active x Inactive

1600' N. of Rt. 190(20) 421,500 N.

Road location just NW. of Battle St. Coordinates 684,500 E.

Geologic unit or occurrence outwash

Textural description sand and gravel Eng. Soil Type SW

Dimensions of deposit: Areal extent 3500' x 3500' Estimated thickness 40'

Dimensions of pit: Areal extent 300' x 300' Exposed thickness 20'

Lithologic composition (approximate %) 60% sandstone; 20% gneiss; 15% quartzite

Grain size: Maximum 8' Mean 1" Est. % of sand 75 Est. % fines 5

Rounding well rounded except large angular blocks Grading poor Sorting fair

Soil development 1-2' eolian silt veneer Soil Color light yellowish brown

Oxidation or staining little Leaching ~~yes~~, leached

Secondary deposition none seen Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate	59
Gneiss	17
Quartzite	15
Pegmatite	7
Basalt	1
Granite	1

Section:

not exposed; pit walls slumped; trees 3" in diameter growing in pit.

General Description: Street sweepings, etc. now being dumped in center of pit.

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 24, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E50

Location: County Tolland Town Somers Pit x Active ___ Inactive

500' E. of Florida Rd. 424,000 N.

Road location 1000' S. of 42 Coordinates 684,000 E.

Geologic unit or occurrence ice contact stratified drift--probably an esker

Textural description very coarse gravel Eng. Soil Type GW

Dimensions of deposit: Areal extent 1000' x 1000' Estimated thickness 60'

Dimensions of pit: Areal extent 400' x 300' Exposed thickness 25'

Lithologic composition (approximate %) 50% sandstone; 15% gneiss; 15% quartzite

Grain size: Maximum 3' Mean 3" Est. % of sand 50 Est. % fines 5

Rounding well rounded to angular Grading fair Sorting very poor

Soil development 1-3' eolian silt mantle Soil Color light yellowish brown

Oxidation or staining some Leaching ~~yes~~ leached

Secondary deposition some Reactive matter some

Rock type	
Triassic sandstone, conglomerate	50
Gneiss	16
Quartzite	15
Miscellaneous rocks	7
Pegmatite	5
Granite	4
Basalt	2
Schist	1

Section:

all very coarse, rudely bedded gravel containing lenses of sand.

General Description: Pit contains many cubic yards of boulders left from previous operations.

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 24, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E51

Location: County Tolland Town Somers Pit x Active / Inactive

Road location 1600' E. of Rt. 83 / 1200' S. of Rt. 190(20) Coordinates 683,800 E. / 418,600 N.

Geologic unit or occurrence ice contact stratified drift

Textural description gravel, medium Eng. Soil Type GM

Dimensions of deposit: Areal extent 1000' x 1000' Estimated thickness 60'

Dimensions of pit: Areal extent 200' x 200' Exposed thickness 30'

Lithologic composition (approximate %) 60% sandstone; 25% gneiss; 10% quartzite

Grain size: Maximum 2' Mean 1" Est. % of sand 70 Est. % fines 5

Rounding well rounded Grading fair Sorting fair to good

Soil development 1-2' eolian silt mantle Soil Color light yellowish brown

Oxidation or staining some Leaching ~~yes~~ leached

Secondary deposition some Reactive matter none seen

Rock type	
Triassic sandstone, conglomerate	60
Quartzite	9
Gneiss	24
Pegmatite	5
Granite	2

Section:

horizontally bedded gravel with interbedded sand; most beds 6" to 1' thick; lenticular

General Description:

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE July 24, 1968

PROJECT Conn. Coop.

Field and megascopic observations:

Station number E52

Location: County Tolland Town Stafford Pit ✓ Active / Inactive

Road location 700' E. of Springfield Rd. Coordinates 421,500 N. 701,300 E.

Geologic unit or occurrence esker or ice channel filling

Textural description cobble gravel Eng. Soil Type GP

Dimensions of deposit: Areal extent 250 x 71 mi. Estimated thickness 30' max. 20 ft. max. E. side

Dimensions of pit: Areal extent 25,000 sq.ft. Exposed thickness 5 ft. W. side

Lithologic composition (approximate %) 60% gneiss; 23% pegmatite; 7% amphibolite; 6% quartzite.

Grain size: Maximum 3' max. Mean sand-sized Est. % of sand 60 Est. % fines 2

Rounding rounded to subangular Grading poorly to well graded Sorting poorly sorted

Soil development 1-2' eolian silt mantle Soil Color grayish orange

Oxidation or staining very little Leaching none seen

Secondary deposition none seen Reactive matter organic

Rock type	
Gneiss	60
Pegmatite	23
Amphibolite	7
Quartzite	6
Granite	2
Triassic sandstone	1
Unknown	1

Section:

Pit trends parallel to channel filling. Crest on west side and original surface pitches steeply to east. Hence difference of 15' in thickness west side to east side.

General Description: Unsorted unbedded esker deposit of sand and gravel. Little fine-grained material. Much sand.

Triassic clasts compose 2-3% but pebbles and cobbles are chiefly of Monson Gneiss and Ammonoosuc Amphibolite.

QUADRANGLE Ellington

STATE Connecticut

GEOLOGIST R. B. Colton

DATE Nov. 8, 1968

PROJECT Conn. Coop.