
**ESKER RESEARCH STUDY
SAMPLING AND TESTING OF
LAC DE GRAS AREA, N.W.T.**

MARCH, 1995



0701-94-11546

EBA Engineering Consultants Ltd.

March 24, 1995

Indian and Northern Affairs Canada
Les Terraces de la Chaudiere
Ottawa, ON K1A 0H4

INAC File: 038ST.A7134-4-0013
EBA File: 0701-94-11546

Attention: Mr. Robert J. Gowan
Geotechnical Advisor
Natural Resources and Economic Development

Dear Sir:

Subject: **Final Report for the Esker Research Study
Sampling and Testing of Lac De Gras Area, NWT**

EBA Engineering Consultants Ltd. (EBA) is pleased to submit the results from the Esker Research Study. As outlined in the amended proposal of January 31, 1995, EBA conducted 196 sieve analyses and 20 hydrometer analyses on samples that contained more than 10 percent fines. Testing was conducted in accordance with the relevant ASTM or CSA procedures described in the manual prepared by EBA for Indian and Northern Affairs Canada (INAC). Fifteen copies of the manual entitled "Esker Sampling Manual" have been submitted under a separate cover.

Particle size analysis graphs can be found in Appendix B while the hydrometer analyses are available in Appendix C.

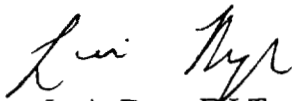
Two disks containing the results from the study are enclosed in Appendix D. On each disk there are two files, **ESKER.XLS** contains an excel spreadsheet of compiled data for the sieve analyses and **EXCEL.TXT** contains the same compiled data in an information text file.

This report has been prepared for the exclusive use of INAC and its designated representatives. Testing has been prepared in accordance with generally accepted soil and engineering practices. No other warranty is made, either expressed or implied. Reference should be made to the General Conditions in Appendix A of this report for further limitations.

We trust that this data report satisfies your present requirements. EBA would be pleased to provide any further information that may be required. Please contact the undersigned should you require additional information.

Yours truly,

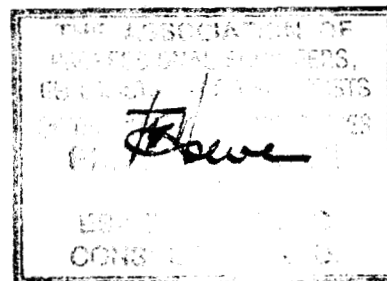
EBA ENGINEERING CONSULTANTS LTD.


L. A. Dyer, E.I.T.
Project Engineer

Reviewed by:



T. E. Hoeve, P. Eng.
Project Director, N.W.T.



LAD/rsr/11546RG.LTR

Attachments

APPENDIX A
GENERAL CONDITIONS

EBA ENGINEERING CONSULTANTS LTD.
GEOTECHNICAL REPORT
GENERAL CONDITIONS

A.1 USE OF REPORT AND OWNERSHIP

This geotechnical report pertains to a specific site and development. It is not applicable to adjacent sites nor is it valid for types of development other than that to which it refers. Any variation from the site, or development, necessitates a geotechnical review in order to determine the validity of the design concepts evolved herein.

This report is not to be reproduced in part or in whole without consent in writing from EBA Engineering Consultants Ltd. (EBA). Additional copies of the report, if required, may be obtained upon request. Isolated information, logs of borings, or profiles are not to be reproduced, copied or transferred.

A.2 NATURE AND EXACTNESS OF SOIL DESCRIPTION

Classification and identification of soils are based upon commonly accepted methods employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system prevail, they are specifically mentioned.

Classification and identification of soil and geologic units are judgmental in nature as to both type and condition. EBA does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

A.3 LOGS OF BORINGS

The boring logs are a compilation of conditions and classification of soils as obtained from field observations and laboratory testing of selected samples. Soil zones have been interpreted. Change from one geologic zone to the other, indicated on the logs as a distinct line, is in fact, transitional. The extent of transition is interpretive. Any circumstance which requires precise definition of soil zone transition elevations may require special evaluation.

A.4 STRATIGRAPHIC AND GEOLOGIC SECTIONS

The stratigraphic and geologic sections indicated on drawings contained in this report are evolved from logs of borings. Stratigraphy is known precisely only at the locations of the borings. Actual geology and stratigraphy between borings may vary from that shown on these drawings. Natural variations in geologic conditions are inherent and a function of historic environment. EBA does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of exact locations of geologic units is necessary, it is cautioned that such determination requires special attention.

A.5 GROUNDWATER CONDITIONS

Groundwater conditions represented in this report refer only to those observed at the times recorded on logs of borings, and/or within the text of this report. These conditions vary with geologic detail between borings; annual, seasonal and special meteorologic conditions; and with construction activity. Where instruments have been established to record groundwater variations on an ongoing basis, the records will be specifically referred to. Interpretation of groundwater conditions from observations and records is judgmental and constitutes an evaluation of circumstances as influenced by geology, meteorology and construction activity. Deviations from these observations, may occur. No other warranty, express, or implied, is made by EBA.

A.6 PROTECTION OF EXPOSED GROUND

Excavation and construction operations expose geologic materials to meteorological elements. Many geologic materials deteriorate rapidly upon exposure to climatic elements. Severe deterioration of materials may be caused by precipitation and/or the action of frost on exposures. Unless otherwise specifically indicated in this report, walls and floors of excavations must be protected from elements, particularly all forms of moisture, desiccation from arid conditions and frost action.

A.7 SUPPORT OF ADJACENT GROUND AND STRUCTURES

Unless otherwise advised, support of excavation walls, ground adjacent to anticipated construction activity and of structures adjacent to the construction, must be provided. The support of ground and structures adjacent to the anticipated construction, with preservation of adjacent ground and structures from the adverse impact of construction activity, is therefore required.

A.8 INFLUENCE OF CONSTRUCTION ACTIVITY

There is a direct correlation between construction activity and adjacent structural performance. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques are known. EBA provides no warranty in respect to adverse circumstances resulting from construction activity.

A.9 OBSERVATIONS DURING CONSTRUCTION

Because of the nature of geologic deposits, the judgmental character of the art of soil and foundation engineering, as well the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations then may serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein to the benefit of the project.

A.10 DRAINAGE SYSTEMS

Where drainage systems are installed within or around a structure, the systems which will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective drainage systems are required and that they must be considered in relation to project purpose and function.

A.11 BEARING CAPACITY

Design bearing capacities, loads and allowable stresses quoted in this report relate to a specific soil type and soil condition. Construction activity and environmental circumstances can materially change a soil condition. The elevation at which a soil type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geologic materials of the type and in the condition assumed. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil conditions assumed in this report exist in fact.

A.12 SAMPLES

EBA will retain all soil and rock samples for 30 days. Further storage or transfer of samples can be made at owner expense upon written request.

A.13 STANDARD OF CARE

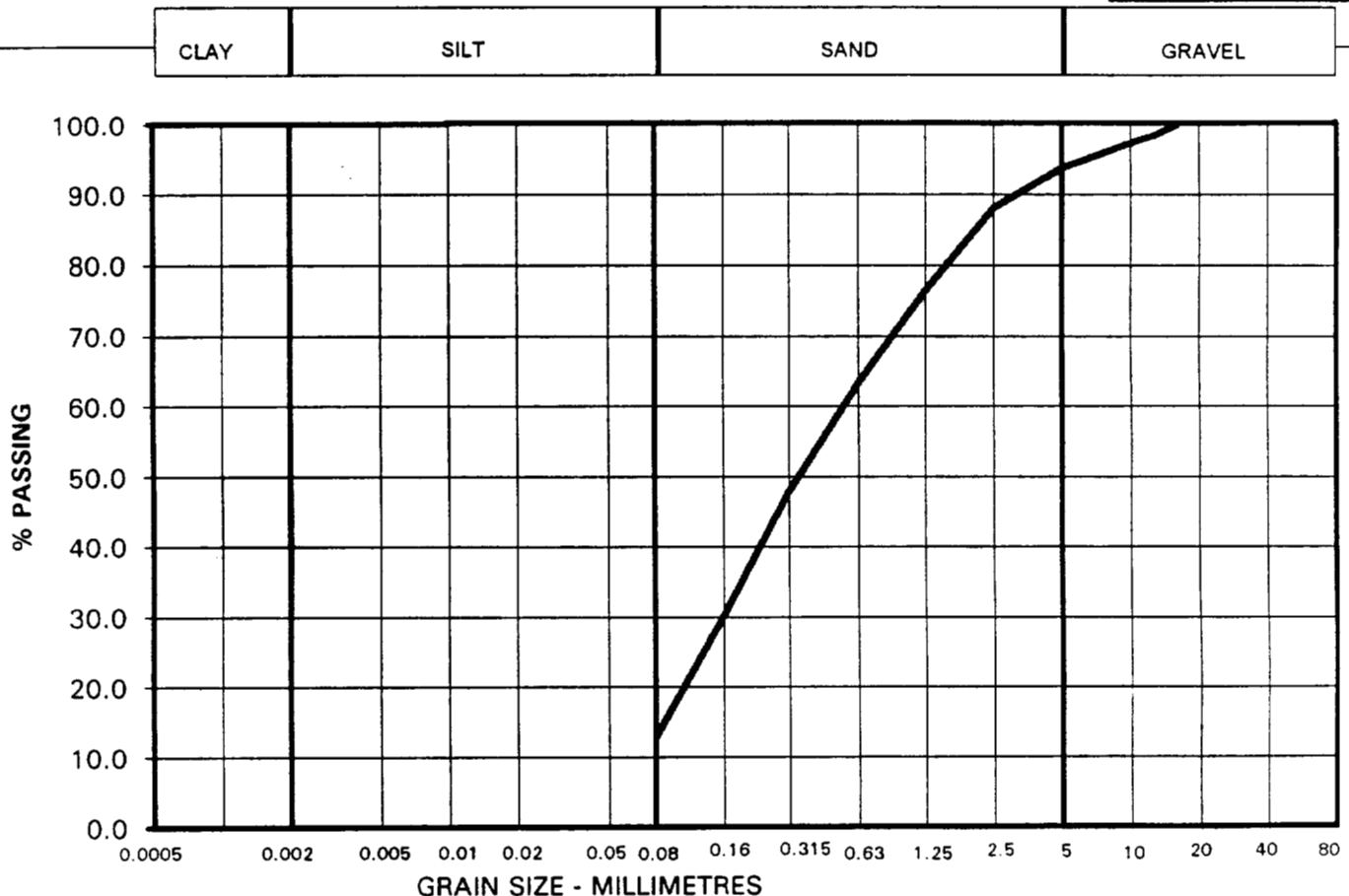
Services performed by EBA for this report are conducted in a manner consistent with that level and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranty, express or implied, is made.

APPENDIX B
PARTICLE SIZE ANALYSIS GRAPHS

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 15 BY: ht EBA Eng.
 TESTPIT NO: d1d
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SM - ML), some silt, trace gravel, trace organics
fine-grained, uniform, subrounded, brown
 Cu: _____ Cc: _____
 WATER CONTENT: 2.4%
 TOTAL MASS: 4997 Grams
 REMARKS: _____

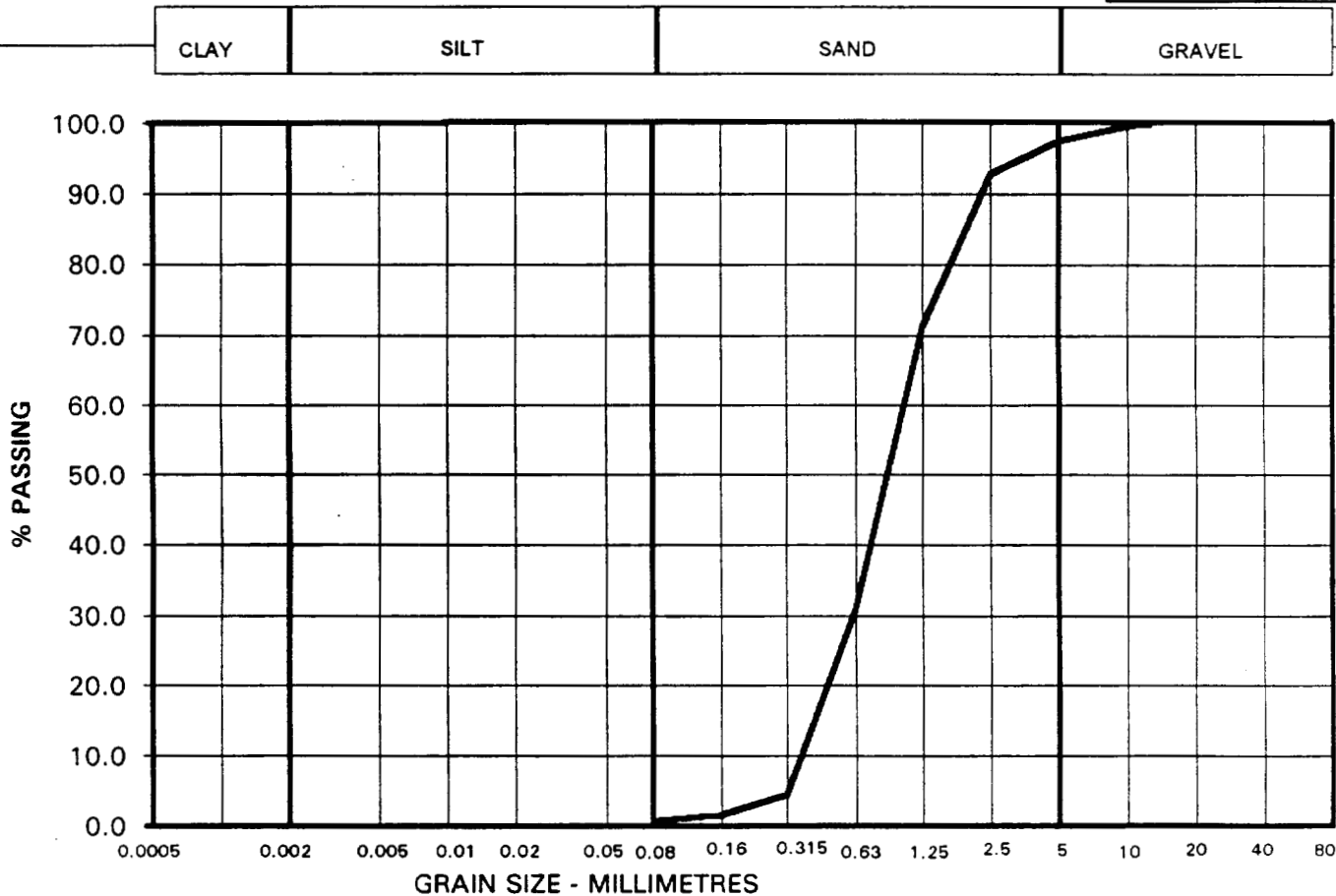
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	98
10	97
5	94
2.5	88
1.25	76
0.63	63
0.315	48
0.16	30
0.08	12.8



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 15 BY: tj EBA Eng.
 TESTPIT NO: D1G/C
 DEPTH: 0.15 - 1.0
 SOIL DESCRIPTION SAND(SP), trace gravel, trace organics
coarse-grained, uniform, brown
 Cu: 2.8 Cc: 1.0
 WATER CONTENT: 9.4%
 TOTAL MASS: 3890 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	100
5	97
2.5	93
1.25	71
0.63	31
0.315	4
0.16	2
0.08	0.7



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 15 BY: ht EBA Eng.
 TESTPIT NO: d2d
 DEPTH: 0.15 - 0.80
 SOIL DESCRIPTION SAND(SP), trace silt, trace gravel,
uniform, medium-grained, brown
 Cu: 4.2 Cc: 1.0
 WATER CONTENT: 6.0%
 TOTAL MASS: 5064 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	98
12.5	98
10	98
5	97
2.5	95
1.25	82
0.63	70
0.315	50
0.16	15
0.08	6.7



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 15 BY: ht EBA Eng.
 TESTPIT NO: d2G/C
 DEPTH: 0.10 - 0.70
 SOIL DESCRIPTION SAND and GRAVEL(SP-GP), trace silt
subrounded, brown

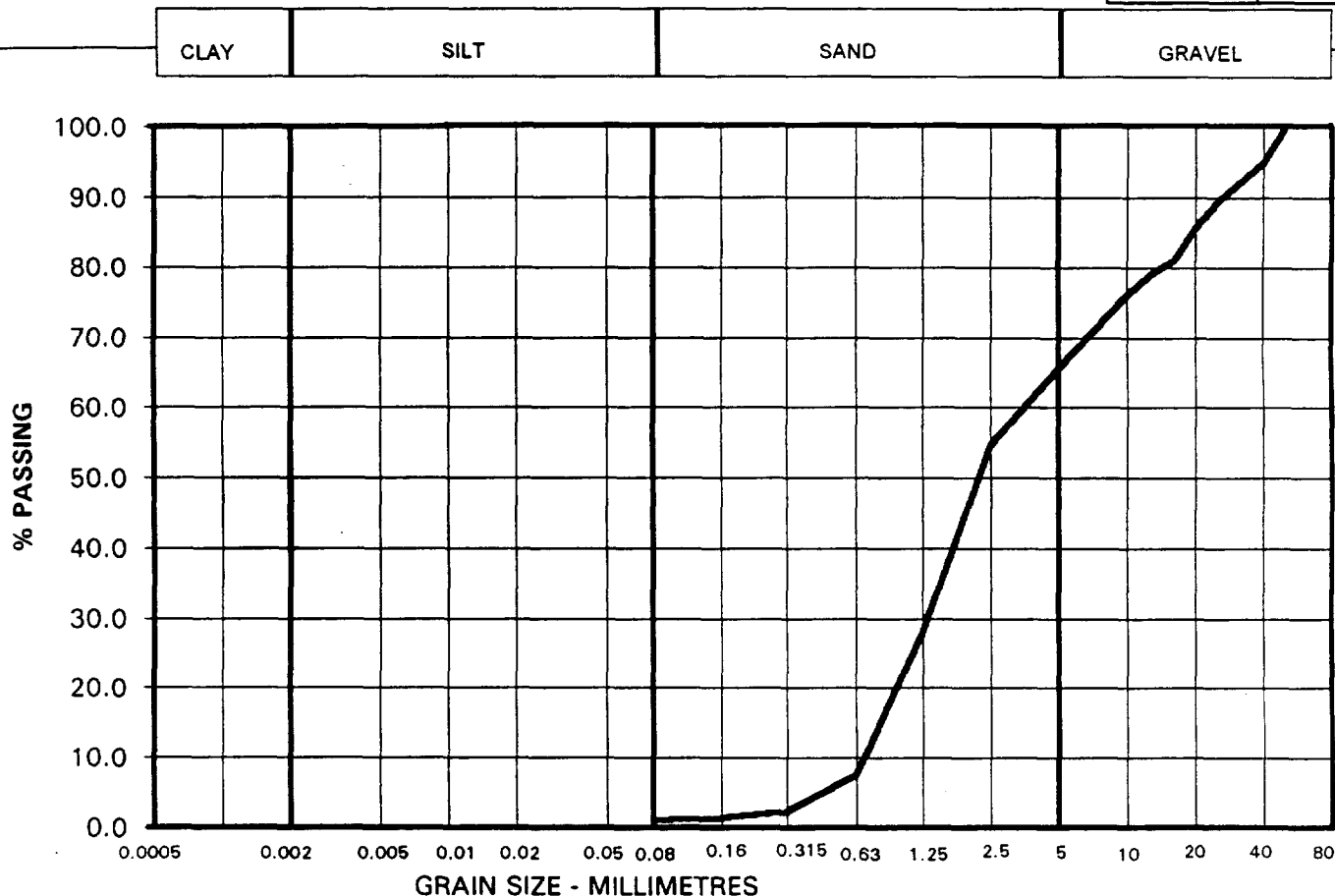
Cu: 3.2 Cc: 0.5

WATER CONTENT: 11.8%

TOTAL MASS: 10900 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	95
25	90
20	86
16	81
12.5	79
10	76
5	66
2.5	55
1.25	28
0.63	8
0.315	2
0.16	1
0.08	1.0



PARTICLE - SIZE ANALYSIS OF SOILS

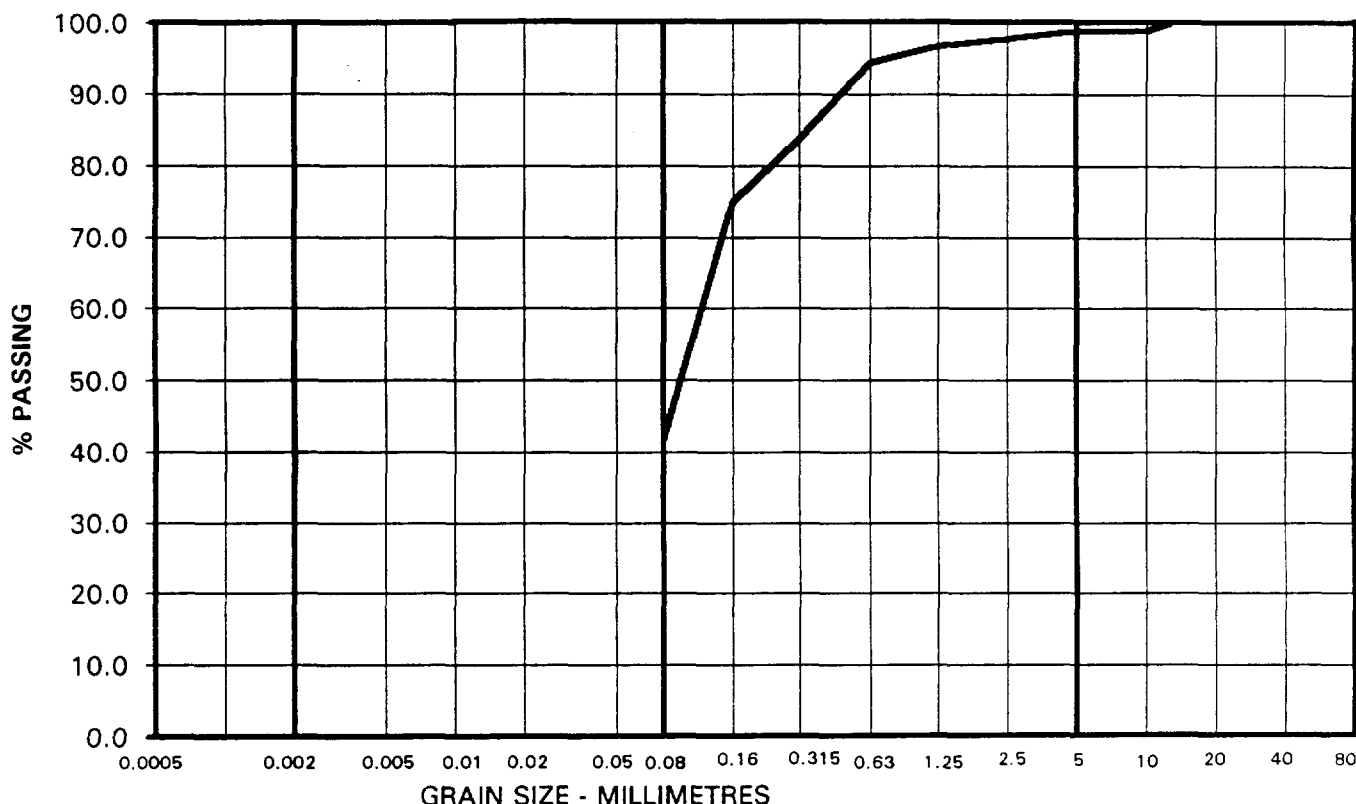
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 28 BY: ht EBA Eng.
 TESTPIT NO: d3d
 DEPTH: 0.15 - 0.80
 SOIL DESCRIPTION SAND and SILT(SM - ML), silty, trace gravel,
subrounded, brown

Cu: _____ Cc: _____
 WATER CONTENT: 6.4%
 TOTAL MASS: 5233 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	99
5	99
2.5	98
1.25	97
0.63	94
0.315	84
0.16	75
0.08	41.8

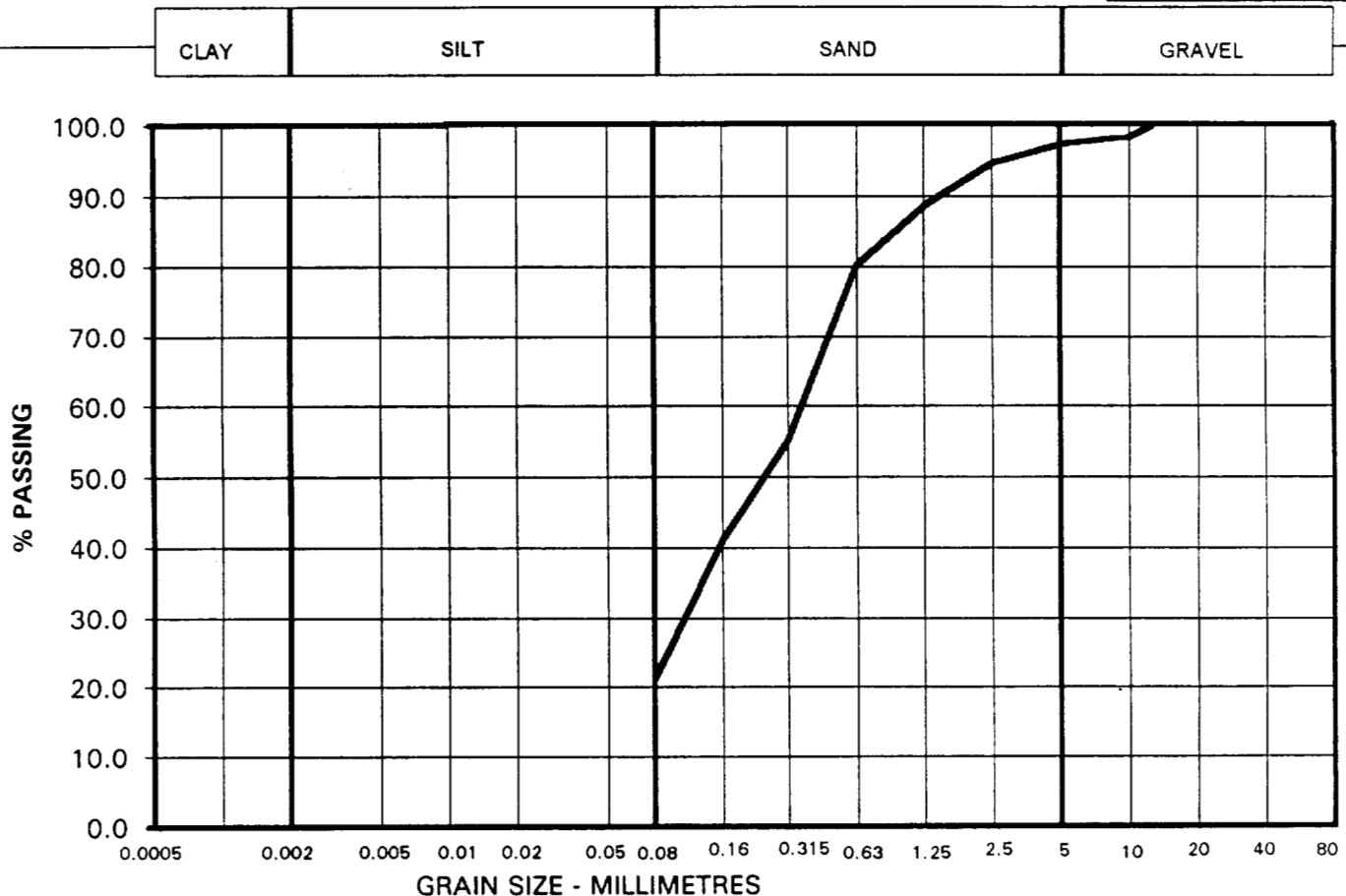
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 16 BY: tj EBA Eng.
 TESTPIT NO: d4d
 DEPTH: 0.2 - 0.8
 SOIL DESCRIPTION SAND(SM), silty, trace gravel, trace organics,
fine - med grained, subrounded, brown
 Cu: _____ Cc: _____
 WATER CONTENT: 7.2%
 TOTAL MASS: 3390 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	99
5	97
2.5	95
1.25	89
0.63	80
0.315	55
0.16	41
0.08	21.2



PARTICLE - SIZE ANALYSIS OF SOILS

SIEVE	PERCENT
SIZE	PASSING
75	100
50	95
40	89
25	78
20	76
16	72
12.5	70
10	68
5	64
2.5	57
1.25	44
0.63	29
0.315	16
0.16	14
0.08	10.8

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 16 BY: htEBA Eng.

TESTPIT NO: d4gc

DEPTH: 0.15 - 1.0

SOIL DESCRIPTION SAND and GRAVEL(SM - GM), some silt,

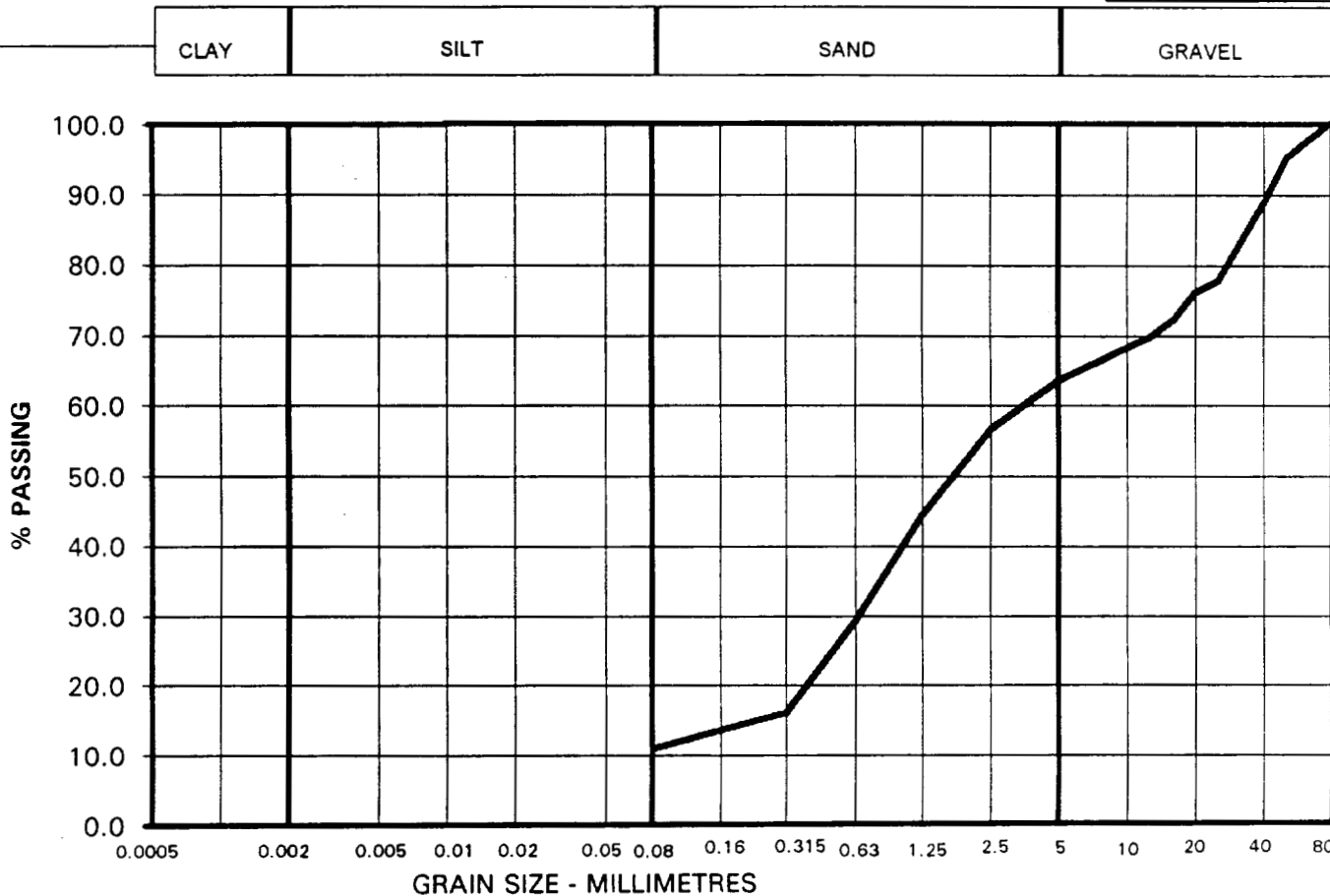
trace organics, subrounded, light brown

Cu: _____ Cc: _____

WATER CONTENT: 6.0%

TOTAL MASS: 6556 Grams

REMARKS: _____



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 14 BY: ht EBA Eng.
 TESTPIT NO: d5d
 DEPTH: 0.15 - 0.80
 SOIL DESCRIPTION SAND and SILT(SM - ML), trace gravel trace organics,
fine-grained, uniform, subrounded, brown.

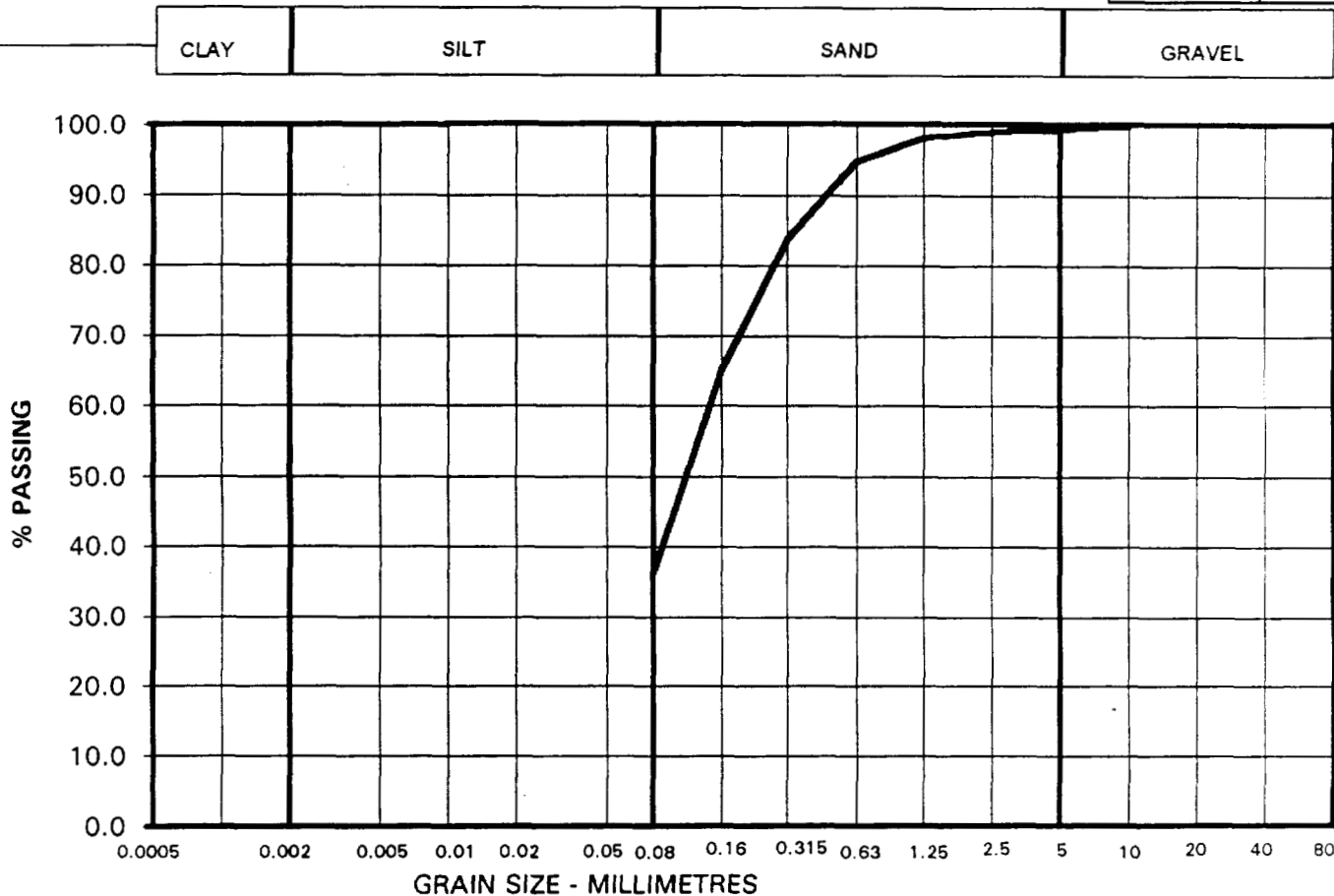
Cu: _____ Cc: _____

WATER CONTENT: 11.9%

TOTAL MASS: 5192 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	99
1.25	98
0.63	95
0.315	84
0.16	65
0.08	36.2



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 16 BY: htEBA Eng.
 TESTPIT NO: d5gc
 DEPTH: 0.2 - 1.0
 SOIL DESCRIPTION SAND(SM), some silt, trace gravel
subrounded, brown

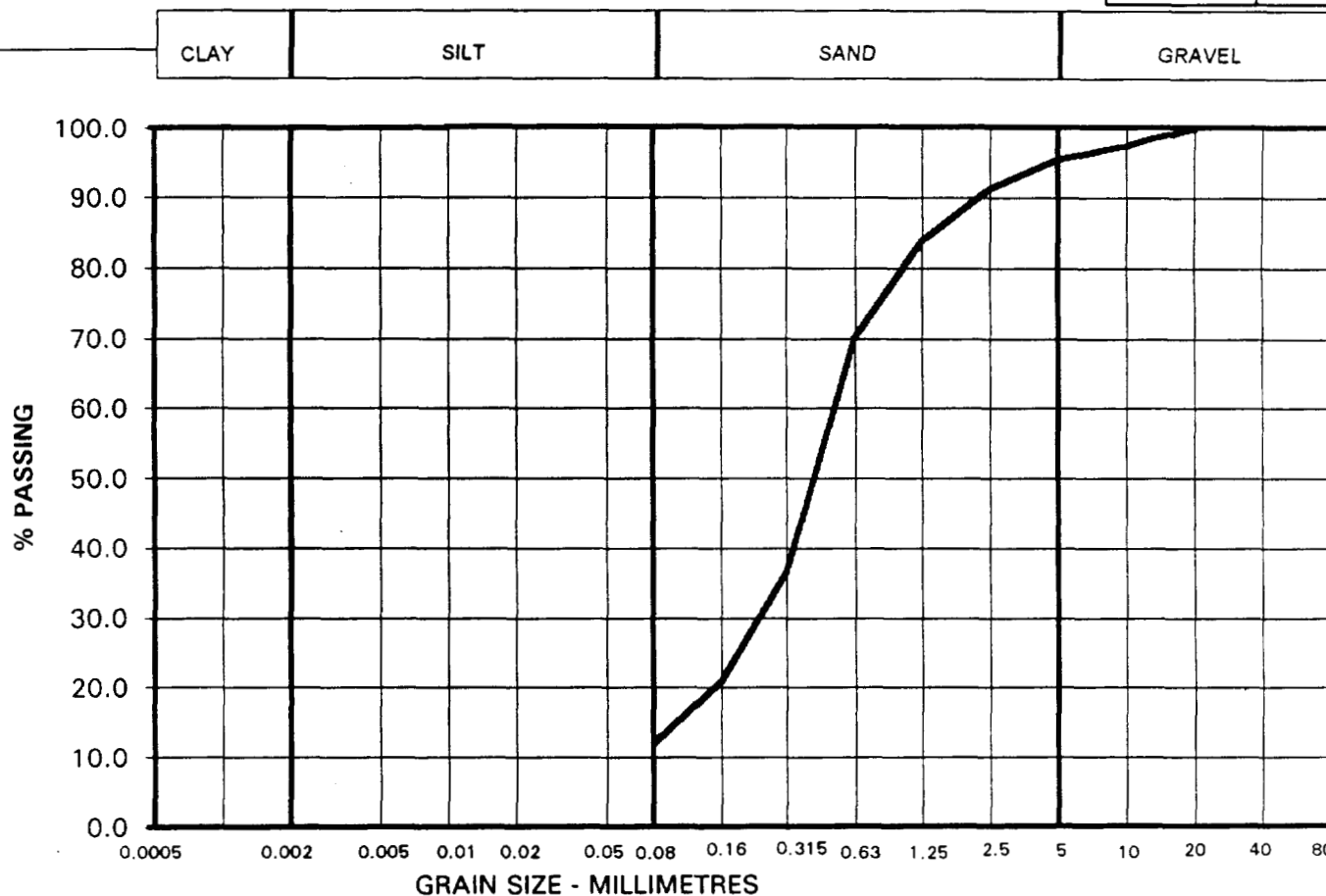
Cu: _____ Cc: _____

WATER CONTENT: 14.1%

TOTAL MASS: 4339 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	99
12.5	99
10	98
5	96
2.5	91
1.25	84
0.63	70
0.315	37
0.16	21
0.08	11.9



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 15 BY: ht EBA Eng.
 TESTPIT NO: d6d
 DEPTH: 0.15 - 0.90
 SOIL DESCRIPTION SAND and SILT(SM - ML),
very fine-grained, uniform, light brown.

Cu: _____ Cc: _____

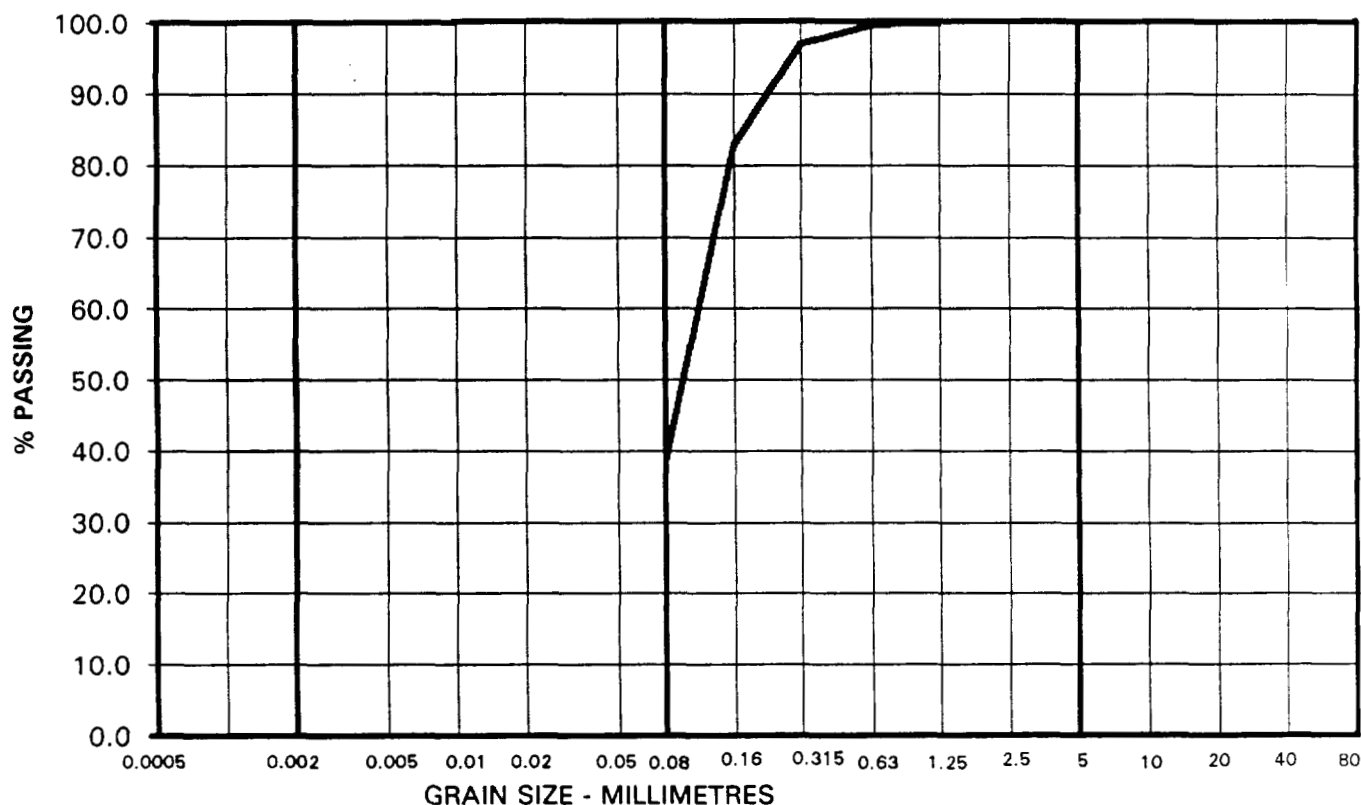
WATER CONTENT: 1.2%

TOTAL MASS: 1506 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	
2.5	
1.25	100
0.63	100
0.315	97
0.16	83
0.08	38.6

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 15 BY: tj EBA Eng.
TESTPIT NO: d6gc
DEPTH: 0.1 - 1.0
SOIL DESCRIPTION SAND(SM), some silt,
very fine-grained, uniform, light brown.

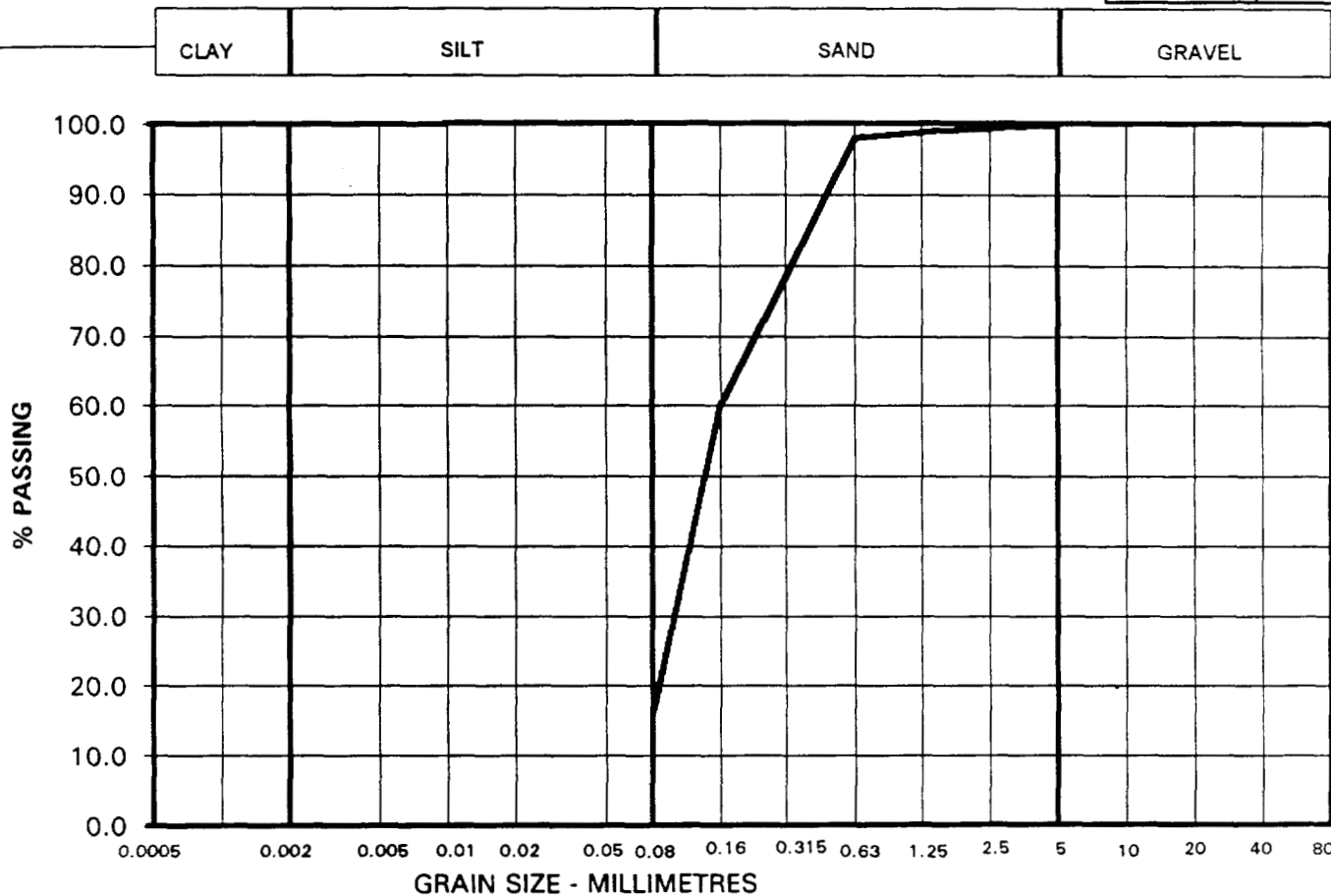
Cu: _____ Cc: _____

WATER CONTENT: 4.5%

TOTAL MASS: 1432 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	99
1.25	99
0.63	98
0.315	78
0.16	60
0.08	15.7

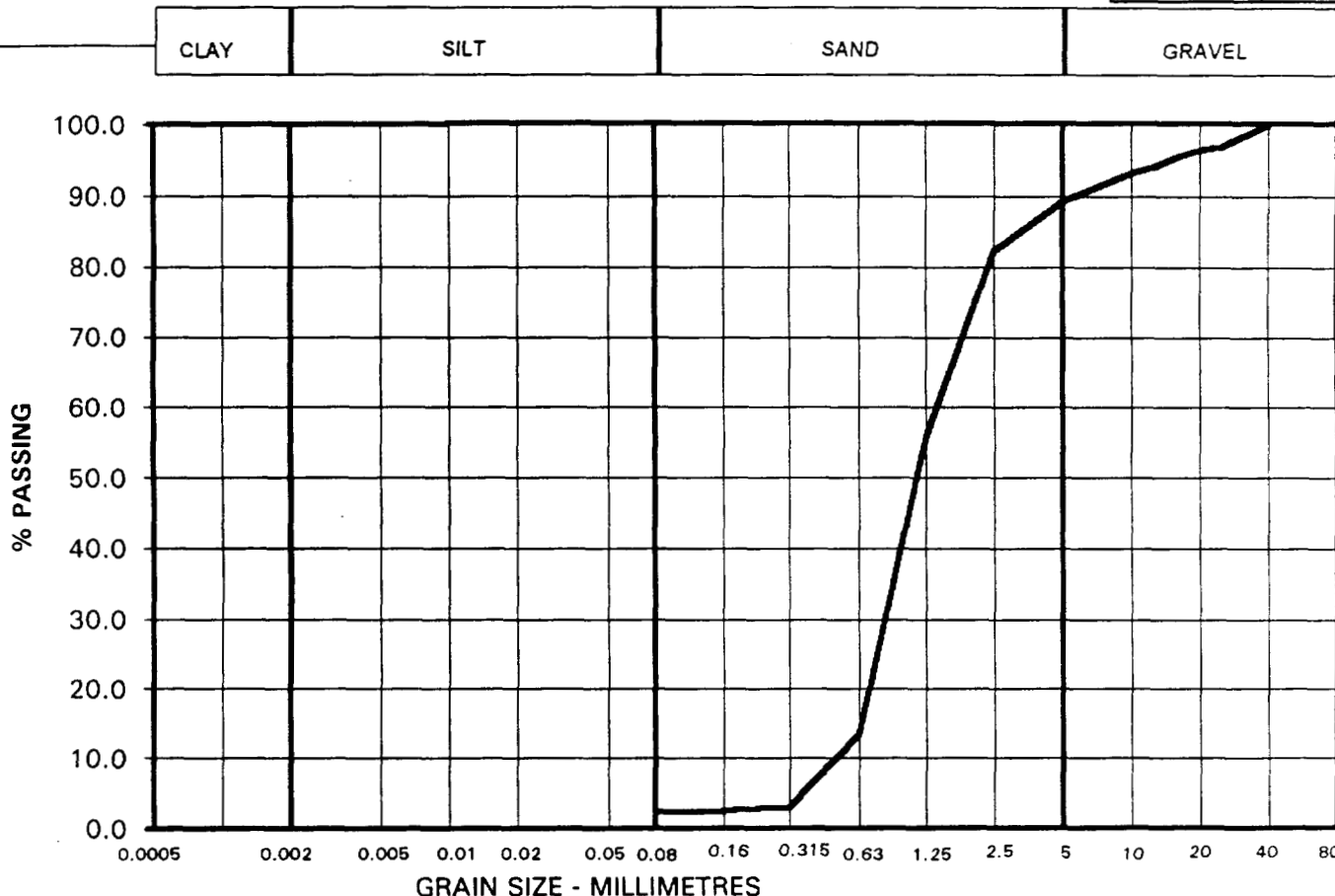


EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 21 BY: htEBA Eng.
TESTPIT NO: d7r
DEPTH: 0.15 - 0.8
SOIL DESCRIPTION SAND(SP), some gravel, trace silt, trace organics,
coarse-grained, subrounded, brown.
Cu: 2.8 Cc: 1.0
WATER CONTENT: 1.8%
TOTAL MASS: 14541 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	97
20	97
16	96
12.5	94
10	93
5	89
2.5	82
1.25	56
0.63	13
0.315	3
0.16	2
0.08	2.3



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 14 BY: ht EBA Eng.
TESTPIT NO: d8d
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SILT and SAND (ML-SM),
fine-grained, uniform, brown.

Cu: _____ Cc: _____
WATER CONTENT: 8.3%
TOTAL MASS: 5724 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	99
1.25	99
0.63	98
0.315	95
0.16	83
0.08	50.6



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 15 BY: ht EBA Eng.
 TESTPIT NO: d8gc
 DEPTH: 0.15 - 0.80
 SOIL DESCRIPTION SAND(SP), trace silt,
very fine-grained, light brown.

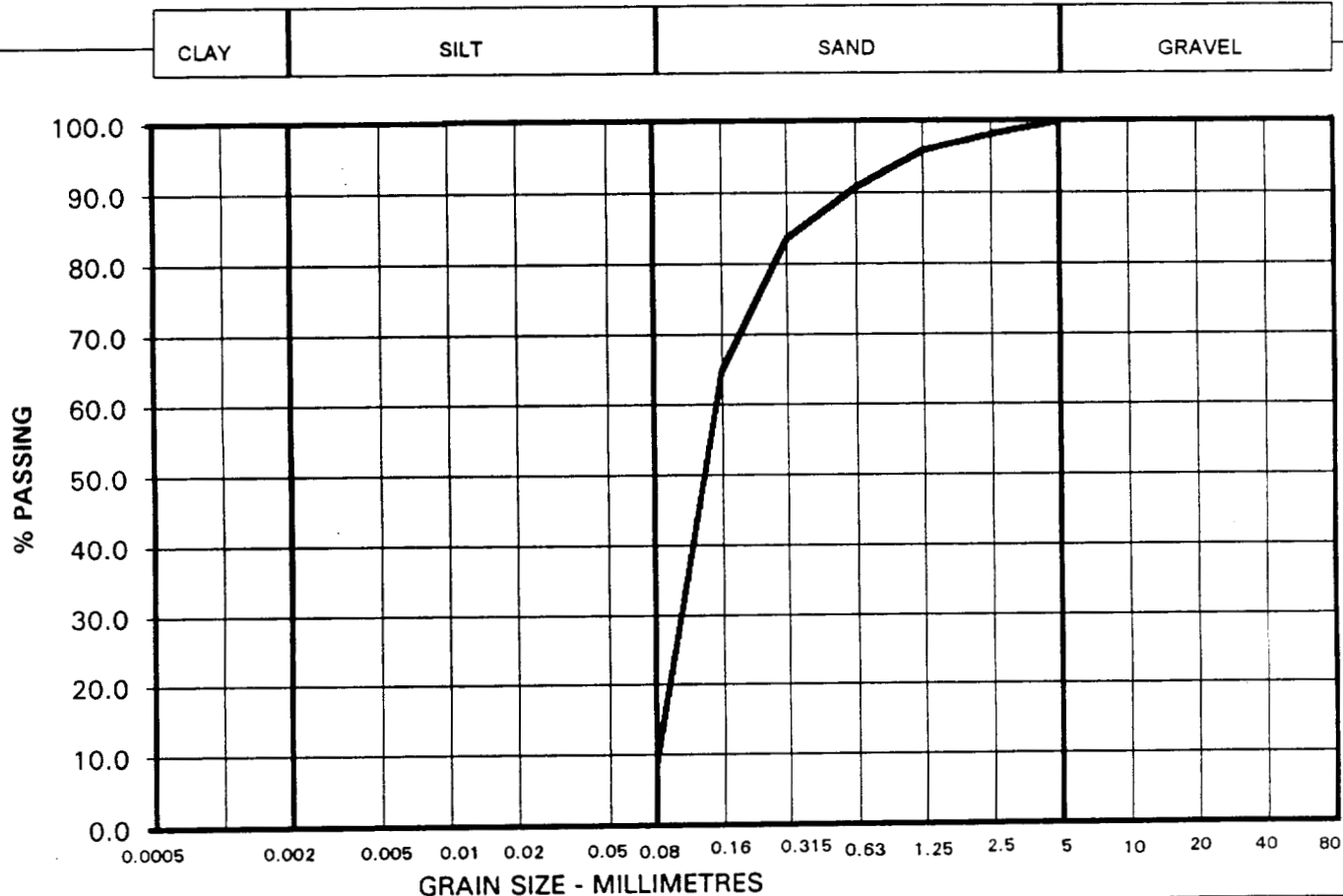
Cu: 1.9 Cc: 0.9

WATER CONTENT: 3.5%

TOTAL MASS: 1509 Grams

REMARKS: _____

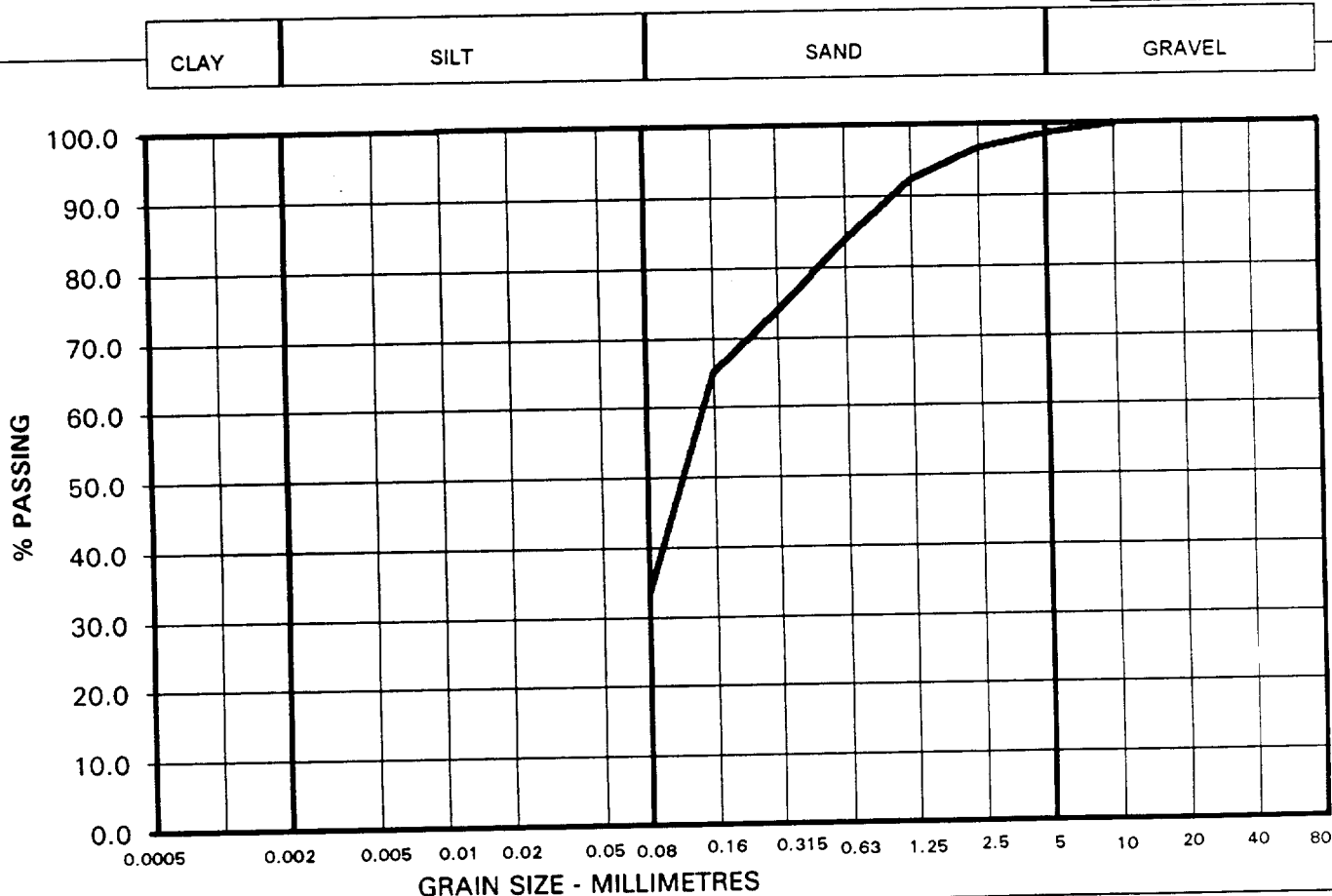
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	98
1.25	96
0.63	91
0.315	84
0.16	65
0.08	8.7



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 18 BY: ht EBA Eng.
 TESTPIT NO: d9d
 DEPTH: 0.15 - 0.15
 SOIL DESCRIPTION SAND(SM), silty, trace gravel, trace organics,
very fine-grained, light grey.
 Cu: _____ Cc: _____
 WATER CONTENT: 11.5%
 TOTAL MASS: 6842 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	99
2.5	97
1.25	92
0.63	84
0.315	74
0.16	65
0.08	33.4



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 16 BY: htEBA Eng.
 TESTPIT NO: d9gc
 DEPTH: 0.30 - 0.70
 SOIL DESCRIPTION GRAVEL and SAND(GP-SP), trace silt,
subangular, medium brown.

Cu: 26.5 Cc: 0.7

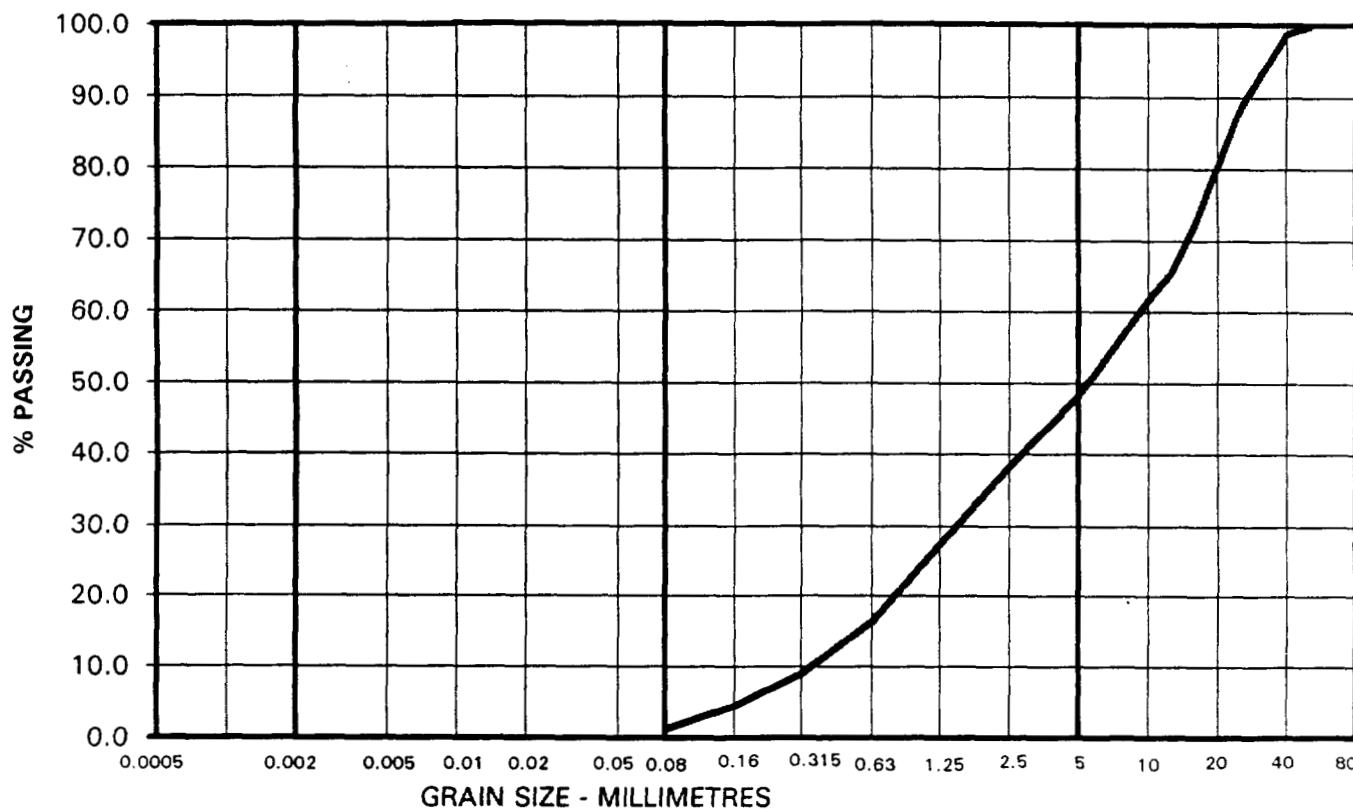
WATER CONTENT: 5.5%

TOTAL MASS: 19401 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	99
25	88
20	80
16	72
12.5	65
10	62
5	48
2.5	38
1.25	27
0.63	16
0.315	9
0.16	5
0.08	1.2

CLAY	SILT	SAND	GRAVEL
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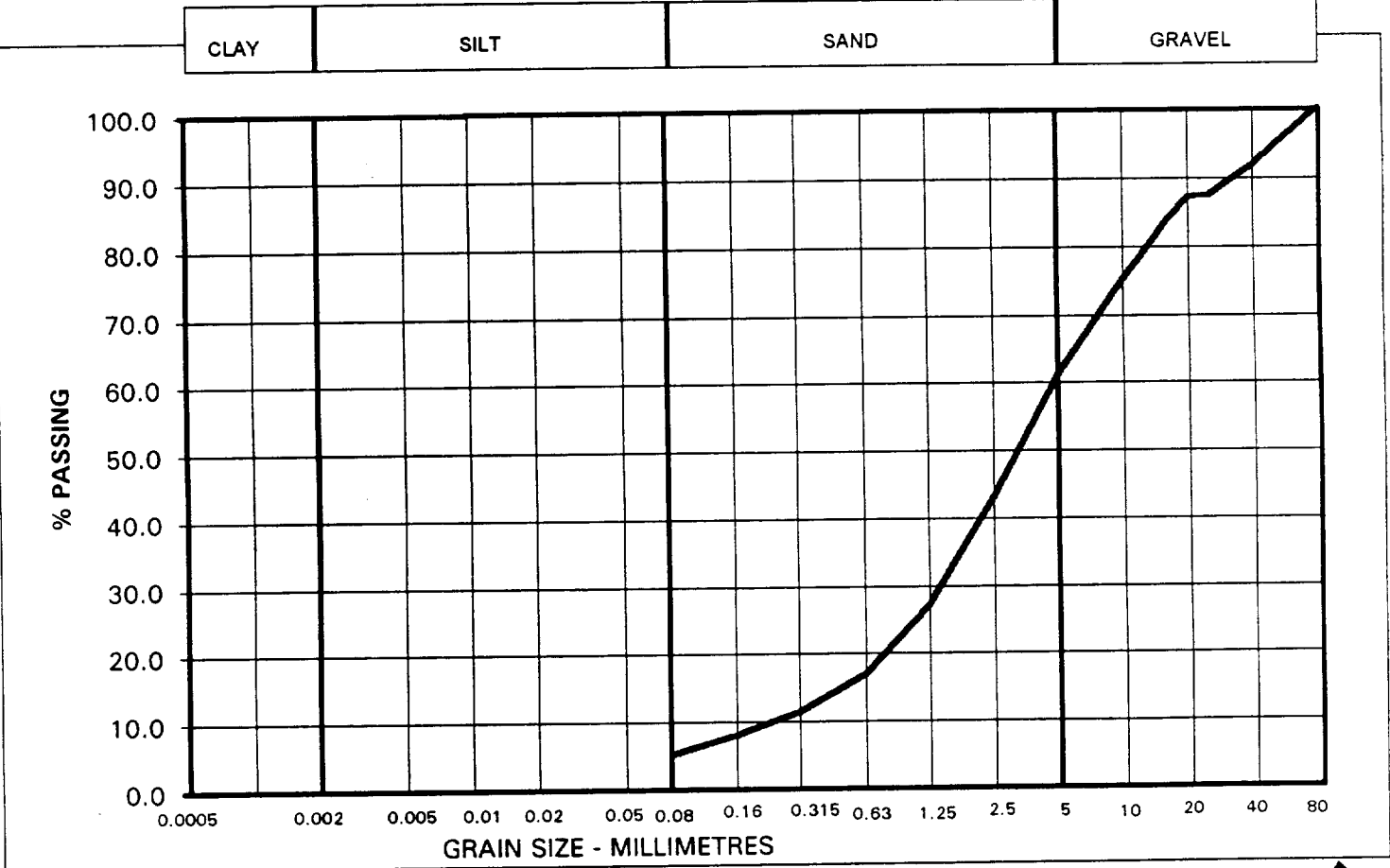


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 15 BY: tj EBA Eng.
TESTPIT NO: d10d
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SAND and GRAVEL(SW-GW), trace silt,

Cu: 19.9 Cc: 1.8
WATER CONTENT: 12.3%
TOTAL MASS: 12881 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	95
40	92
25	88
20	87
16	84
12.5	79
10	75
5	61
2.5	43
1.25	27
0.63	17
0.315	11
0.16	8
0.08	5.2



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 17 BY: htEBA Eng.
TESTPIT NO: d10gc
DEPTH: 0.2 - 0.80
SOIL DESCRIPTION SAND(SM), some gravel, some silt,
subangular, light brown.

Cu: _____ Cc: _____

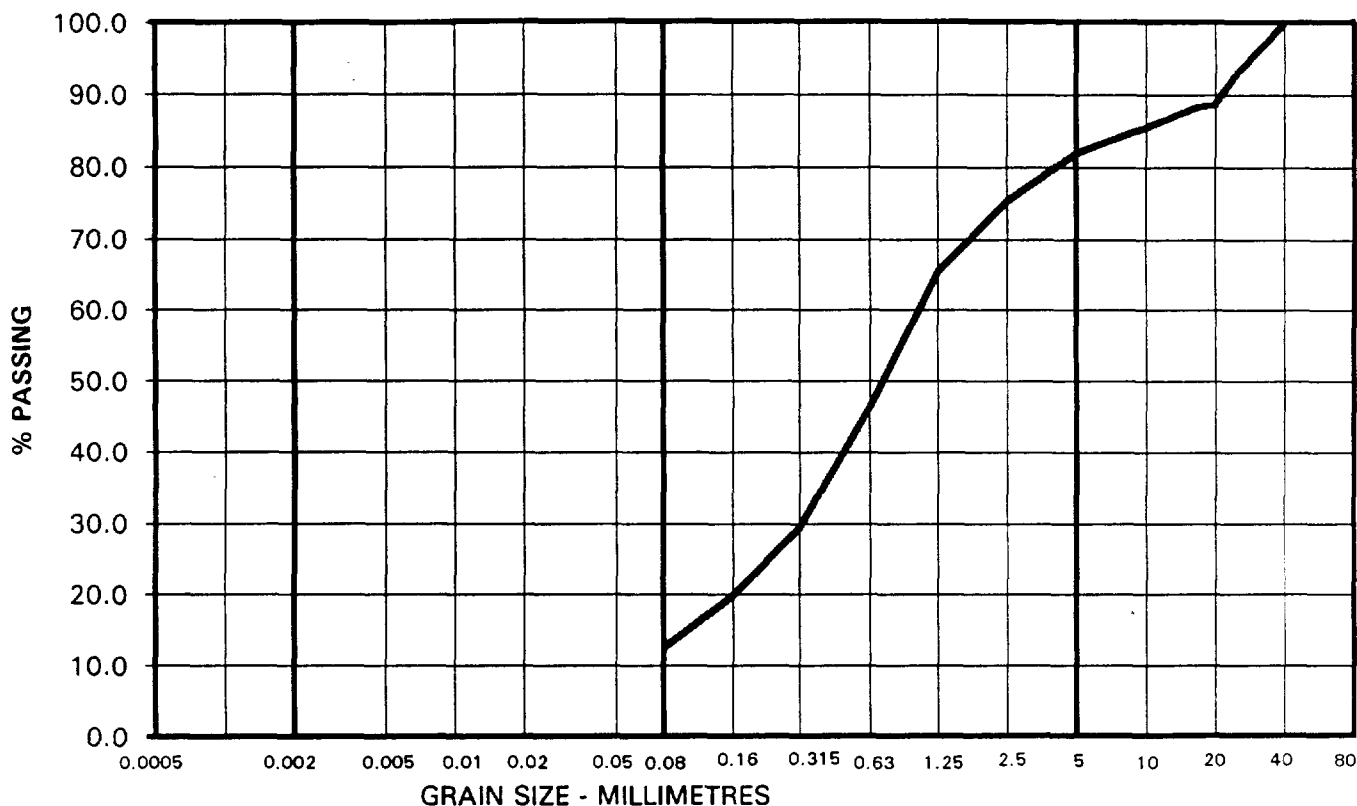
WATER CONTENT: 5.5%

TOTAL MASS: 4125 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	93
20	89
16	88
12.5	87
10	86
5	82
2.5	75
1.25	65
0.63	46
0.315	29
0.16	20
0.08	12.6

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 15 BY: ht EBA Eng.
 TESTPIT NO: d11d
 DEPTH: 0.15 - 0.85
 SOIL DESCRIPTION SAND(SP), trace silt, trace gravel,
angular, light brown.

Cu: 3.5 Cc: 0.7

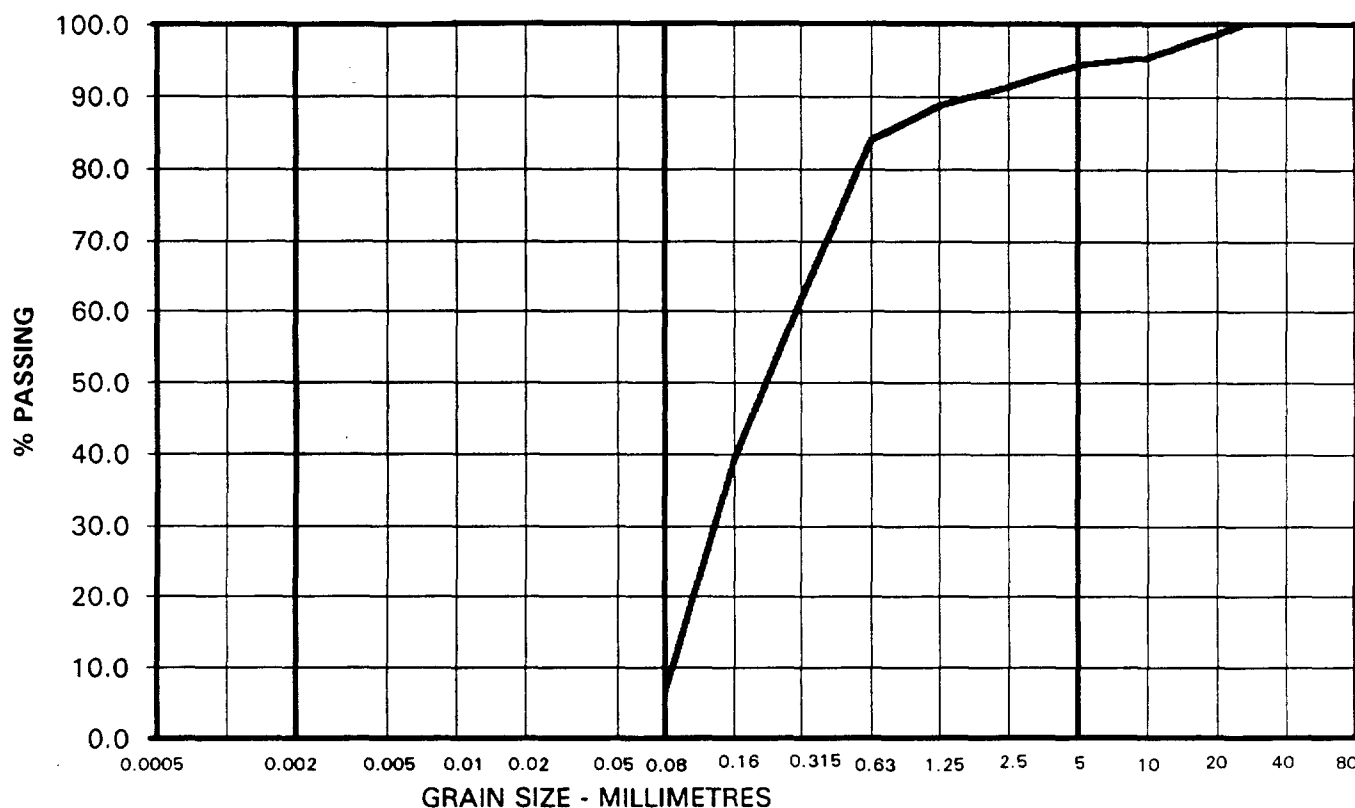
WATER CONTENT: 4.2%

TOTAL MASS: 1202 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	99
16	98
12.5	97
10	96
5	94
2.5	91
1.25	89
0.63	84
0.315	62
0.16	39
0.08	6.5

CLAY	SILT	SAND	GRAVEL
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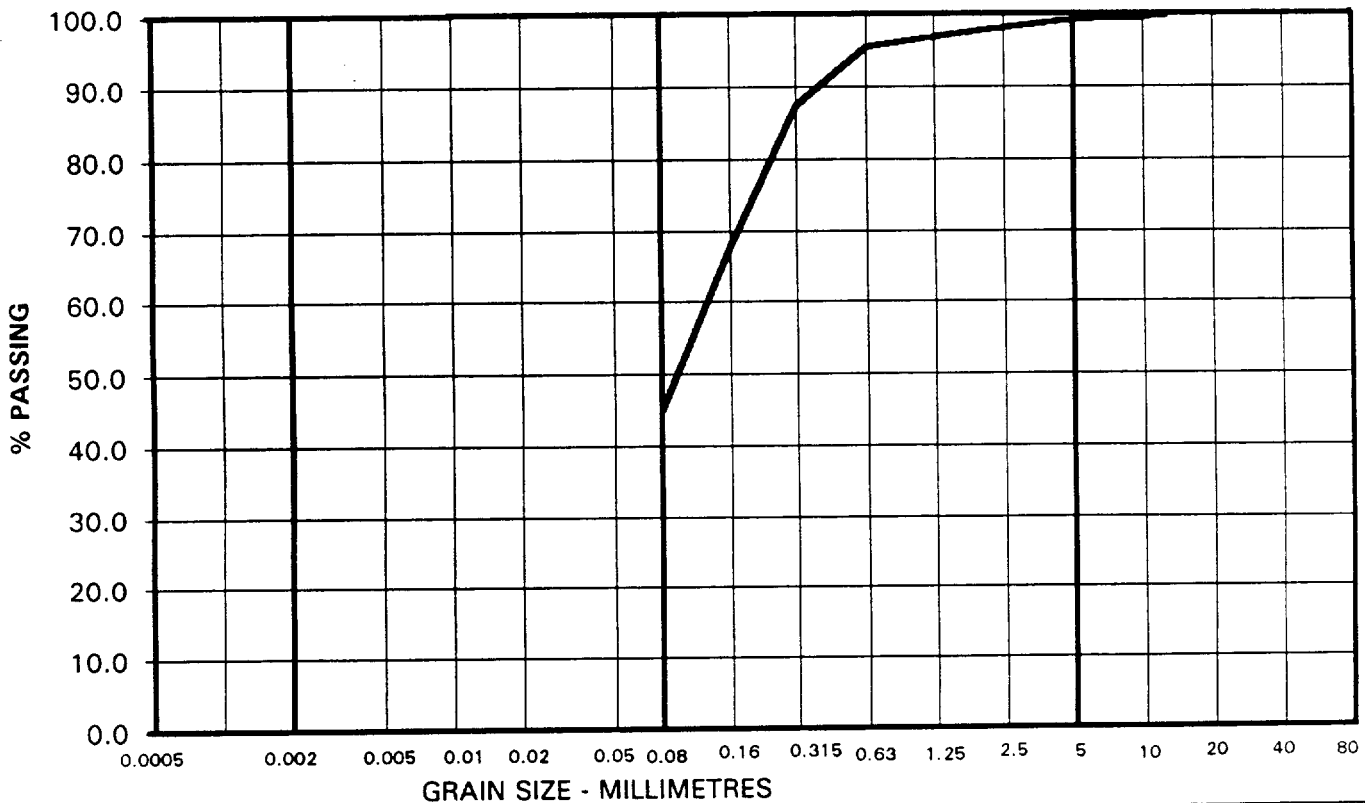


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 21 BY: htEBA Eng.
 TESTPIT NO: d11gc
 DEPTH: 0.15 - 0.80
 SOIL DESCRIPTION SAND and SILT(SM - ML), trace organics,
subrounded, lt brown.
 Cu: _____ Cc: _____
 WATER CONTENT: 10.3%
 TOTAL MASS: 6860 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	100
5	99
2.5	98
1.25	97
0.63	95
0.315	87
0.16	68
0.08	44.8

CLAY	SILT	SAND	GRAVEL
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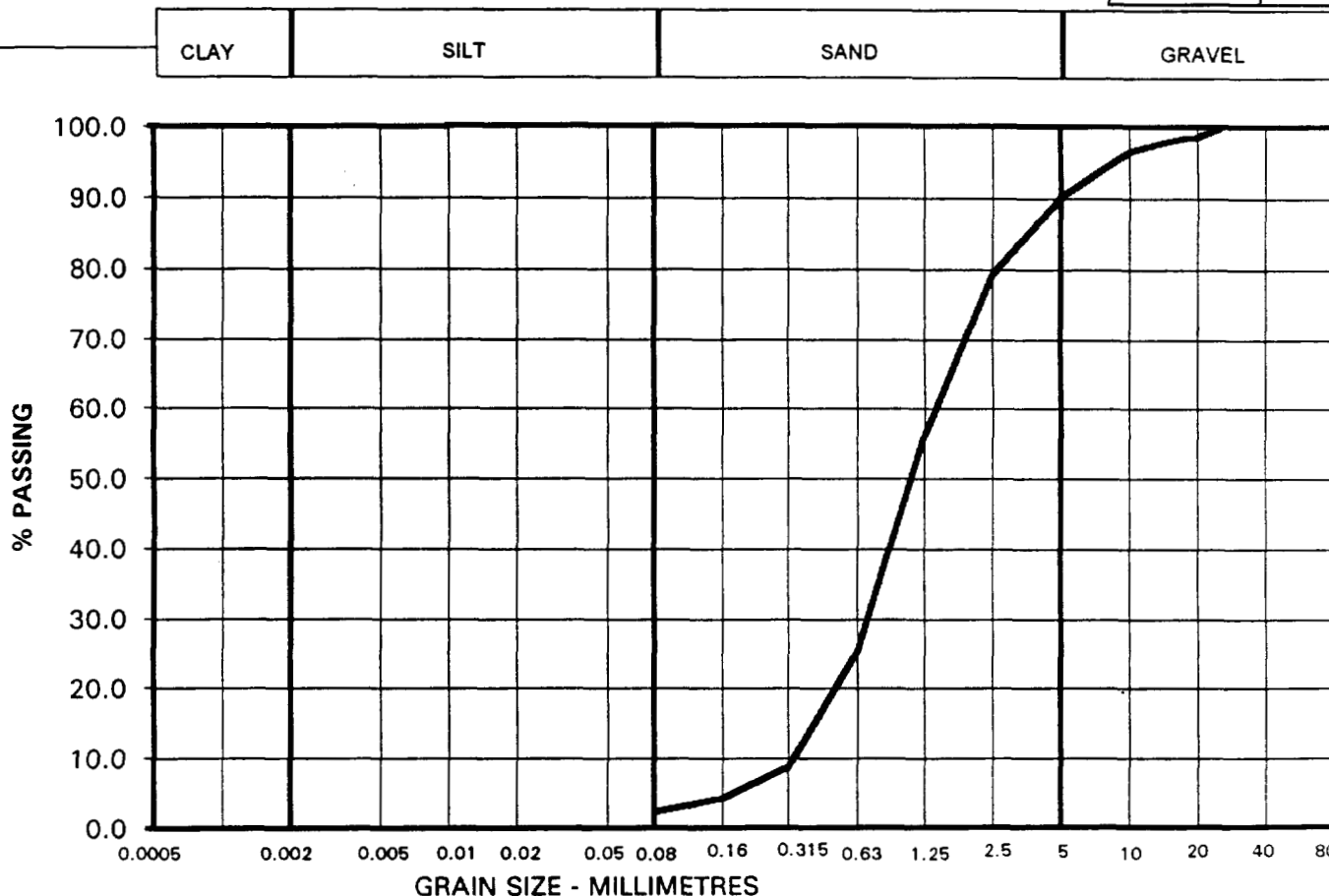
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 21 BY: htEBA Eng.
 TESTPIT NO: d12r
 DEPTH: 0.15 - 0.65
 SOIL DESCRIPTION SAND(SP), trace gravel, trace silt, trace organics,
coarse grained, med. brown.

Cu: 4.2 Cc: 1.1
 WATER CONTENT: 1.0%
 TOTAL MASS: 9439 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	99
16	98
12.5	98
10	97
5	90
2.5	79
1.25	56
0.63	25
0.315	9
0.16	4
0.08	2.3



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 21 BY: htEBA Eng.
 TESTPIT NO: d13d
 DEPTH: 0.15 - 0.50
 SOIL DESCRIPTION SAND (SM), silty, some gravel, trace organics,
subrounded, light brown.

Cu: _____ Cc: _____

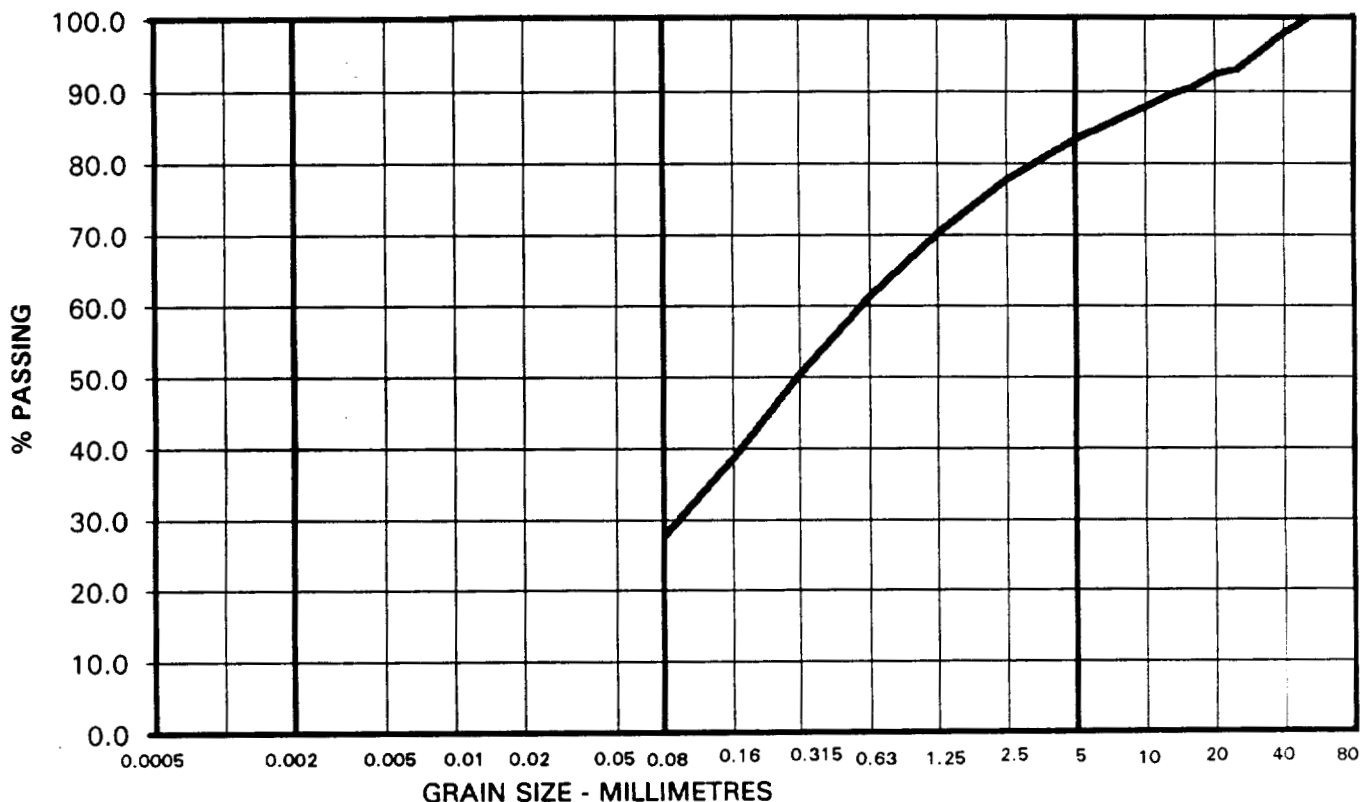
WATER CONTENT: 2.4%

TOTAL MASS: 6170 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	98
25	93
20	92
16	91
12.5	90
10	88
5	83
2.5	78
1.25	70
0.63	61
0.315	50
0.16	38
0.08	27.6

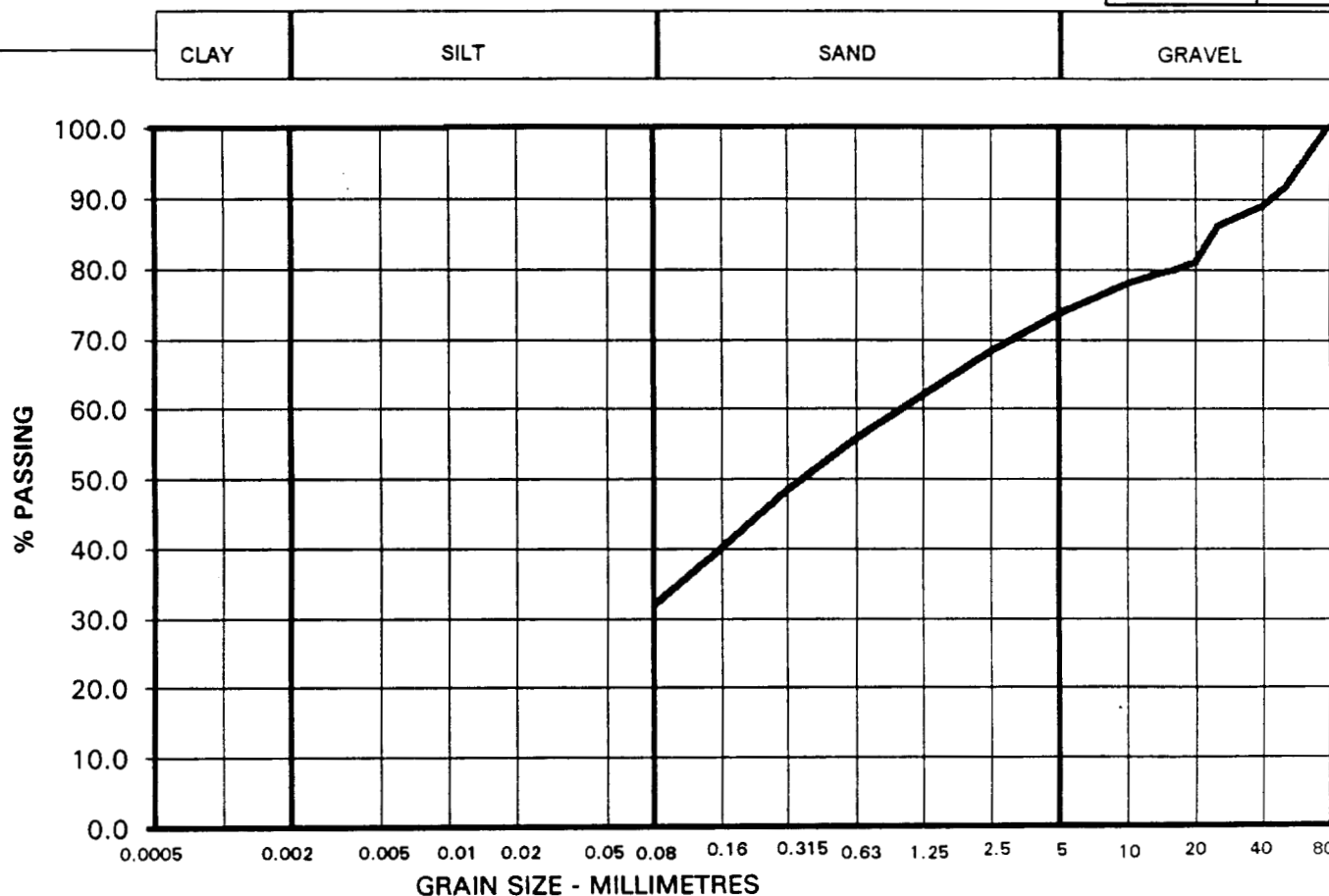
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 21 BY: htEBA Eng.
 TESTPIT NO: d13gc
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND(SM), silty, gravelly, trace organics,
subrounded, grey.
 Cu: _____ Cc: _____
 WATER CONTENT: 4.2%
 TOTAL MASS: 4811 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	92
40	89
25	86
20	81
16	80
12.5	79
10	78
5	74
2.5	68
1.25	62
0.63	56
0.315	48
0.16	40
0.08	31.9



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 15 BY: ht EBA Eng.
TESTPIT NO: d14d
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SAND(SM), some silt, some gravel, some organics,
subangular, light brown.

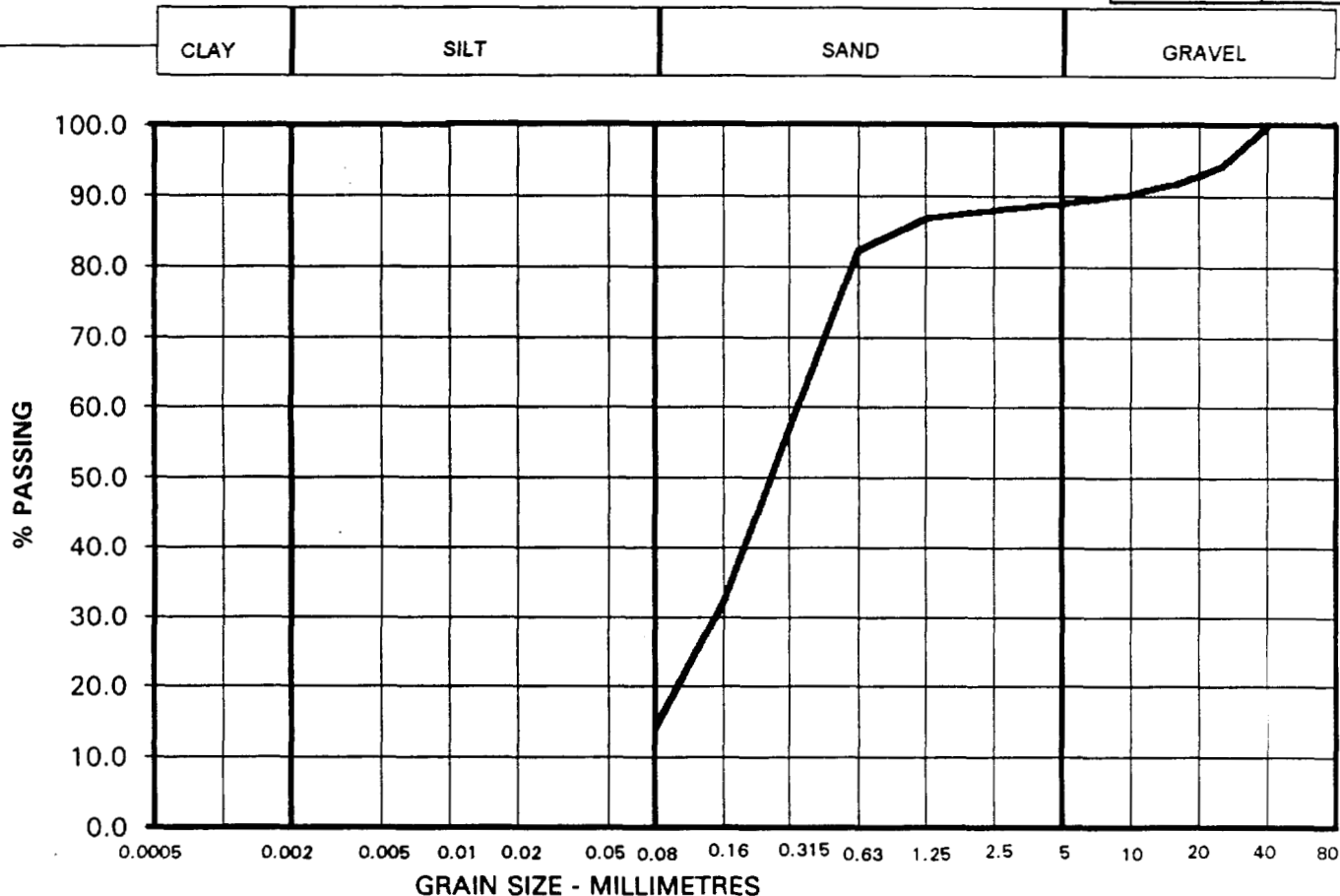
Cu: _____ Cc: _____

WATER CONTENT: 1.7%

TOTAL MASS: 2827 Grams

REMARKS: _____

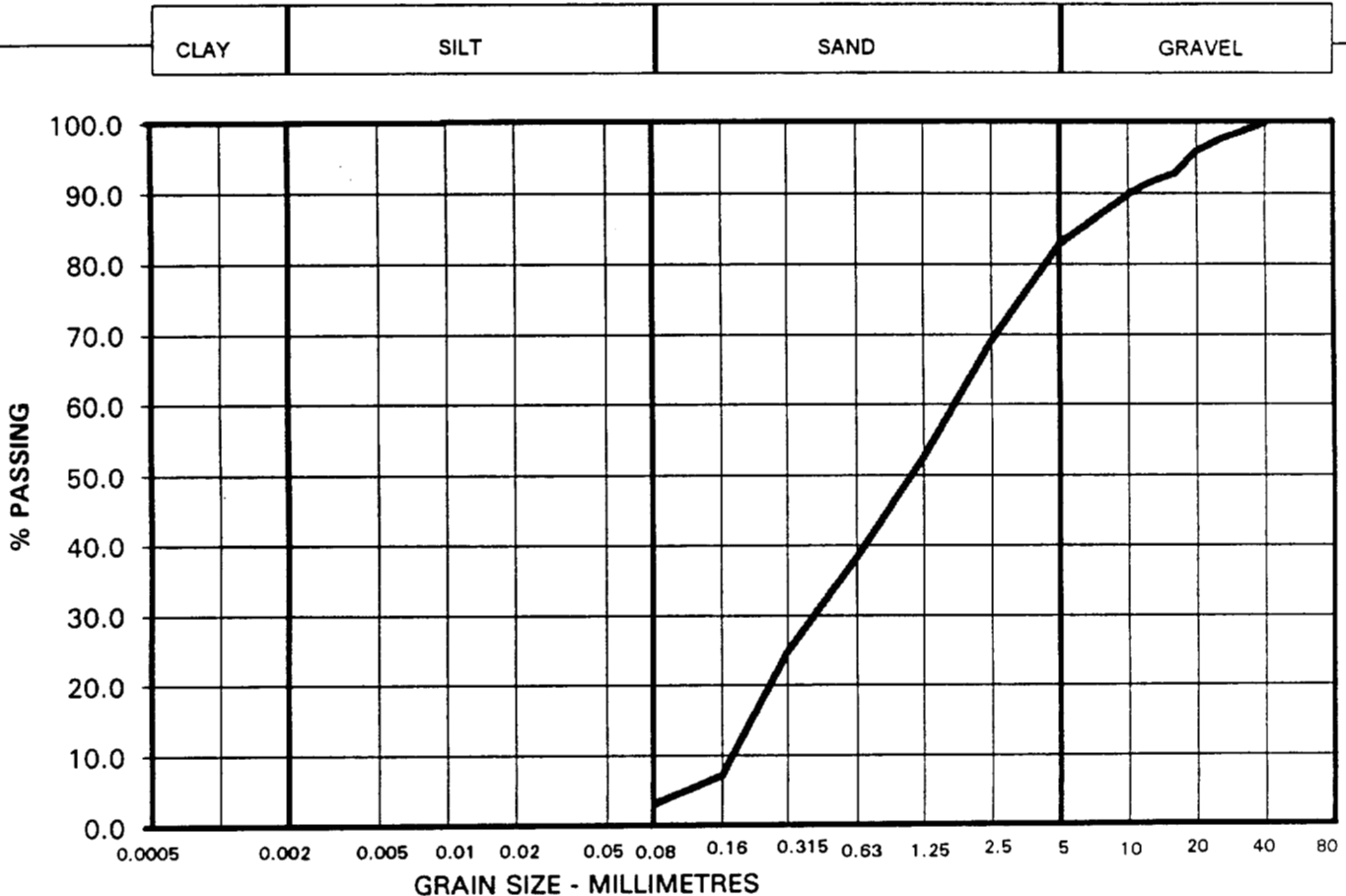
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	94
20	93
16	92
12.5	91
10	90
5	89
2.5	88
1.25	87
0.63	82
0.315	57
0.16	32
0.08	14.1



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 17 BY: htEBA Eng.
 TESTPIT NO: d14gc
 DEPTH: 0.15 - 0.80
 SOIL DESCRIPTION SAND(SP), some gravel, trace silt,
subangular, light brown.
 Cu: 9.5 Cc: 0.6
 WATER CONTENT: 3.0%
 TOTAL MASS: 2802 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	98
20	96
16	93
12.5	92
10	90
5	83
2.5	69
1.25	53
0.63	38
0.315	25
0.16	7
0.08	3.1



PARTICLE - SIZE ANALYSIS OF SOILS

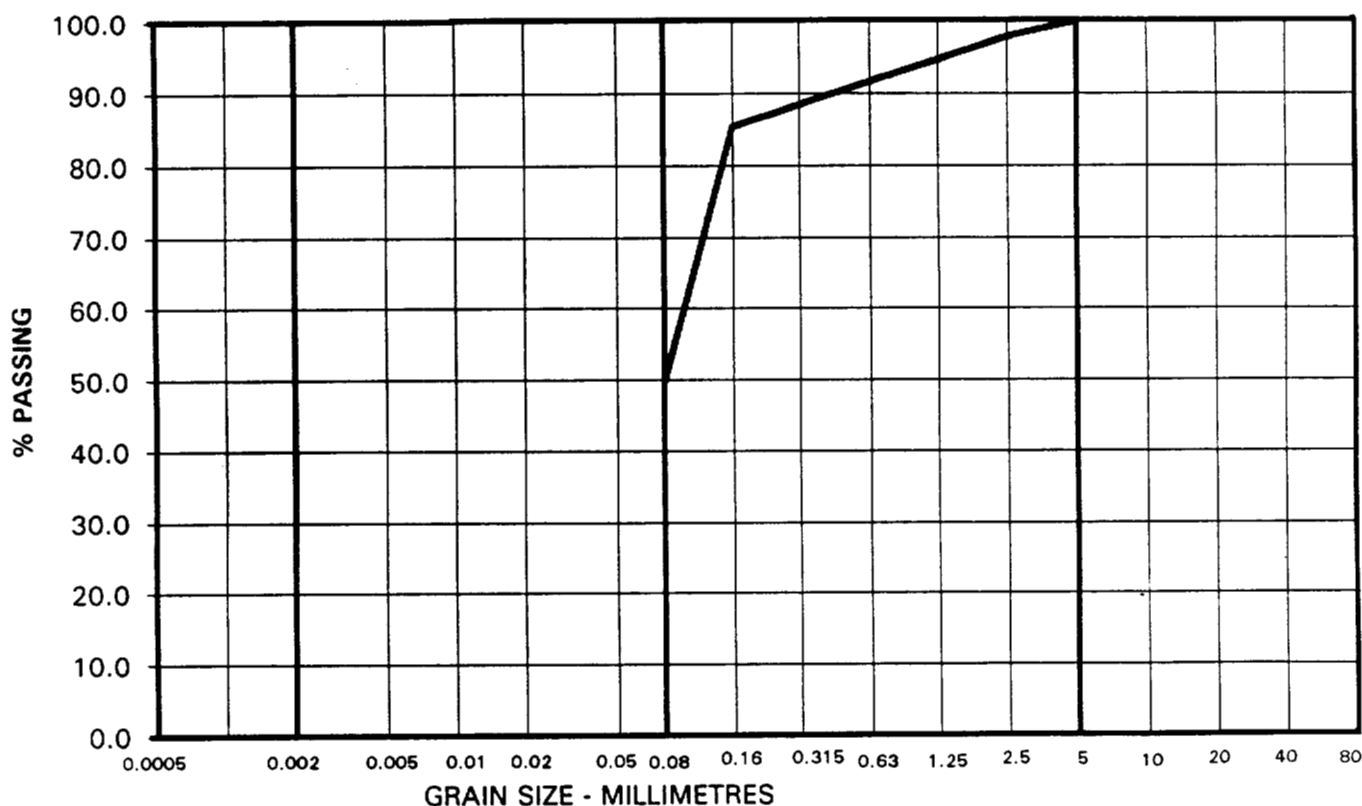
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 18 BY: ht EBA Eng.
 TESTPIT NO: d15d
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND and SILT(SM - ML), trace organics,
fine-grained, uniform, light brown.

Cu: _____ Cc: _____
 WATER CONTENT: 8.2%
 TOTAL MASS: 8035 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	98
1.25	95
0.63	92
0.315	88
0.16	85
0.08	49.6

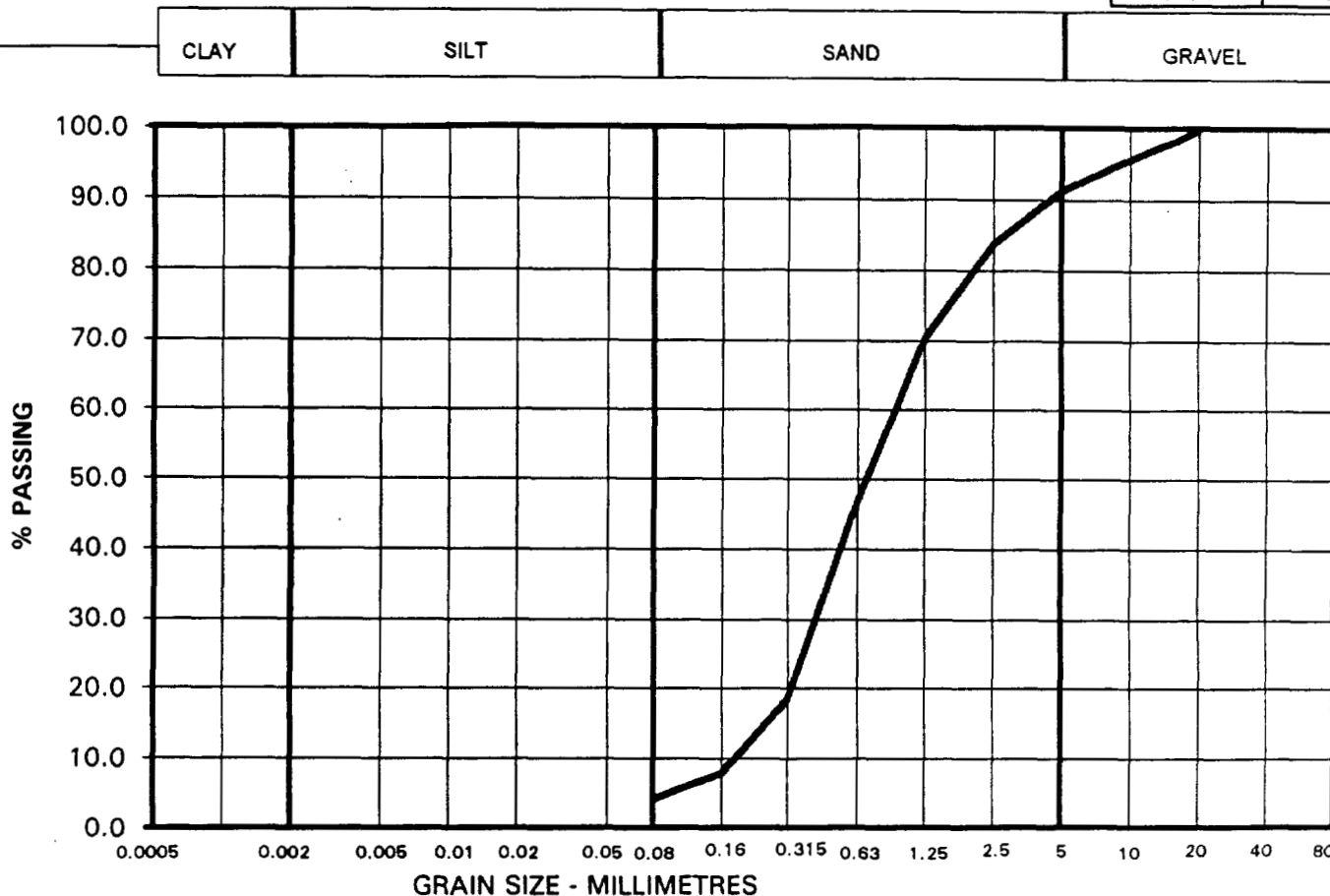
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 21 BY: htEBA Eng.
 TESTPIT NO: d15gc
 DEPTH: 0.15 - 0.75
 SOIL DESCRIPTION SAND(SP), trace gravel, trace silt, some organics,
subrounded, brown.
 Cu: 5.0 Cc: 1.0
 WATER CONTENT: 2.0%
 TOTAL MASS: 8281 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	99
12.5	97
10	96
5	91
2.5	84
1.25	70
0.63	47
0.315	18
0.16	8
0.08	4.1



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 21 BY: ht EBA Eng.
 TESTPIT NO: d16d
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SM), gravelly, some silt, some organics,

Cu: _____ Cc: _____

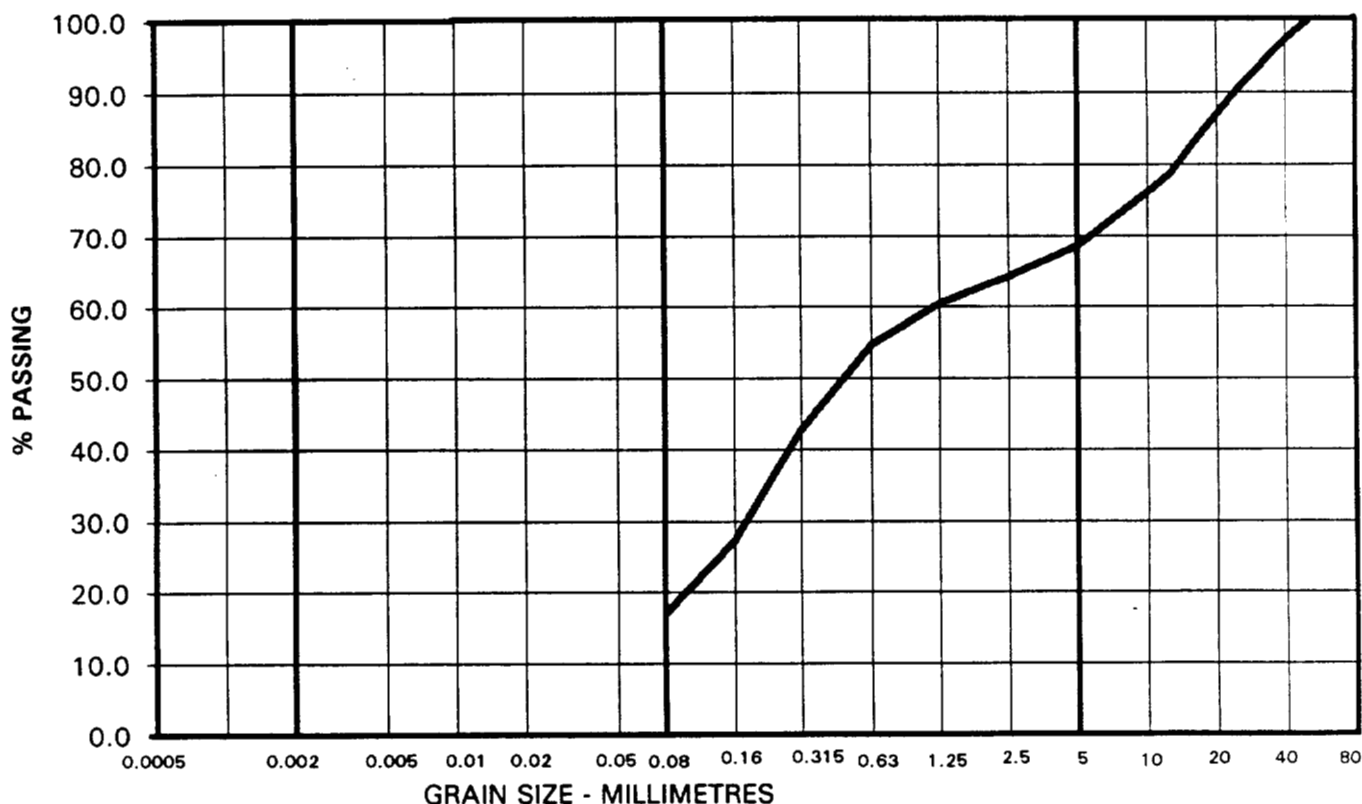
WATER CONTENT: 9.1%

TOTAL MASS: 6427 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	97
25	91
20	87
16	83
12.5	79
10	76
5	69
2.5	64
1.25	60
0.63	55
0.315	43
0.16	27
0.08	17.0

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

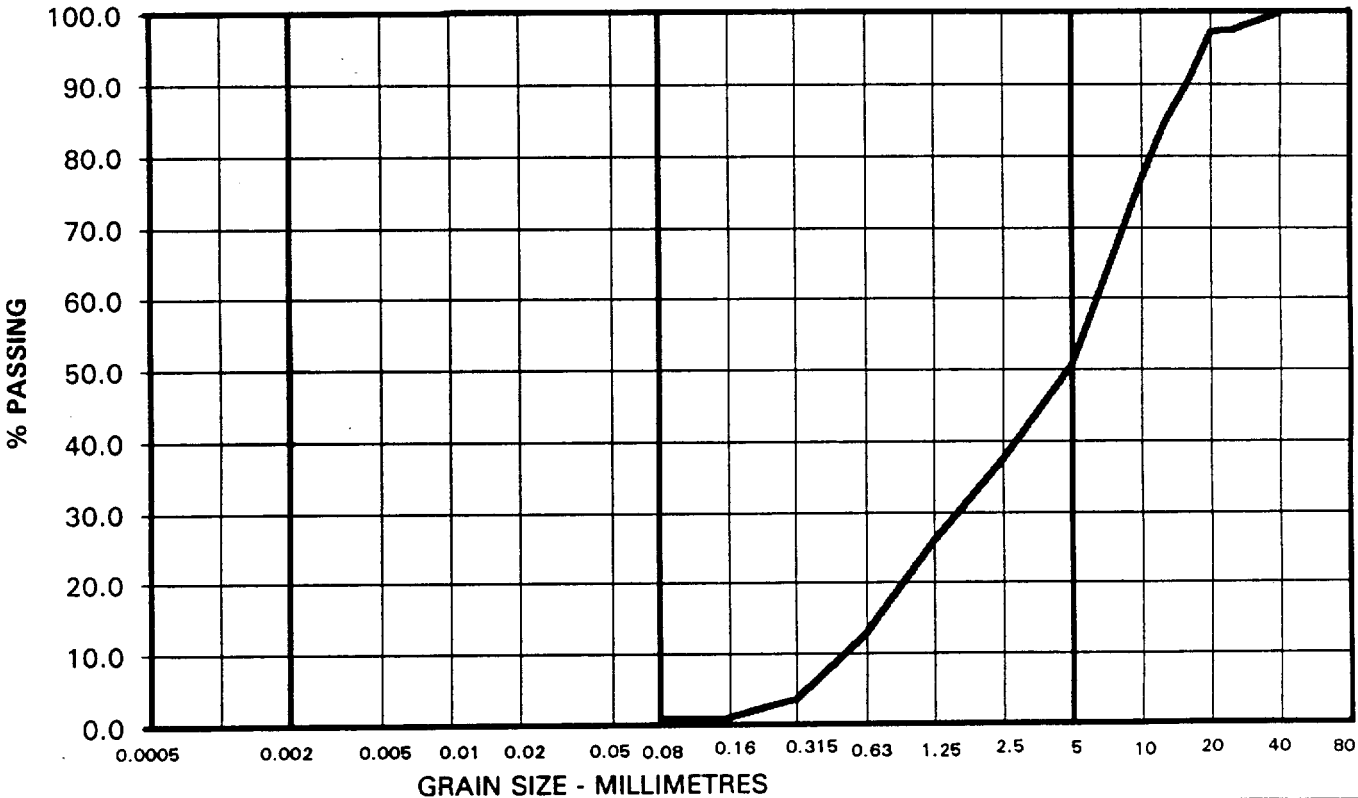
PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 21 BY: ht EBA Eng.
TESTPIT NO: d16gc
DEPTH: 0.15 - 0.50
SOIL DESCRIPTION SAND and GRAVEL(SP-GP), some organics
Subrounded - subangular, brown.

Cu: 12.5 Cc: 0.8
WATER CONTENT: 0.9%
TOTAL MASS: 9873 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	98
20	97
16	91
12.5	85
10	77
5	51
2.5	37
1.25	26
0.63	13
0.315	3
0.16	1
0.08	0.9

CLAY	SILT	SAND	GRAVEL
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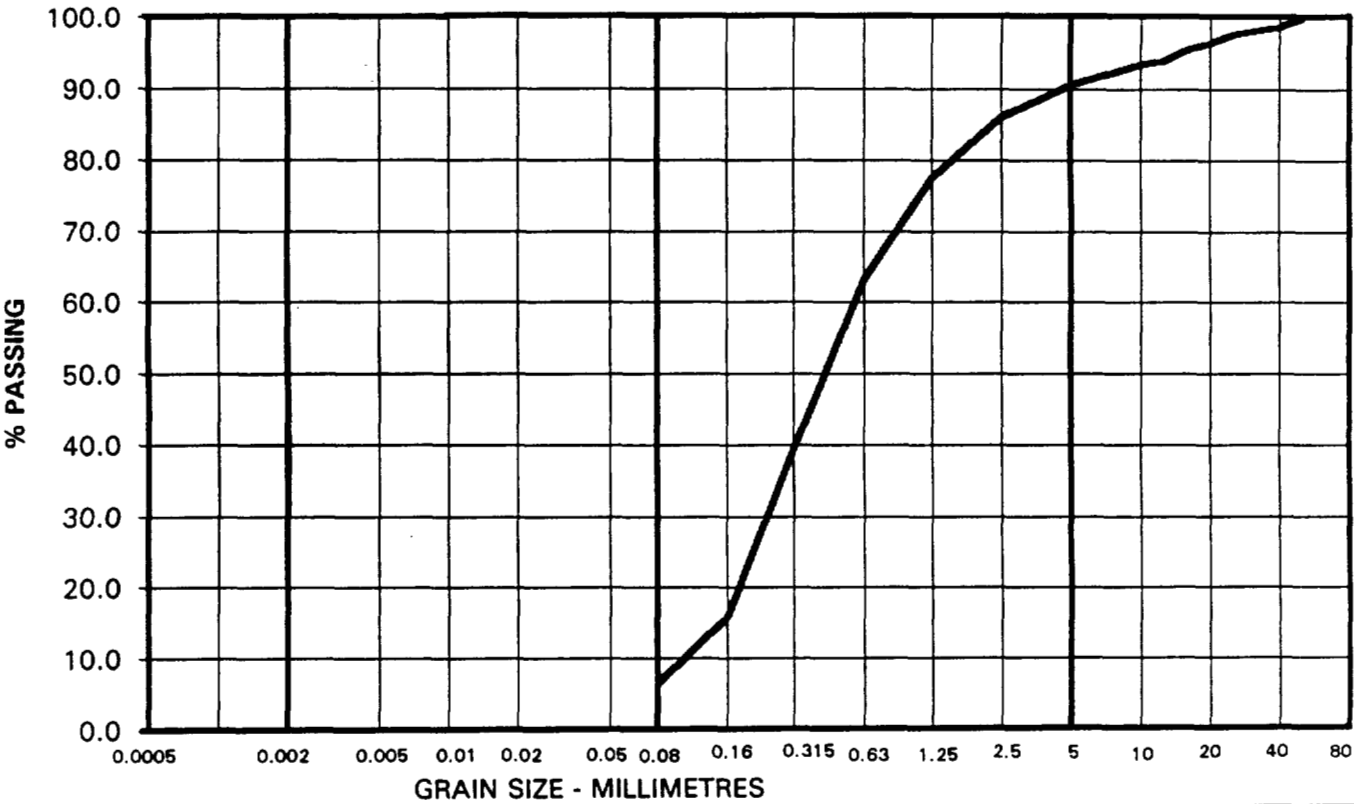


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 19 BY: ht EBA Eng.
TESTPIT NO: d17d
DEPTH: 0.15 - 0.70
SOIL DESCRIPTION SAND(SM), some gravel, organics,
uniform, med. grained, subrounded, brown.
Cu: 5.5 Cc: 1.0
WATER CONTENT: 0.5%
TOTAL MASS: 7845 Grams
REMARKS:

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	99
25	98
20	96
16	96
12.5	94
10	93
5	90
2.5	86
1.25	78
0.63	63
0.315	39
0.16	16
0.08	6.4

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 28 BY: ht EBA Eng.
 TESTPIT NO: d17gc
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SILT and SAND(ML-SM), trace organics,
light brown.

Cu: _____ Cc: _____

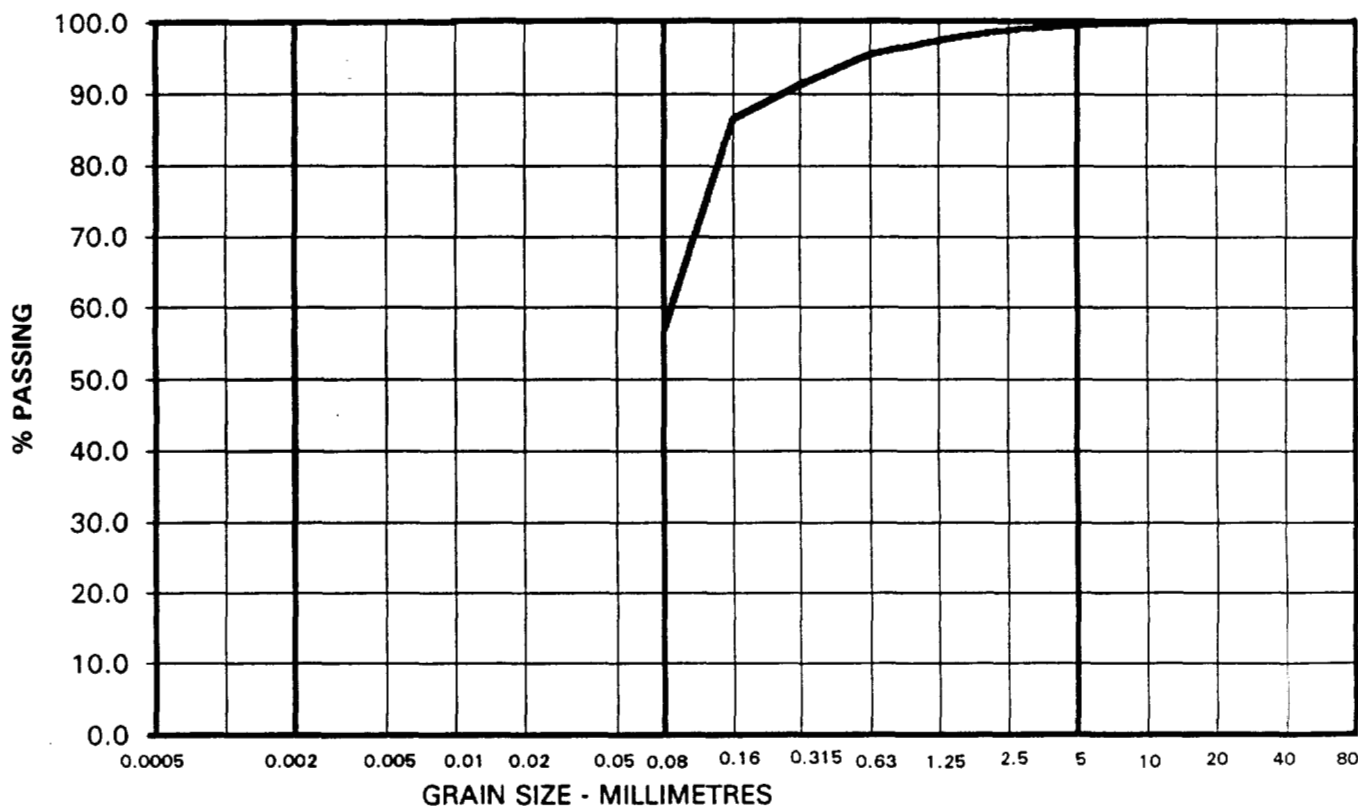
WATER CONTENT: 14.2%

TOTAL MASS: 8322 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	99
1.25	98
0.63	96
0.315	91
0.16	87
0.08	56.9

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 21 BY: htEBA Eng.

TESTPIT NO: d18d

DEPTH: 0.15 - 0.80

SOIL DESCRIPTION SAND(SM), some silt, some organics,
subrounded - subangular, medium-grained, brown.

Cu: _____ Cc: _____

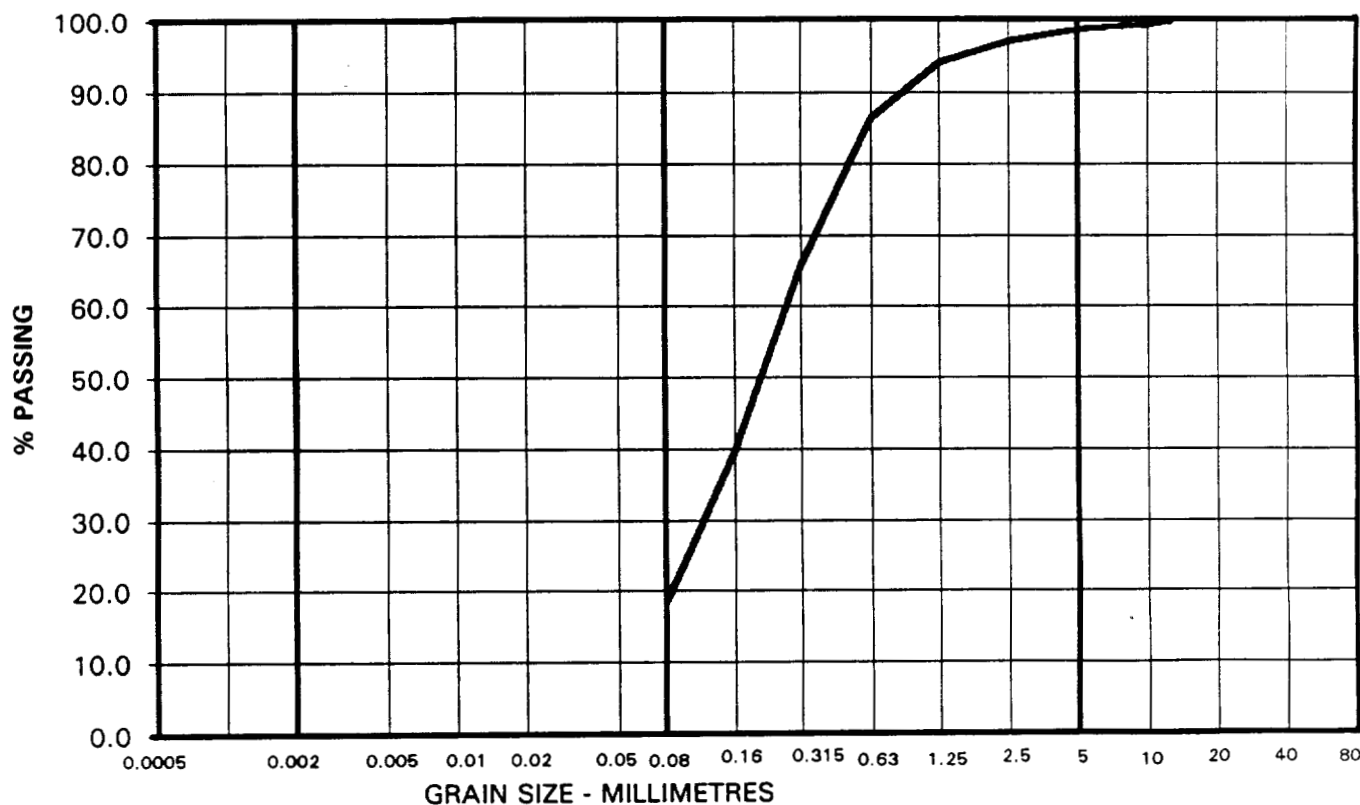
WATER CONTENT: 6.5%

TOTAL MASS: 8125 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	99
5	99
2.5	97
1.25	94
0.63	86
0.315	66
0.16	40
0.08	18.2

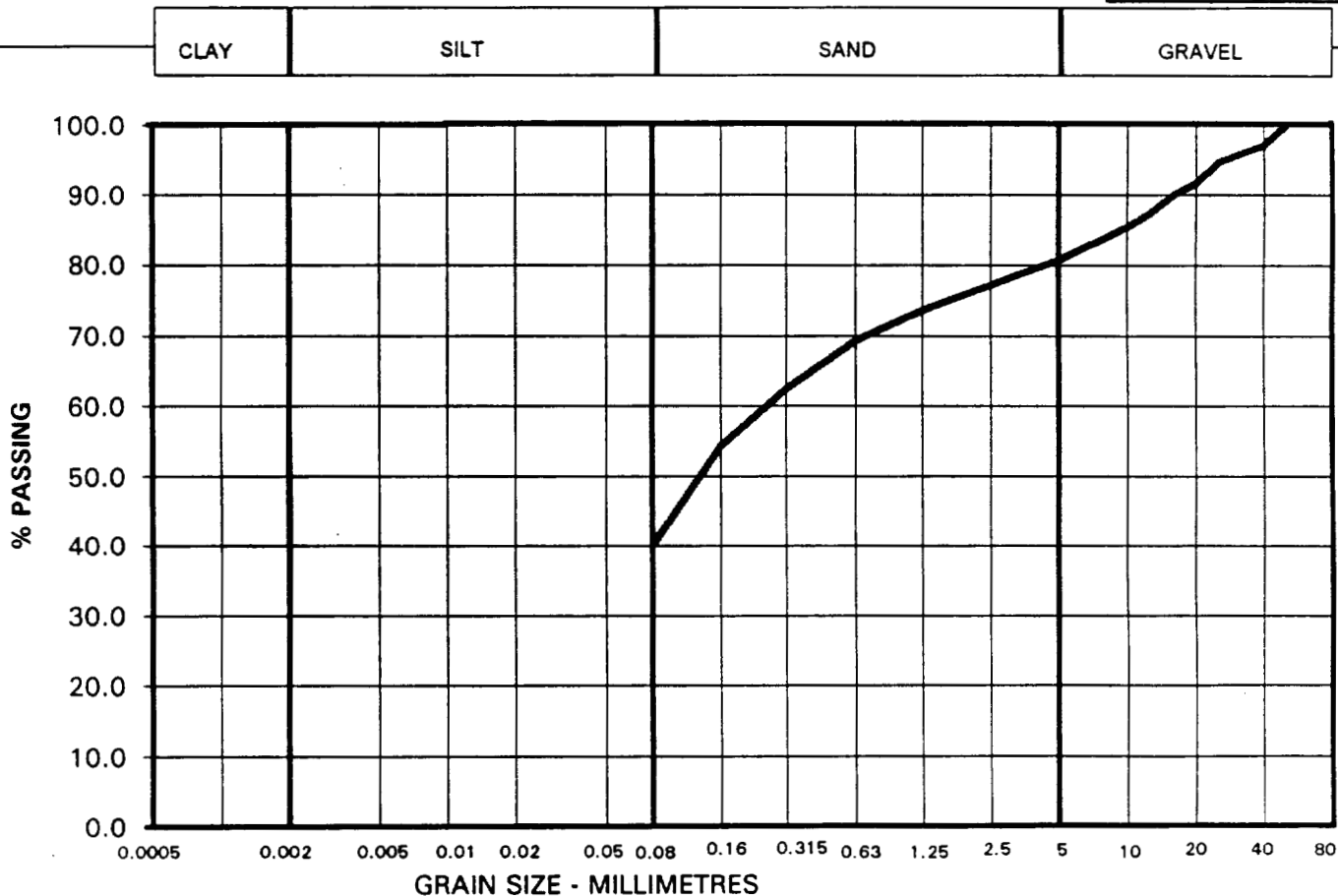
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 19 BY: ht EBA Eng.
 TESTPIT NO: d18gc
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND and SILT(SM - ML), some gravel,some organics,
subrounded, fine-grained, uniform, brown.
 Cu: _____ Cc: _____
 WATER CONTENT: 10.9%
 TOTAL MASS: 9818 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	97
25	95
20	92
16	90
12.5	87
10	85
5	81
2.5	77
1.25	74
0.63	69
0.315	62
0.16	54
0.08	39.9



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 21 BY: htEBA Eng.
 TESTPIT NO: d19d
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND(SP), trace gravel, trace silt, some organics,

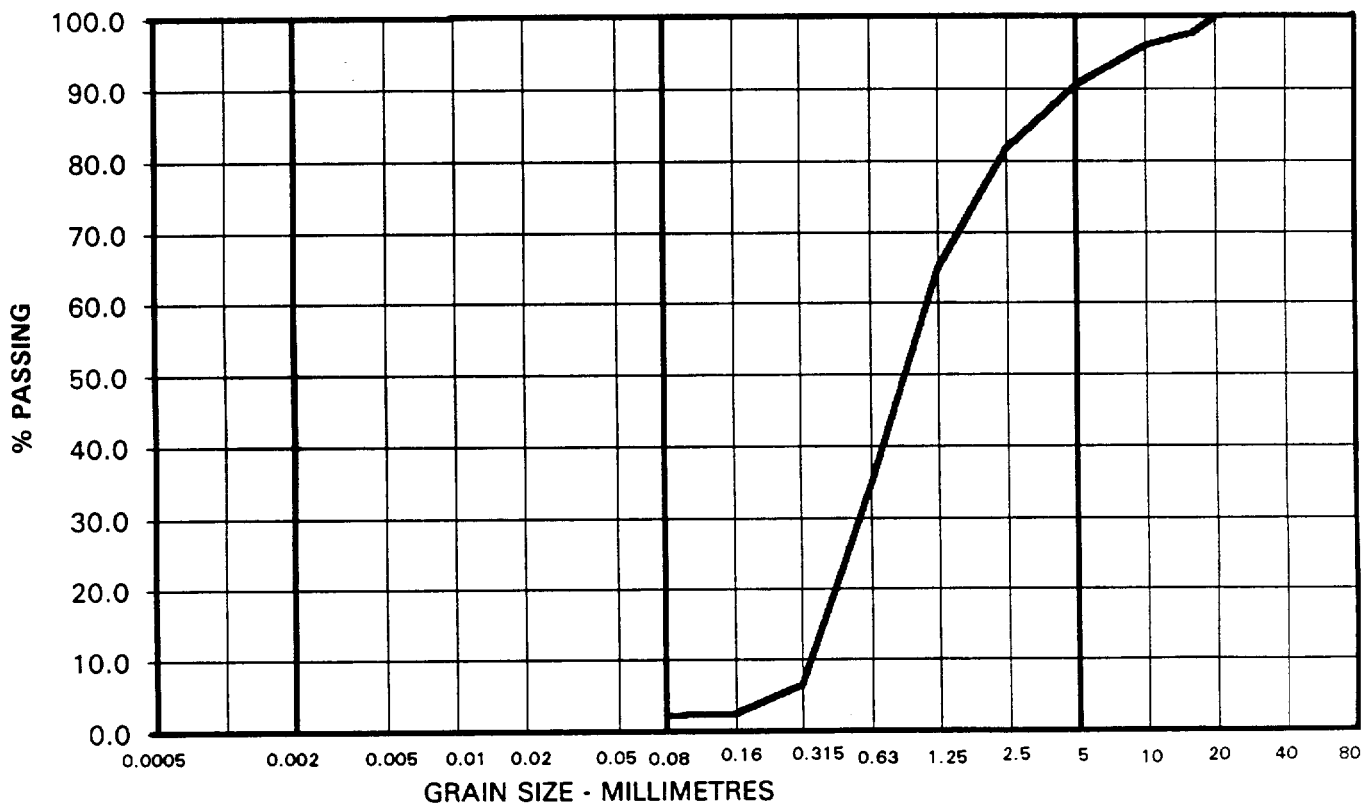
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	98
12.5	97
10	96
5	91
2.5	82
1.25	65
0.63	35
0.315	6
0.16	3
0.08	2.0

ar - subrounded, brown.

Cu: 3.3 Cc: 0.8
 WATER CONTENT: 0.9%
 TOTAL MASS: 8172 Grams

REMARKS: _____

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 21 BY: ht EBA Eng.
TESTPIT NO: d19gc
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SAND(SW), some grave, trace silt,
medium-grained, subrounded, brown.

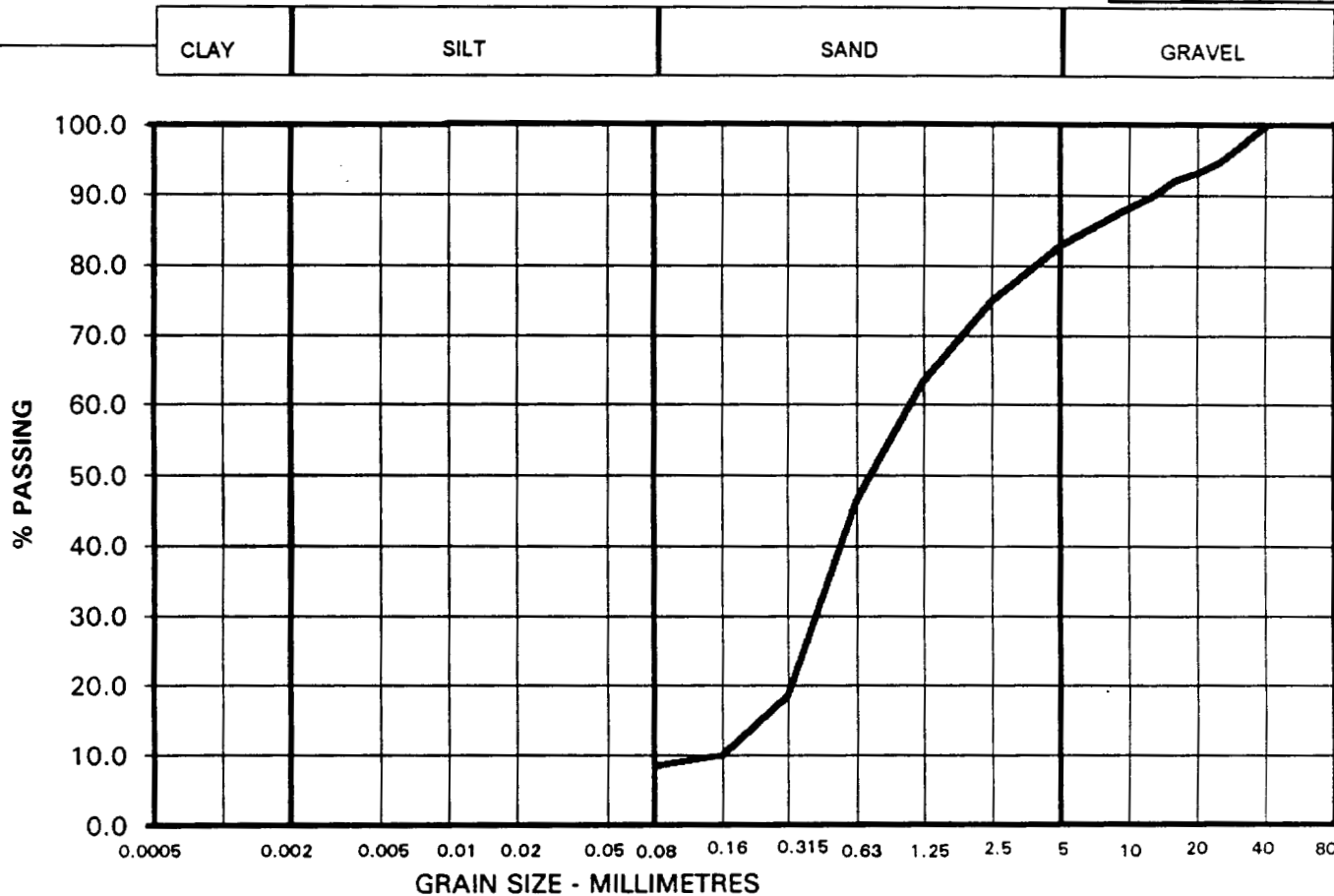
Cu: 6.9 Cc: 1.0

WATER CONTENT: 2.8%

TOTAL MASS: 7896 Grams

REMARKS: _____

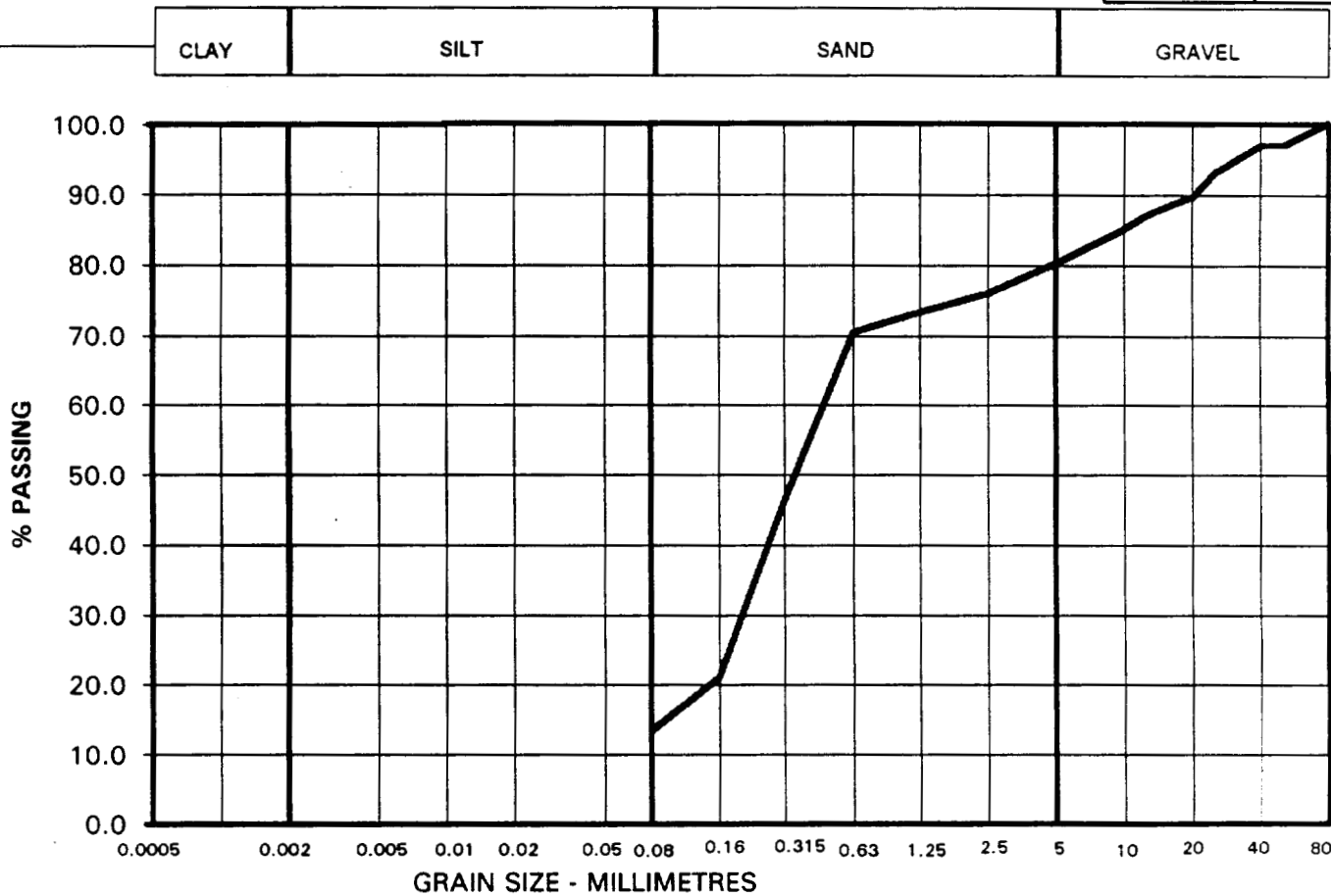
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	95
20	93
16	92
12.5	90
10	88
5	83
2.5	75
1.25	63
0.63	47
0.315	19
0.16	10
0.08	8.3



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 21 BY: ht EBA Eng.
 TESTPIT NO: d20d
 DEPTH: 0.15 - 0.50
 SOIL DESCRIPTION SAND(SM), some gravel, some silt,
medium-grained, subrounded, brown.
 Cu: _____ Cc: _____
 WATER CONTENT: 2.4%
 TOTAL MASS: 12051 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	97
40	97
25	93
20	90
16	88
12.5	87
10	85
5	80
2.5	76
1.25	73
0.63	71
0.315	46
0.16	21
0.08	13.5



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 21 BY: htEBA Eng.
TESTPIT NO: d20gc
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SAND(SP), gravelly, trace silt, some organics,
subangular - subrounded, light brown.

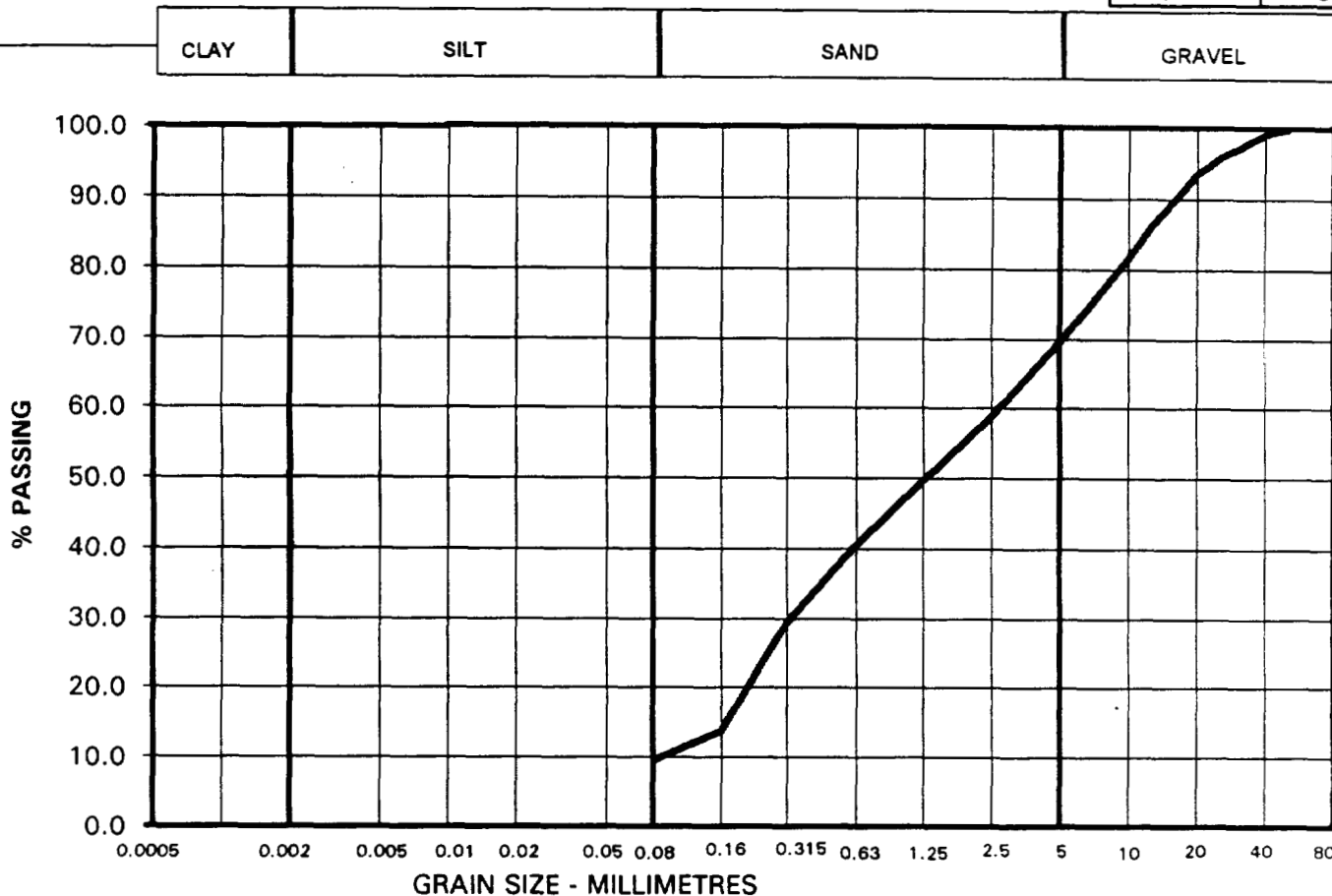
Cu: 30.9 Cc: 0.5

WATER CONTENT: 2.7%

TOTAL MASS: 13086 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	99
25	96
20	94
16	90
12.5	86
10	81
5	70
2.5	59
1.25	50
0.63	41
0.315	29
0.16	14
0.08	9.5



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 21 BY: htEBA Eng.
 TESTPIT NO: d21d
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND(SM), silty, trace gravel, some organics,
fine-grained, subangular, brown.

Cu: _____ Cc: _____

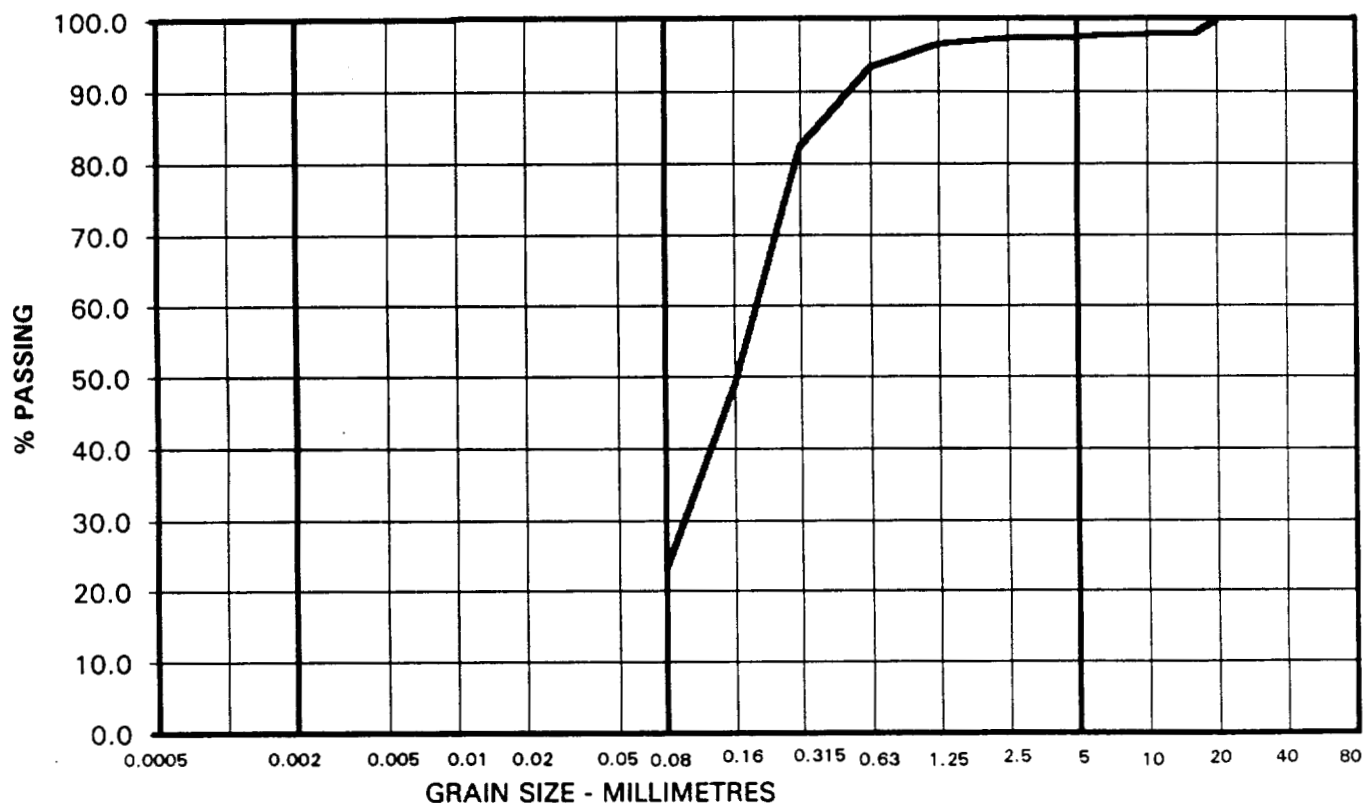
WATER CONTENT: 4.5%

TOTAL MASS: 9900 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	98
12.5	98
10	98
5	98
2.5	97
1.25	97
0.63	93
0.315	83
0.16	49
0.08	23.3

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Eaker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 21 BY: htEBA Eng.
TESTPIT NO: d21gc
DEPTH: 0.15 - 0.70
SOIL DESCRIPTION SAND(SW), trace silt, trace gravel, some organics,
subrounded, brown.

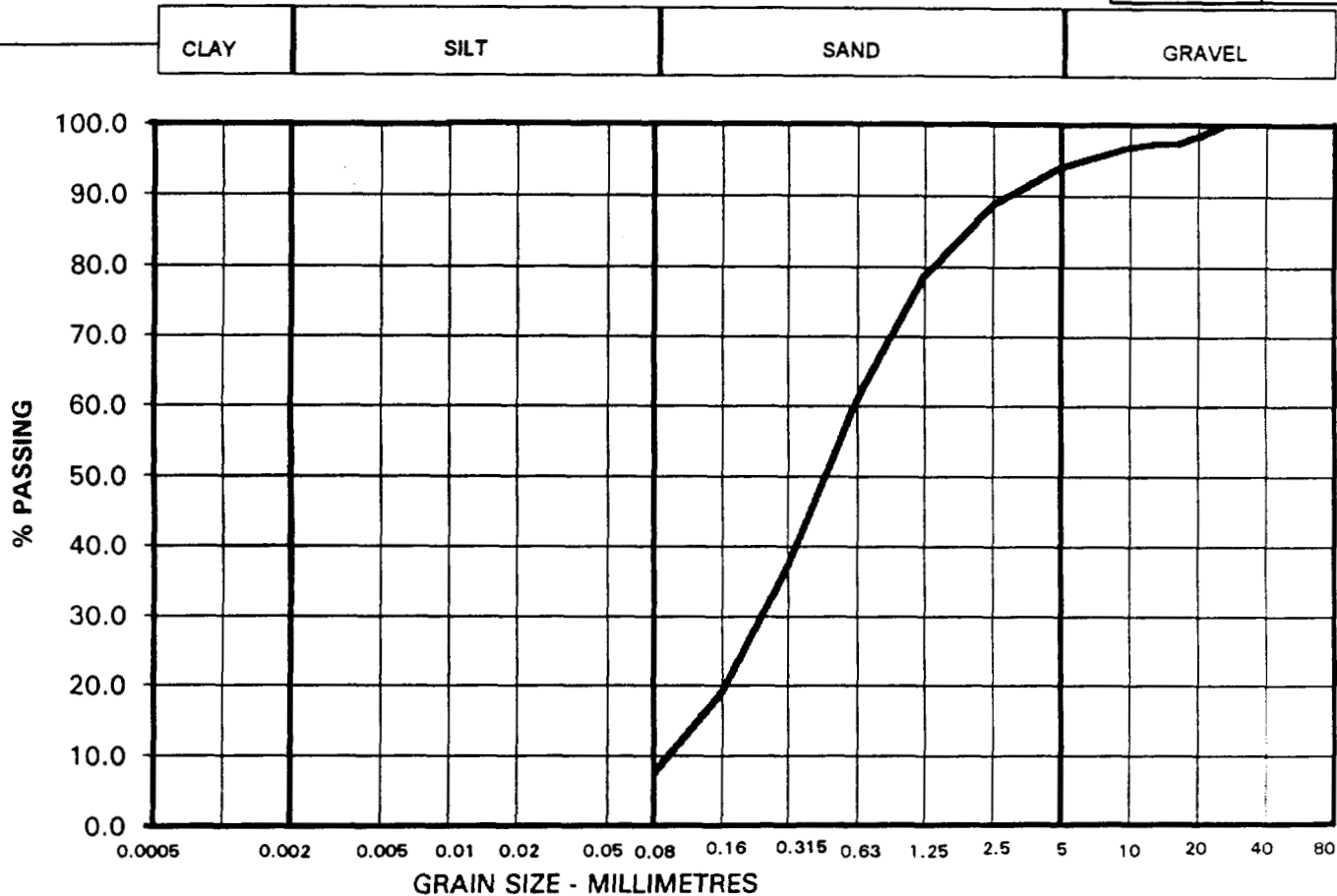
Cu: 6.6 Cc: 1.0

WATER CONTENT: 1.6%

TOTAL MASS: 9755 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	99
16	98
12.5	98
10	97
5	94
2.5	89
1.25	79
0.63	61
0.315	37
0.16	19
0.08	7.6



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 20 BY: ht EBA Eng.
 TESTPIT NO: d22d
 DEPTH: 0.15 - 0.90
 SOIL DESCRIPTION SAND(SM), some silt,
fine-grained, uniform, subrounded, brown.

Cu: _____ Cc: _____

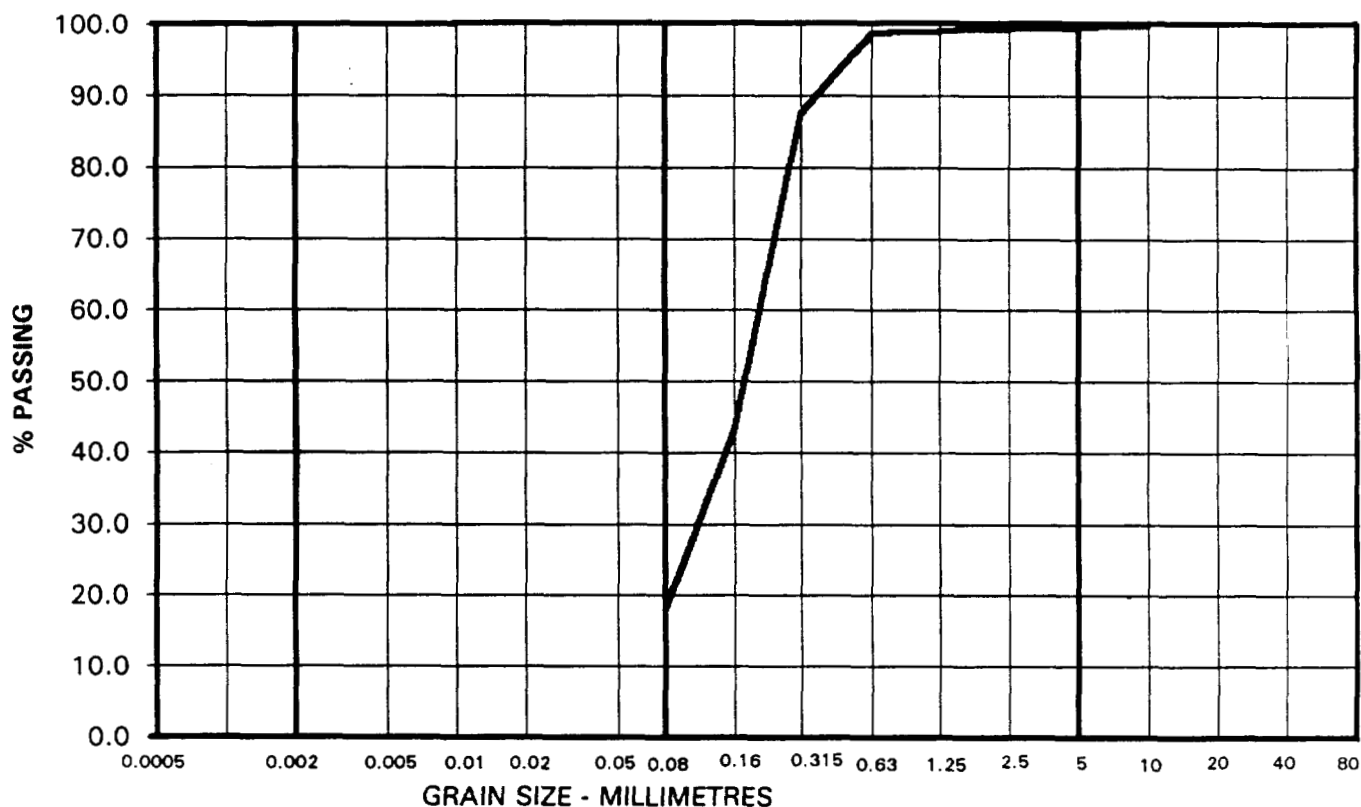
WATER CONTENT: 1.6%

TOTAL MASS: 6063 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	99
1.25	99
0.63	99
0.315	87
0.16	43
0.08	18.1

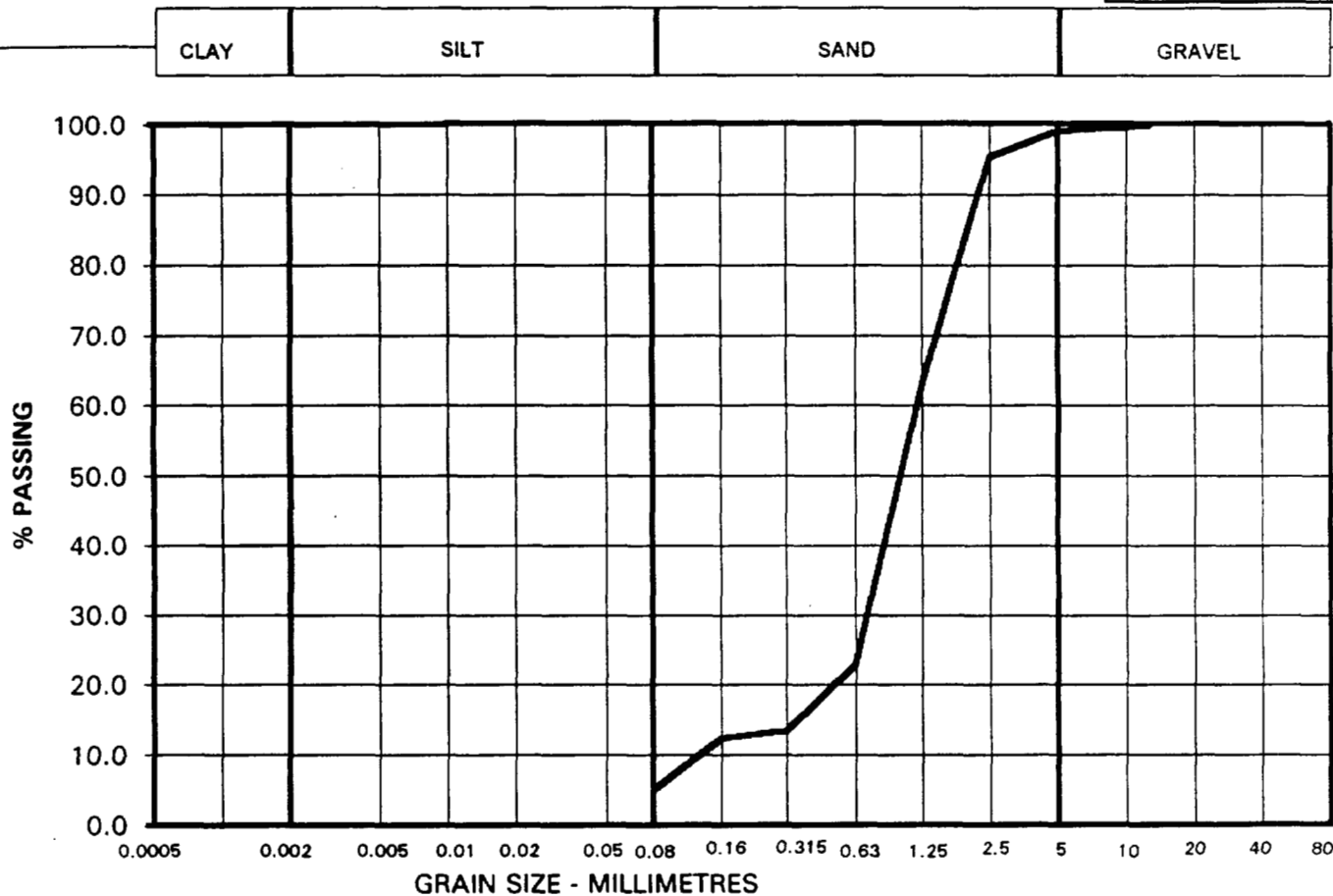
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 21 BY: ht EBA Eng.
 TESTPIT NO: d22gc
 DEPTH: 0.15 - 0.75
 SOIL DESCRIPTION SAND(gw), trace silt,
medium-grained, subrounded, brown.
 Cu: 9.3 Cc: 3.3
 WATER CONTENT: 0.9%
 TOTAL MASS: 6276 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	100
5	99
2.5	95
1.25	63
0.63	23
0.315	13
0.16	12
0.08	5.0



PARTICLE - SIZE ANALYSIS OF SOILS

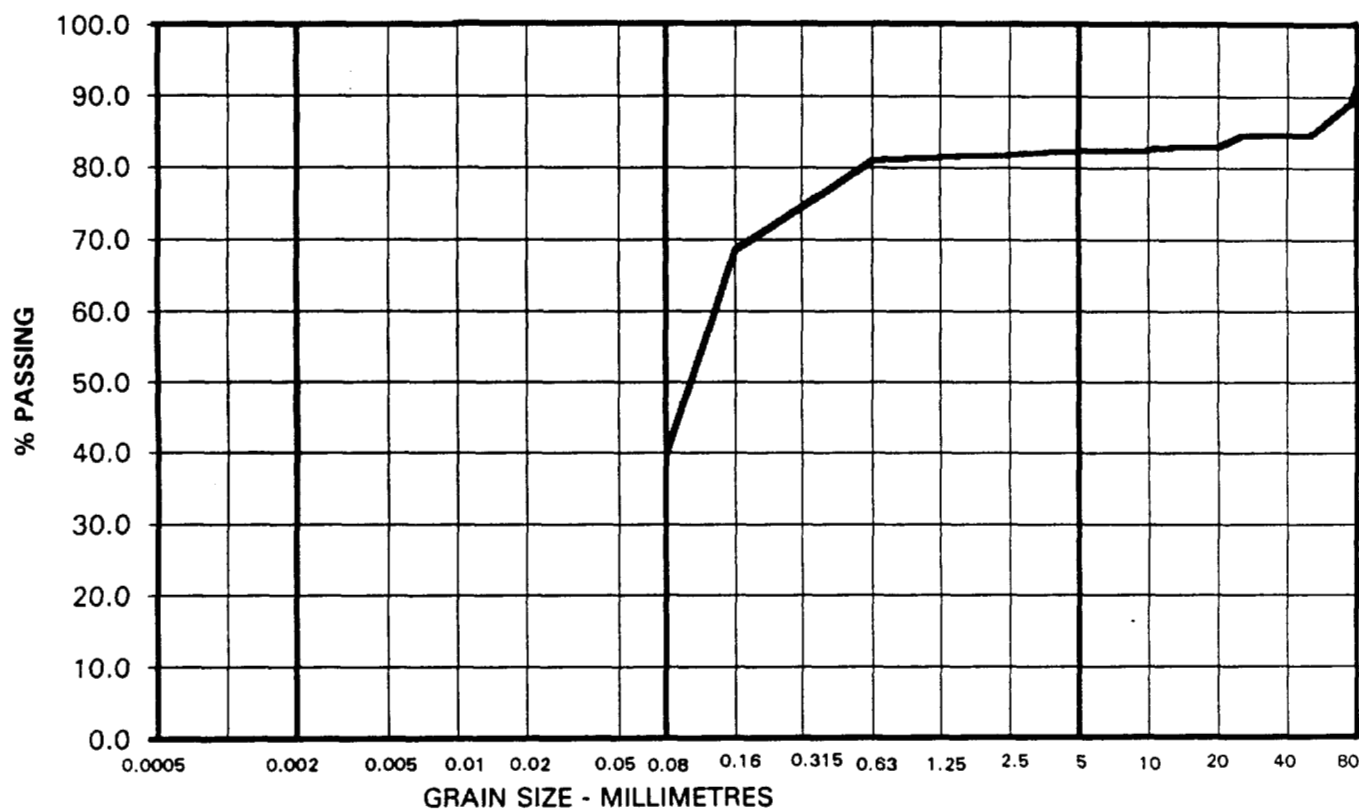
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 21 BY: ht EBA Eng.
 TESTPIT NO: d23d
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND and SILT(SM - ML), some gravel,
med - fine-grained, subrounded, brown.

Cu: _____ Cc: _____
 WATER CONTENT: 3.9%
 TOTAL MASS: 8840 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	100
75	89
50	84
40	84
25	84
20	83
16	83
12.5	83
10	83
5	82
2.5	82
1.25	81
0.63	81
0.315	74
0.16	68
0.08	39.6

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 20 BY: ht EBA Eng.
TESTPIT NO: d23gc
DEPTH: 0.15 - 0.70
SOIL DESCRIPTION SAND(SM), some silt,
fine-grained, uniform, subrounded, brown.

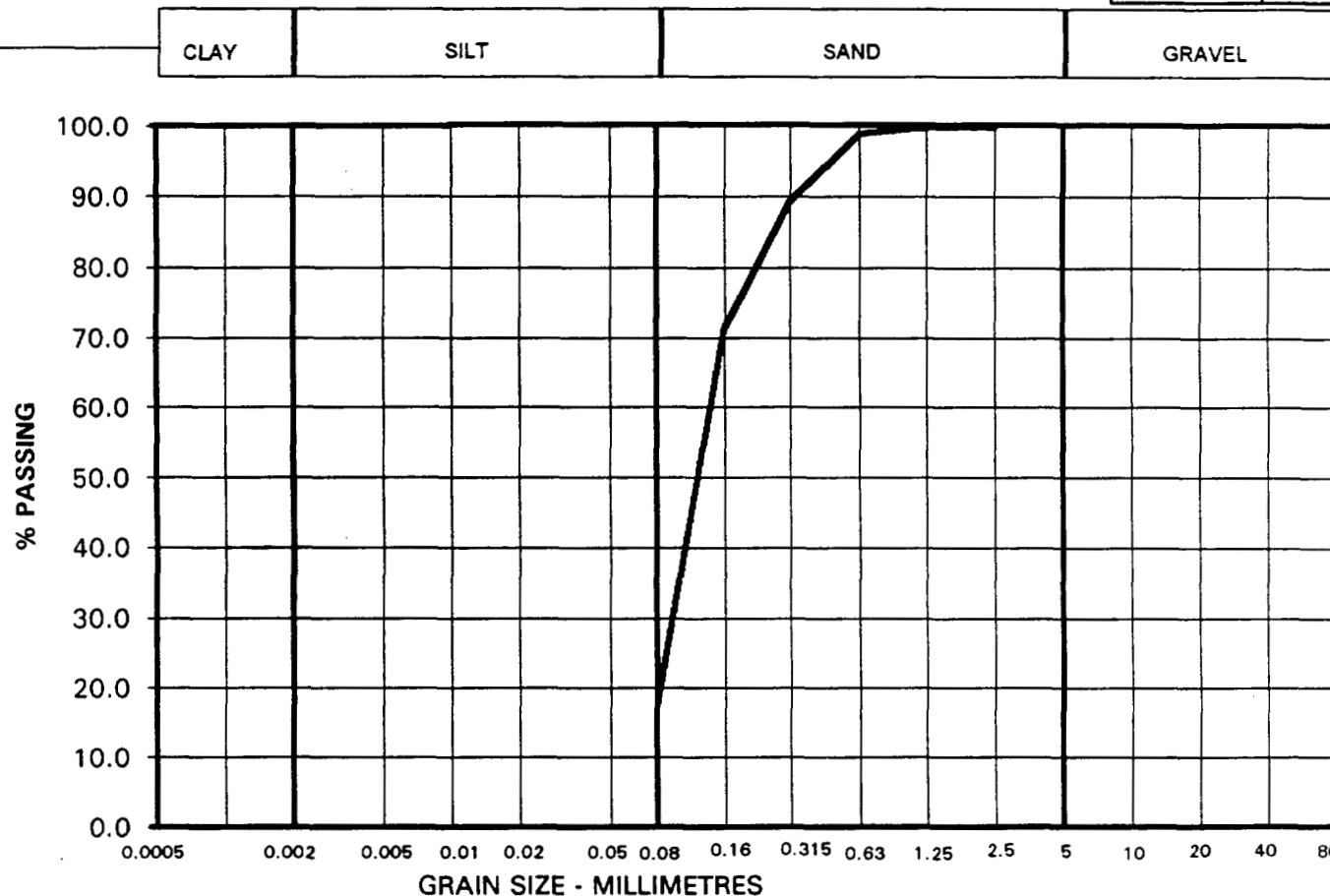
Cu: _____ Cc: _____

WATER CONTENT: 4.8%

TOTAL MASS: 6523 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	
2.5	100
1.25	100
0.63	99
0.315	89
0.16	71
0.08	17.8



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 20 BY: ht EBA Eng.
TESTPIT NO: d24d
DEPTH: 0.15 - 0.70
SOIL DESCRIPTION SAND and SILT(SM - ML),
fine-grained, uniform, subrounded, brown.

Cu: _____ Cc: _____

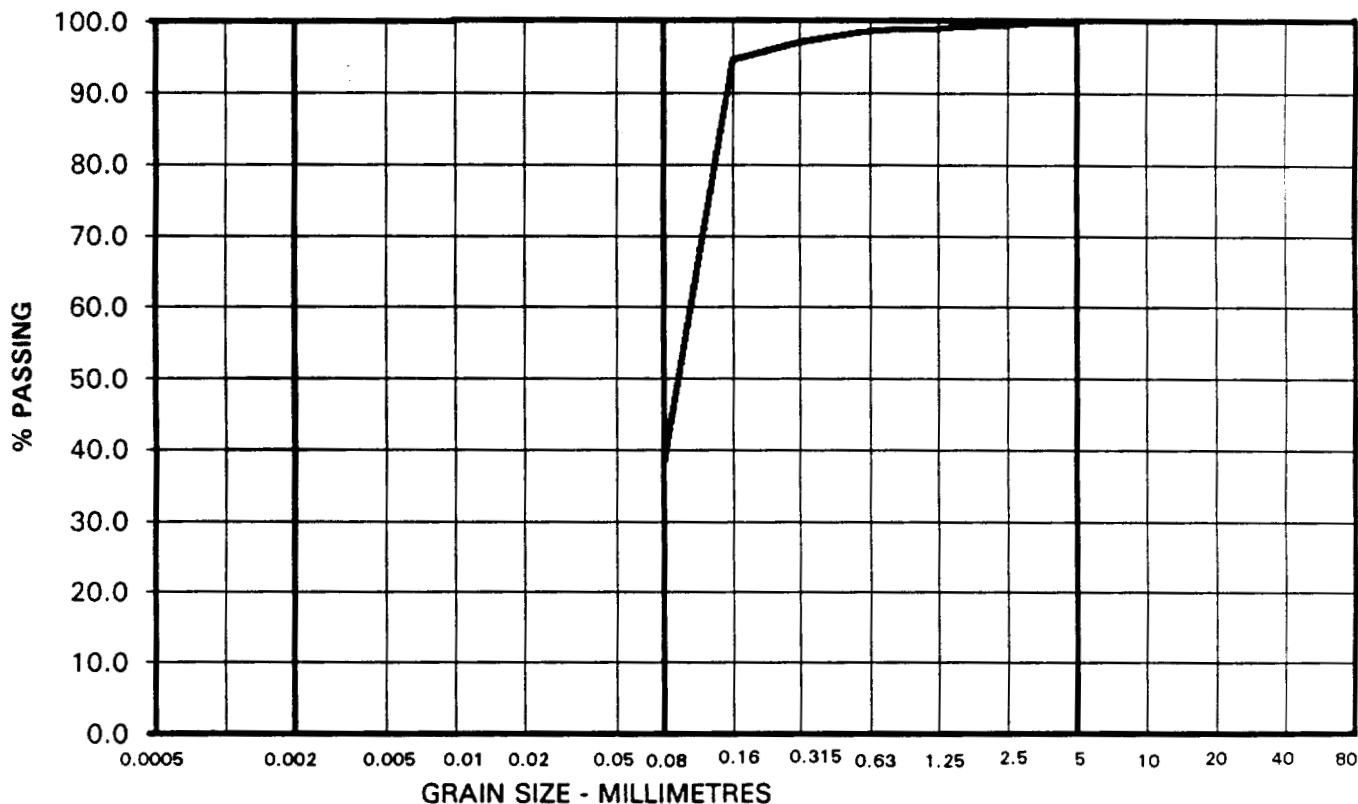
WATER CONTENT: 4.6%

TOTAL MASS: 5617 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	99
0.63	99
0.315	97
0.16	95
0.08	38.1

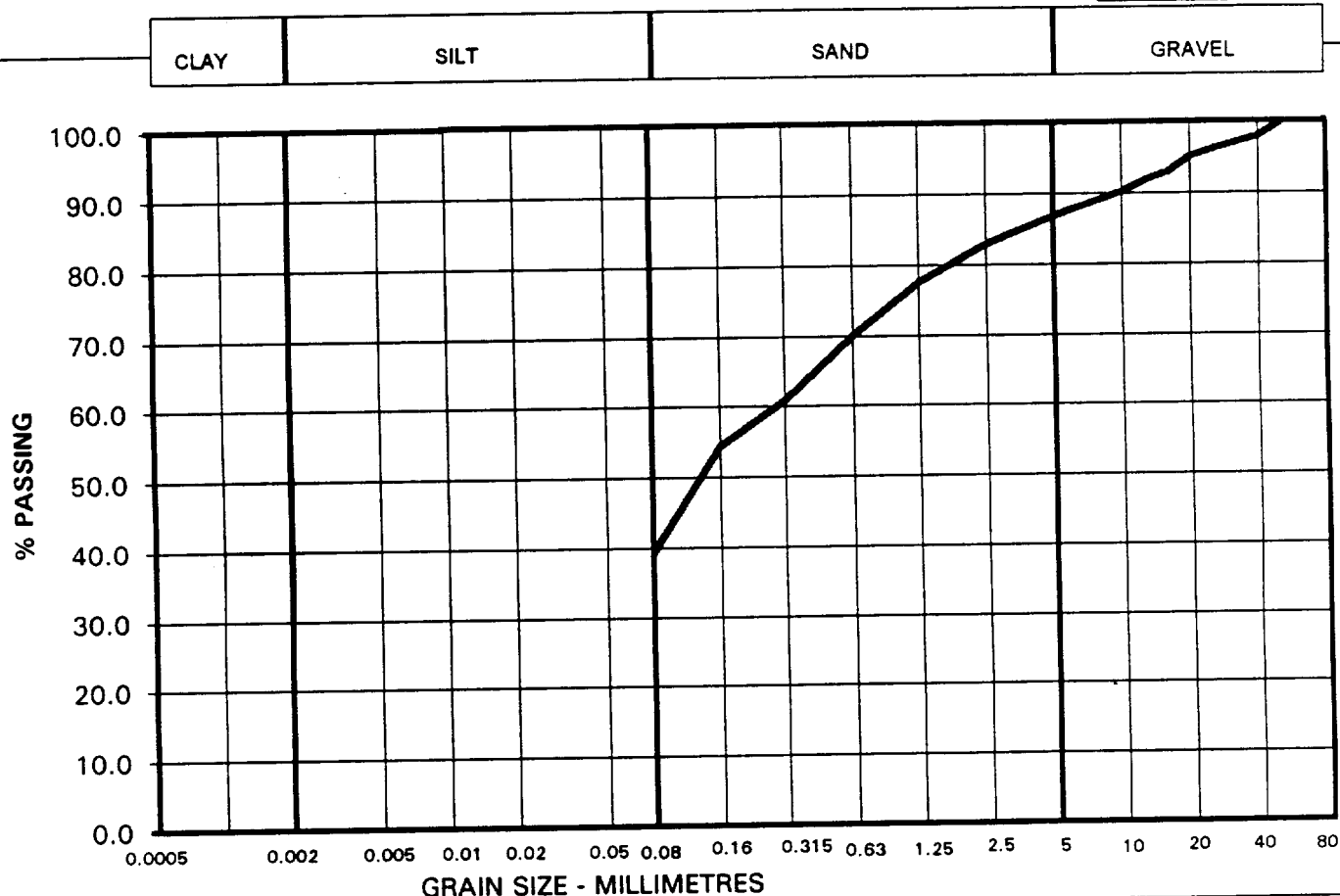
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 20 BY: ht EBA Eng.
 TESTPIT NO: d24gc
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND and SILT(SM - ML), some gravel,
well-graded, subrounded, brown.
 Cu: _____ Cc: _____
 WATER CONTENT: 9.5%
 TOTAL MASS: 6715 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	98
25	96
20	95
16	93
12.5	92
10	90
5	87
2.5	83
1.25	77
0.63	70
0.315	61
0.16	54
0.08	39.2



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 22 BY: htEBA Eng.
TESTPIT NO: d25d
DEPTH: 0.15 - 1.0
SOIL DESCRIPTION SAND(SP), some silt, trace gravel, some organics,
fine-grained, uniform, subrounded, brown.

Cu: _____ Cc: _____

WATER CONTENT: 4.3%

TOTAL MASS: 9629 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	100
5	99
2.5	98
1.25	97
0.63	96
0.315	84
0.16	52
0.08	16.7



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 22 BY: htEBA Eng.
TESTPIT NO: d25gc
DEPTH: 0.15 - 0.70
SOIL DESCRIPTION SAND(SP), some gravel, trace silt, some organics,
fine-grained, subrounded, light brown.

Cu: 2.8 Cc: 1.2

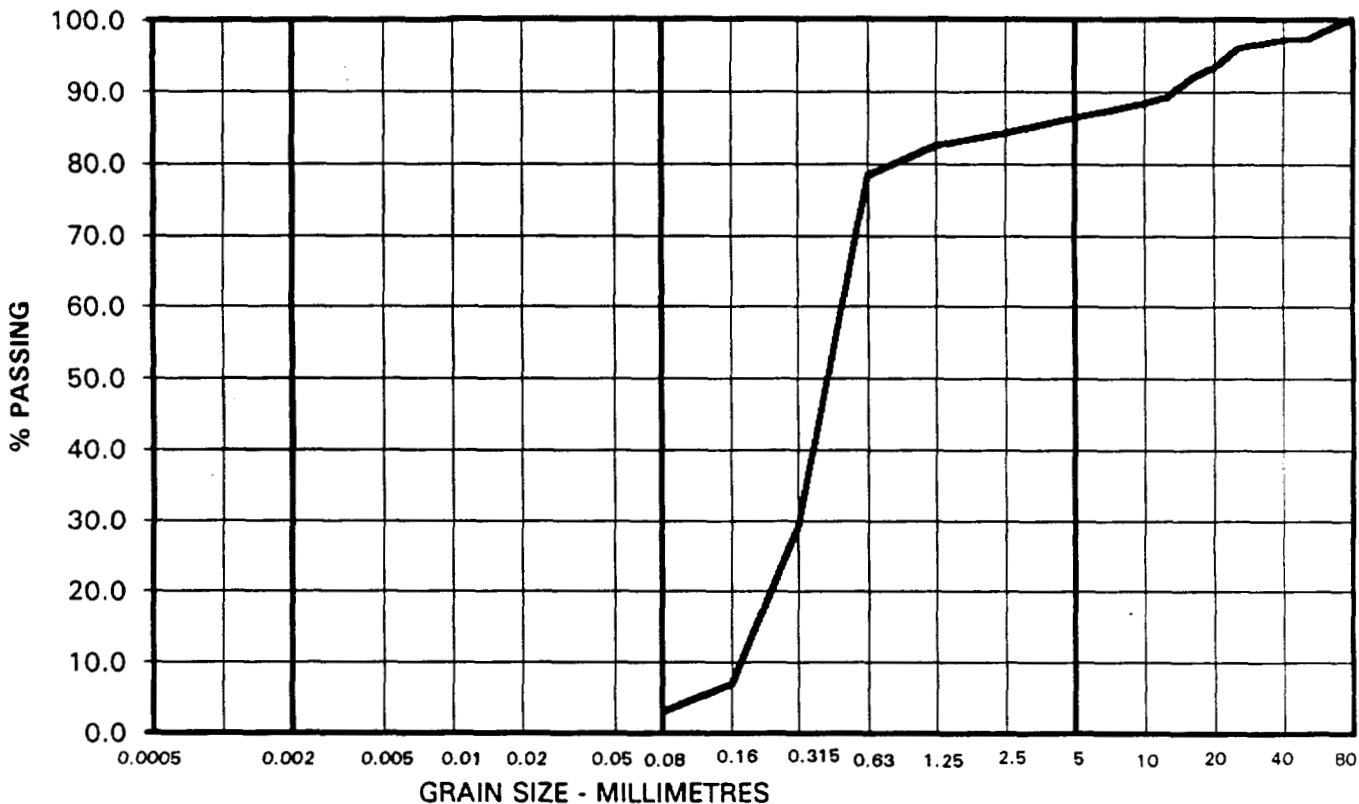
WATER CONTENT: 2.5%

TOTAL MASS: 6925 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	97
40	97
25	96
20	93
16	92
12.5	89
10	88
5	86
2.5	84
1.25	83
0.63	78
0.315	29
0.16	7
0.08	3.1

CLAY	SILT	SAND	GRAVEL
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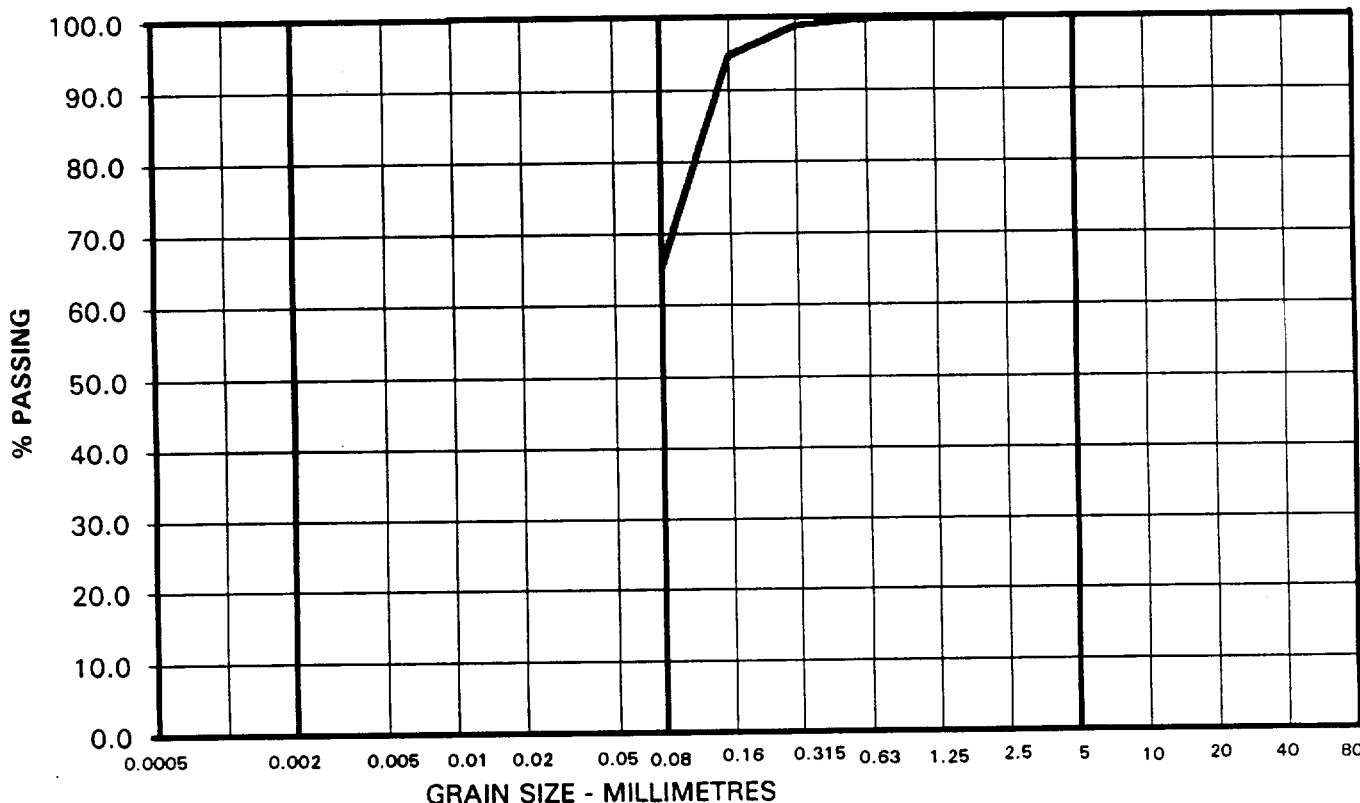
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 21 BY: ht EBA Eng.
 TESTPIT NO: d26d
 DEPTH: 0.15 - 0.80
 SOIL DESCRIPTION SILT(ML), sandy, trace organics,
fine-grained, uniform, subrounded, brown.

Cu: _____ Cc: _____
 WATER CONTENT: 14.5%
 TOTAL MASS: 7905 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	
2.5	100
1.25	100
0.63	100
0.315	99
0.16	95
0.08	65.2

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 22 BY: htEBA Eng.
TESTPIT NO: d26gc
DEPTH: 0.15 - 0.7
SOIL DESCRIPTION SAND(SM), silty, trace gravel, some organics,
subrounded, dark brown.

Cu: _____ Cc: _____

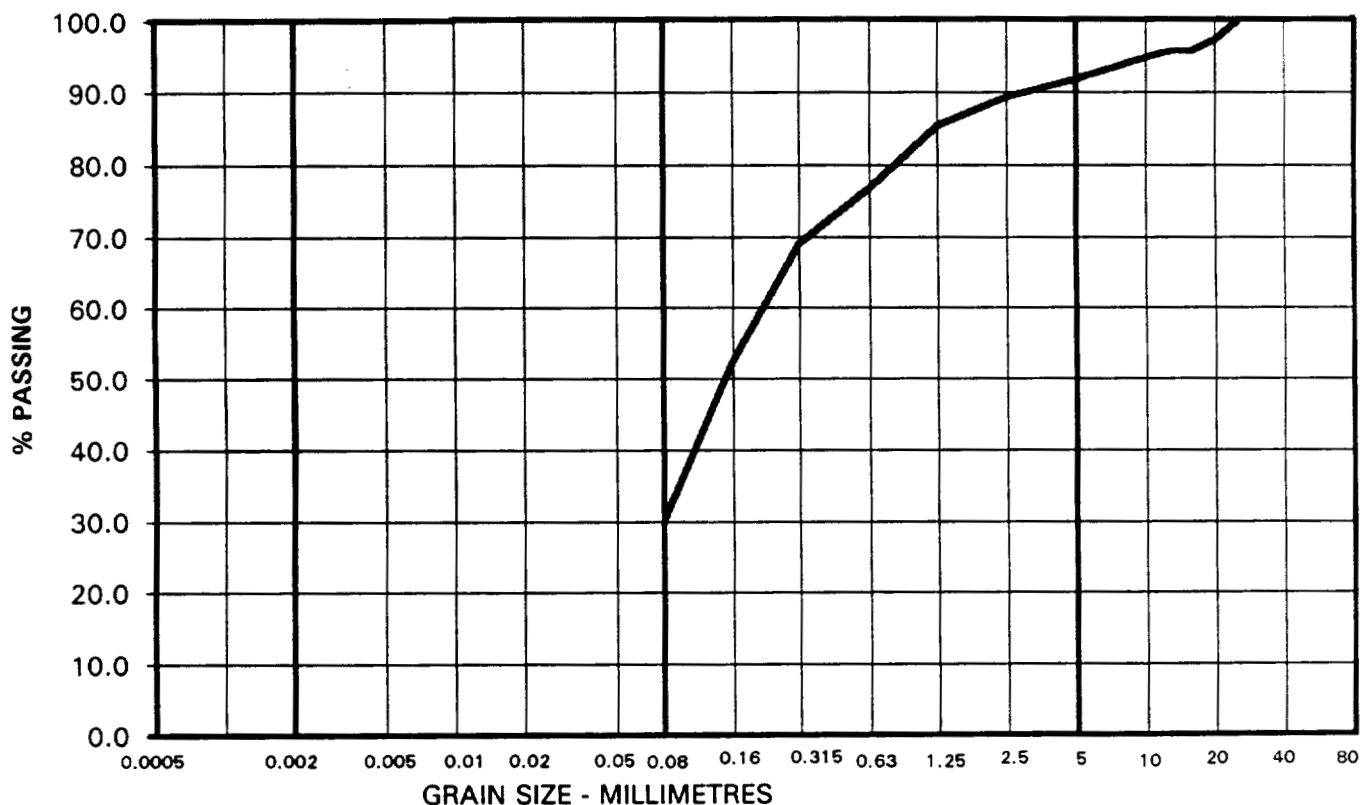
WATER CONTENT: 7.1%

TOTAL MASS: 6104 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	97
16	96
12.5	96
10	95
5	92
2.5	89
1.25	85
0.63	77
0.315	69
0.16	53
0.08	30.2

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 21 BY: htEBA Eng.

TESTPIT NO: d27d

DEPTH: 0.15 - 0.90

SOIL DESCRIPTION SAND(SP), trace silt, some organics,

fine-grained, uniform, light brown.

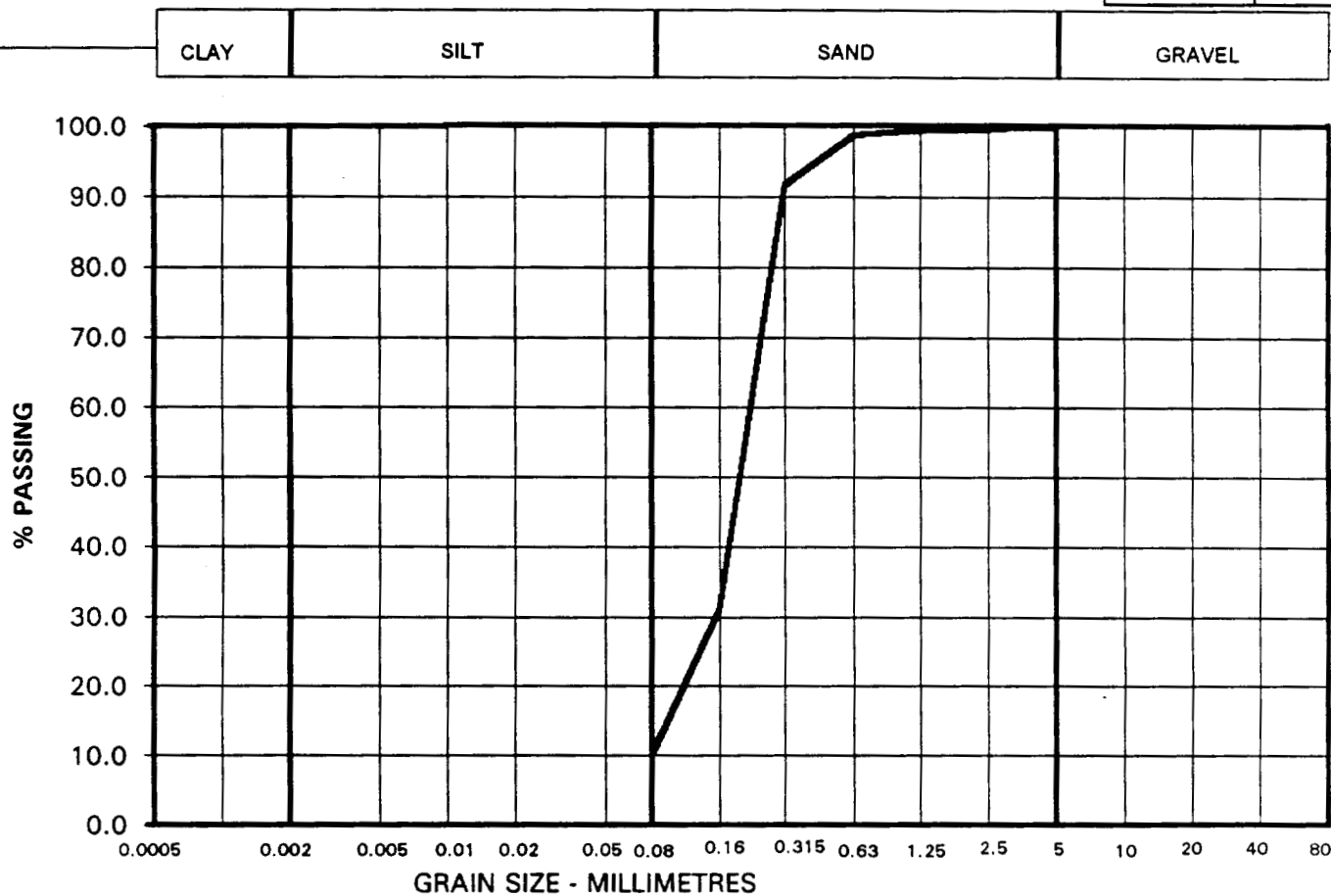
Cu: 2.8 Cc: 1.3

WATER CONTENT: 5.9%

TOTAL MASS: 10421 Grams

REMARKS: _____

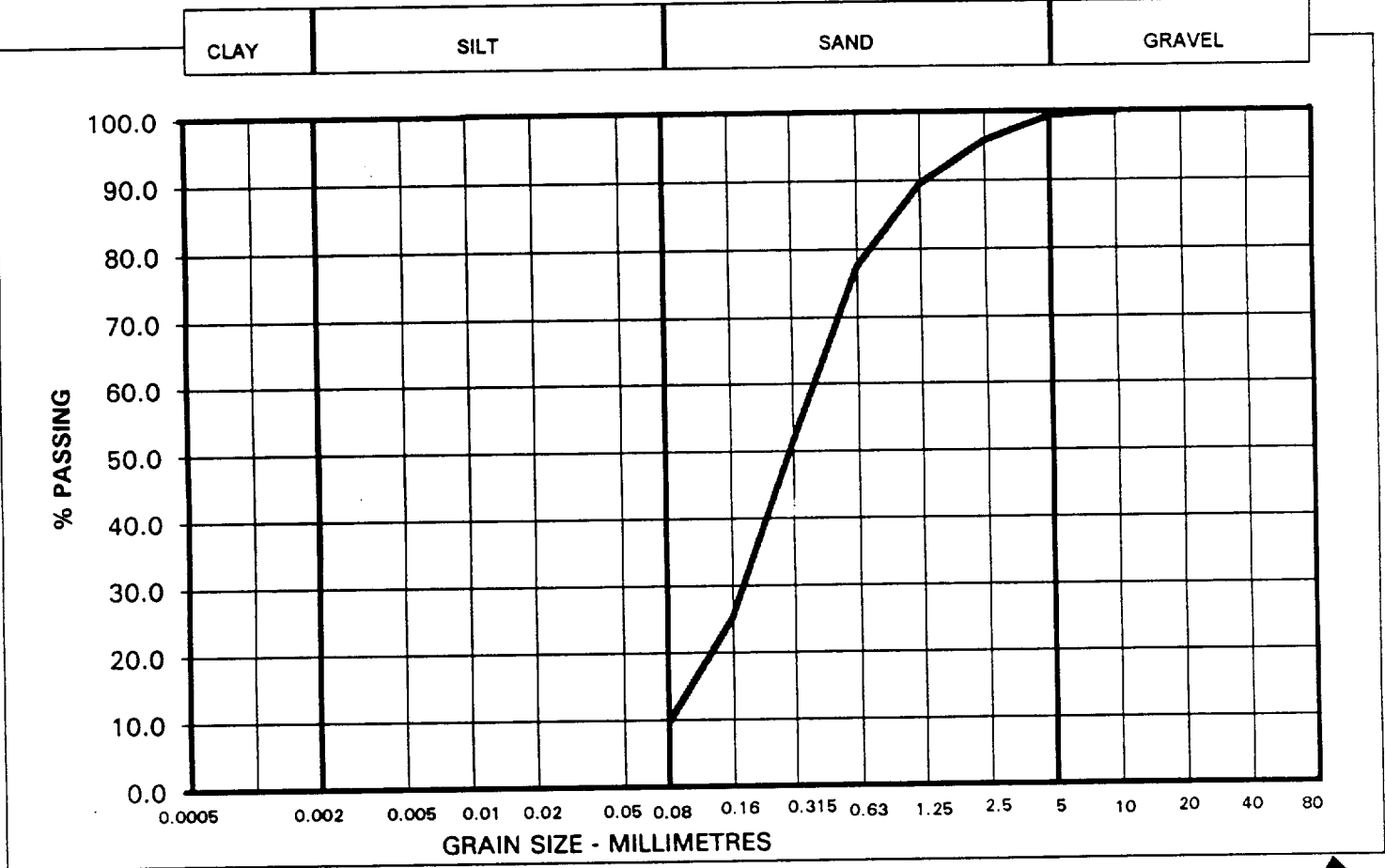
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	99
0.63	99
0.315	92
0.16	31
0.08	10.0



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 22 BY: htEBA Eng.
TESTPIT NO: d27gc
DEPTH: 0.15 - 0.9
SOIL DESCRIPTION SAND(SP), trace silt,trace organics,
fine-grained, subrounded, brown.
Cu: 4.9 Cc: 1.0
WATER CONTENT: 5.3%
TOTAL MASS: 10214 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	96
1.25	89
0.63	78
0.315	51
0.16	25
0.08	9.6

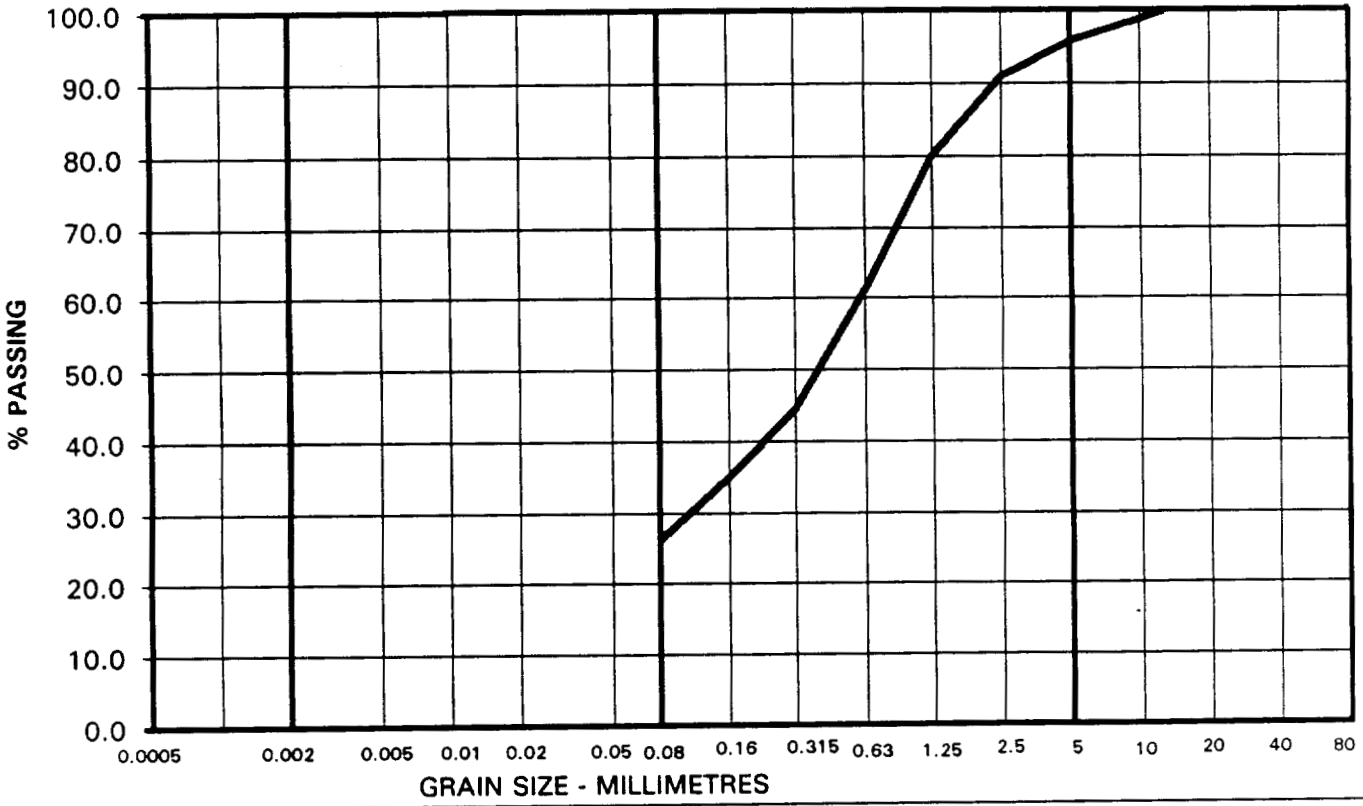


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 22 BY: htEBA Eng.
TESTPIT NO: d28d
DEPTH: 0.15 - 0.8
SOIL DESCRIPTION SAND(SM), some silt, trace gravel,some organics,
subrounded, dark brown.
Cu: _____ Cc: _____
WATER CONTENT: 27.3%
TOTAL MASS: 9236 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	99
5	96
2.5	91
1.25	80
0.63	61
0.315	44
0.16	35
0.08	26.1

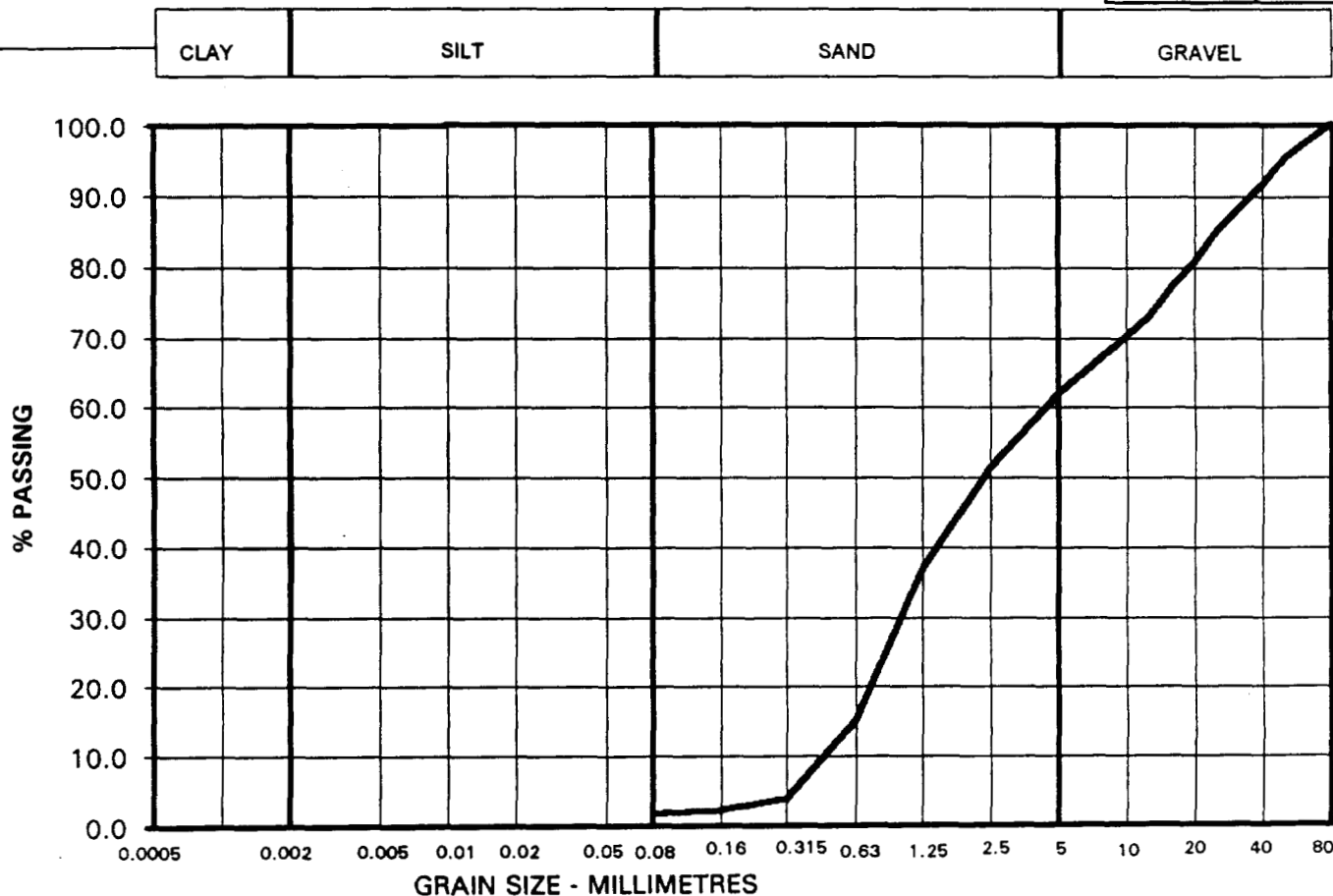
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 22 BY: htEBA Eng.
 TESTPIT NO: d28gc
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND and GRAVEL(SP - GP), trace silt,some organics,
subrounded, dark brown.
 Cu: 9.6 Cc: 0.5
 WATER CONTENT: 1.5%
 TOTAL MASS: 12415 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	96
40	92
25	85
20	81
16	78
12.5	73
10	70
5	62
2.5	52
1.25	37
0.63	15
0.315	4
0.16	2
0.08	1.7

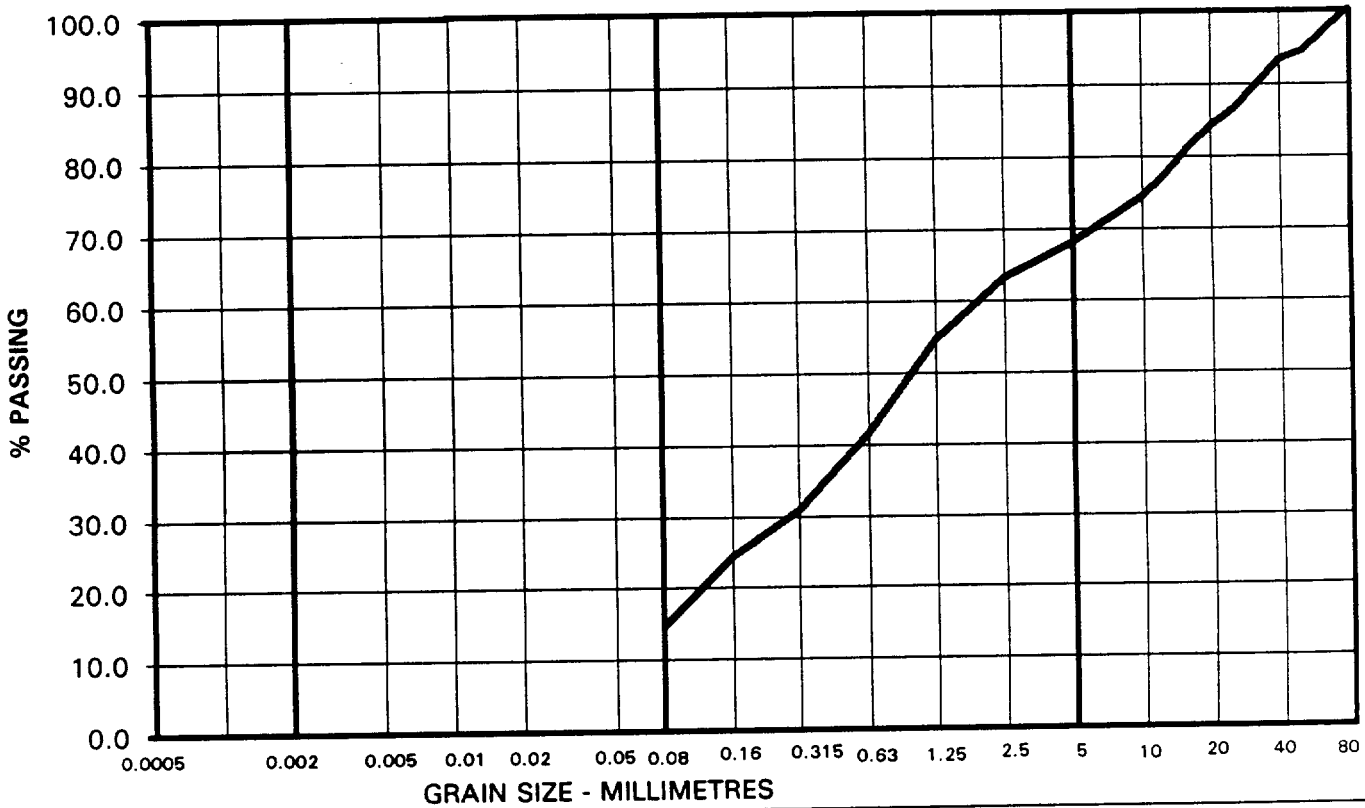


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 22 BY: htEBA Eng.
TESTPIT NO: d29d
DEPTH: 0.15 - 0.70
SOIL DESCRIPTION SAND(SM), gravelly, some silt,some organics,
well-graded, subrounded, dark brown.
Cu: _____ Cc: _____
WATER CONTENT: 2.7%
TOTAL MASS: 8823 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	95
40	93
25	87
20	84
16	81
12.5	77
10	74
5	68
2.5	63
1.25	55
0.63	42
0.315	31
0.16	24
0.08	14.6

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 21 BY: htEBA Eng.
TESTPIT NO: d29gc
DEPTH: 0.15 - 0.45
SOIL DESCRIPTION GRAVEL(GW). sandy.
well-graded, subrounded, brown.

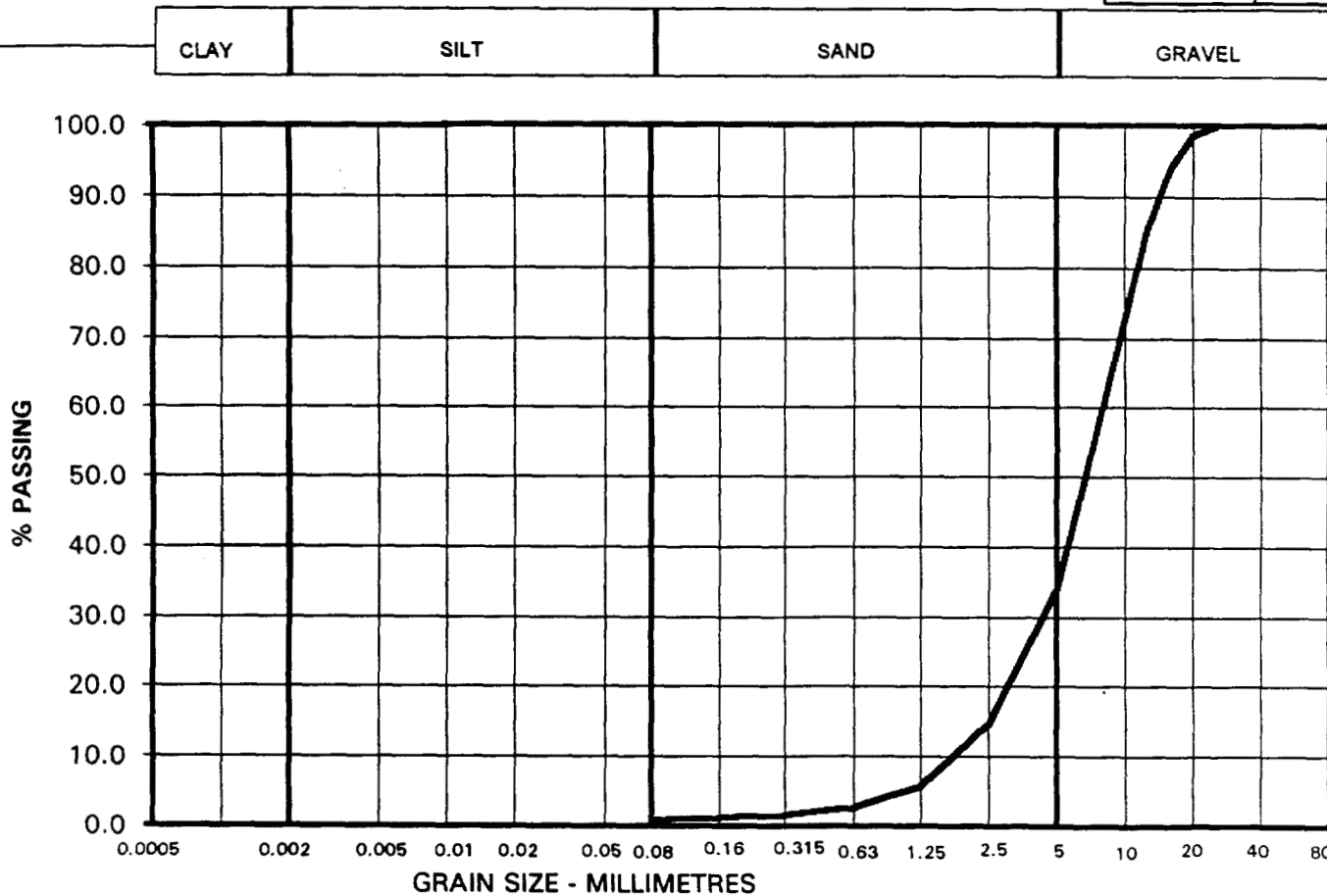
Cu: 4.3 Cc: 1.3

WATER CONTENT: 1.2%

TOTAL MASS: 14744 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	99
16	94
12.5	85
10	72
5	34
2.5	15
1.25	6
0.63	3
0.315	2
0.16	1
0.08	0.9



PARTICLE - SIZE ANALYSIS OF SOILS

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	99
1.25	98
0.63	94
0.315	85
0.16	60
0.08	25.8

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 22 BY: htEBA Eng.

TESTPIT NO: d30d

DEPTH: 0.15 - 0.70

SOIL DESCRIPTION SAND(SM), silty, some organics,

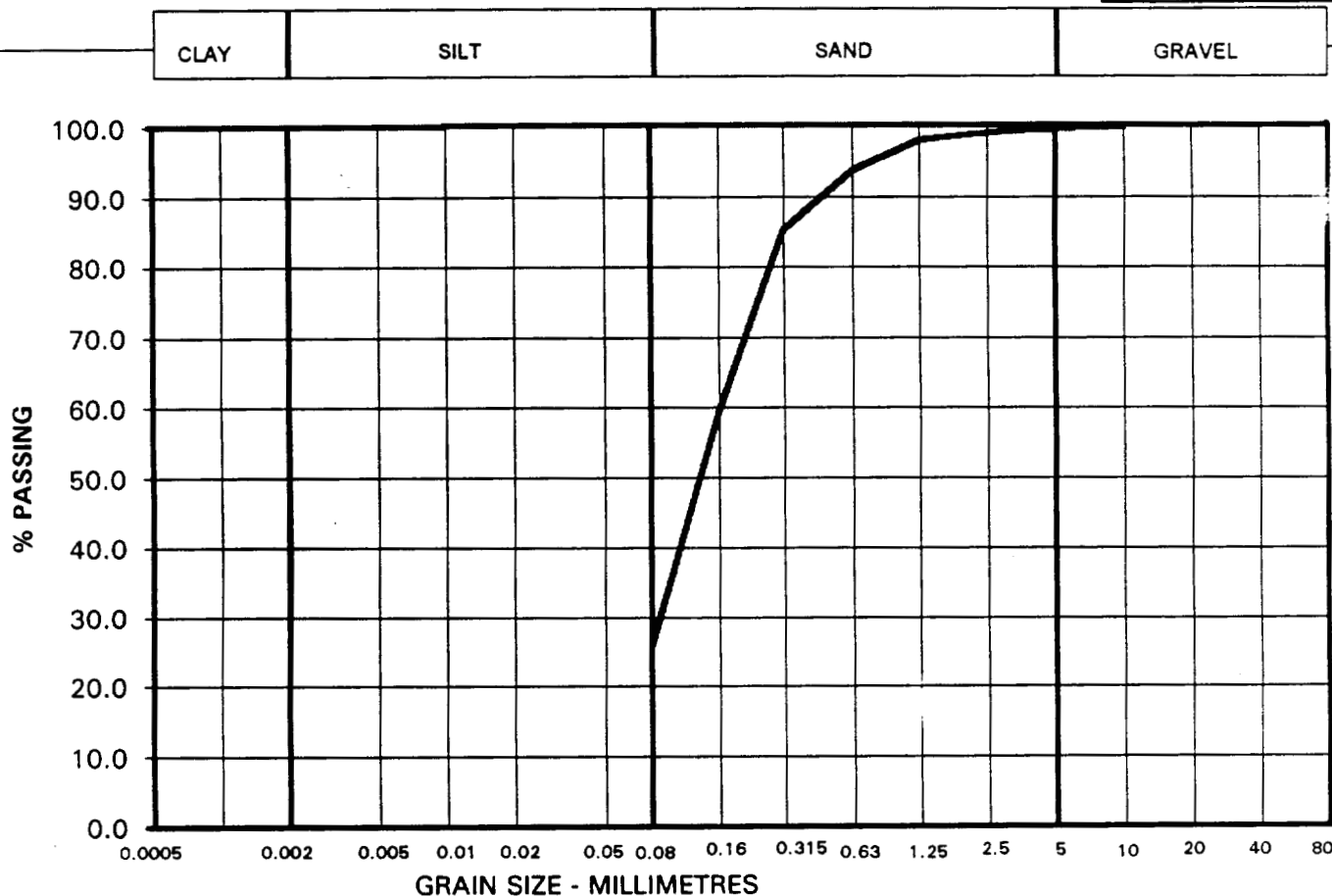
fine-grained, uniform, brown.

Cu: _____ Cc: _____

WATER CONTENT: 13.2%

TOTAL MASS: 7624 Grams

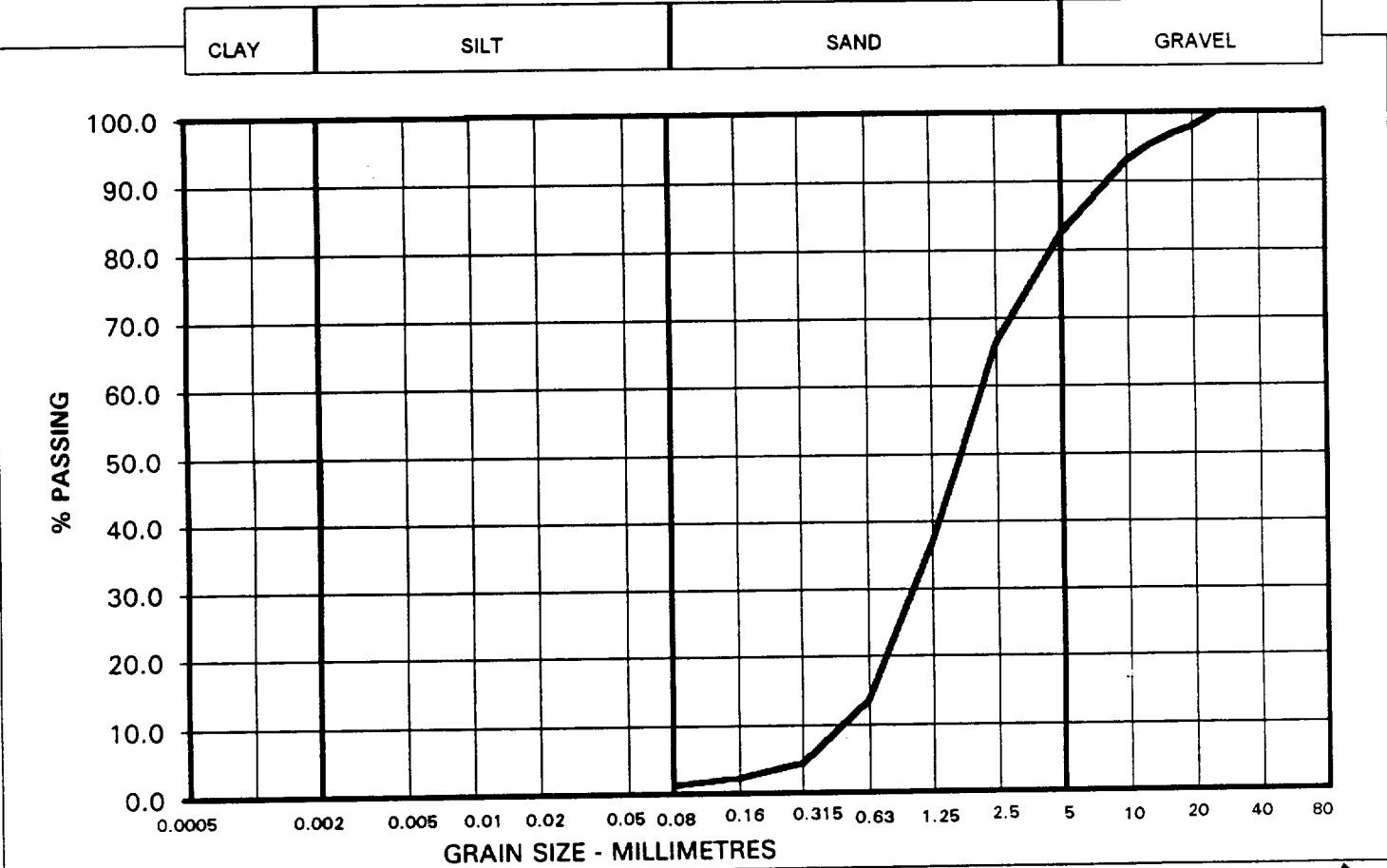
REMARKS: _____



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 21 BY: htEBA Eng.
TESTPIT NO: d30gc
DEPTH: 0.15 - 0.50
SOIL DESCRIPTION SAND(SP), some gravel, trace silt,
medium-grained, subrounded, brown.
Cu: 4.5 Cc: 1.0
WATER CONTENT: 0.9%
TOTAL MASS: 7128 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	98
16	97
12.5	95
10	93
5	82
2.5	66
1.25	37
0.63	14
0.315	4
0.16	2
0.08	1.2



PARTICLE - SIZE ANALYSIS OF SOILS

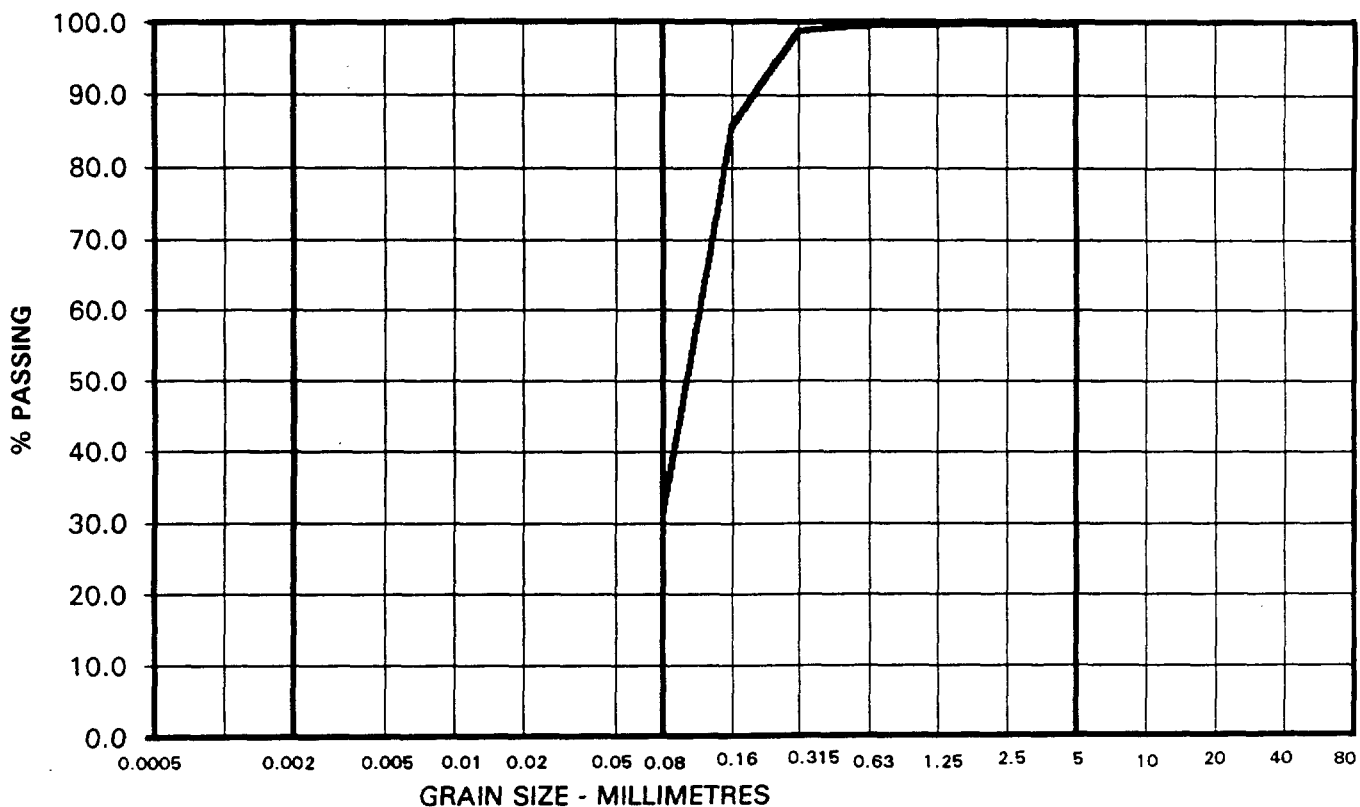
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 22 BY: htEBA Eng.
 TESTPIT NO: d31d
 DEPTH: 0.15 - 0.7
 SOIL DESCRIPTION SAND(SM), silty, trace organics,
fine-grained, uniform, light brown.

Cu: _____ Cc: _____
 WATER CONTENT: 4.5%
 TOTAL MASS: 7073 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	100
0.63	100
0.315	99
0.16	86
0.08	31.4

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 29 BY: ht EBA Eng.
TESTPIT NO: d31gc
DEPTH: 0.15 - 0.50
SOIL DESCRIPTION GRAVEL and SAND(GP - SP), trace silt,
subrounded, brown.

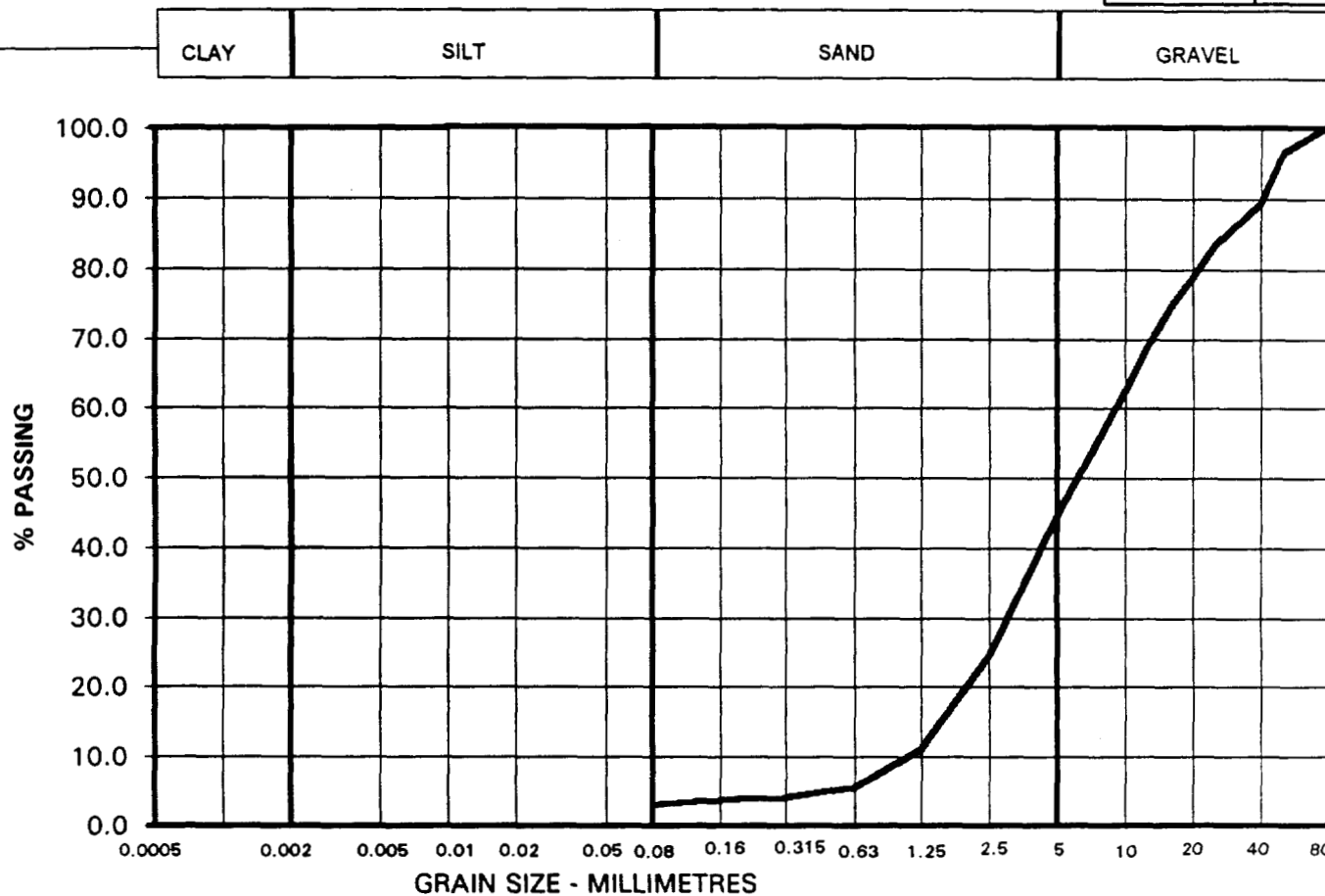
Cu: 7.4 Cc: 0.8

WATER CONTENT: 1.3%

TOTAL MASS: 14009 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	97
40	90
25	84
20	79
16	75
12.5	69
10	63
5	45
2.5	25
1.25	11
0.63	5
0.315	4
0.16	4
0.08	3.1



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 22 BY: ht EBA Eng.
TESTPIT NO: d32d
DEPTH: 0.15 - 0.50
SOIL DESCRIPTION SAND and GRAVEL(SM - GM),some silt,
some organics, subrounded, light brown.

Cu: _____ Cc: _____

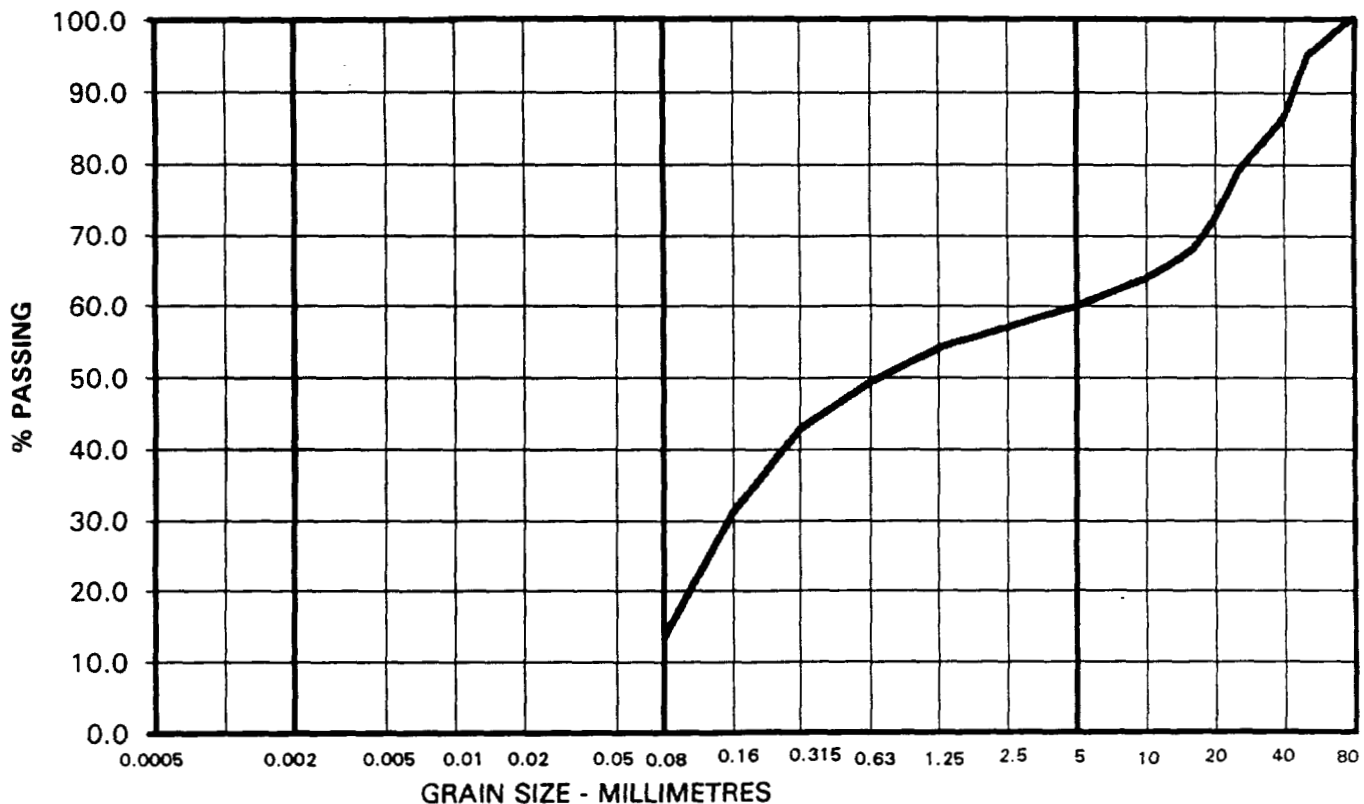
WATER CONTENT: 1.7%

TOTAL MASS: 13576 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	95
40	87
25	79
20	72
16	68
12.5	66
10	64
5	60
2.5	57
1.25	54
0.63	49
0.315	43
0.16	31
0.08	13.4

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 22 BY: ht EBA Eng.
TESTPIT NO: d32gc
DEPTH: 0.15 - 0.70
SOIL DESCRIPTION GRAVEL and SAND(GM - SM), some silt,
some organics, subrounded, light brown.

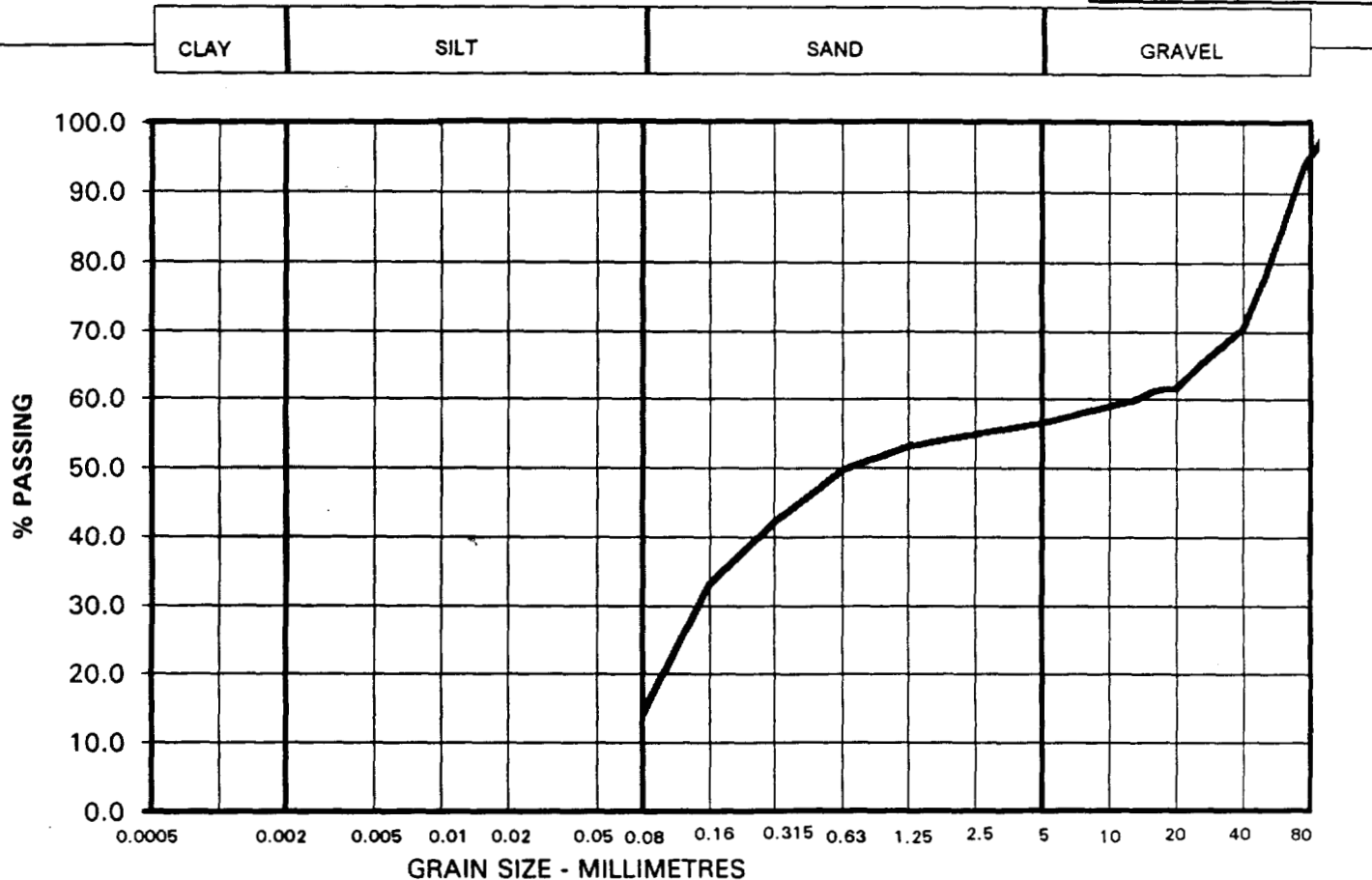
Cu: _____ Cc: _____

WATER CONTENT: 5.0%

TOTAL MASS: 10782 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	100
75	94
50	78
40	70
25	65
20	62
16	61
12.5	60
10	59
5	56
2.5	55
1.25	53
0.63	50
0.315	42
0.16	33
0.08	14.4



PARTICLE - SIZE ANALYSIS OF SOILS

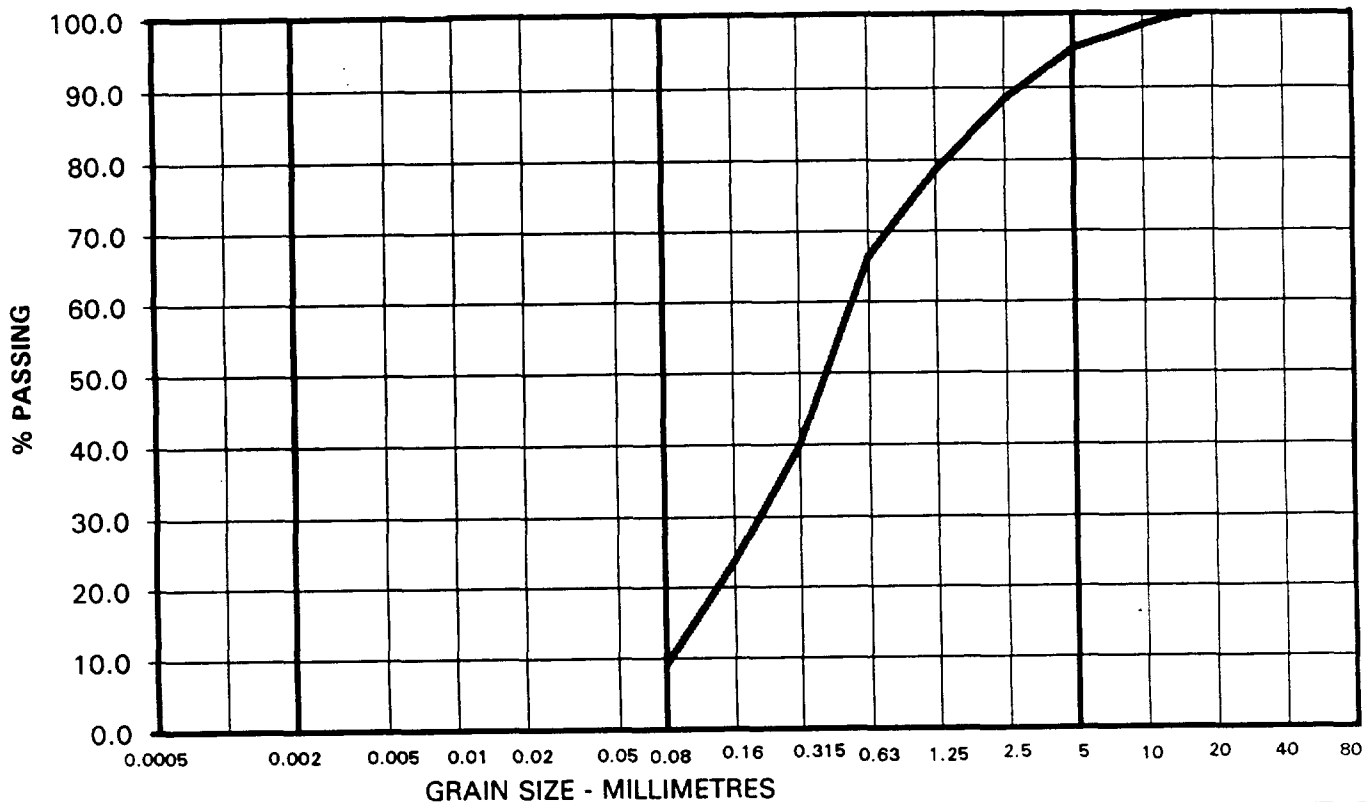
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 22 BY: htEBA Eng.
 TESTPIT NO: d33d
 DEPTH: 0.15 - .80
 SOIL DESCRIPTION SAND(SW), trace silt, trace gravel,
trace organics, subrounded, dark brown.

Cu: 6.4 Cc: 1.0
 WATER CONTENT: 2.4%
 TOTAL MASS: 8570 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	100
10	99
5	95
2.5	88
1.25	79
0.63	66
0.315	40
0.16	24
0.08	9.2

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

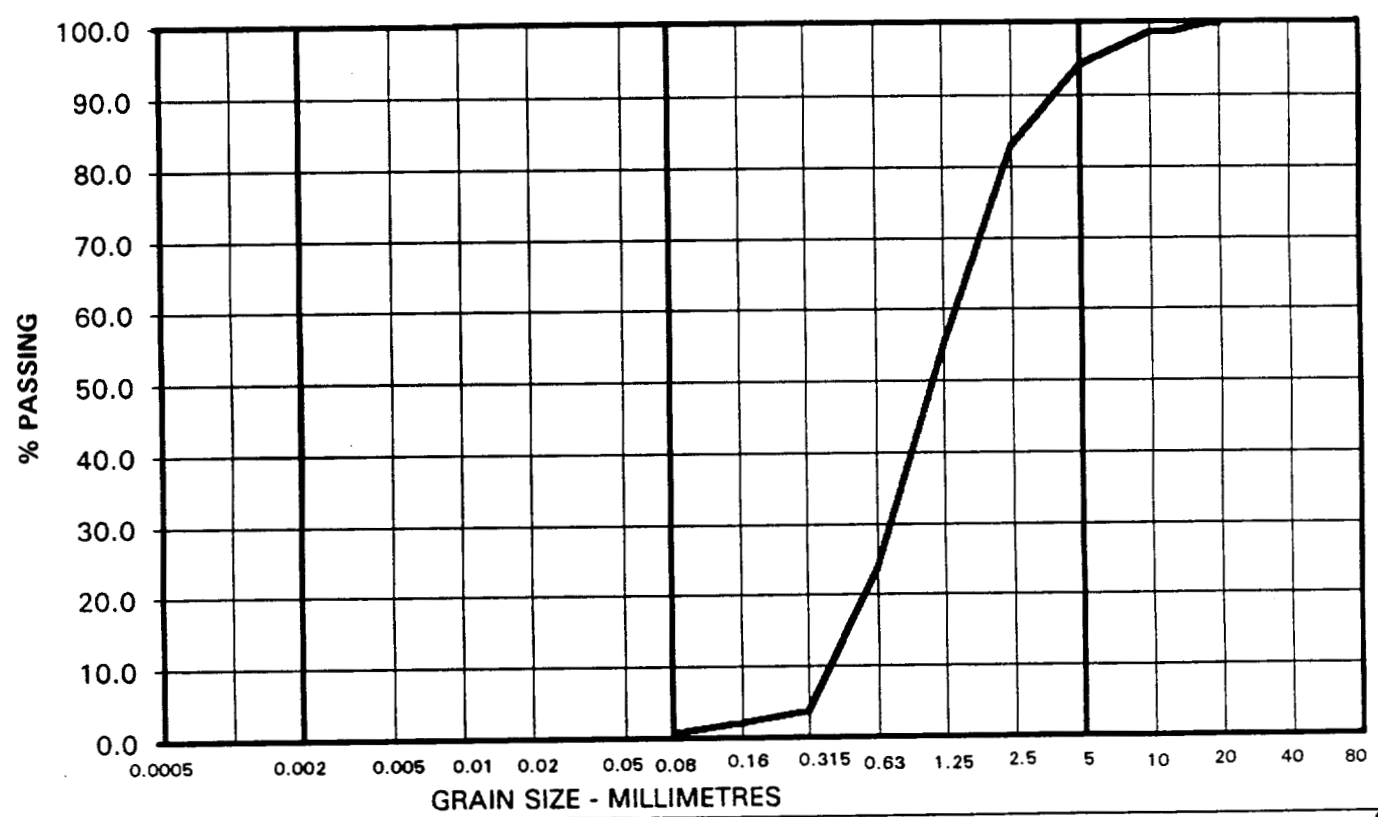
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 22 BY: htEBA Eng.
 TESTPIT NO: d33gc
 DEPTH: 0.15 - 0.85
 SOIL DESCRIPTION SAND(SP), trace gravel, trace organics,
subrounded, medum brown.

Cu: 3.6 Cc: 0.9
 WATER CONTENT: 1.3%
 TOTAL MASS: 9243 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	100
12.5	99
10	99
5	94
2.5	83
1.25	55
0.63	24
0.315	4
0.16	2
0.08	0.8

CLAY	SILT	SAND	GRAVEL
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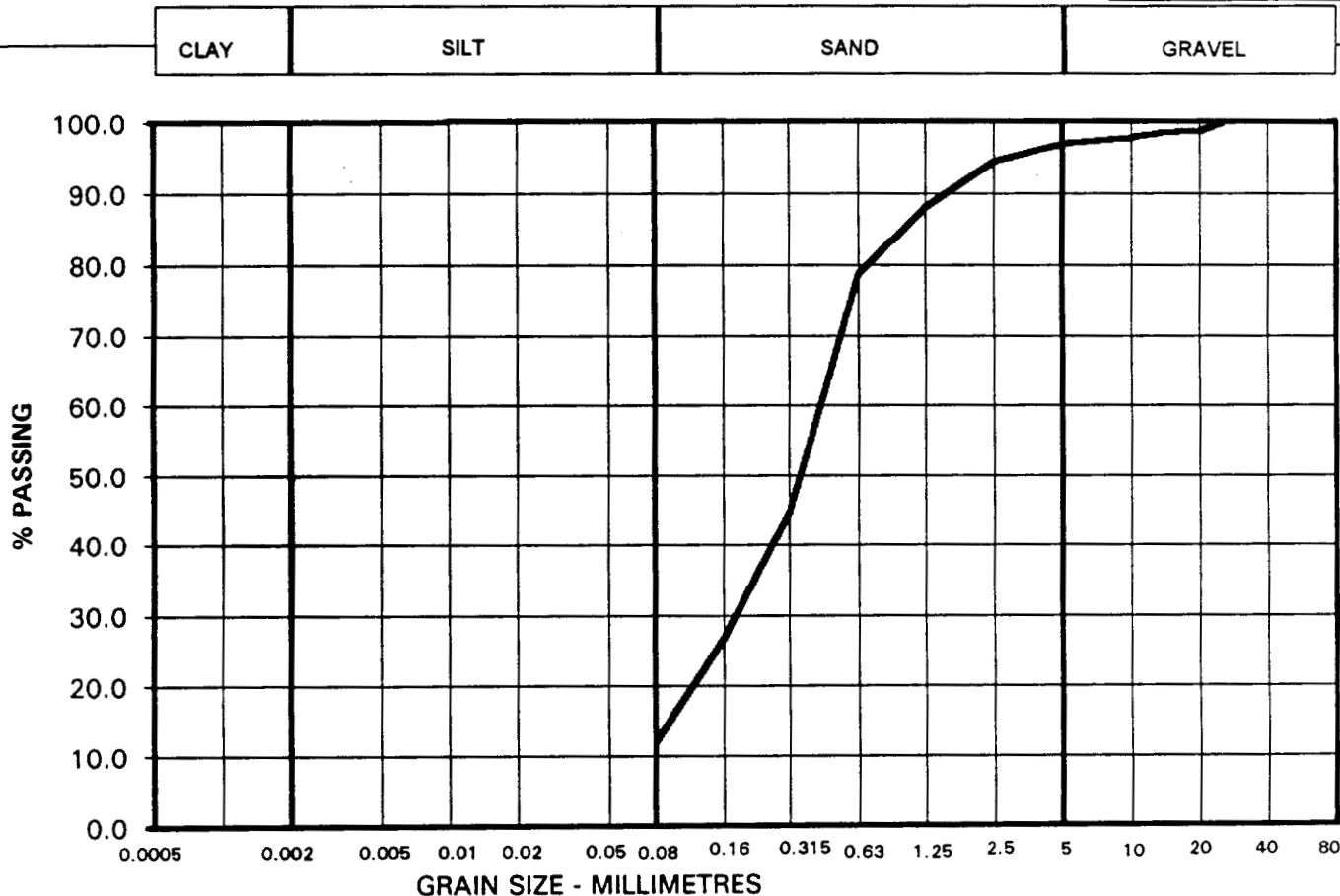
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 22 BY: htEBA Eng.
 TESTPIT NO: d34d
 DEPTH: 0.15 -
 SOIL DESCRIPTION SAND(SM), some silt, trace gravel,
trace organics, subrounded, dark brown.

Cu: _____ Cc: _____
 WATER CONTENT: 5.2%
 TOTAL MASS: 9190 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	99
16	99
12.5	98
10	98
5	97
2.5	94
1.25	88
0.63	79
0.315	44
0.16	27
0.08	12.0

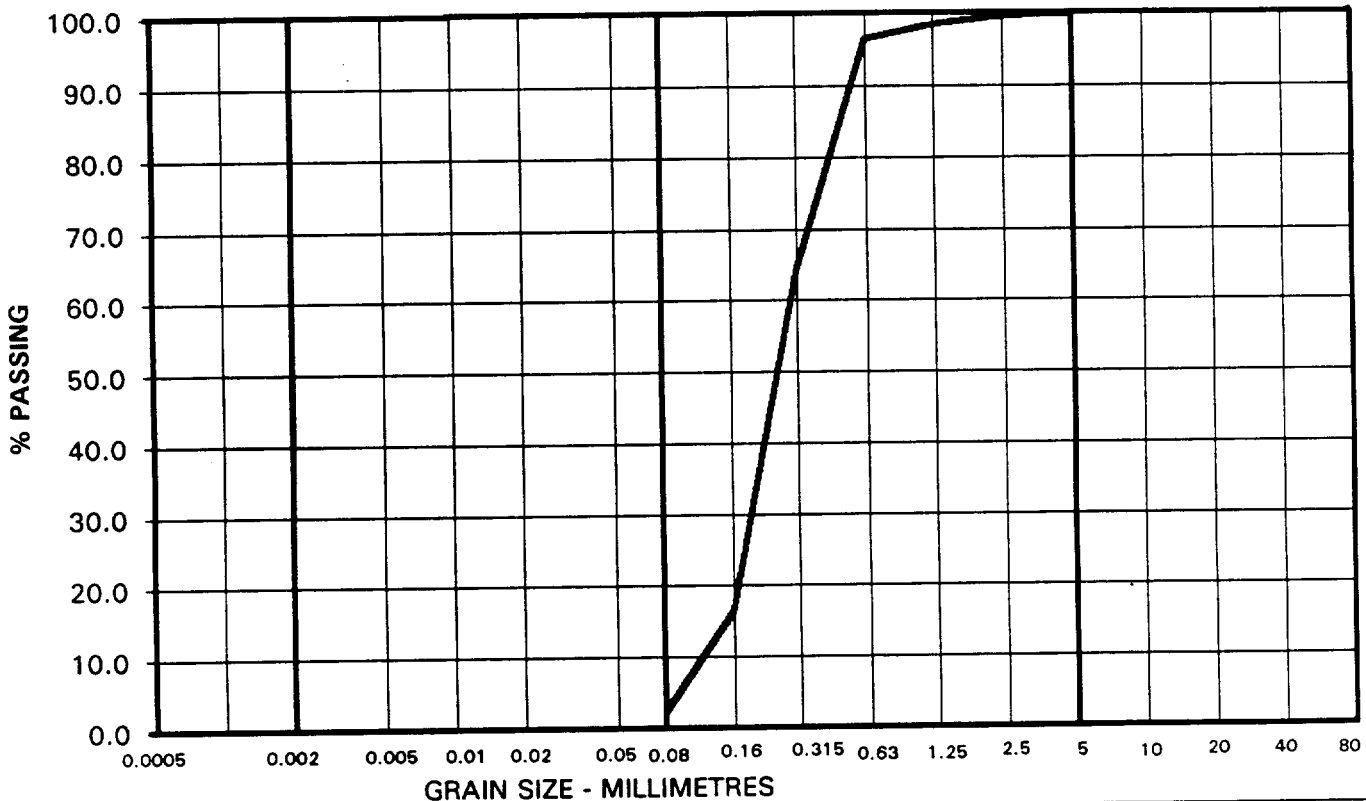


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 22 BY: htEBA Eng.
 TESTPIT NO: d34gc
 DEPTH: 0.15 - .70
 SOIL DESCRIPTION SAND(SP), trace silt,
fine-grained, uniform, medium brown.
 Cu: 2.5 Cc: 1.1
 WATER CONTENT: 2.1%
 TOTAL MASS: 8007 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	99
0.63	97
0.315	64
0.16	16
0.08	2.3

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 22 BY: htEBA Eng.
TESTPIT NO: d35d
DEPTH: 0.15 - 0.9
SOIL DESCRIPTION SAND and SILT(SM -ML), trace gravel,
some organics, fine-grained, uniform, light grey.

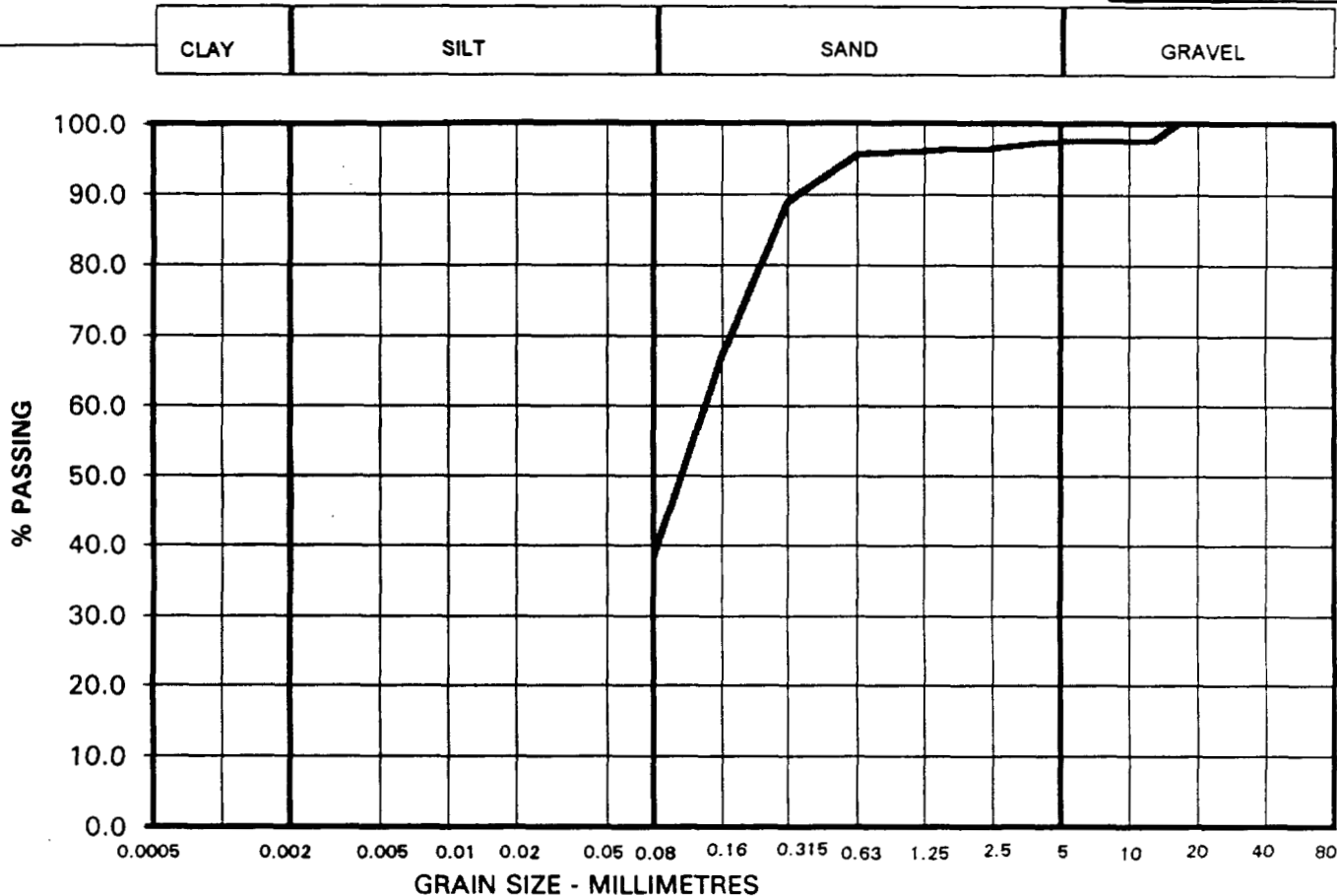
Cu: _____ Cc: _____

WATER CONTENT: 5.1%

TOTAL MASS: 9109 Grams

REMARKS: _____

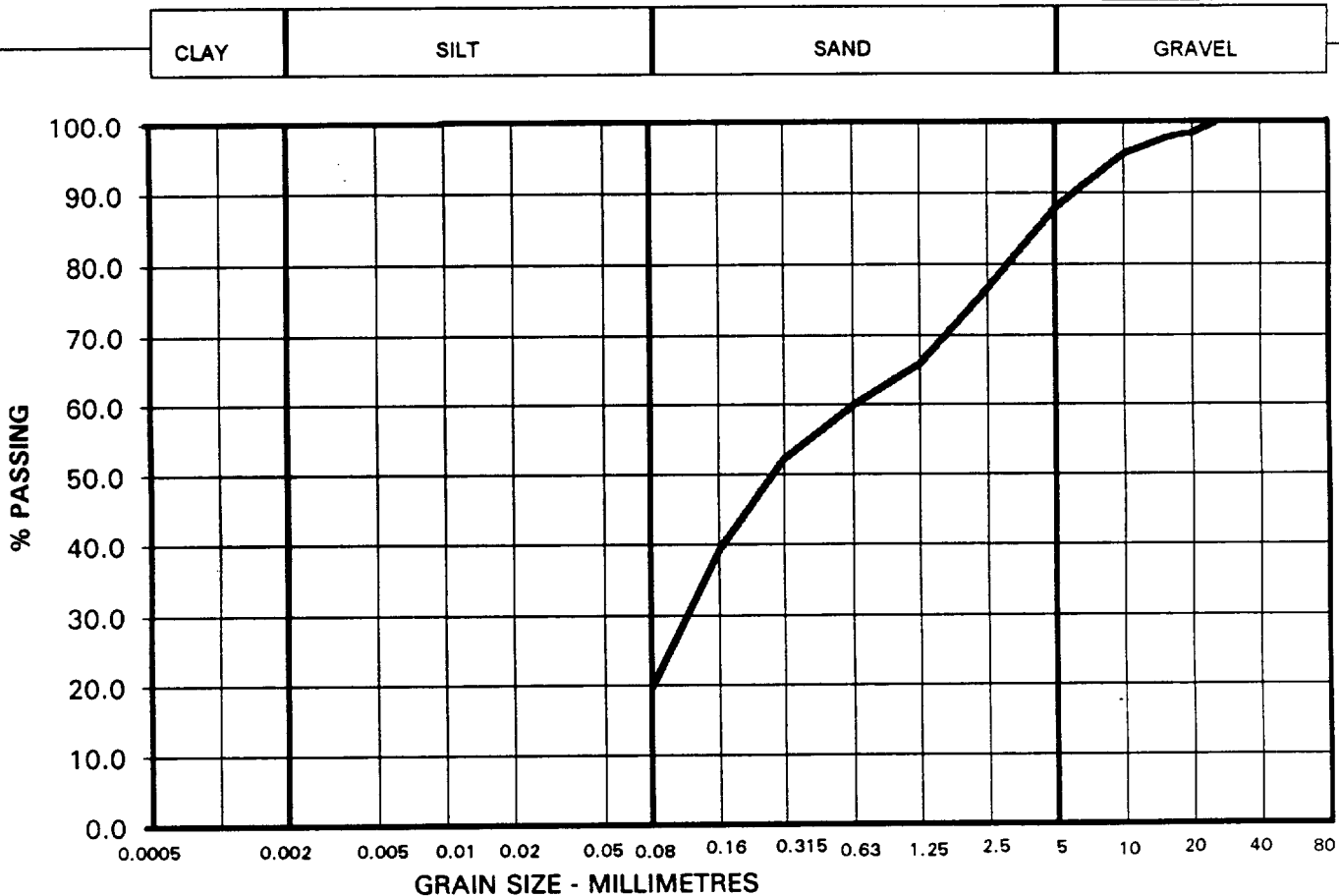
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	98
10	98
5	98
2.5	97
1.25	96
0.63	96
0.315	89
0.16	67
0.08	38.3



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 22 BY: ht EBA Eng.
 TESTPIT NO: d35gc
 DEPTH: 0.15 - 0.90
 SOIL DESCRIPTION SAND(SM), silty, gravelly,
trace organics, well-graded, subrounded, light grey.
 Cu: _____ Cc: _____
 WATER CONTENT: 4.5%
 TOTAL MASS: 11533 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	99
16	98
12.5	97
10	95
5	88
2.5	76
1.25	66
0.63	60
0.315	52
0.16	39
0.08	19.6



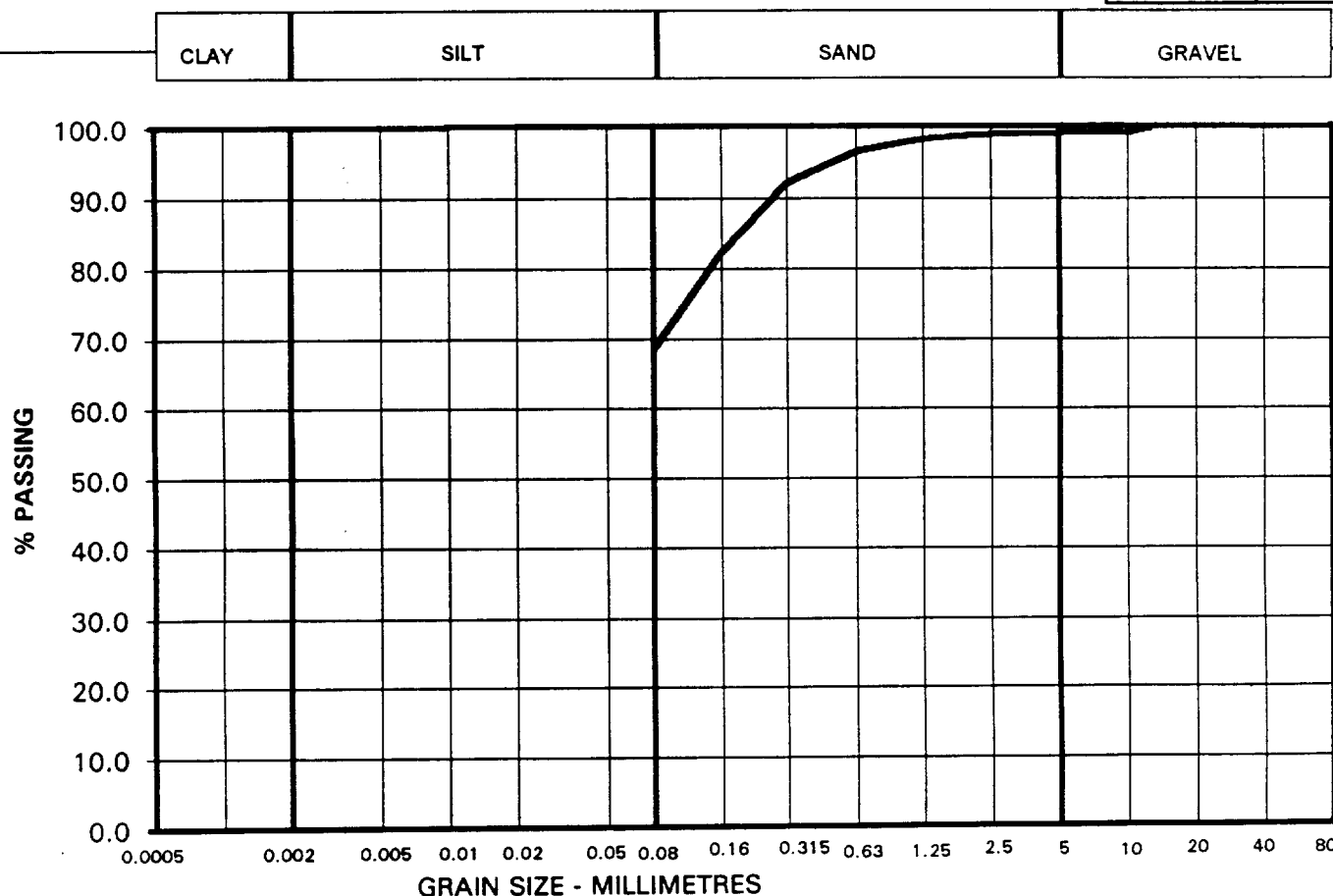
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 22 BY: ht EBA Eng.
 TESTPIT NO: d36d
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SILT(ML), sandy, trace organics,
uniform, light grey.

Cu: _____ Cc: _____
 WATER CONTENT: 4.7%
 TOTAL MASS: 7835 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	99
5	99
2.5	99
1.25	98
0.63	97
0.315	92
0.16	82
0.08	68.4



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 15 BY: ht EBA Eng.
TESTPIT NO: d36g/c
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SILT(ML), sandy, trace organics,
fine-grained, uniform, subangular, grey.

Cu: _____ Cc: _____

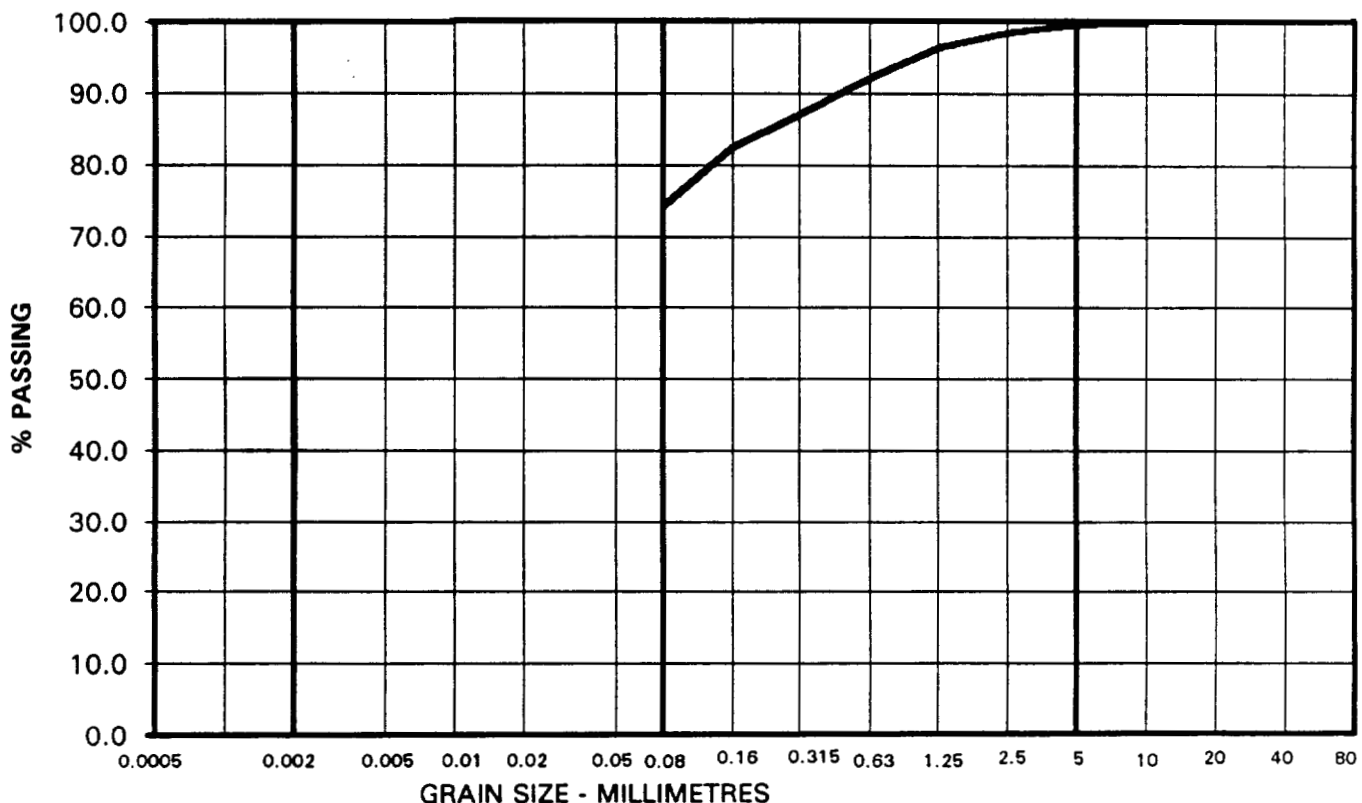
WATER CONTENT: 9.4%

TOTAL MASS: 8177 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	99
1.25	97
0.63	92
0.315	87
0.16	82
0.08	74.2

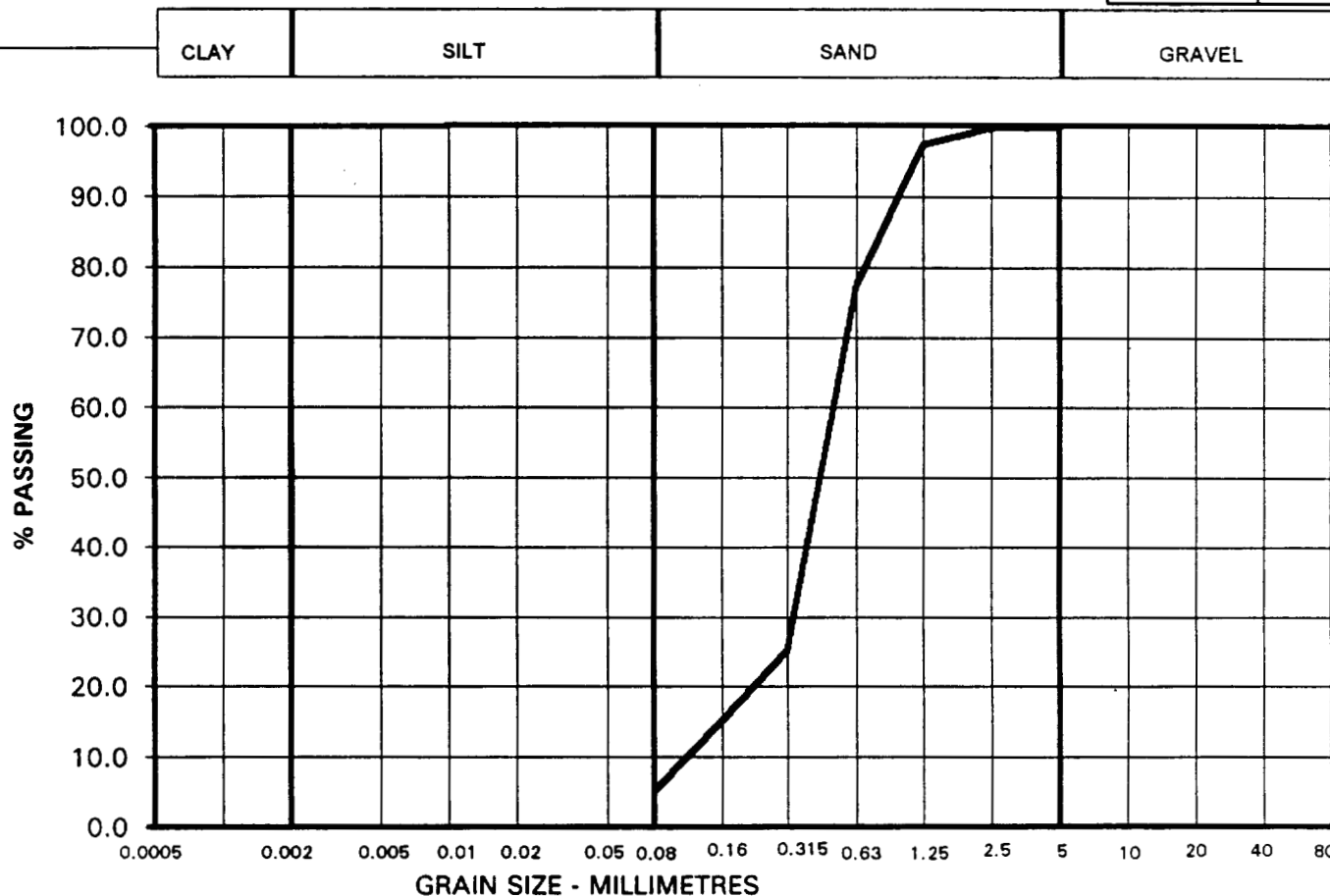
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 22 BY: ht EBA Eng.
 TESTPIT NO: d37d
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SP), trace silt, some organics,
medium-grained, dark brown.
 Cu: 4.5 Cc: 2.0
 WATER CONTENT: 3.2%
 TOTAL MASS: 6165 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	97
0.63	77
0.315	25
0.16	15
0.08	5.2



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 22 BY: htEBA Eng.
 TESTPIT NO: d37gc
 DEPTH: 0.15 - .70
 SOIL DESCRIPTION SAND(SP), trace silt, very organic,
subrounded, dark brown.

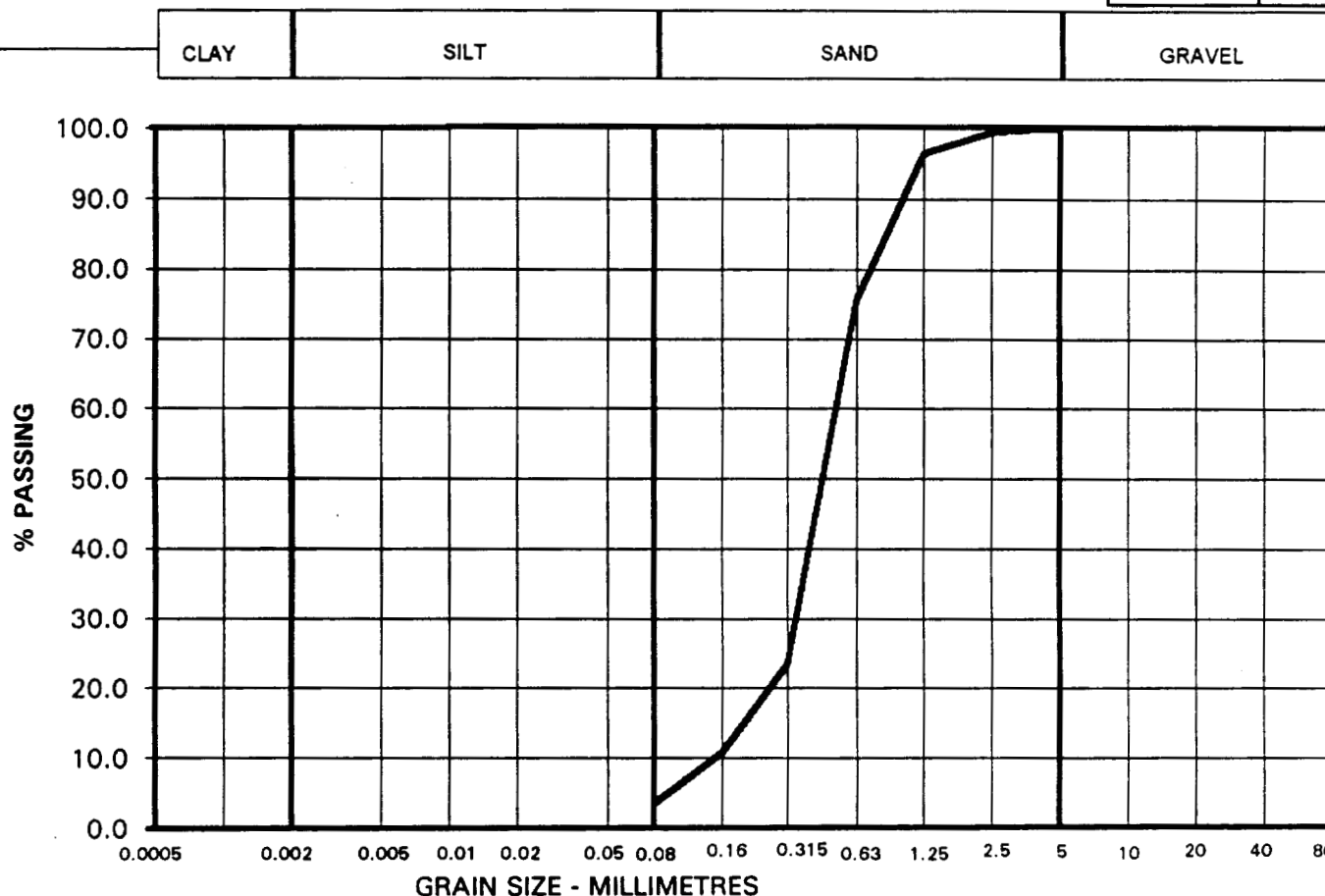
Cu: 3.4 Cc: 1.5

WATER CONTENT: 3.9%

TOTAL MASS: 5768 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	99
1.25	96
0.63	76
0.315	23
0.16	11
0.08	3.6



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 22 BY: htEBA Eng.

TESTPIT NO: d38d

DEPTH: 0.15 - 0.7

SOIL DESCRIPTION SAND(SM), silty, very organic,

fine-grained, uniform, medium brown.

Cu: _____ Cc: _____

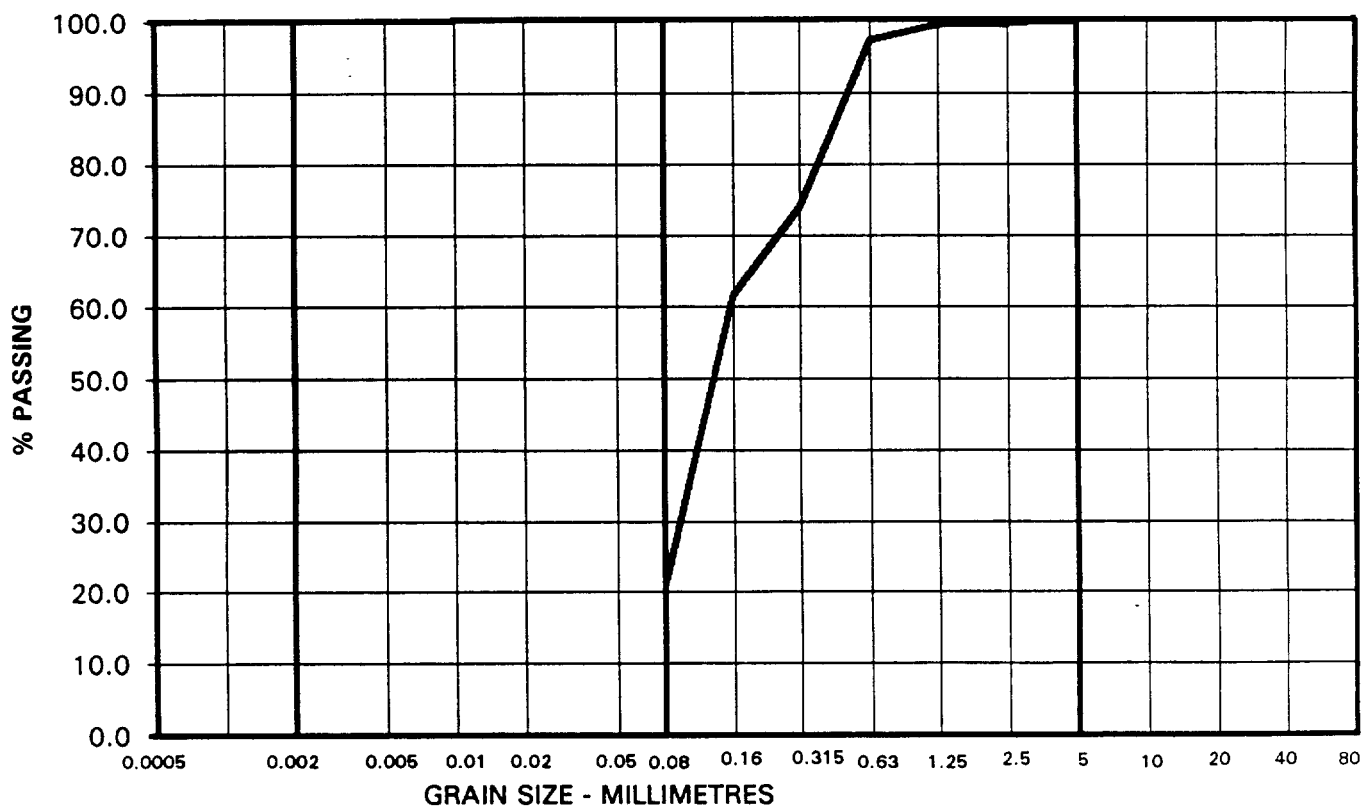
WATER CONTENT: 6.8%

TOTAL MASS: 5900 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	100
0.63	97
0.315	74
0.16	62
0.08	21.0

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 24 BY: ht EBA Eng.
TESTPIT NO: d38gc
DEPTH: 0.15 - 0.70
SOIL DESCRIPTION SAND and SILT(SM - ML), some organics,
fine-grained, uniform, light brown.

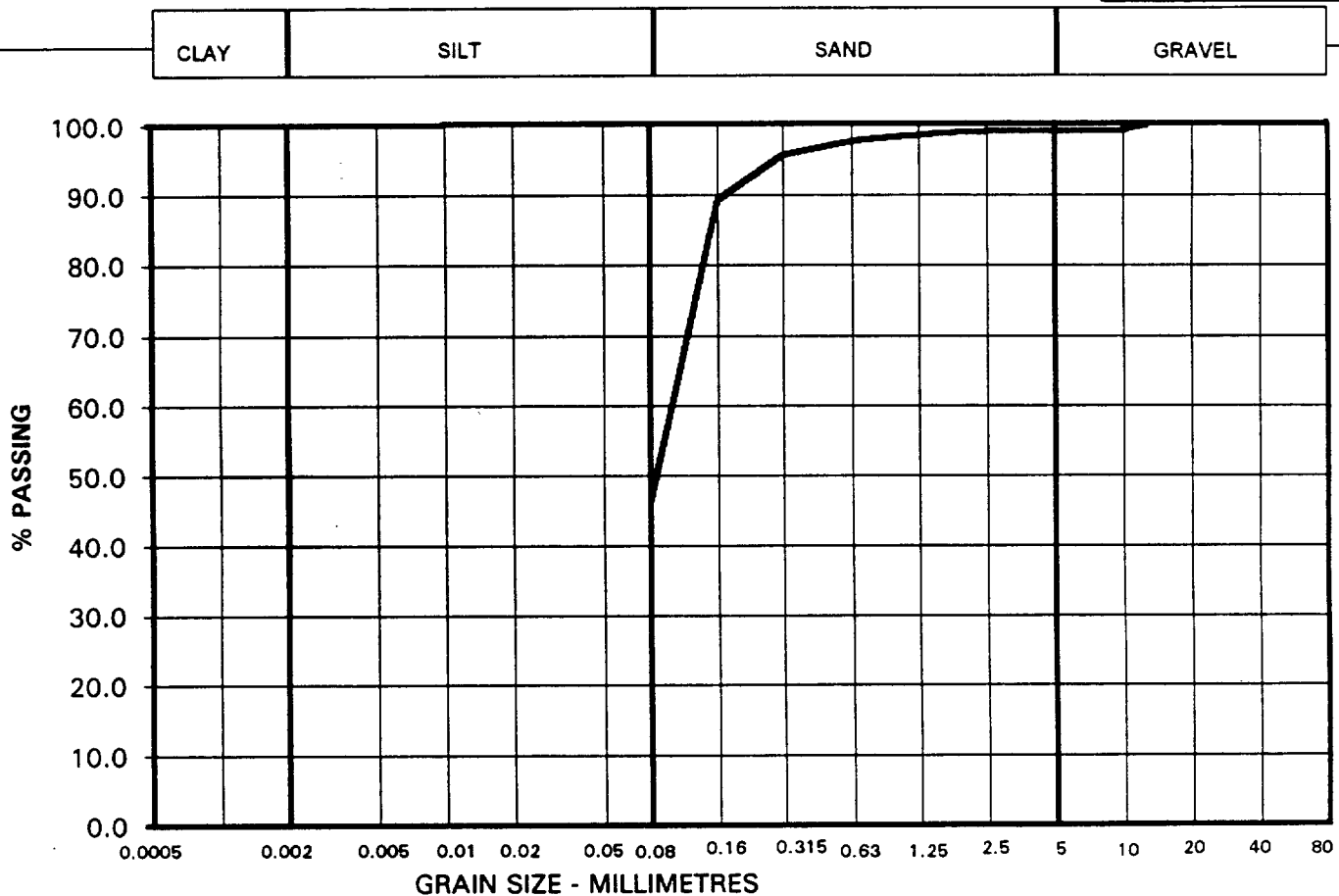
Cu: _____ Cc: _____

WATER CONTENT: 8.7%

TOTAL MASS: 7507 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	99
5	99
2.5	99
1.25	99
0.63	98
0.315	96
0.16	89
0.08	46.2



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 24 BY: ht EBA Eng.
 TESTPIT NO: d39d
 DEPTH: 0.15 - 0.90
 SOIL DESCRIPTION SAND(SM), silty, trace gravel,
trace organics, subrounded, light brown.

Cu: _____ Cc: _____

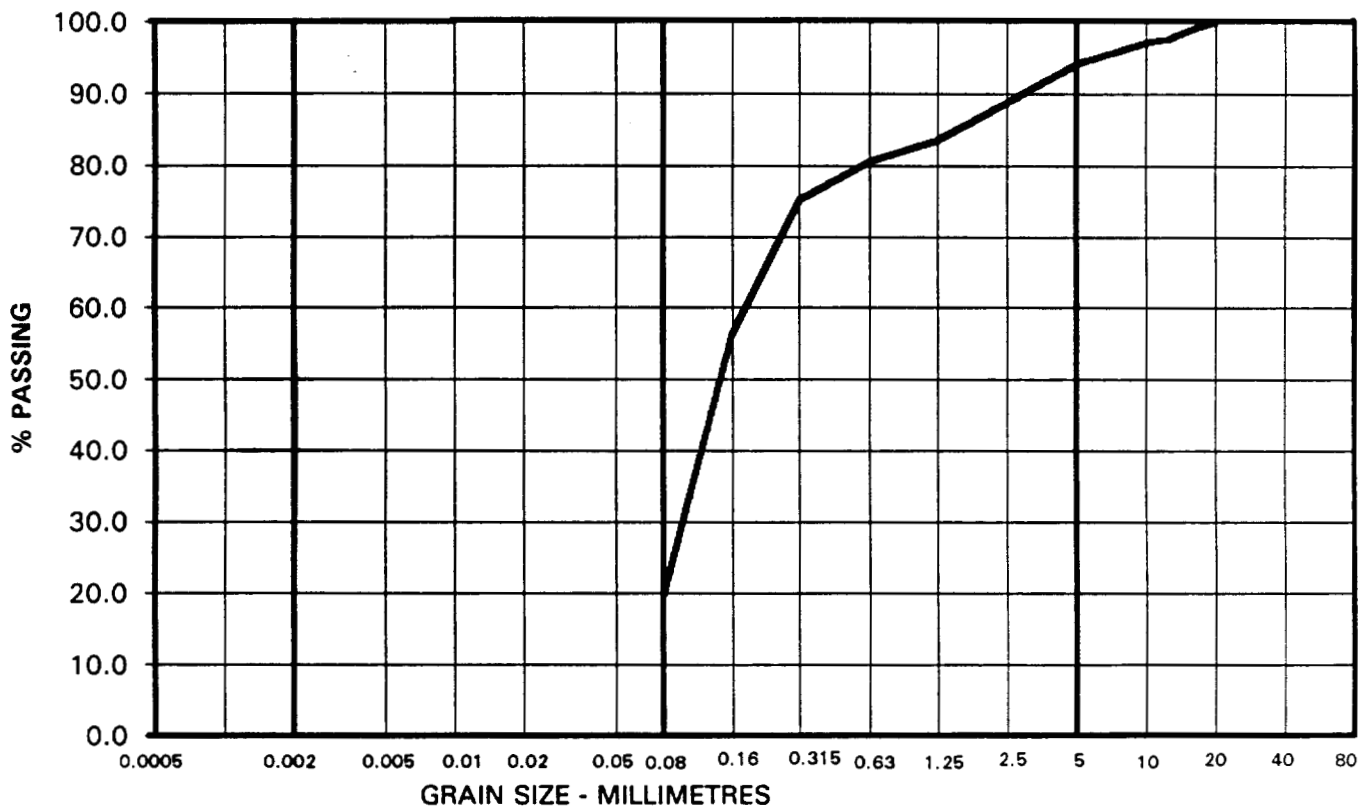
WATER CONTENT: 3.3%

TOTAL MASS: 5414 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	99
12.5	98
10	97
5	94
2.5	89
1.25	83
0.63	81
0.315	75
0.16	56
0.08	19.7

CLAY	SILT	SAND	GRAVEL
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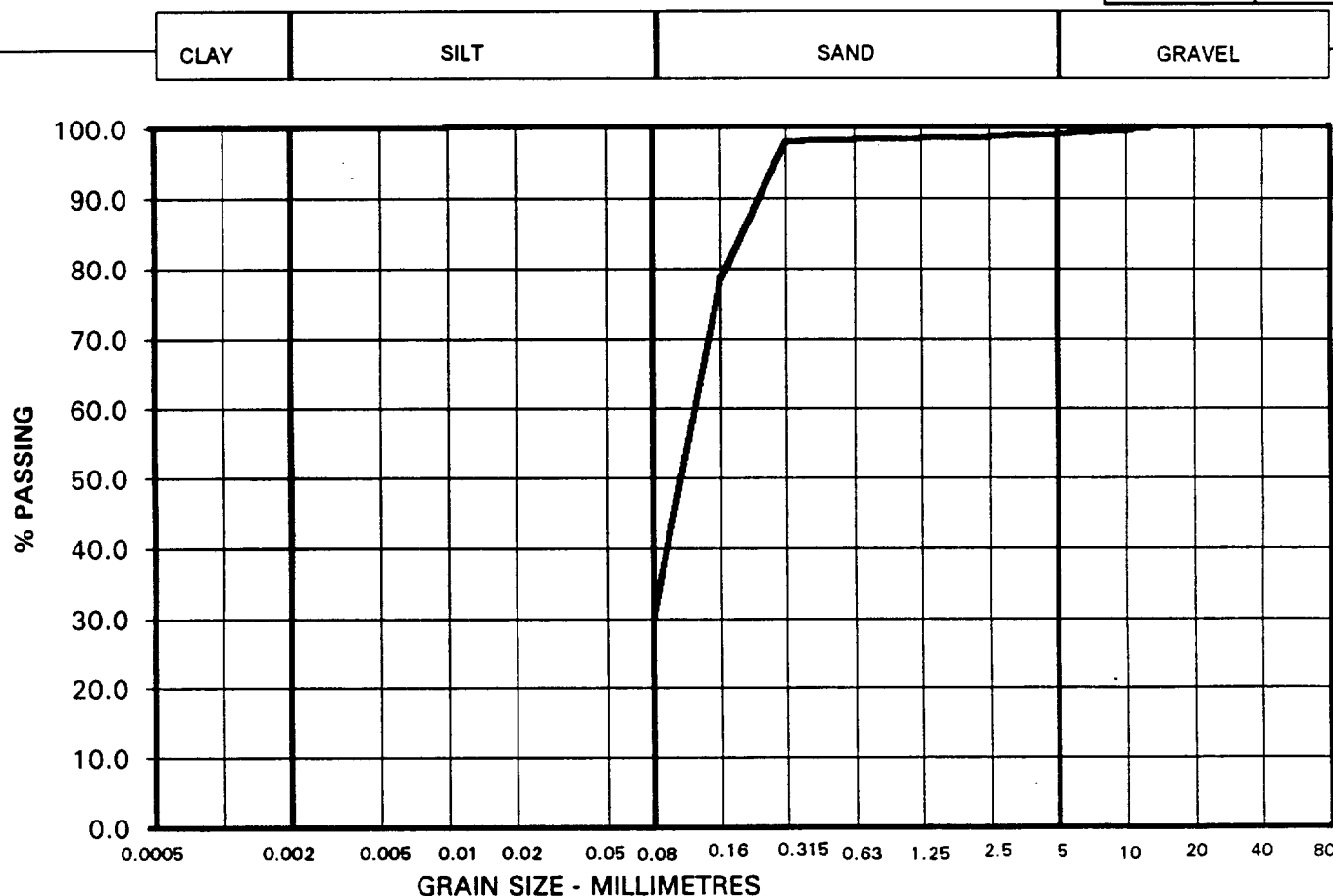
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 24 BY: ht EBA Eng.
 TESTPIT NO: d39gc
 DEPTH: 0.15 - 0.90
 SOIL DESCRIPTION SAND(SM), silty, some organics,
fine-grained, uniform, subrounded, light brown.

Cu: _____ Cc: _____
 WATER CONTENT: 9.4%
 TOTAL MASS: 8177 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	100
5	99
2.5	99
1.25	99
0.63	98
0.315	98
0.16	78
0.08	30.2



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 24 BY: ht EBA Eng.
 TESTPIT NO: d40d
 DEPTH: 0.15 - 0.45
 SOIL DESCRIPTION SAND and SILT(SM - ML), some gravel,
some organics, well graded, subrounded - subangular, light grey.

Cu: _____ Cc: _____

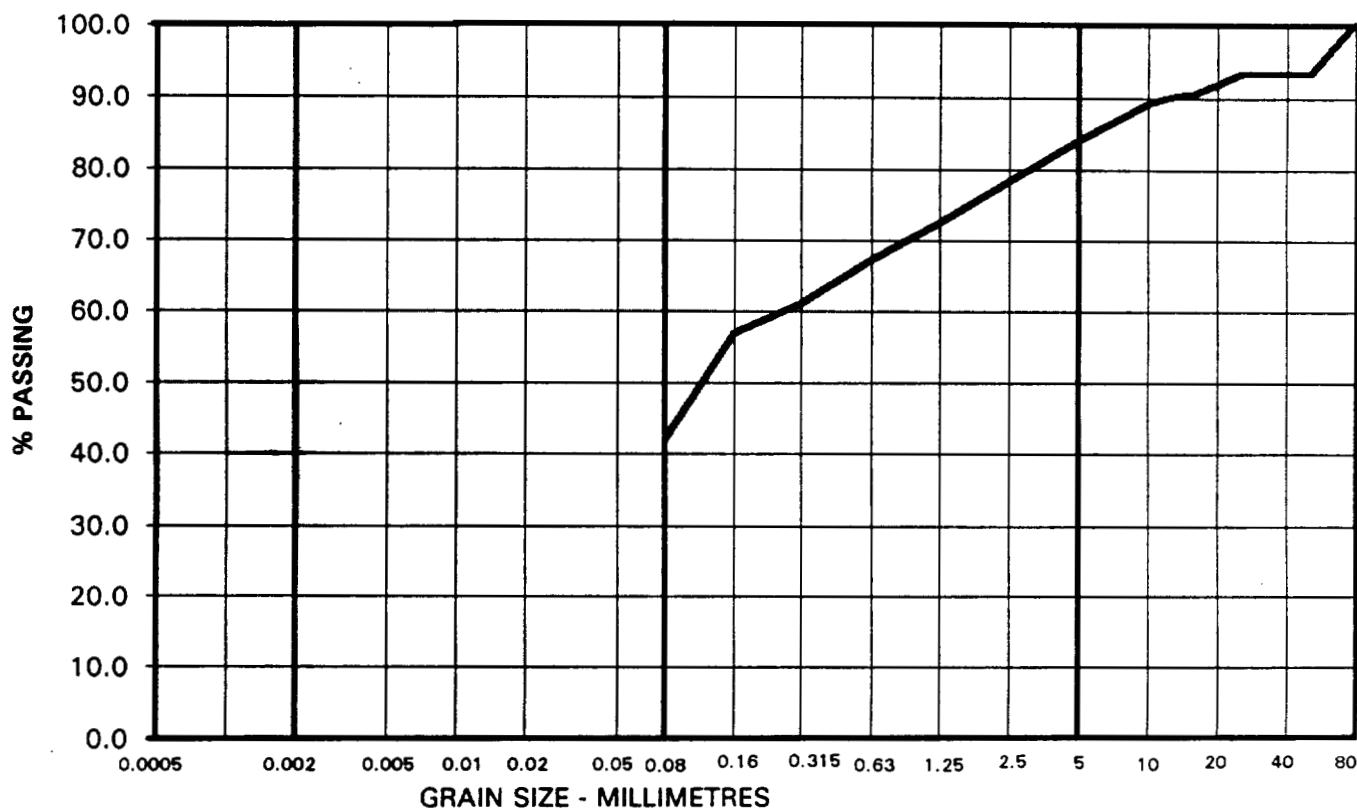
WATER CONTENT: 1.9%

TOTAL MASS: 7234 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	93
40	93
25	93
20	92
16	91
12.5	90
10	89
5	84
2.5	78
1.25	72
0.63	67
0.315	61
0.16	57
0.08	41.9

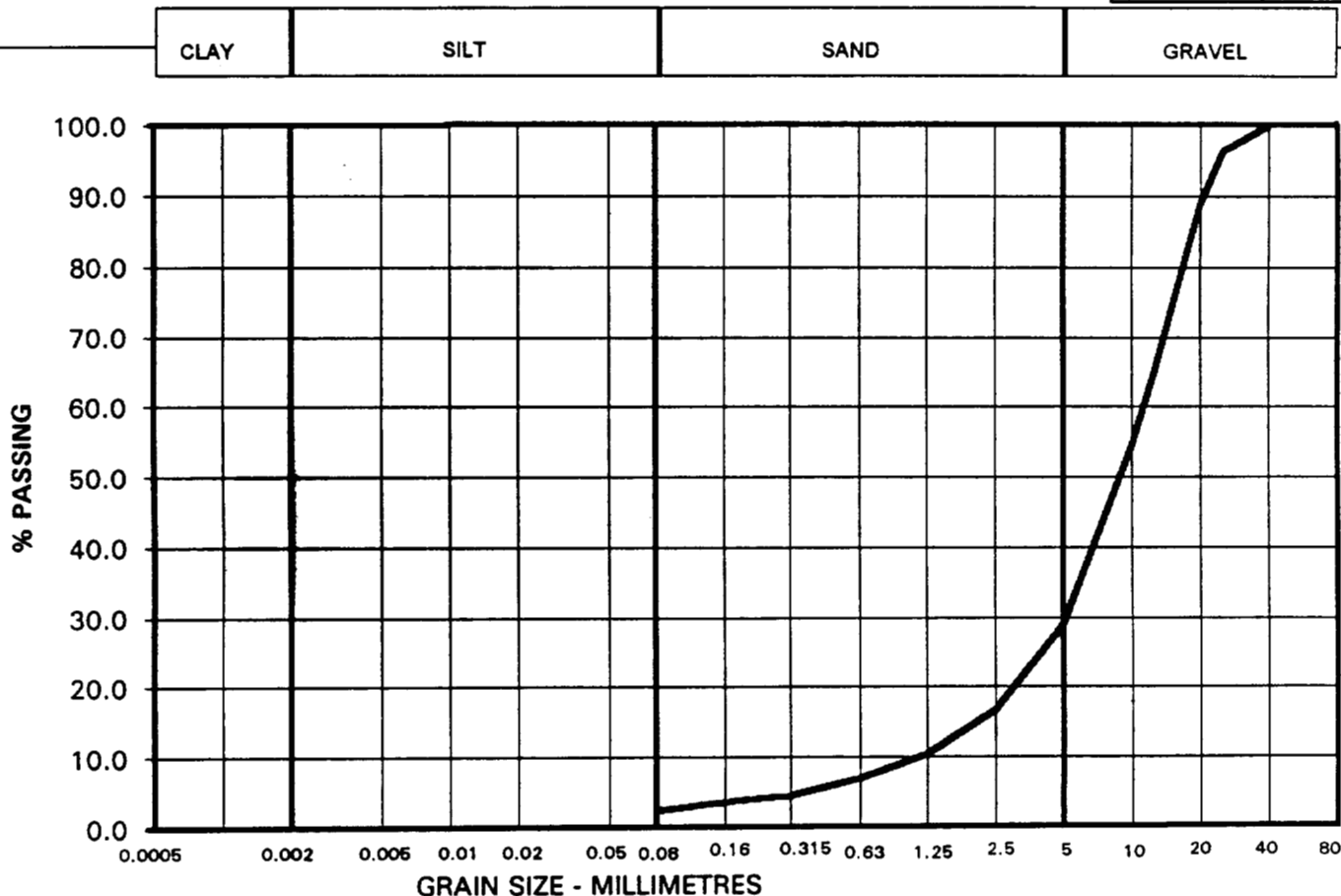
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 24 BY: ht EBA Eng.
 TESTPIT NO: d40gc
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION GRAVEL(GW), sandy, trace silt
some organics, subrounded, medium brown.
 Cu: 9.1 Cc: 2.5
 WATER CONTENT: 2.3%
 TOTAL MASS: 9854 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	97
20	89
16	78
12.5	65
10	55
5	29
2.5	17
1.25	10
0.63	7
0.315	4
0.16	4
0.08	2.4



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

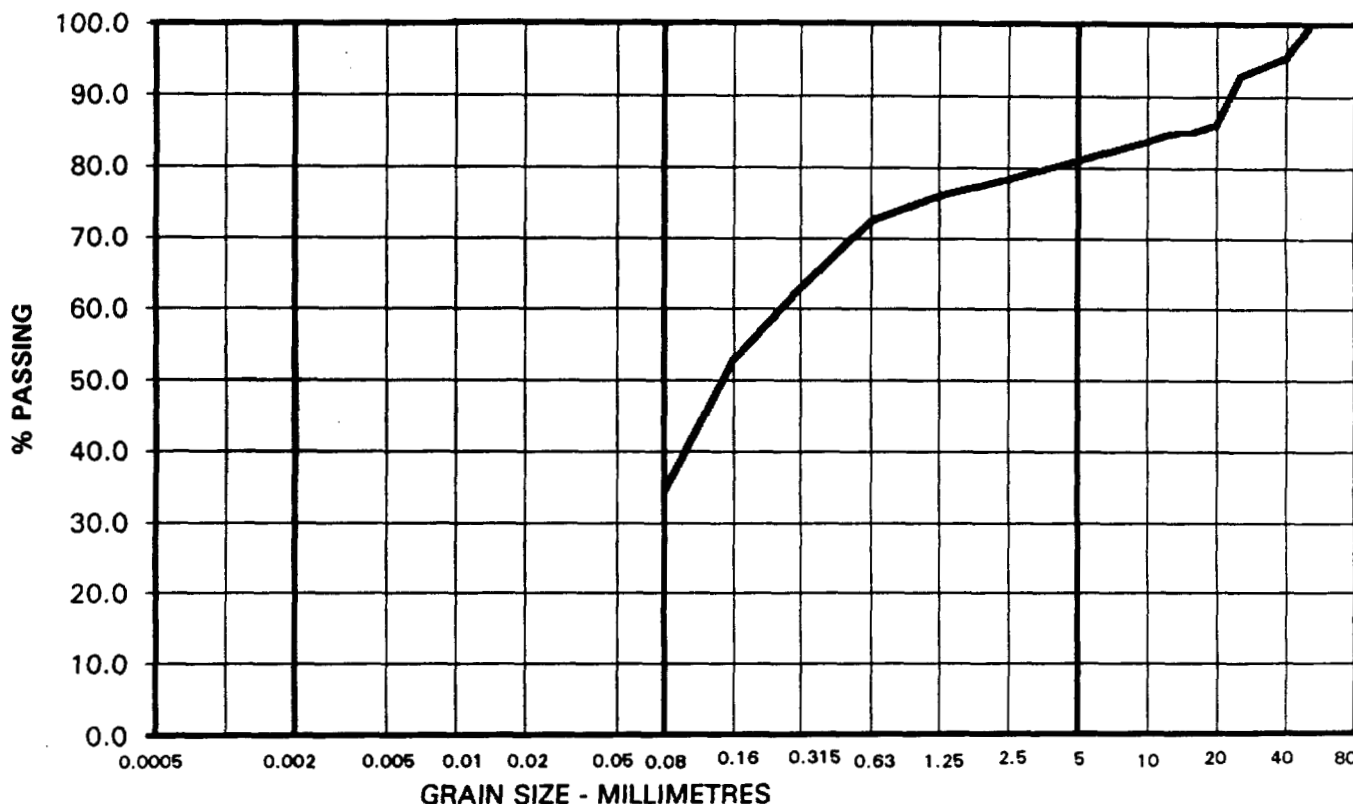
PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 24 BY: ht EBA Eng.
TESTPIT NO: d41d
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SAND(SM), silty, some gravel,
some organics, subrounded, dark brown.

Cu: _____ Cc: _____
WATER CONTENT: 14.4%
TOTAL MASS: 5788 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	96
25	93
20	86
16	85
12.5	85
10	84
5	81
2.5	78
1.25	76
0.63	72
0.315	63
0.16	53
0.08	34.3

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWTaker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 24 BY: ht EBA Eng.
 TESTPIT NO: d41gc
 DEPTH: 0.15 - 0.90
 SOIL DESCRIPTION SAND(SP), trace silt,
medium-grained, subrounded, dark brown.

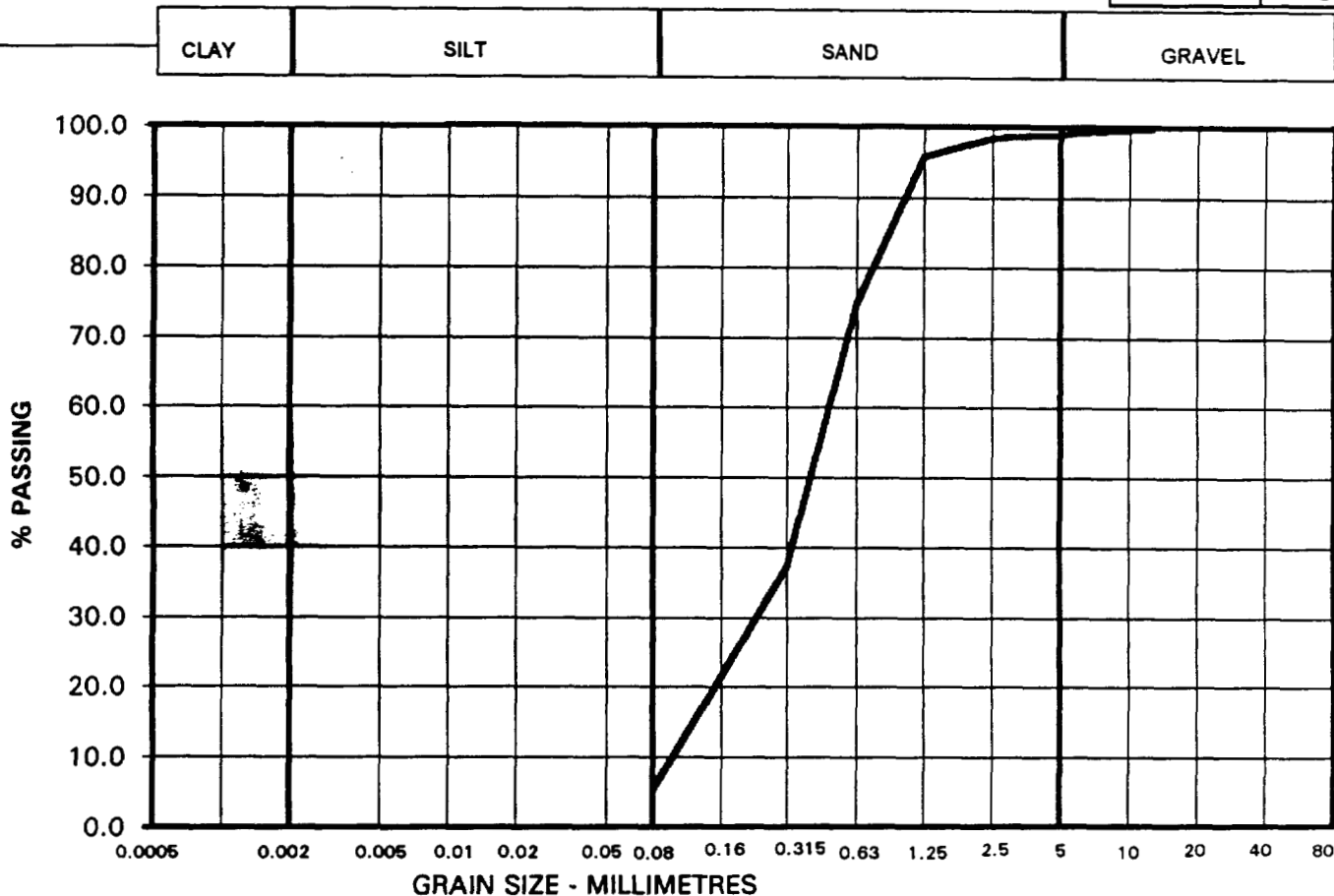
Cu: 4.9 Cc: 1.1

WATER CONTENT: 3.4%

TOTAL MASS: 9828 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	100
5	99
2.5	99
1.25	96
0.63	75
0.315	37
0.16	21
0.08	5.4



PARTICLE - SIZE ANALYSIS OF SOILS

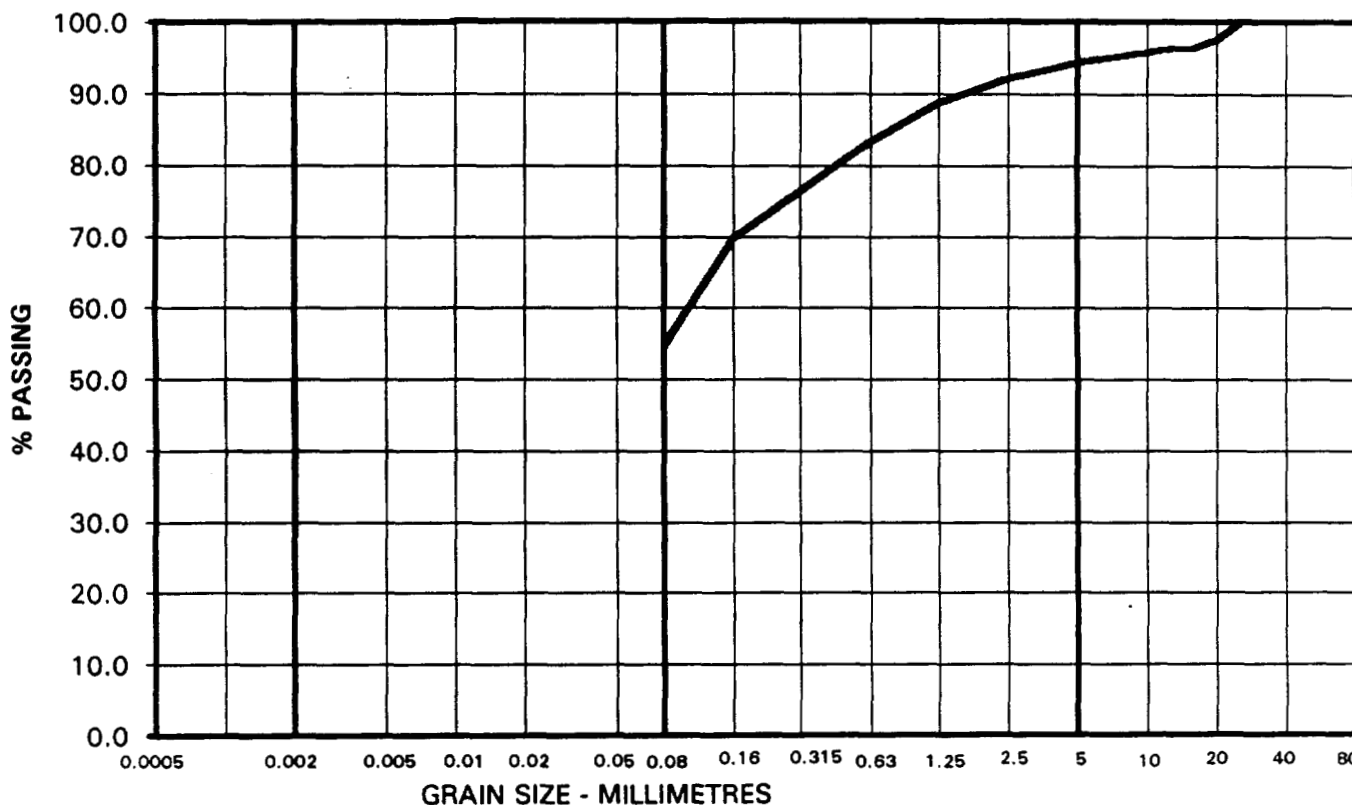
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 24 BY: ht EBA Eng.
 TESTPIT NO: d42d
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SILT and SAND(ML -SM), trace gravel,
some organics, subrounded, light brown.

Cu: _____ Cc: _____
 WATER CONTENT: 7.6%
 TOTAL MASS: 7127 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	98
16	97
12.5	96
10	96
5	94
2.5	92
1.25	89
0.63	83
0.315	76
0.16	70
0.08	54.6

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 24 BY: ht EBA Eng.
 TESTPIT NO: d42gc
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND and GRAVEL(SP - GP), trace silt,
some organics, subrounded, medium brown.

Cu: 68.0 Cc: 0.1

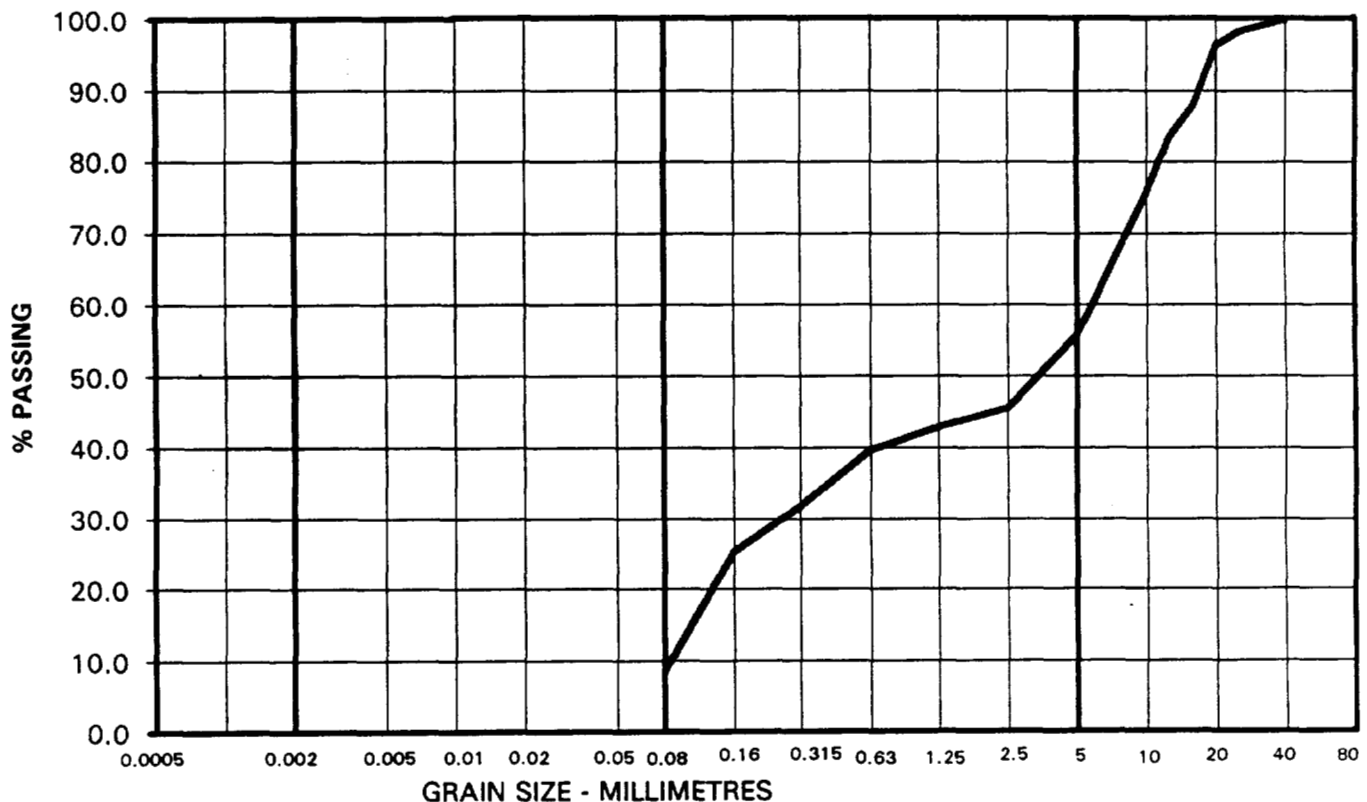
WATER CONTENT: 1.5%

TOTAL MASS: 8743 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	98
20	97
16	88
12.5	84
10	76
5	56
2.5	46
1.25	43
0.63	40
0.315	32
0.16	25
0.08	8.5

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 24 BY: ht EBA Eng.
 TESTPIT NO: d43d
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND(SW), trace gravel, trace silt,
some organics, subrounded, medium brown.

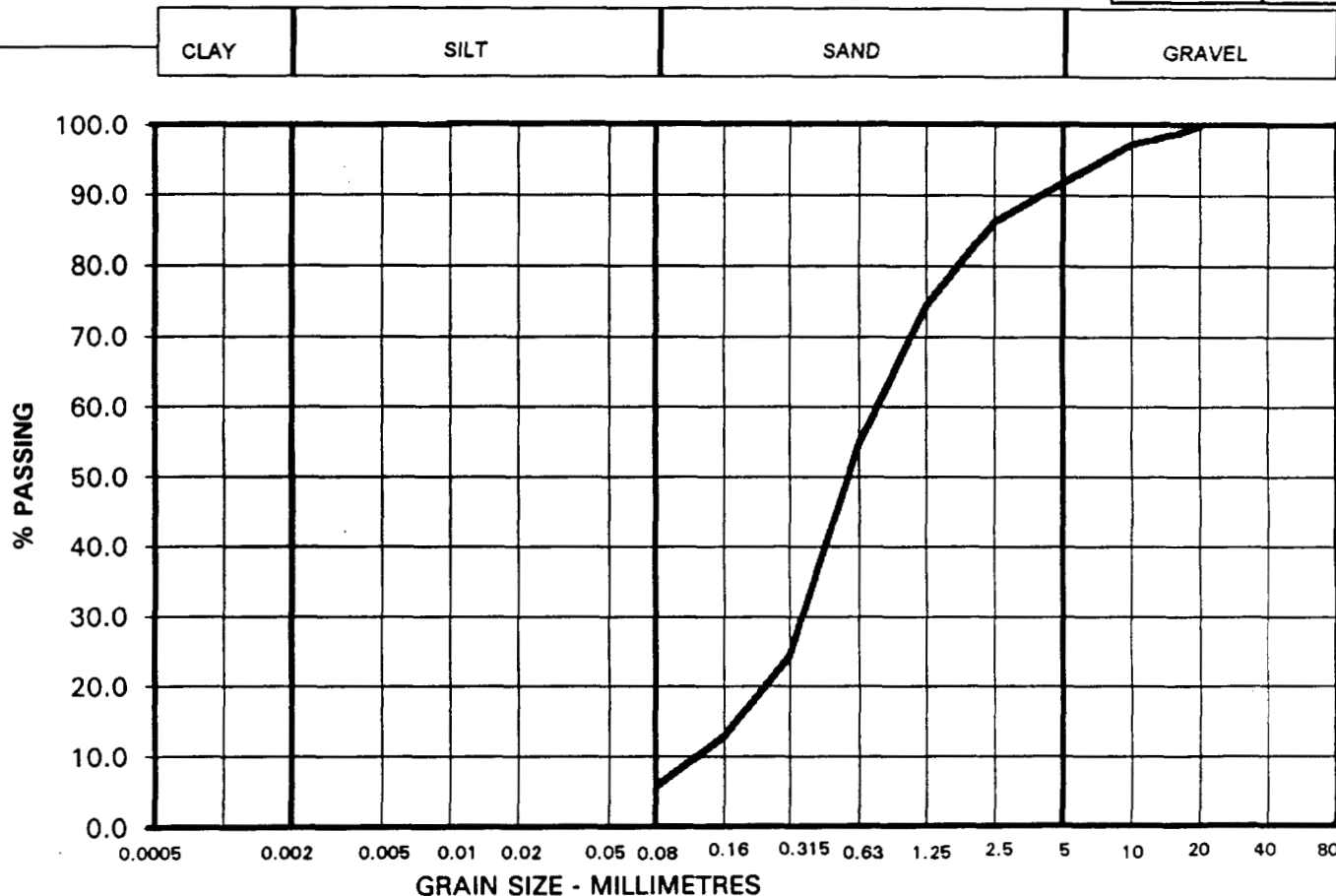
Cu: 6.3 Cc: 1.4

WATER CONTENT: 1.2%

TOTAL MASS: 9011 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	99
12.5	98
10	97
5	92
2.5	86
1.25	74
0.63	55
0.315	24
0.16	13
0.08	5.7



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 24 BY: ht EBA Eng.
 TESTPIT NO: d43gc
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND(SW), some gravel, trace fines,
some organics, subrounded, light yellow-brown.

Cu: 10.5 Cc: 2.0

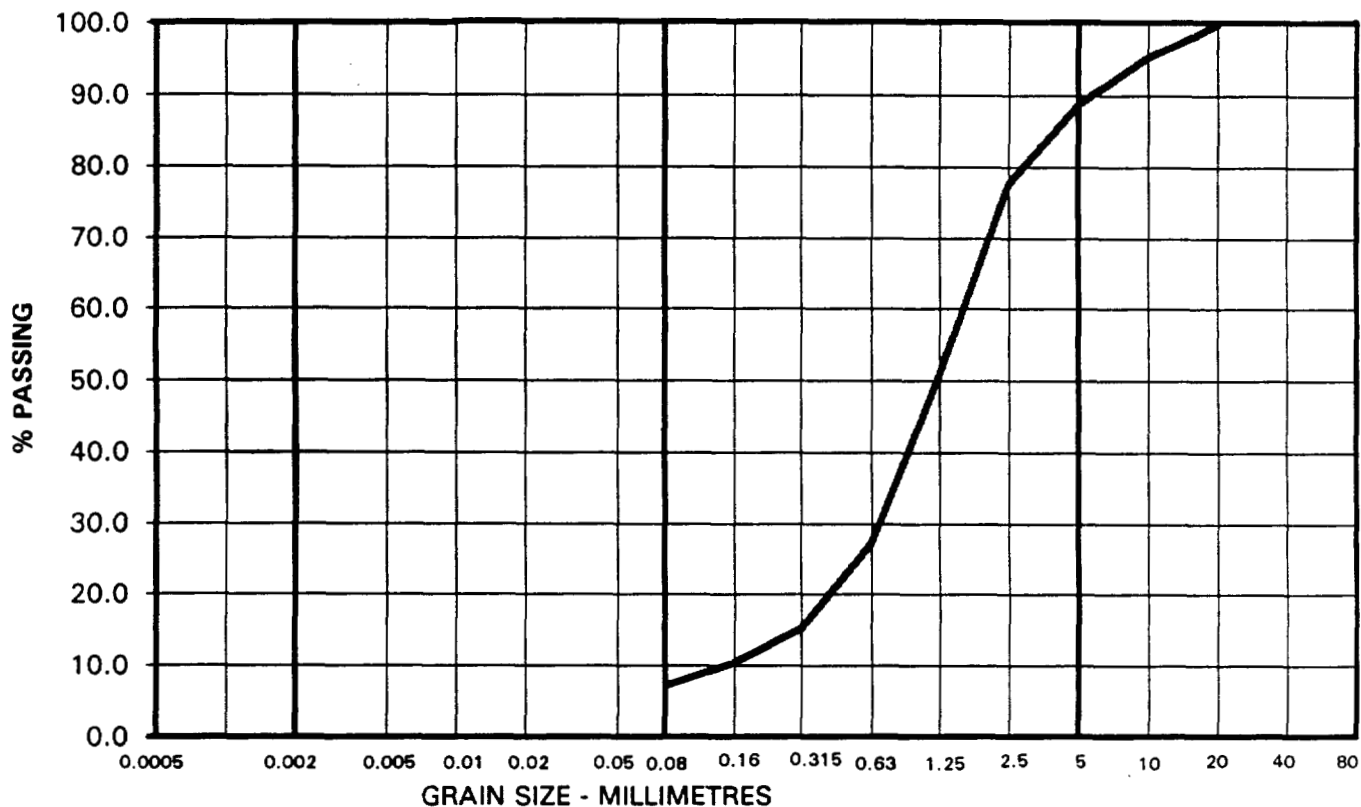
WATER CONTENT: 1.5%

TOTAL MASS: 9210 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	98
12.5	97
10	95
5	89
2.5	78
1.25	51
0.63	27
0.315	15
0.16	10
0.08	7.2

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 12 BY: ht EBA Eng.
 TESTPIT NO: d44d
 DEPTH: 0.15 - 0.3
 SOIL DESCRIPTION SAND(SM), silty, some gravel,
subrounded, medium brown.

Cu: _____ Cc: _____

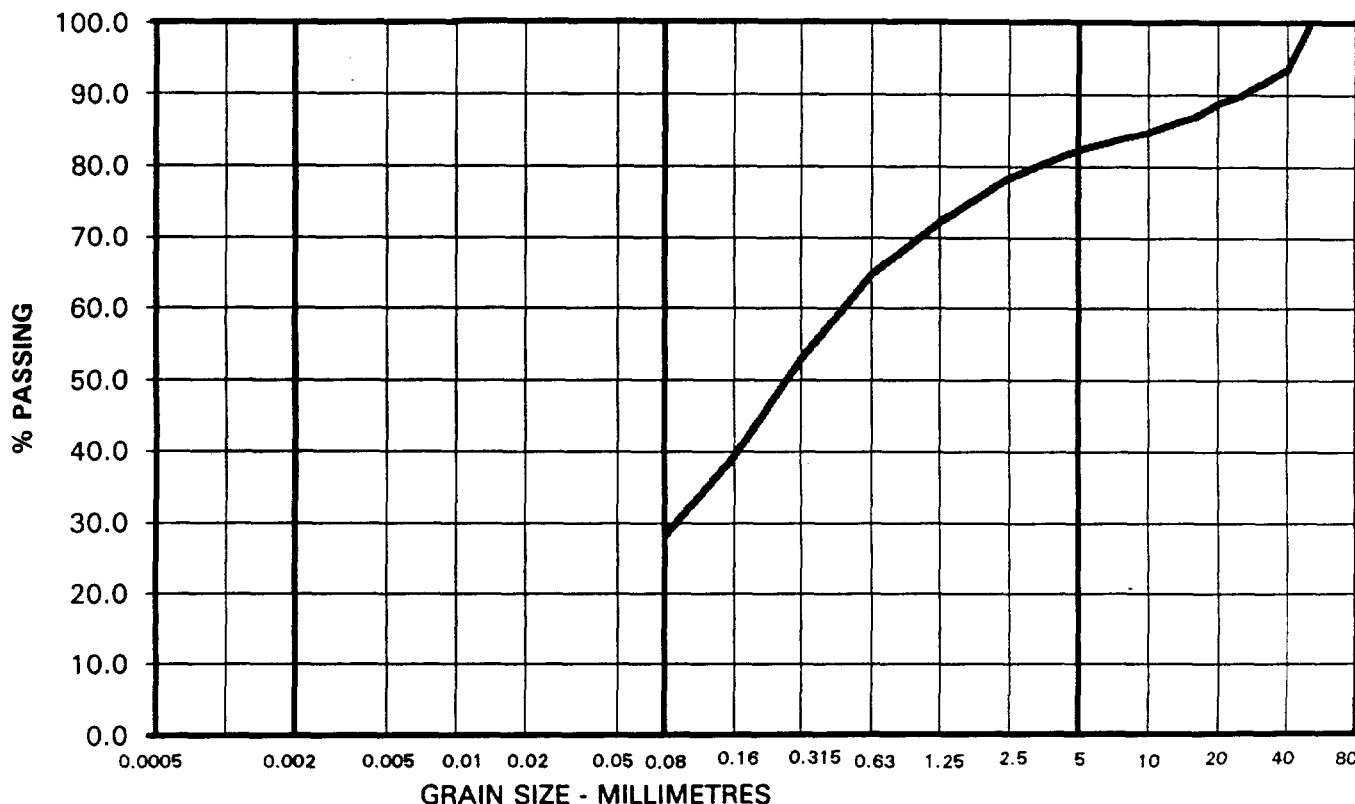
WATER CONTENT: 8.4%

TOTAL MASS: 6813 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	94
25	90
20	89
16	87
12.5	86
10	85
5	82
2.5	78
1.25	72
0.63	65
0.315	53
0.16	39
0.08	28.1

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 24 BY: ht EBA Eng.
TESTPIT NO: d44gc
DEPTH: 0.15 - 0.90
SOIL DESCRIPTION SAND and SILT(SM - ML), some organics,
subrounded, yellow-brown.

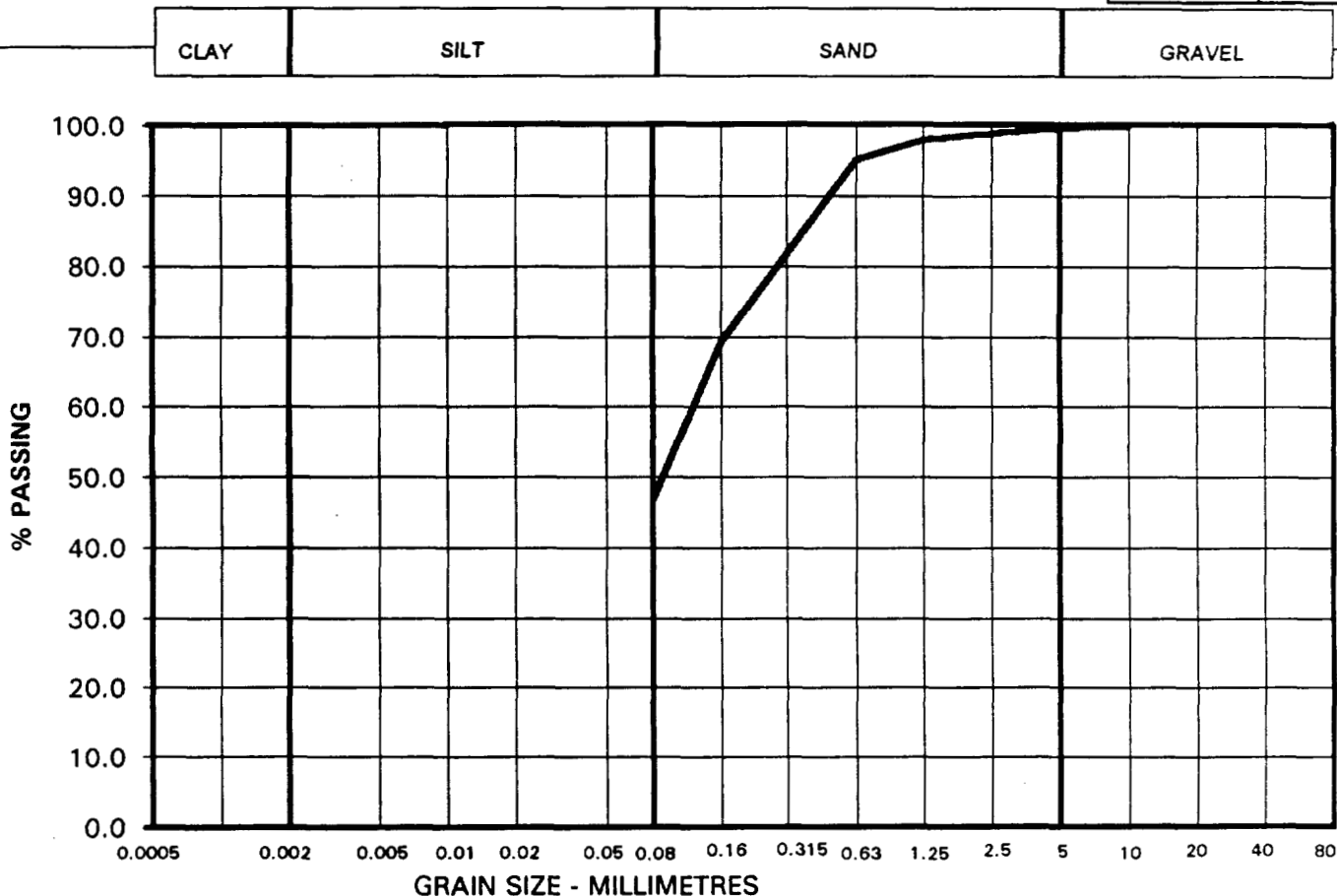
Cu: _____ Cc: _____

WATER CONTENT: 11.6%

TOTAL MASS: 6494 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	99
1.25	98
0.63	95
0.315	82
0.16	69
0.08	46.8



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 24 BY: ht EBA Eng.

TESTPIT NO: d45d

DEPTH: 0.15 - 0.60

SOIL DESCRIPTION SAND(SM), silty, gravelly,
some organics, subrounded, yellow-brown.

Cu: _____ Cc: _____

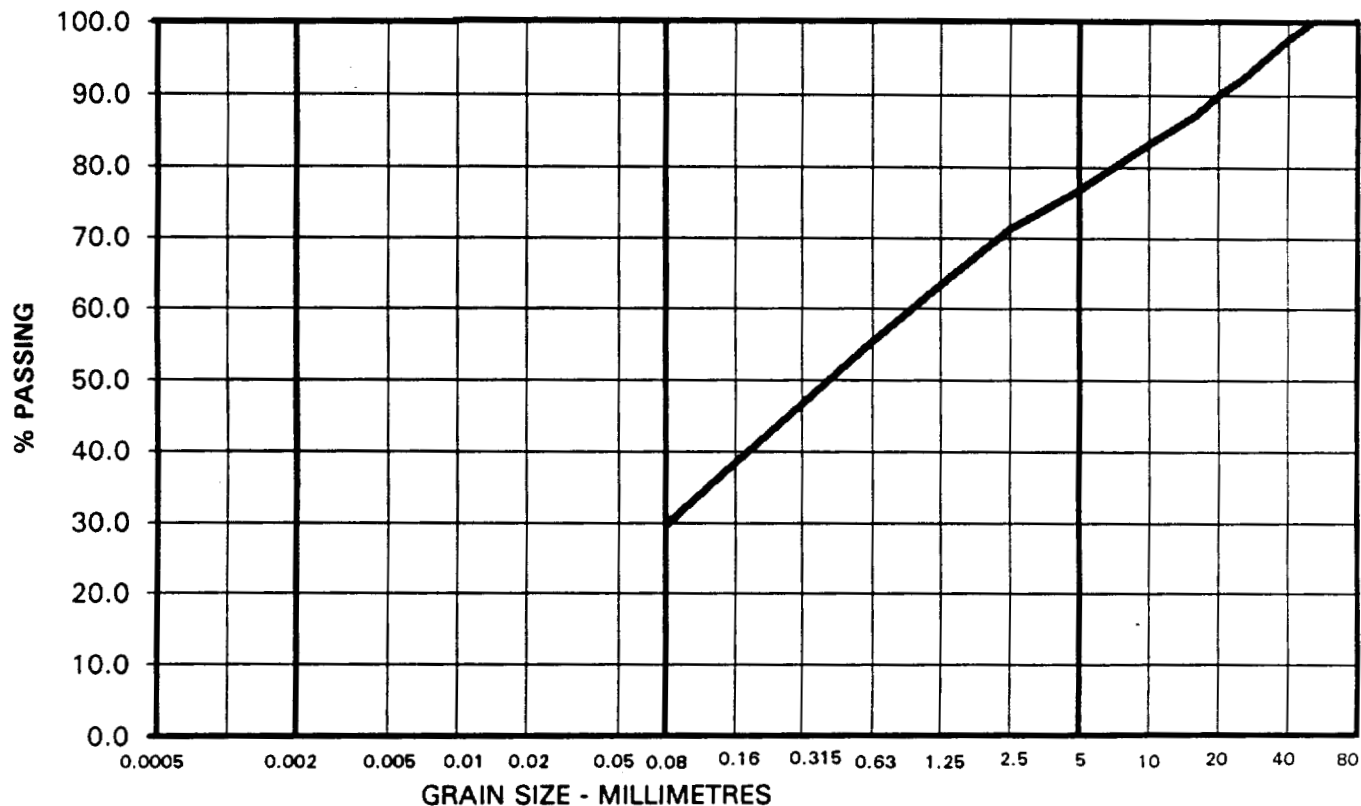
WATER CONTENT: 3.2%

TOTAL MASS: 6026 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	98
25	92
20	90
16	87
12.5	85
10	83
5	77
2.5	71
1.25	63
0.63	55
0.315	47
0.16	38
0.08	29.6

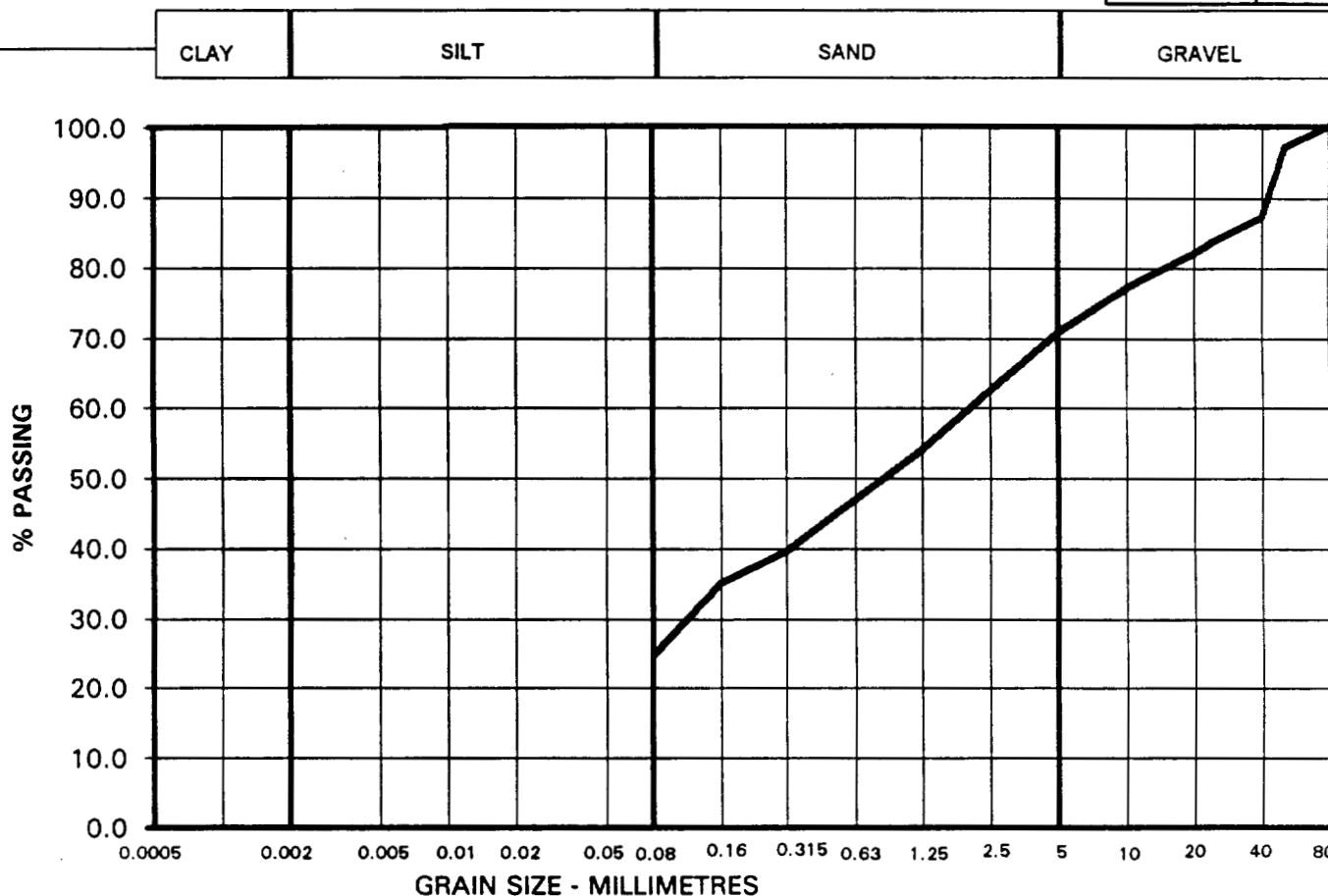
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

SIEVE	PERCENT
SIZE	PASSING
75	100
50	97
40	87
25	84
20	82
16	81
12.5	79
10	77
5	71
2.5	63
1.25	54
0.63	47
0.315	40
0.16	35
0.08	24.7

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 24 BY: ht EBA Eng.
 TESTPIT NO: d45gc
 DEPTH: 0.15 - 0.33
 SOIL DESCRIPTION SAND(SM), gravelly, silty, some organics,
well-graded, subrounded, light yellow-brown.
 Cu: _____ Cc: _____
 WATER CONTENT: 5.6%
 TOTAL MASS: 8745 Grams
 REMARKS: _____



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 24 BY: ht EBA Eng.
 TESTPIT NO: d46d
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SM), gravelly, some silt,
some organics, well-graded, subrounded, yellow-brown.

Cu: _____ Cc: _____

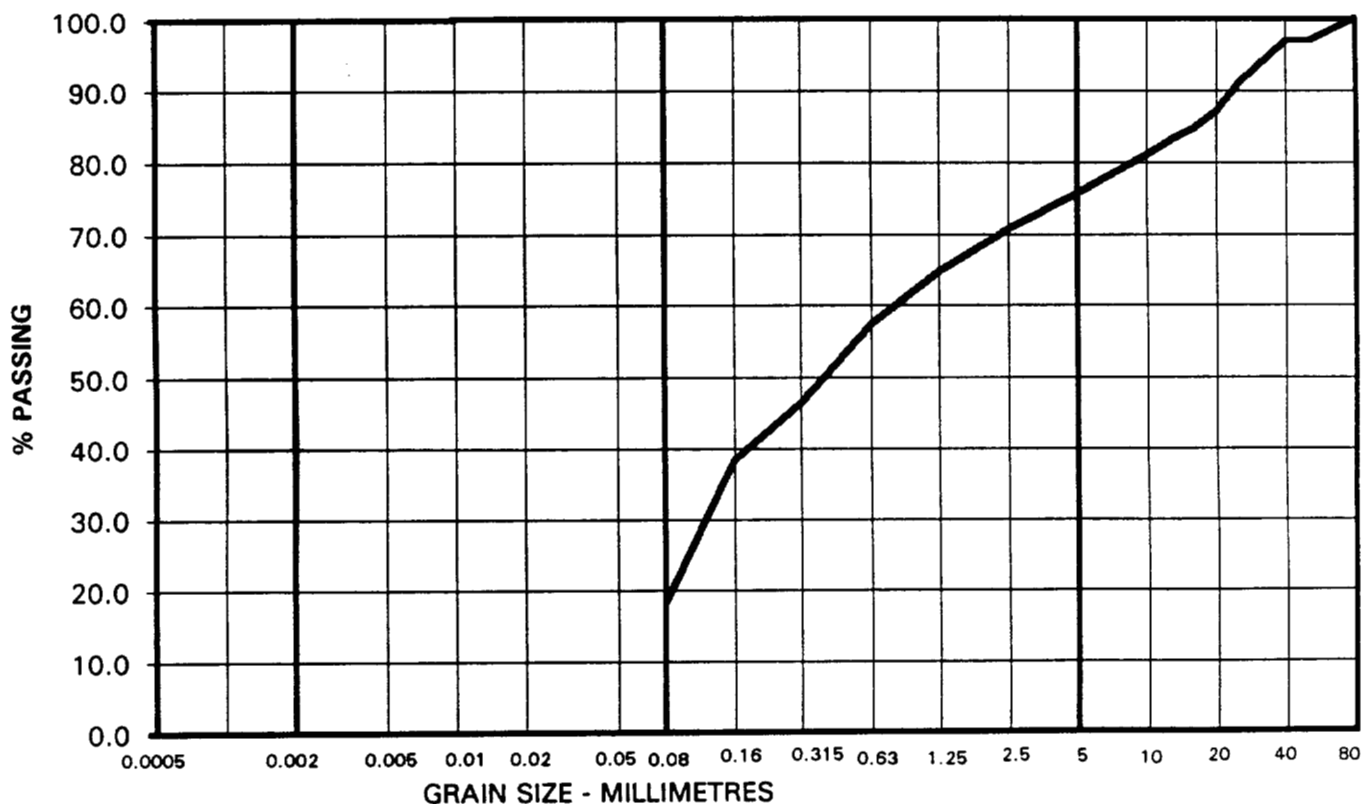
WATER CONTENT: 2.0%

TOTAL MASS: 8044 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	97
40	97
25	91
20	87
16	85
12.5	83
10	81
5	76
2.5	71
1.25	65
0.63	57
0.315	46
0.16	38
0.08	18.3

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

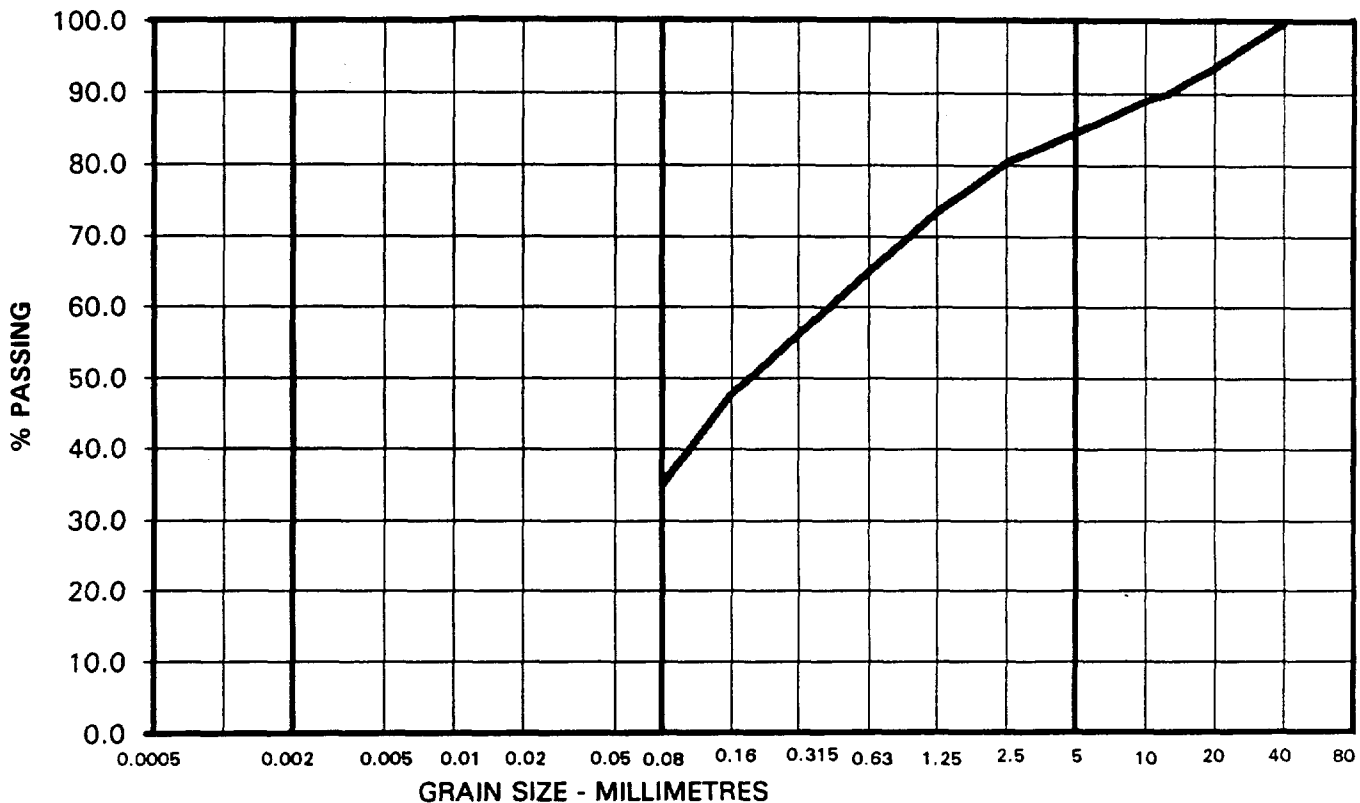
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 25 BY: ht EBA Eng.
 TESTPIT NO: d46gc
 DEPTH: 0.15 - 0.65
 SOIL DESCRIPTION SAND(SM), silty, some gravel,

Cu: _____ Cc: _____
 WATER CONTENT: 6.6%
 TOTAL MASS: 6419 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	96
20	94
16	92
12.5	90
10	89
5	84
2.5	80
1.25	73
0.63	65
0.315	56
0.16	48
0.08	35.0

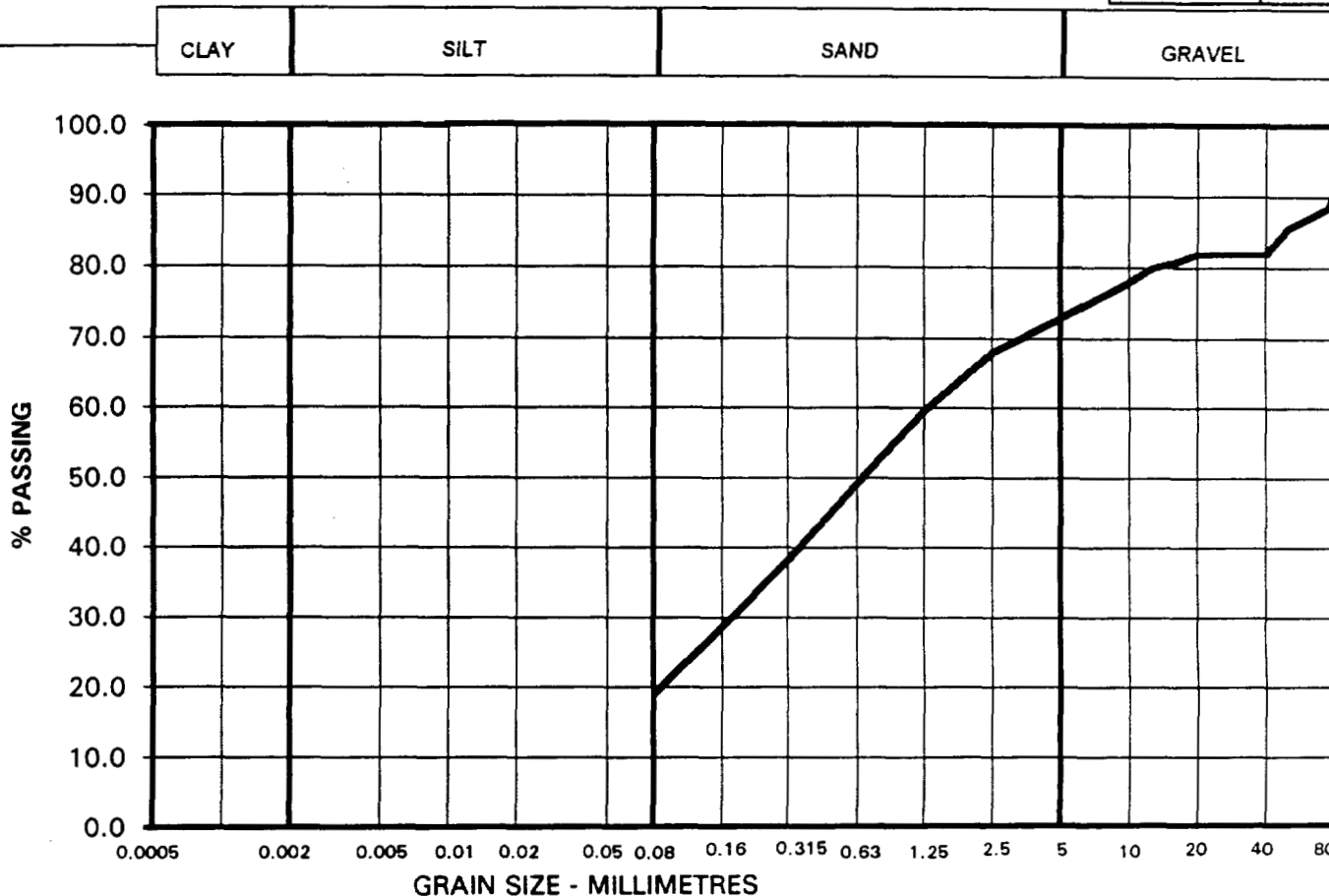
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 24 BY: ht EBA Eng.
 TESTPIT NO: d47d
 DEPTH: 0.15 - 0.50
 SOIL DESCRIPTION SAND(SM), gravelly, some silt,
some organics, subrounded, light brown.
 Cu: _____ Cc: _____
 WATER CONTENT: 5.6%
 TOTAL MASS: 7757 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	100
75	88
50	85
40	82
25	82
20	82
16	81
12.5	80
10	78
5	73
2.5	68
1.25	59
0.63	49
0.315	38
0.16	29
0.08	18.9



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 24 BY: ht EBA Eng.
TESTPIT NO: d47gc
DEPTH: 0.15 - 0.40
SOIL DESCRIPTION SAND(SM), gravelly, silty,
some organics, well-graded, subangular, yellow-brown.

Cu: _____ Cc: _____

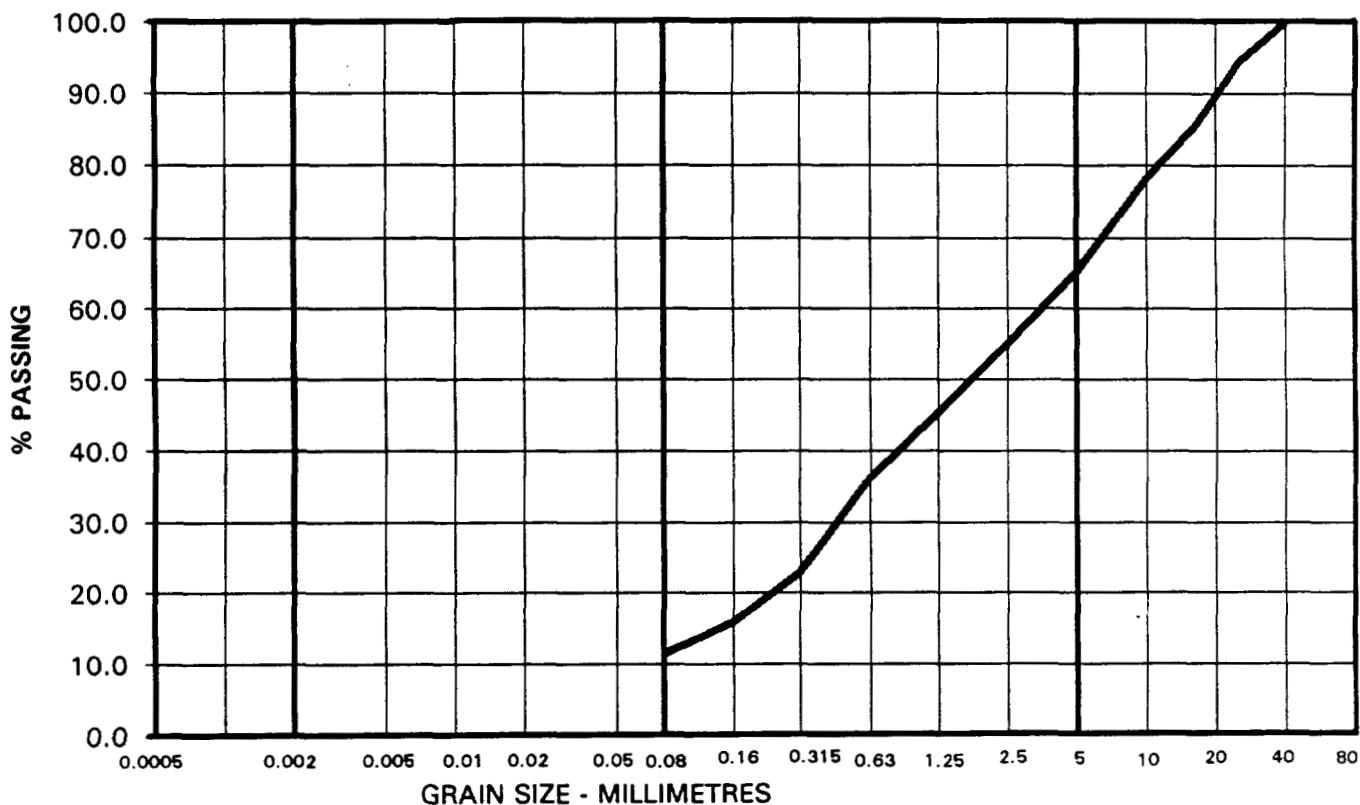
WATER CONTENT: 3.3%

TOTAL MASS: 5404 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	95
20	89
16	85
12.5	81
10	78
5	65
2.5	55
1.25	45
0.63	36
0.315	23
0.16	16
0.08	11.5

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 24 BY: ht EBA Eng.
TESTPIT NO: d48d
DEPTH: 0.15 - 0.90
SOIL DESCRIPTION SAND(SM), gravelly, silty,
some organics, well-graded, subangular, light brown.

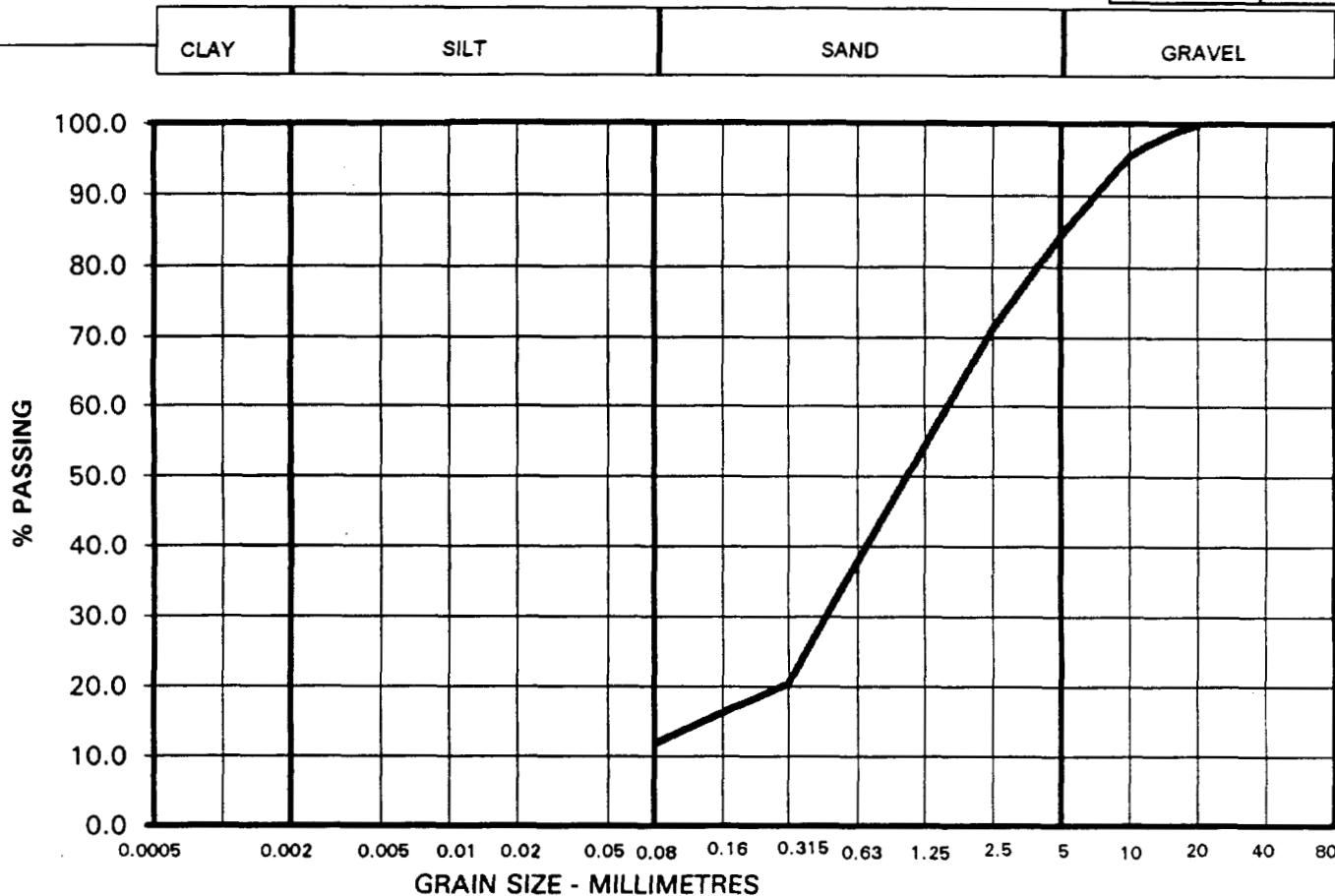
Cu: _____ Cc: _____

WATER CONTENT: 1.9%

TOTAL MASS: 7777 Grams

REMARKS: _____

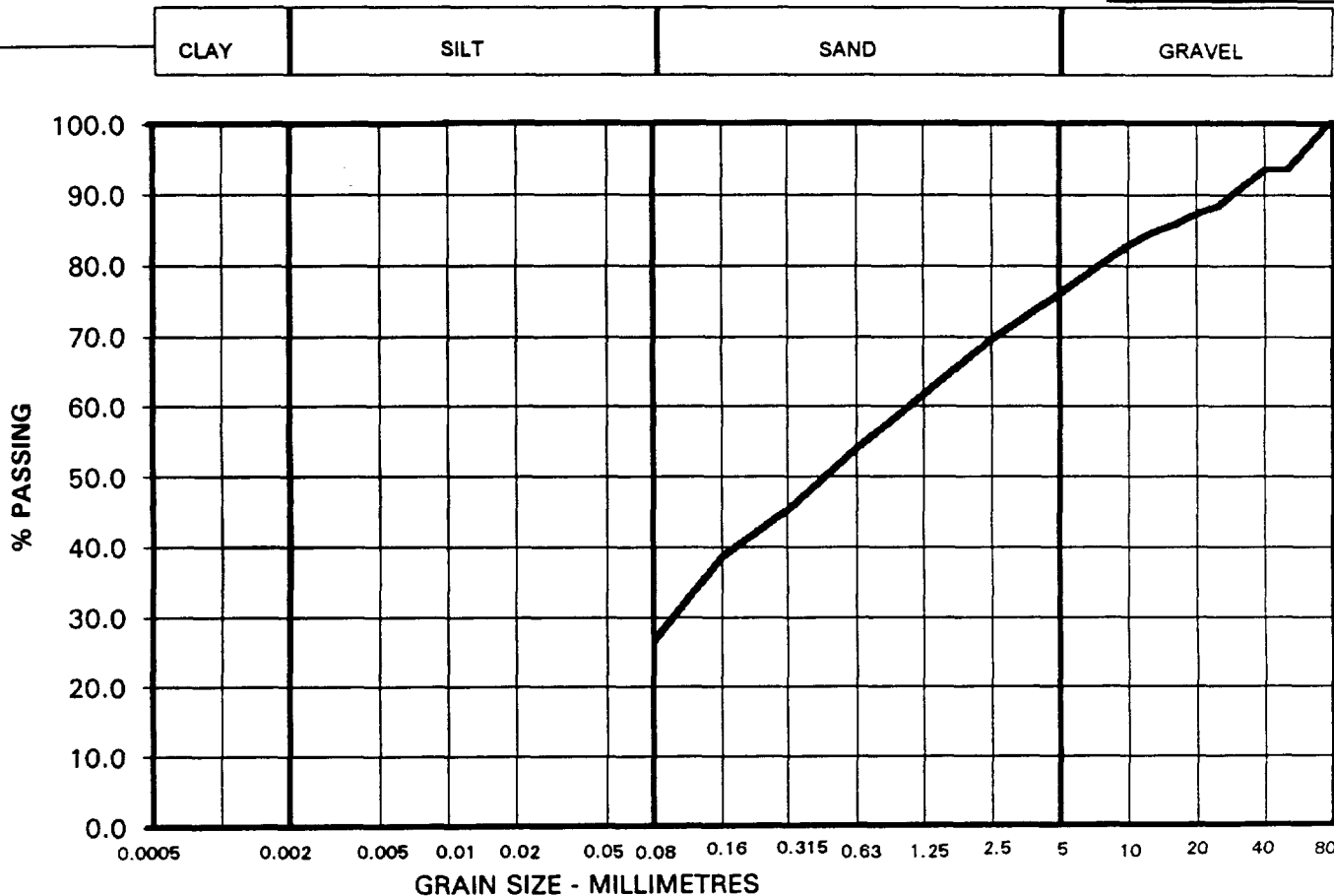
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	99
12.5	98
10	96
5	84
2.5	71
1.25	54
0.63	38
0.315	20
0.16	16
0.08	11.9



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 25 BY: ht EBA Eng.
 TESTPIT NO: d48gc
 DEPTH: 0.15 - 0.55
 SOIL DESCRIPTION SAND(SM), silty, gravelly,
well-graded, subangular, medium brown.
 Cu: _____ Cc: _____
 WATER CONTENT: 2.4%
 TOTAL MASS: 6758 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	94
40	94
25	89
20	87
16	86
12.5	85
10	83
5	76
2.5	70
1.25	62
0.63	54
0.315	45
0.16	39
0.08	26.5



PARTICLE - SIZE ANALYSIS OF SOILS

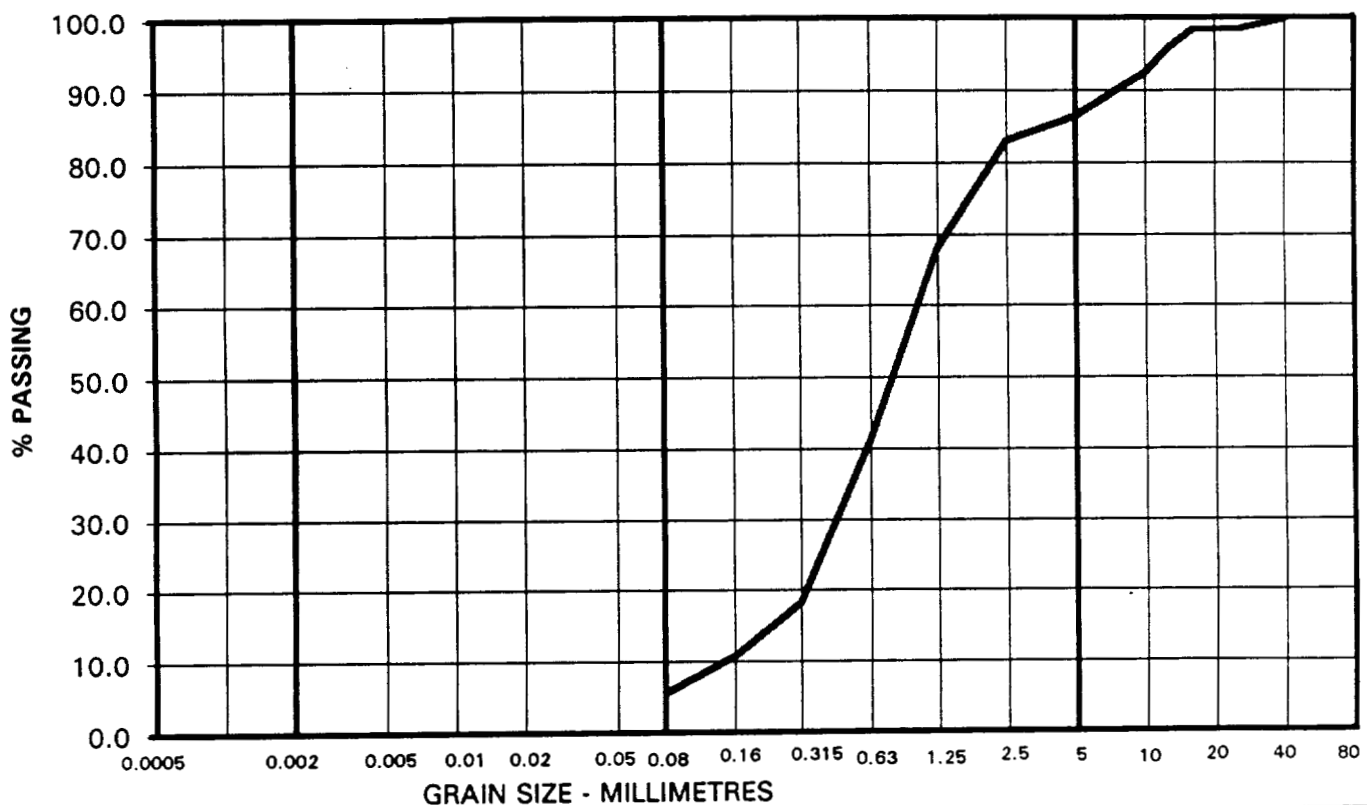
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 14 BY: ht EBA Eng.
 TESTPIT NO: d49d
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND(SW), some gravel, trace silt,
some organics, subangular, brown.

Cu: 6.9 Cc: 1.4
 WATER CONTENT: 1.7%
 TOTAL MASS: 6927 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	99
20	99
16	99
12.5	96
10	93
5	86
2.5	83
1.25	68
0.63	41
0.315	18
0.16	11
0.08	5.5

CLAY	SILT	SAND	GRAVEL
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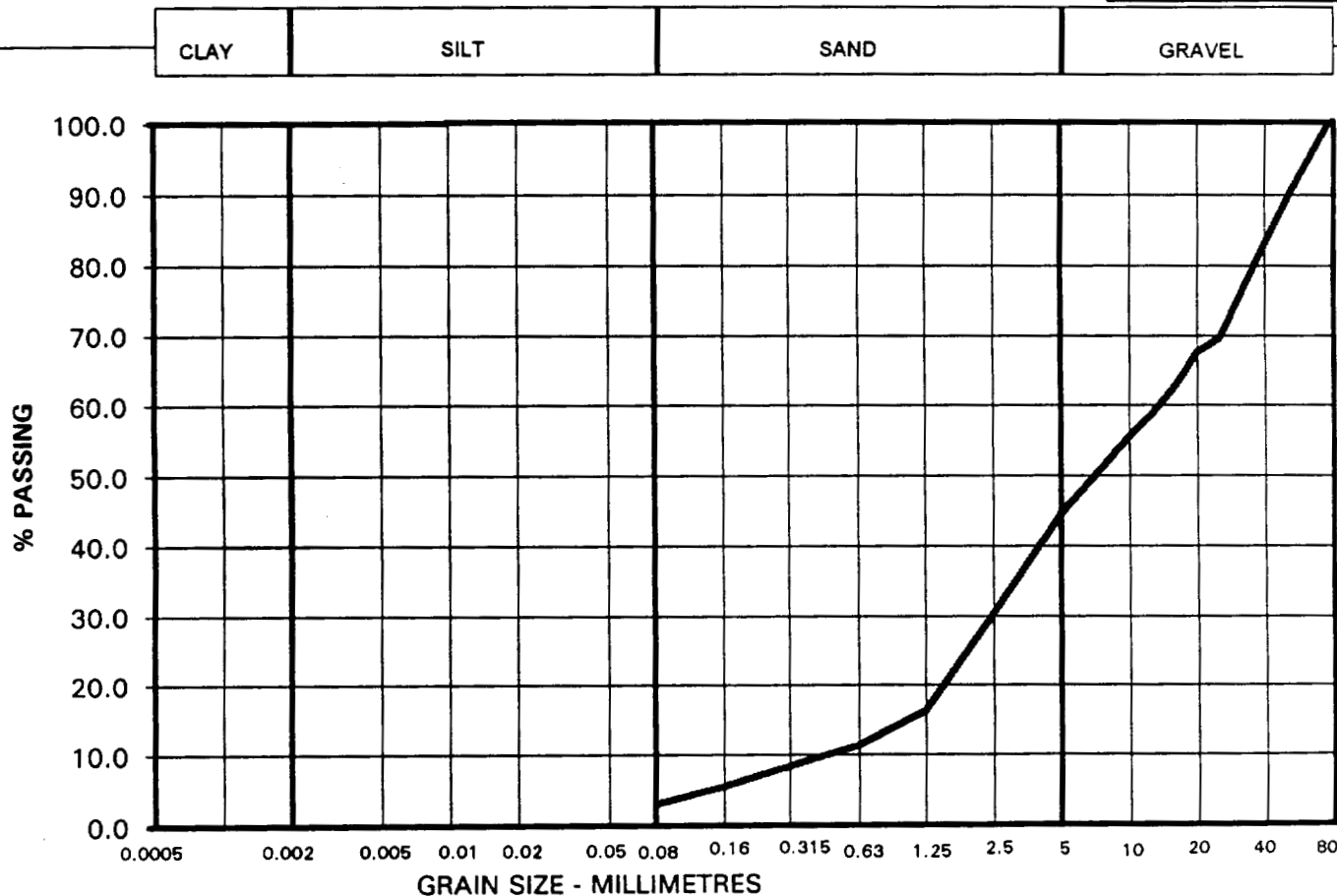
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 26 BY: ht EBA Eng.
 TESTPIT NO: d49gc
 DEPTH: 0.15 - 0.45
 SOIL DESCRIPTION GRAVEL and SAND(GW - SW), trace silt,
some organics, subrounded, medium brown.

Cu: 29.4 Cc: 1.0
 WATER CONTENT: 1.3%
 TOTAL MASS: 12253 Grams

REMARKS: _____

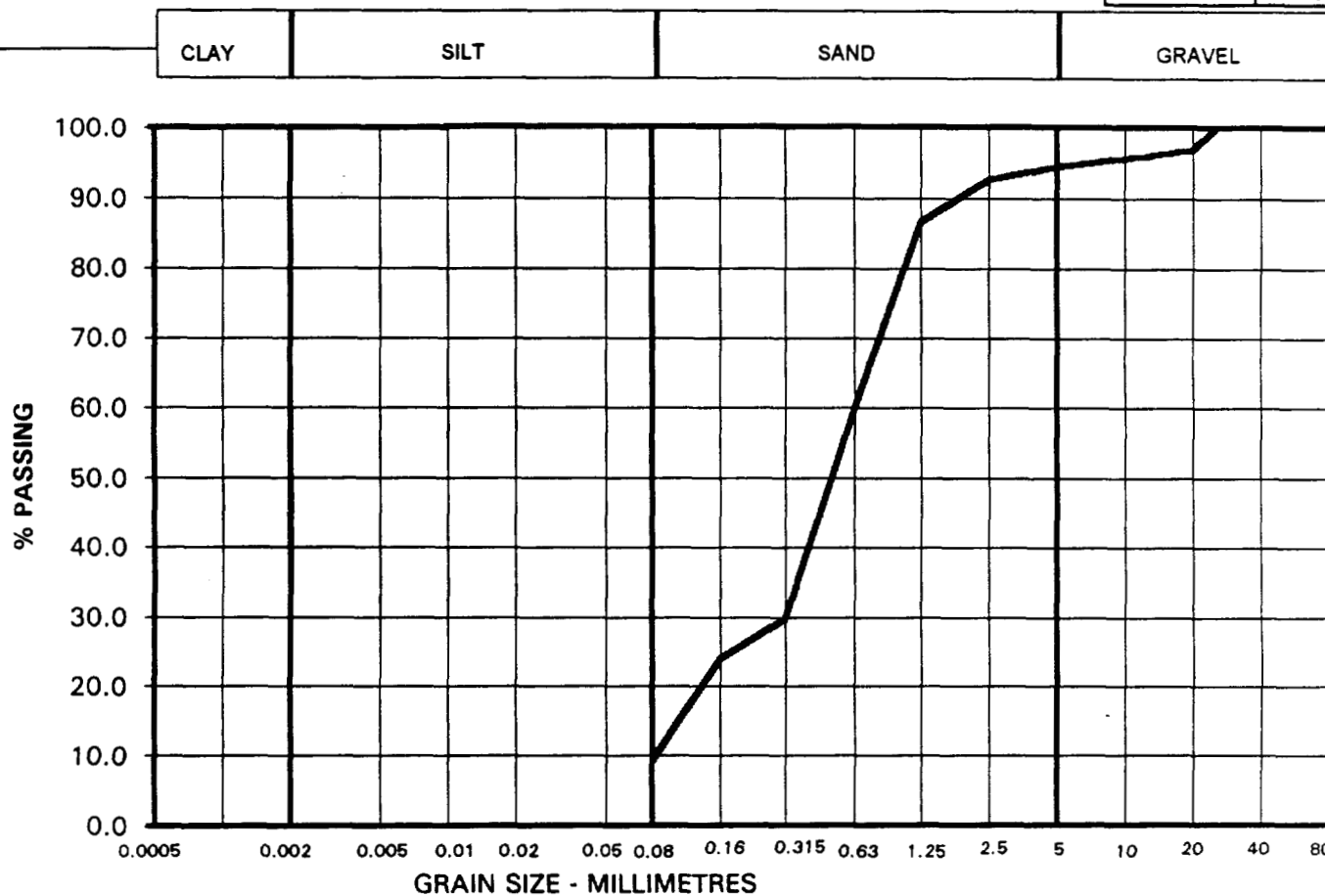
SIEVE	PERCENT
SIZE	PASSING
75	100
50	90
40	83
25	70
20	68
16	63
12.5	59
10	56
5	45
2.5	30
1.25	16
0.63	11
0.315	8
0.16	5
0.08	2.9



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 26 BY: ht EBA Eng.
TESTPIT NO: d50d
DEPTH: 0.15 - 0.80
SOIL DESCRIPTION SAND(SW), trace silt, trace gravel,
trace organics, subangular, medium brown.
Cu: 7.6 Cc: 1.9
WATER CONTENT: 2.8%
TOTAL MASS: 8661 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	97
16	97
12.5	96
10	96
5	94
2.5	93
1.25	87
0.63	60
0.315	30
0.16	24
0.08	9.3



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 26 BY: ht EBA Eng.
TESTPIT NO: d50gc
DEPTH: 0.15 - 0.90
SOIL DESCRIPTION SAND(SW), trace gravel, trace silt,
trace organics, sub-rounded, light brown.

Cu: 9.1 Cc: 1.2

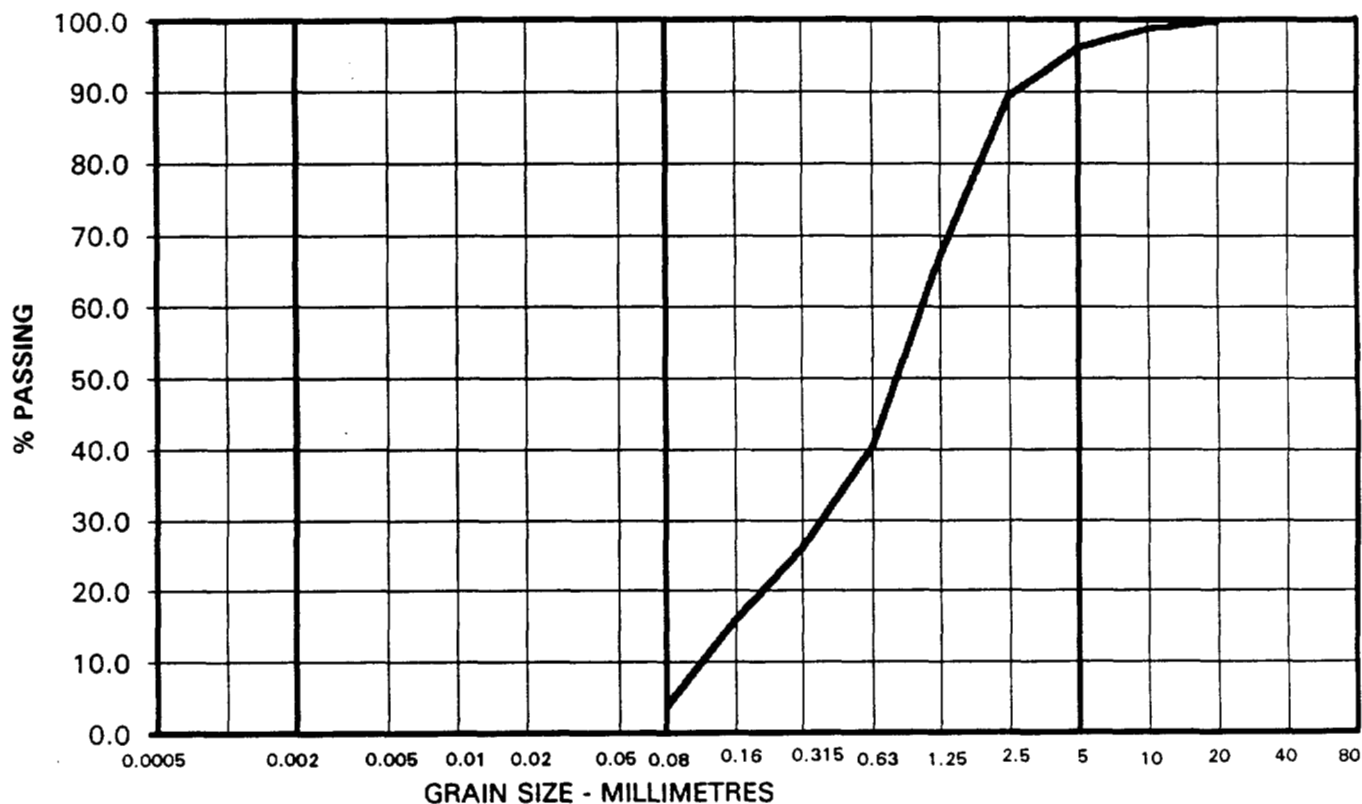
WATER CONTENT: 2.0%

TOTAL MASS: 9761 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	100
12.5	99
10	99
5	96
2.5	89
1.25	67
0.63	40
0.315	26
0.16	16
0.08	3.7

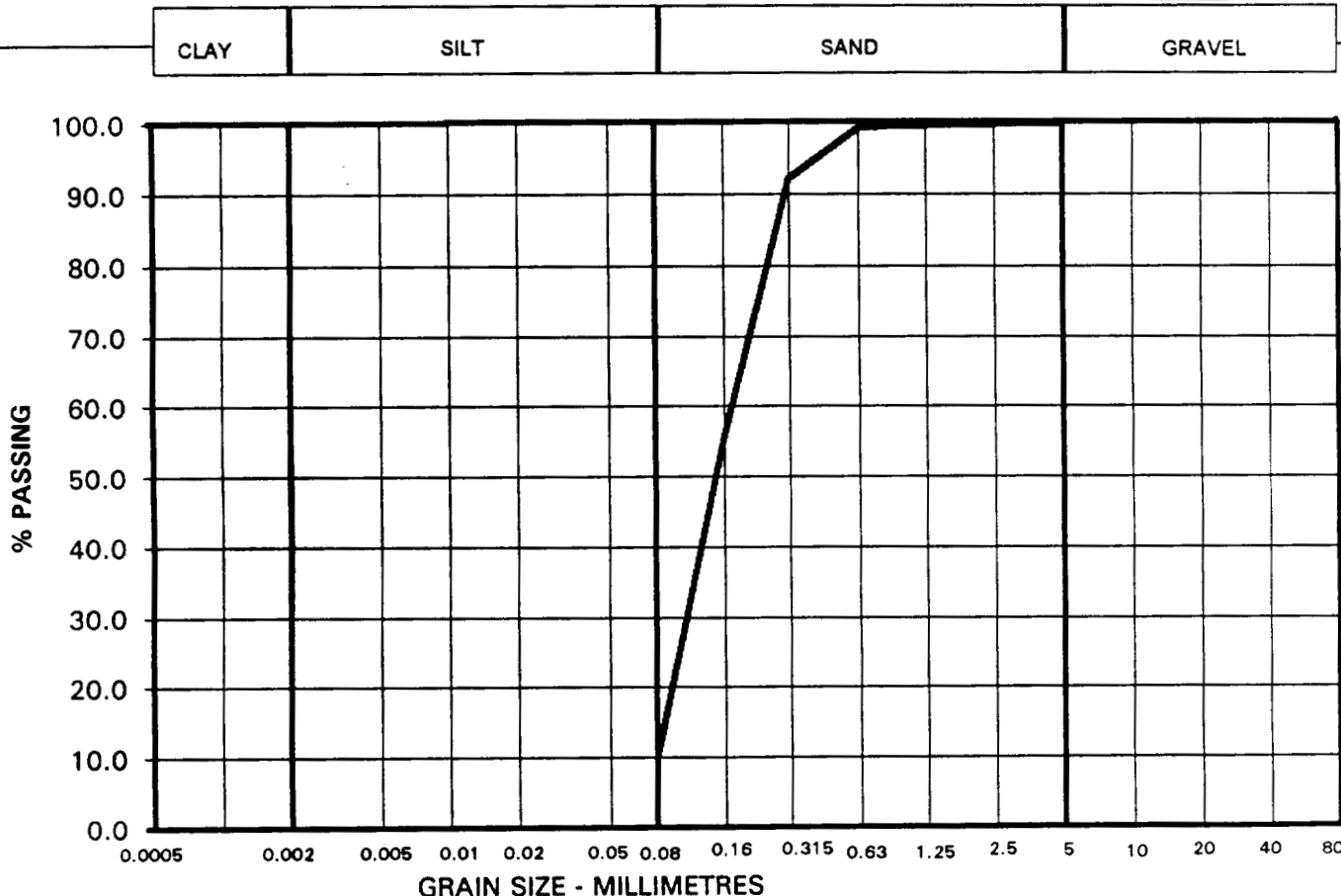
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 26 BY: ht EBA Eng.
 TESTPIT NO: d51d
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SP), trace silt,
some organics, subrounded, light grey.
 Cu: 2.2 Cc: 0.8
 WATER CONTENT: 4.0%
 TOTAL MASS: 7555 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	100
0.63	99
0.315	92
0.16	56
0.08	9.8



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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 26 BY: ht EBA Eng.
TESTPIT NO: d51gc
DEPTH: 0.15 - 0.95
SOIL DESCRIPTION SAND and SILT(SM - ML), trace gravel,
some organics, subrounded, light brown.

Cu: _____ Cc: _____

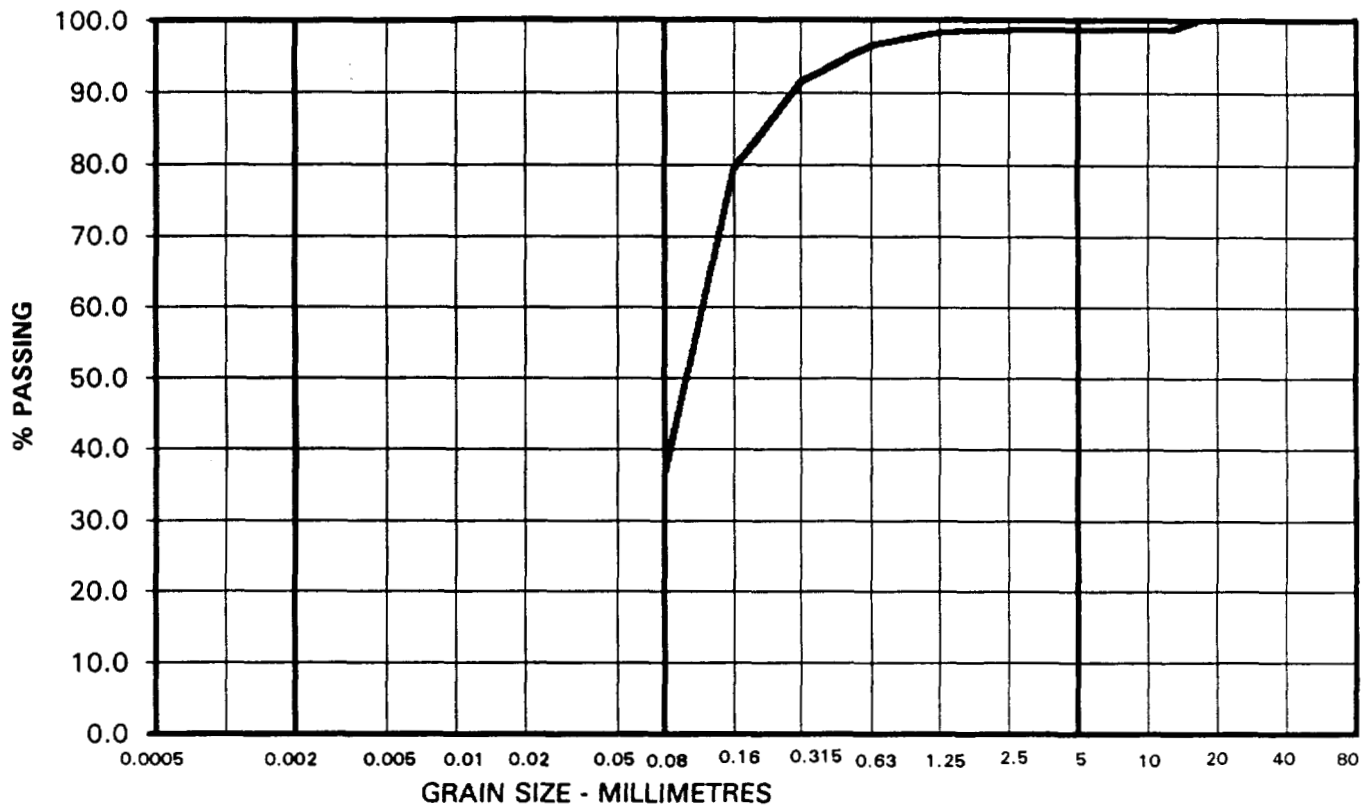
WATER CONTENT: 22.9%

TOTAL MASS: 7978 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	99
10	99
5	99
2.5	99
1.25	98
0.63	97
0.315	91
0.16	79
0.08	36.6

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 26 BY: ht EBA Eng.
TESTPIT NO: d52d
DEPTH: 0.15 - 0.45
SOIL DESCRIPTION SAND(SM), gravelly, silty,
some organics, well-graded, subrounded - subangular, light brown.

Cu: _____ Cc: _____

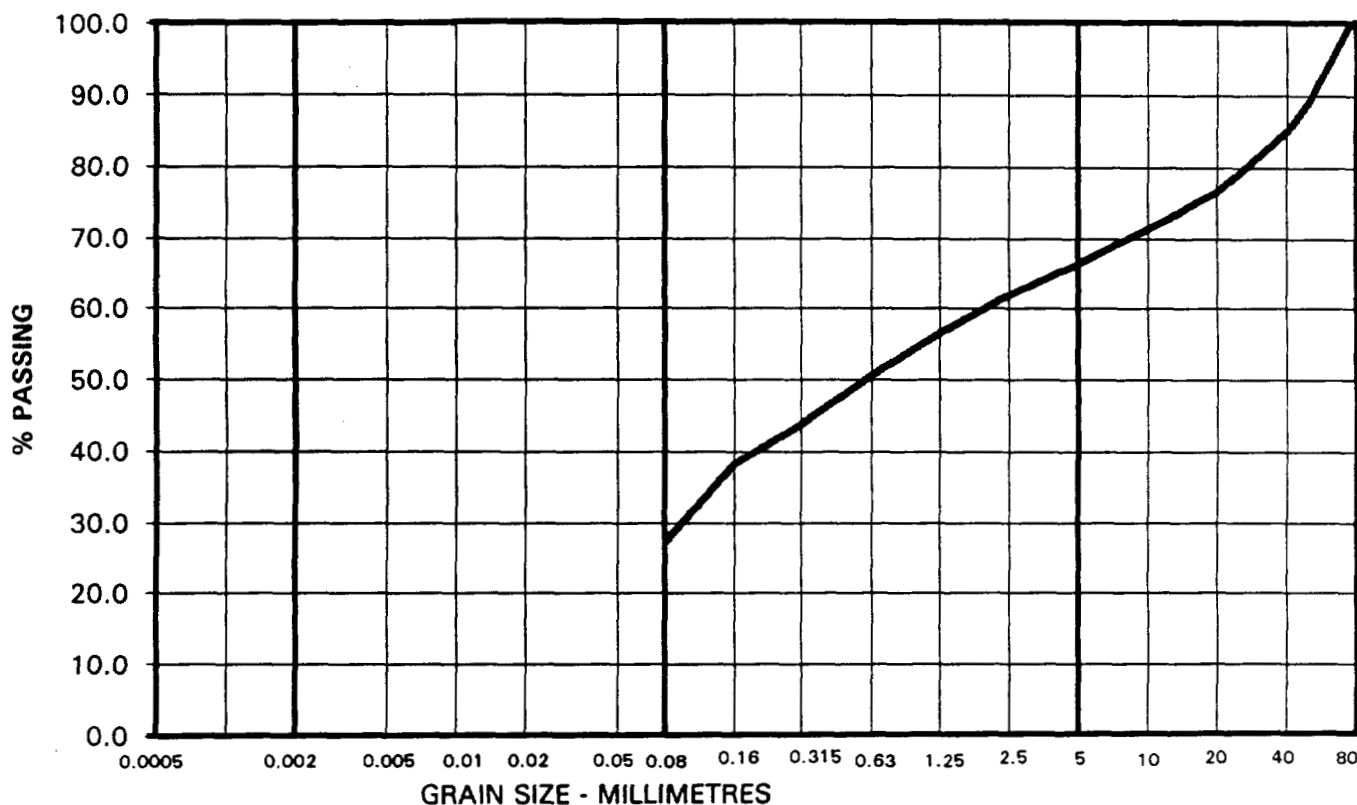
WATER CONTENT: 1.6%

TOTAL MASS: 8753 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	89
40	85
25	79
20	77
16	75
12.5	73
10	71
5	66
2.5	62
1.25	56
0.63	51
0.315	44
0.16	38
0.08	27.2

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 26 BY: ht EBA Eng.
TESTPIT NO: d52gc
DEPTH: 0.15 - 0.50
SOIL DESCRIPTION SAND and GRAVEL(SM - GM), silty,
some organics, subangular, light brown.

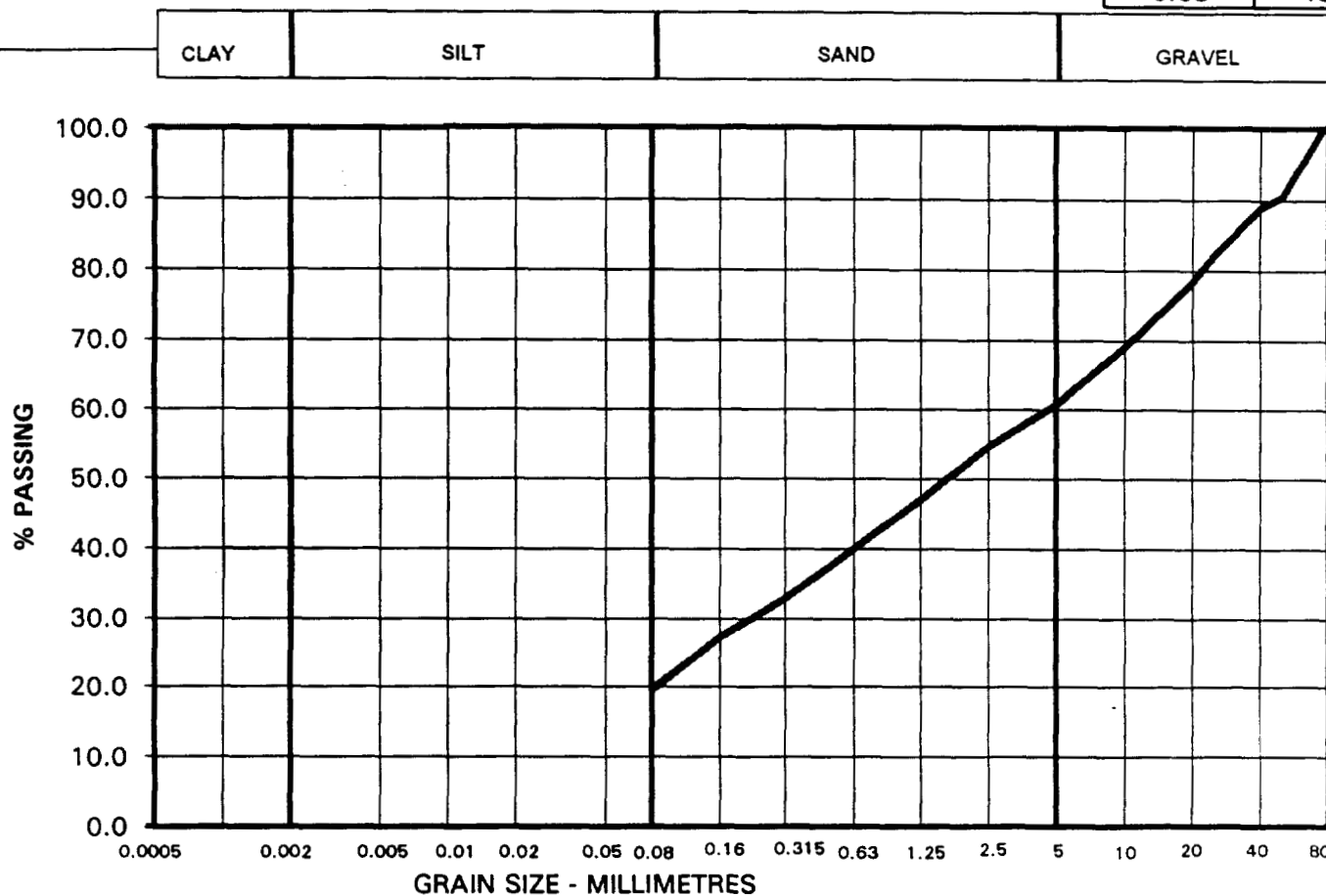
Cu: _____ Cc: _____

WATER CONTENT: 1.9%

TOTAL MASS: 6517 Grams

REMARKS: _____

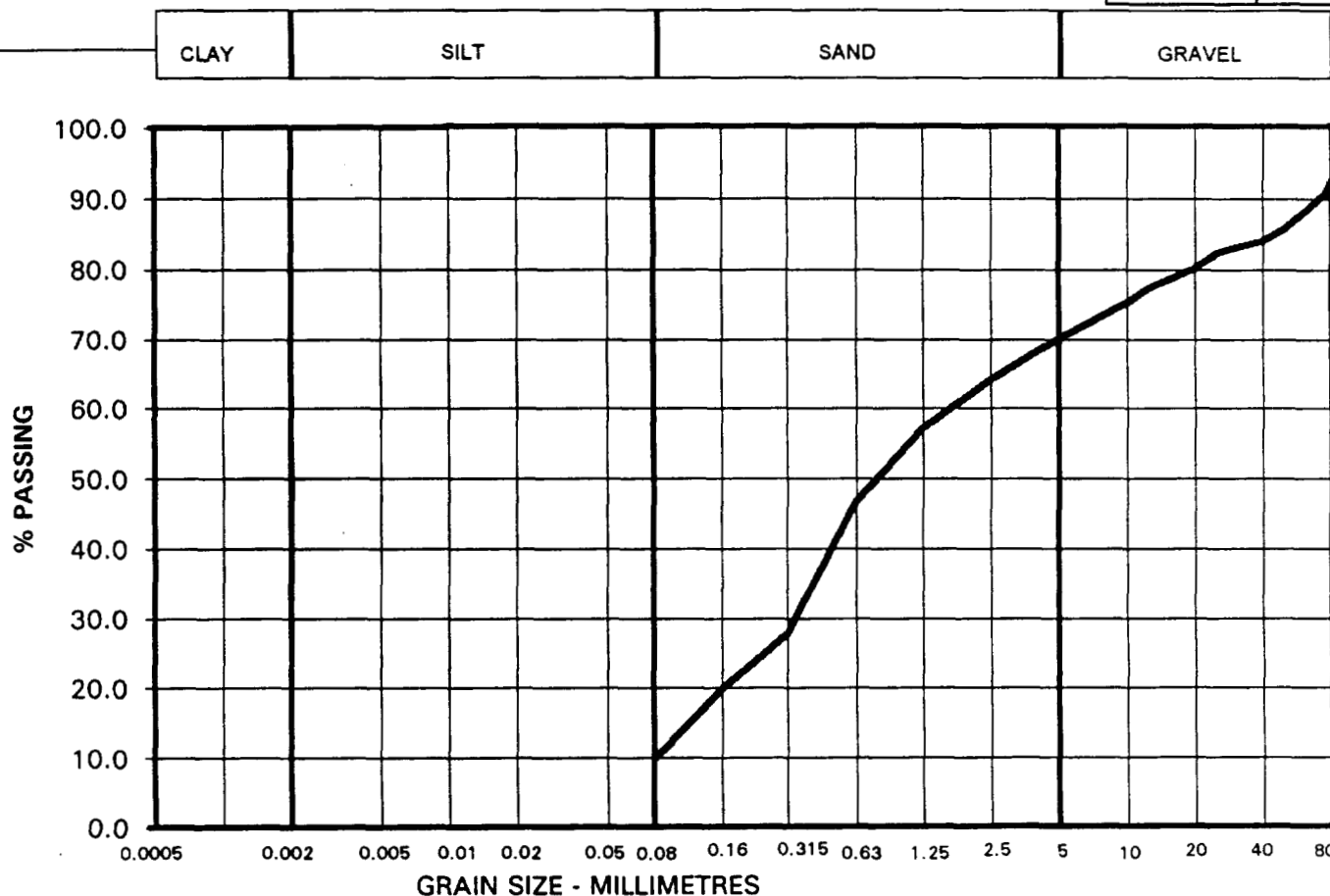
SIEVE	PERCENT
SIZE	PASSING
75	100
50	91
40	89
25	82
20	78
16	75
12.5	72
10	69
5	61
2.5	55
1.25	47
0.63	40
0.315	33
0.16	27
0.08	19.6



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 26 BY: ht EBA Eng.
 TESTPIT NO: d53d
 DEPTH: 0.15 - 0.7
 SOIL DESCRIPTION SAND(SP), gravelly, trace silt,
well-graded, subrounded - subangular, light grey.
 Cu: 20.4 Cc: 0.9
 WATER CONTENT: 2.1%
 TOTAL MASS: 7847 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	100
75	91
50	86
40	84
25	82
20	80
16	79
12.5	77
10	75
5	70
2.5	64
1.25	57
0.63	47
0.315	28
0.16	20
0.08	9.8



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 26 BY: ht EBA Eng.
 TESTPIT NO: d53gc
 DEPTH: 0.15 - 0.5
 SOIL DESCRIPTION SAND(SM), gravelly, silty,
some organics, well-graded, subangular, light grey.

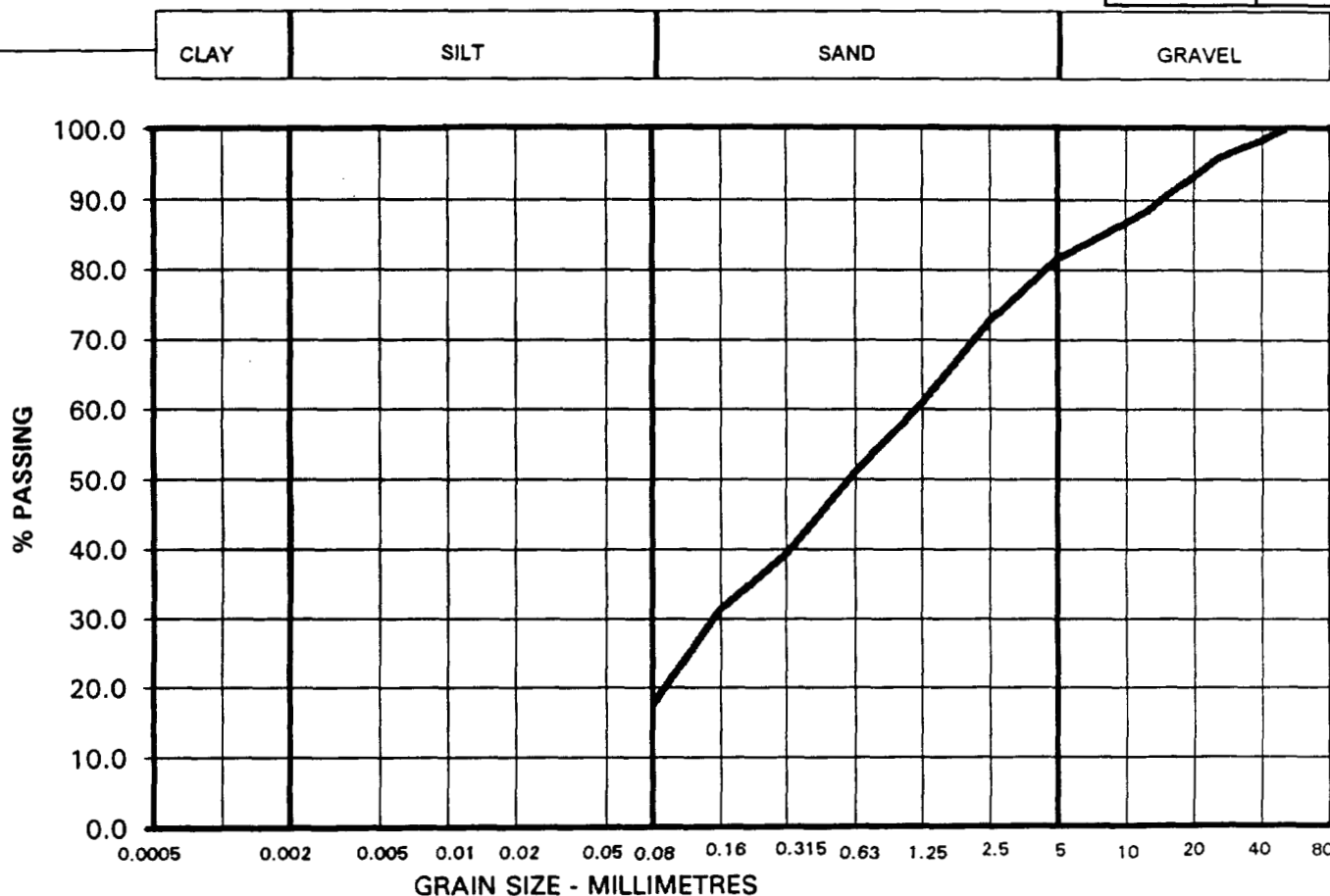
Cu: _____ Cc: _____

WATER CONTENT: 4.0%

TOTAL MASS: 8898 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	99
25	96
20	93
16	91
12.5	89
10	87
5	81
2.5	73
1.25	61
0.63	51
0.315	39
0.16	31
0.08	17.6



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

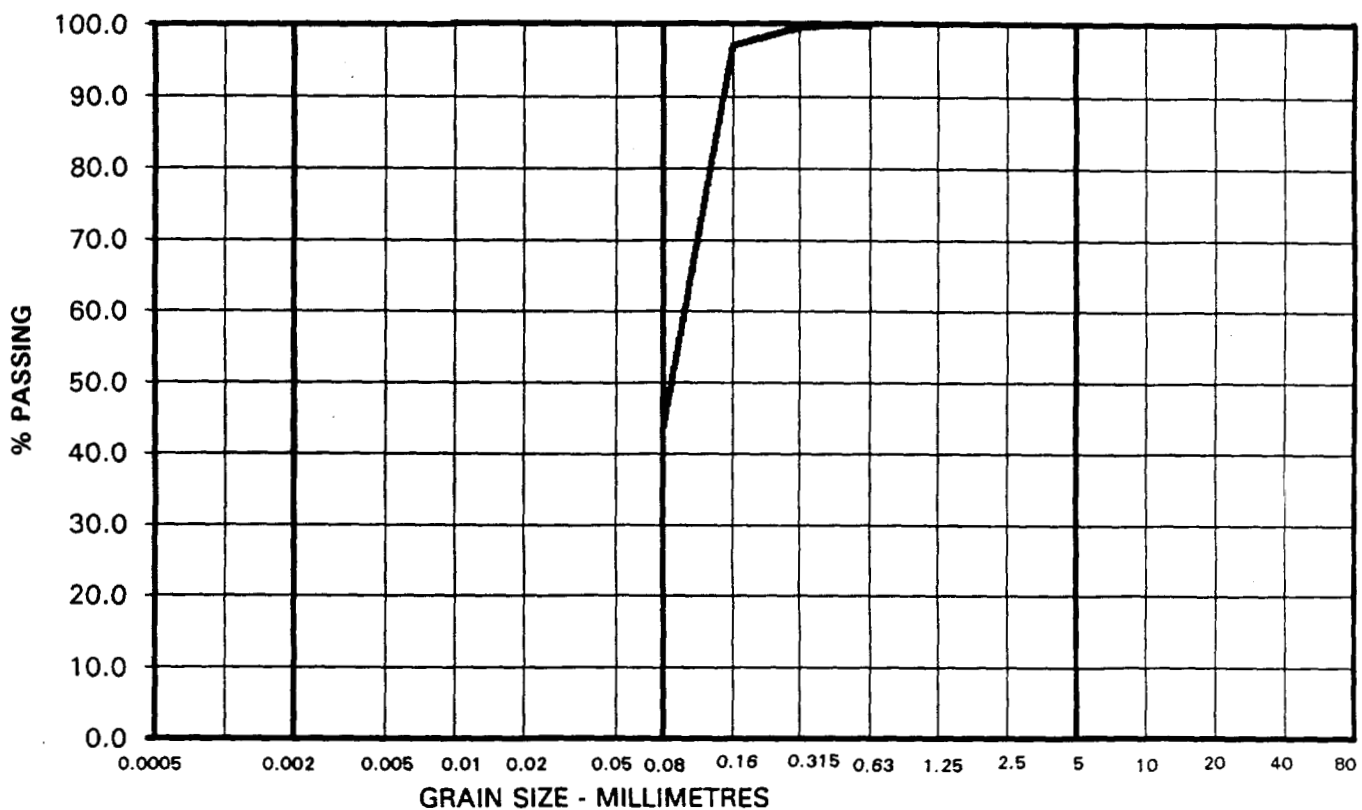
PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 26 BY: ht EBA Eng.
TESTPIT NO: d54gc
DEPTH: 0.15 - 0.90
SOIL DESCRIPTION SAND and SILT(SM - ML), some organics,
fine-grained, uniform, subangular, light grey.

Cu: _____ Cc: _____
WATER CONTENT: 11.4%
TOTAL MASS: 7400 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	
2.5	
1.25	
0.63	100
0.315	100
0.16	97
0.08	43.6

CLAY	SILT	SAND	GRAVEL
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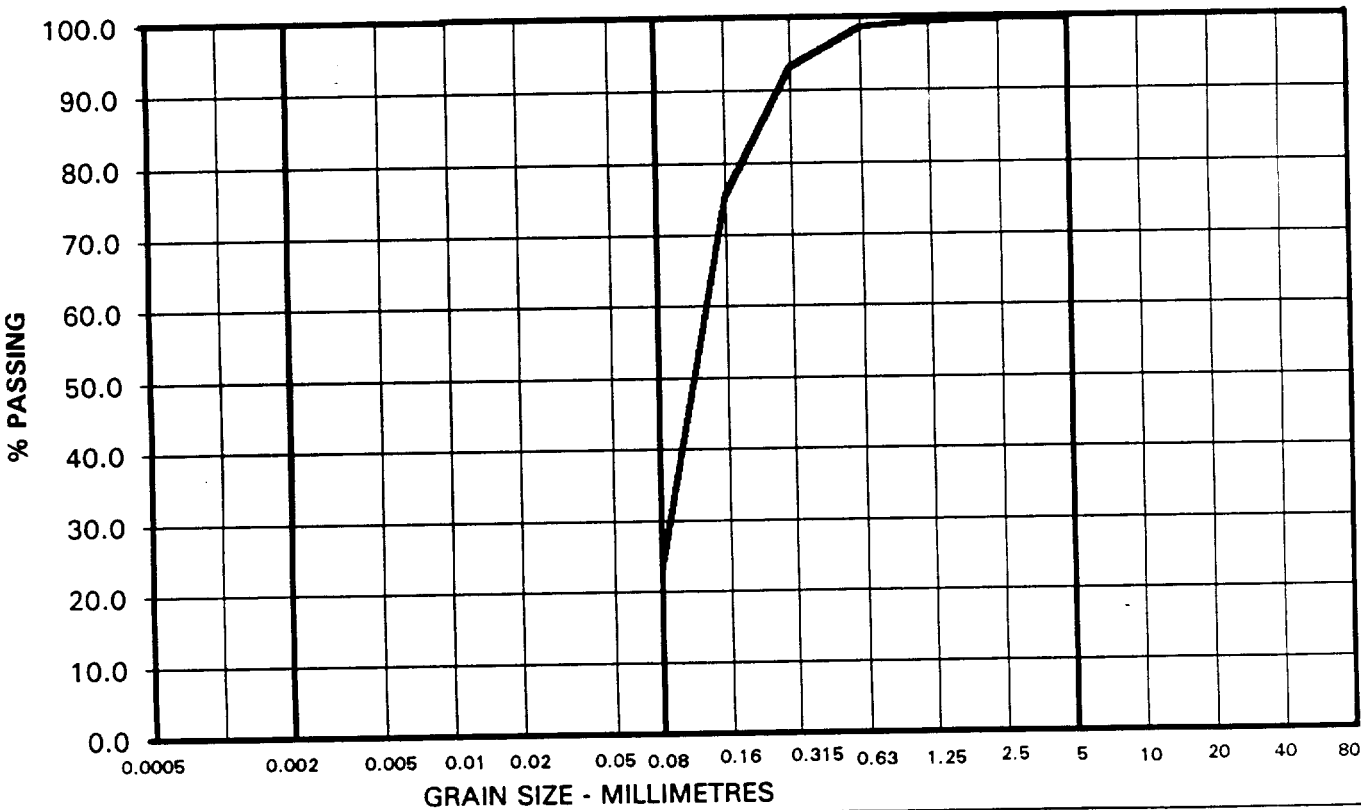


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 26 BY: ht EBA Eng.
TESTPIT NO: d55d
DEPTH: 0.15 - 0.70
SOIL DESCRIPTION SAND(SM), silty,
some organics, fine-grained, uniform, subrounded, medium brown.
Cu: _____ Cc: _____
WATER CONTENT: 3.9%
TOTAL MASS: 7393 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	99
0.63	99
0.315	93
0.16	75
0.08	23.1

CLAY	SILT	SAND	GRAVEL
------	------	------	--------



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 26 BY: ht EBA Eng.
TESTPIT NO: d55gc
DEPTH: 0.15 - 0.80
SOIL DESCRIPTION SAND(SM), some silt, some organics,
subangular, dark brown.

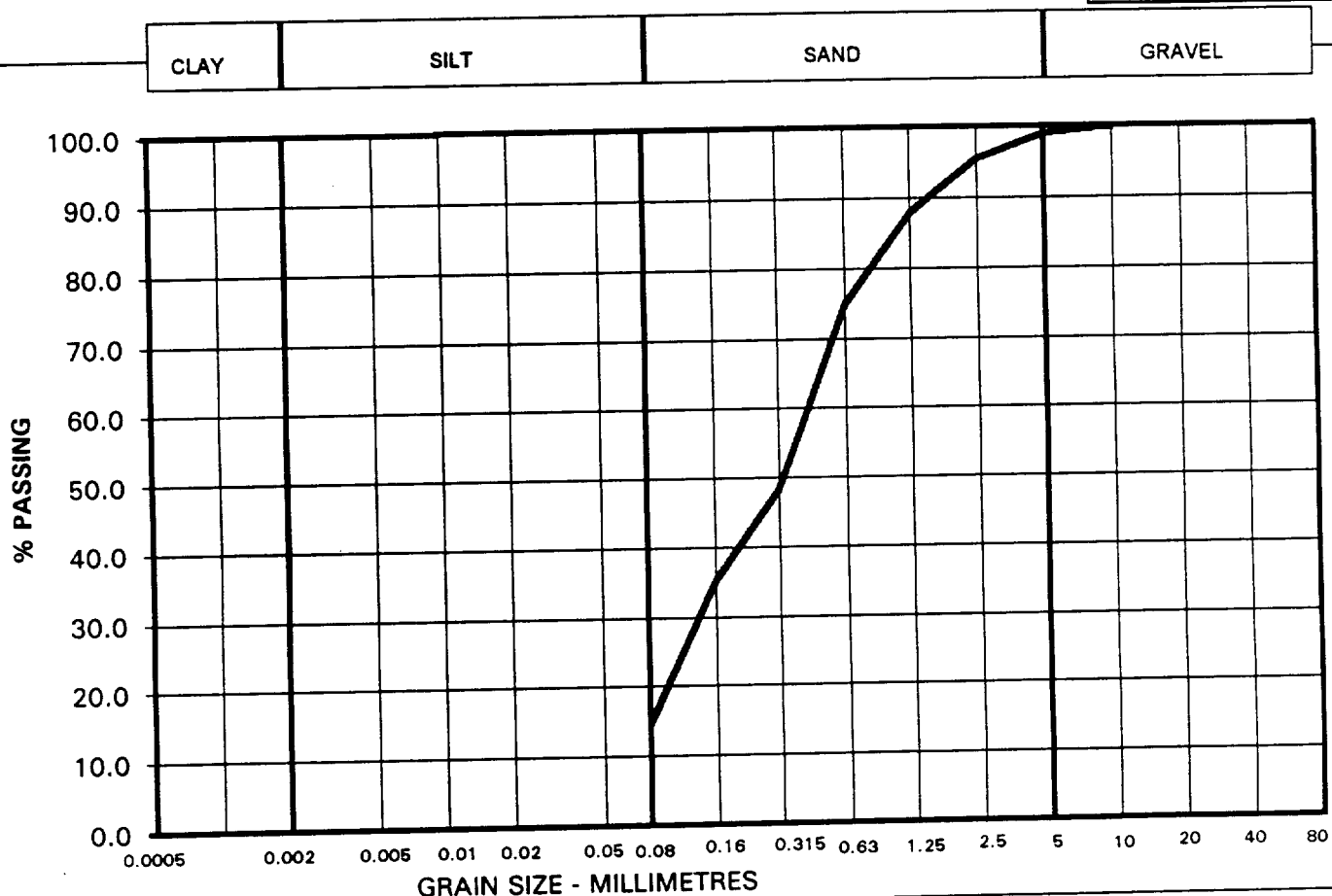
Cu: _____ Cc: _____

WATER CONTENT: 10.2%

TOTAL MASS: 6905 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	99
2.5	96
1.25	88
0.63	75
0.315	48
0.16	35
0.08	14.4



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 28 BY: ht EBA Eng.
TESTPIT NO: d56d
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SAND(SM), silty, trace gravel,
some organics, subangular, medium brown.

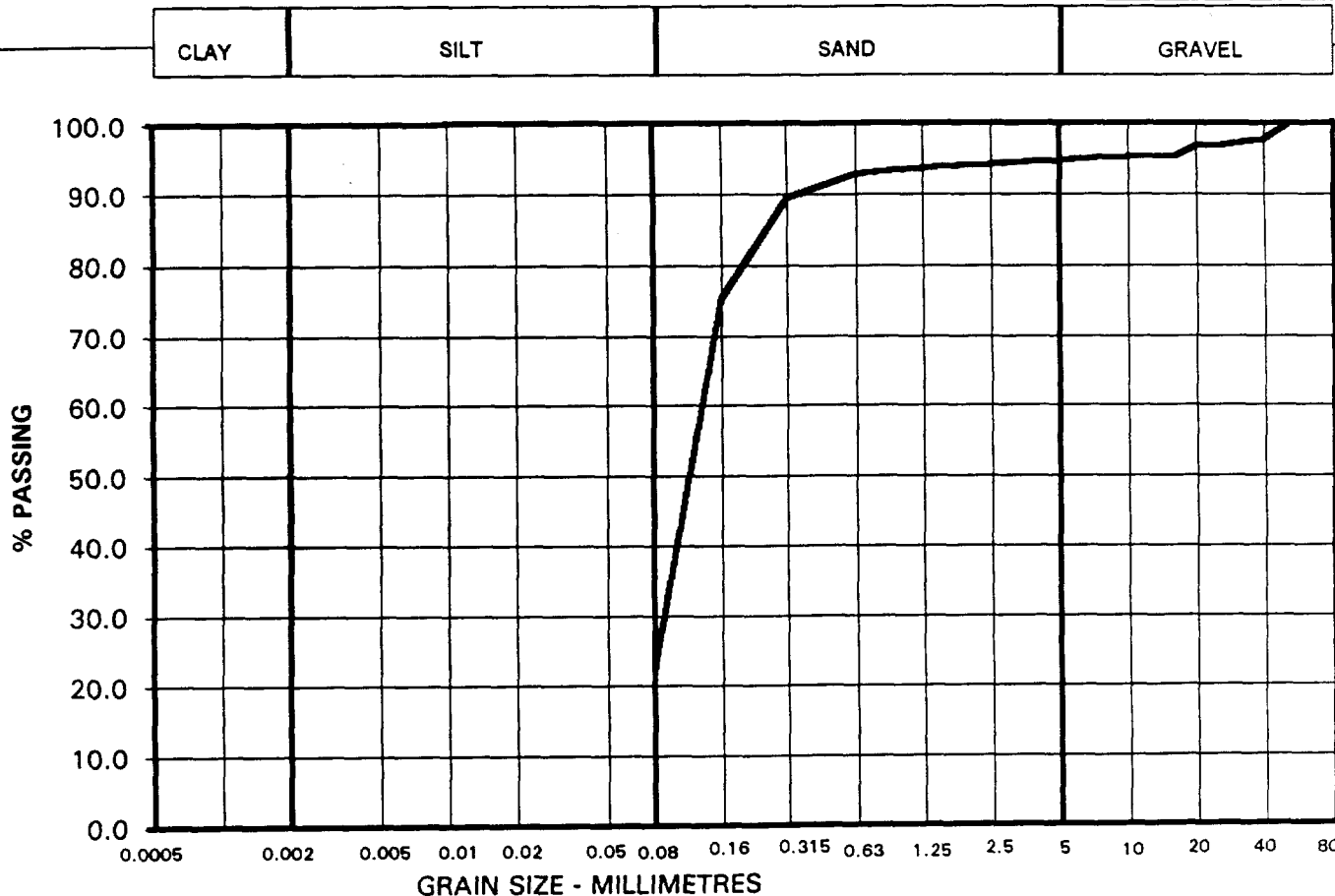
Cu: _____ Cc: _____

WATER CONTENT: 3.1%

TOTAL MASS: 6998 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	98
25	97
20	97
16	95
12.5	95
10	95
5	95
2.5	94
1.25	94
0.63	93
0.315	89
0.16	75
0.08	22.3



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 26 BY: ht EBA Eng.

TESTPIT NO: d56gc

DEPTH: 0.15 - 0.80

SOIL DESCRIPTION SAND(SM), some silt, trace gravel,

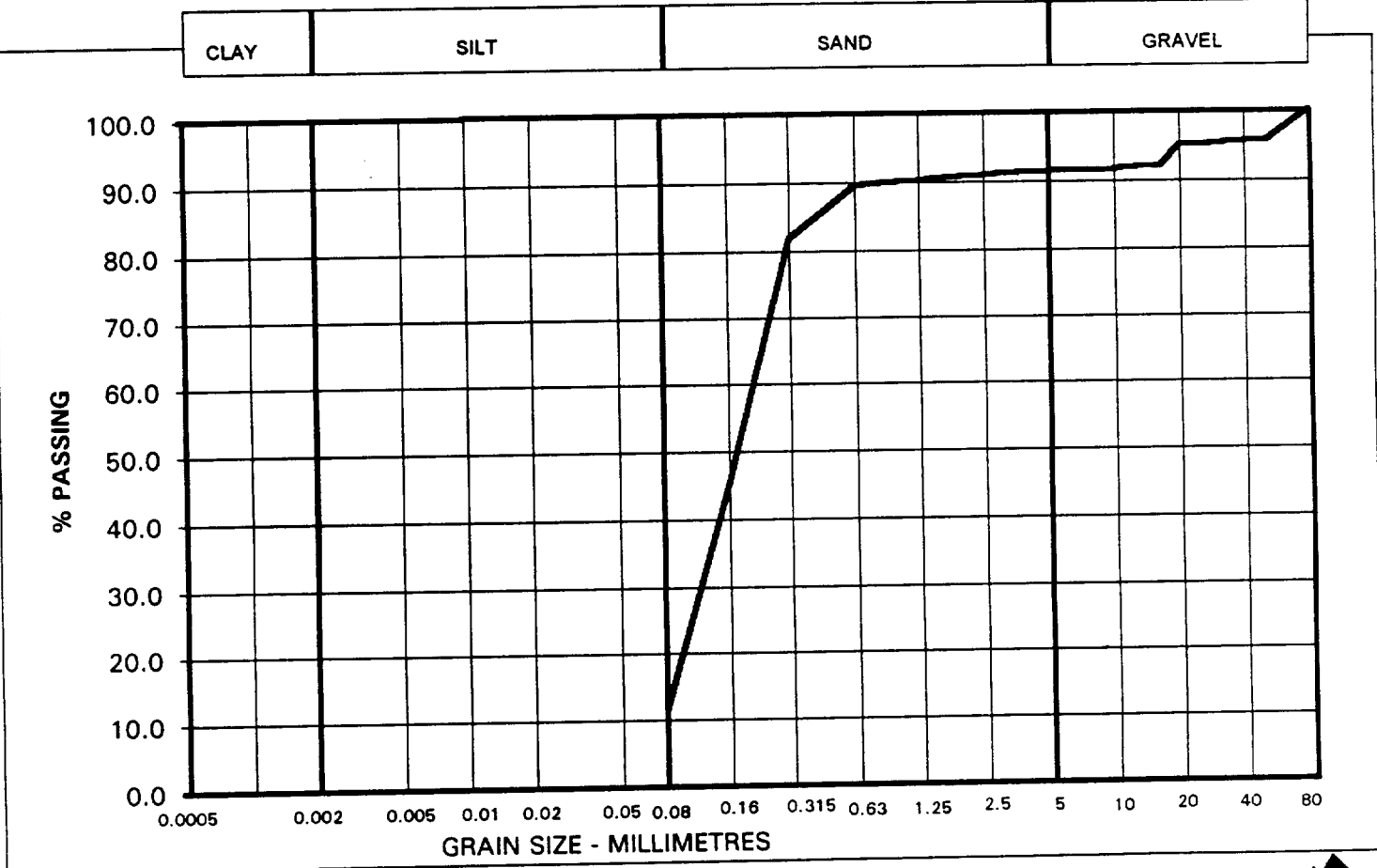
Cu: _____ Cc: _____

WATER CONTENT: 2.5%

TOTAL MASS: 7477 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	96
40	96
25	95
20	95
16	92
12.5	92
10	92
5	92
2.5	91
1.25	90
0.63	90
0.315	82
0.16	45
0.08	11.6



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 28 BY: htEBA Eng.
 TESTPIT NO: d57d
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND(SM), some silt, trace gravel,
trace organics, subrounded, light brown.

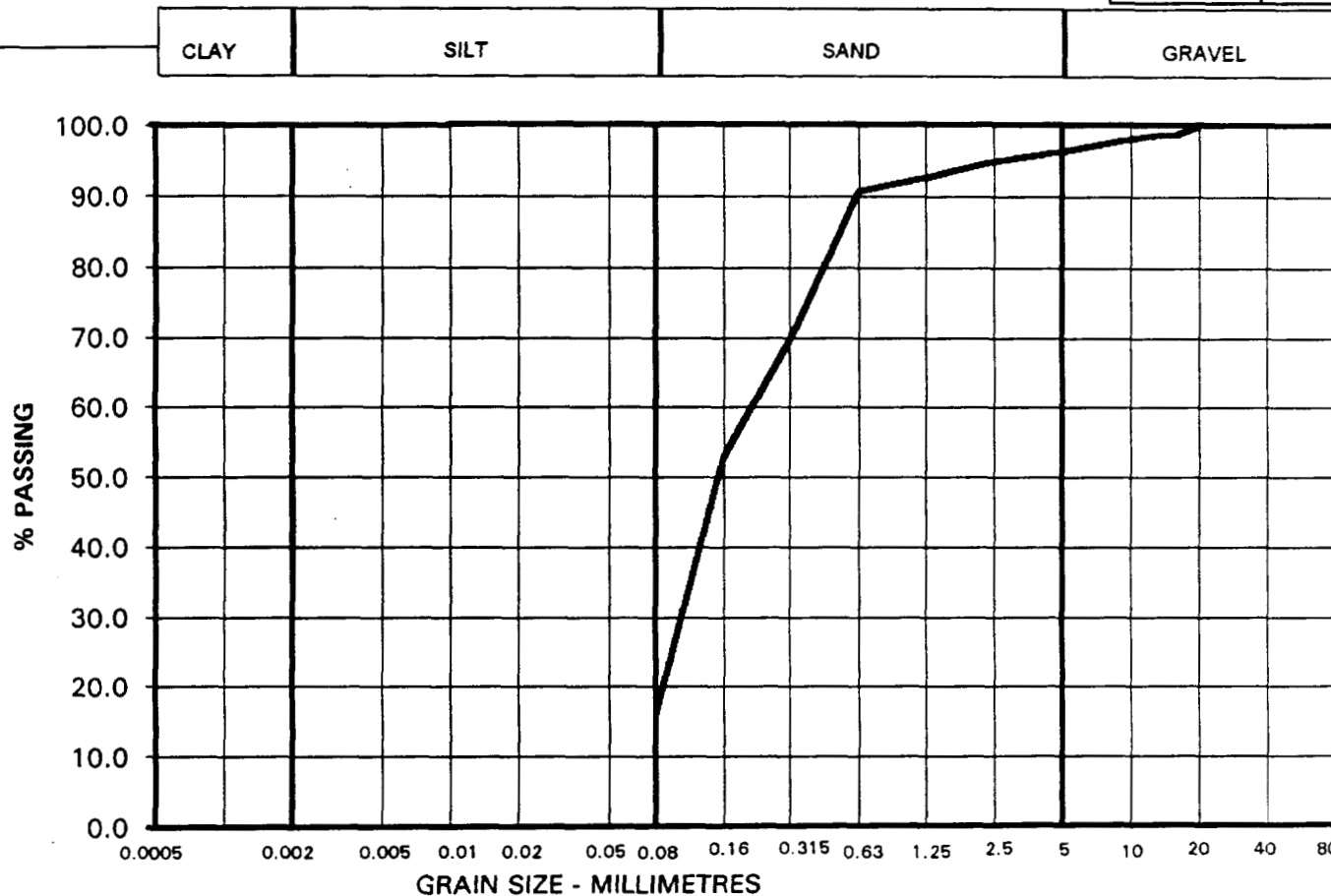
Cu: _____ Cc: _____

WATER CONTENT: 2.3%

TOTAL MASS: 5892 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	99
12.5	99
10	98
5	97
2.5	95
1.25	93
0.63	91
0.315	70
0.16	53
0.08	16.2



PARTICLE - SIZE ANALYSIS OF SOILS

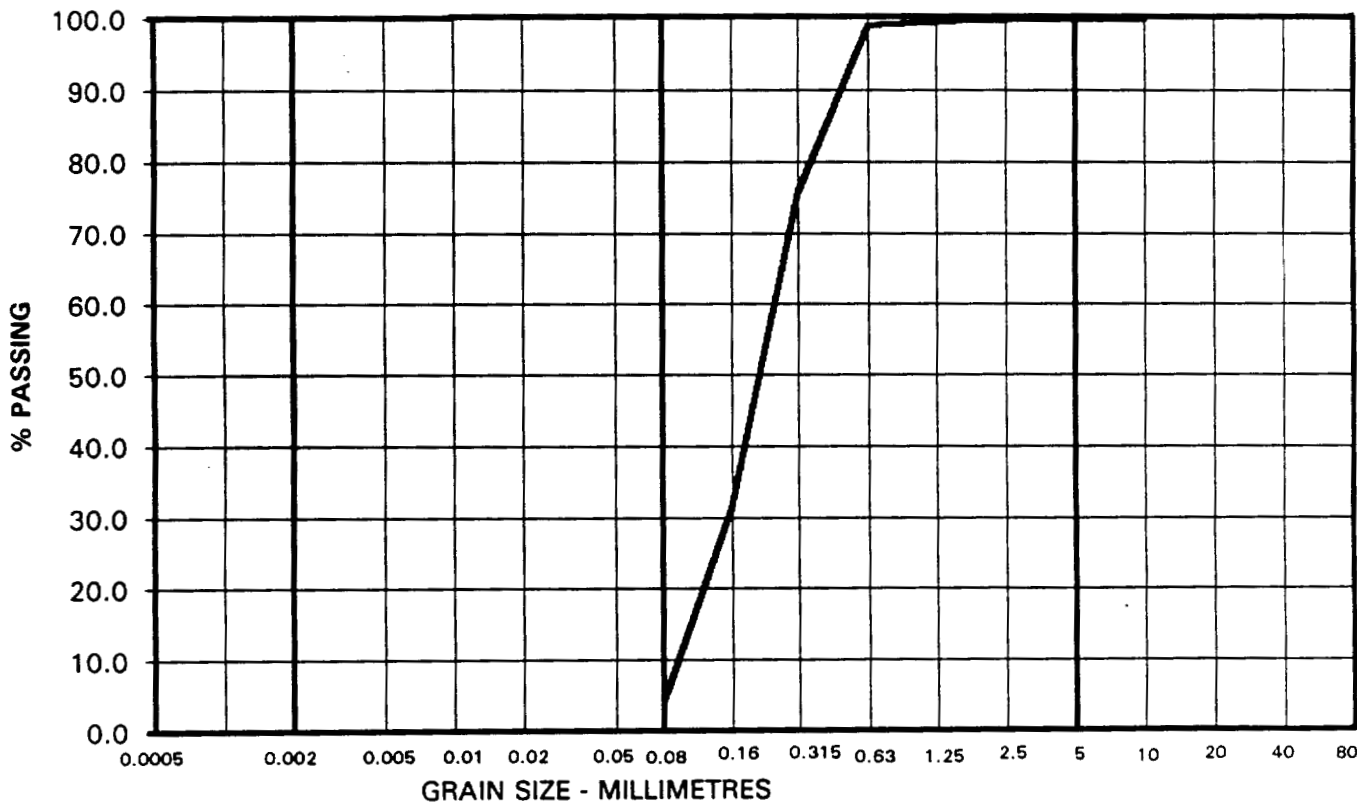
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 28 BY: htEBA Eng.
 TESTPIT NO: d57gc
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND(SP), trace silt,
some organics, subrounded, light brown.

Cu: 2.7 Cc: 1.0
 WATER CONTENT: 3.2%
 TOTAL MASS: 7520 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	100
1.25	100
0.63	99
0.315	76
0.16	32
0.08	4.0

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

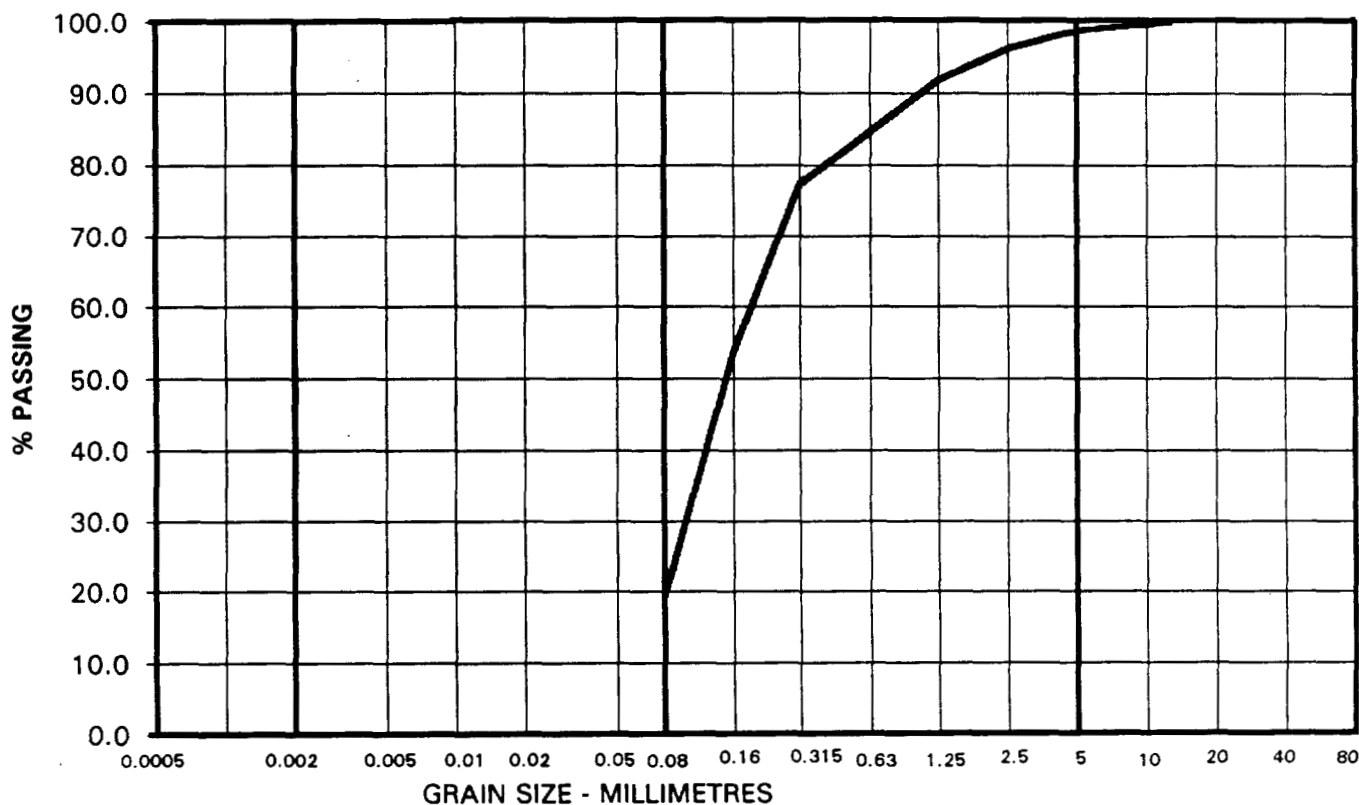
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 29 BY: ht EBA Eng.
 TESTPIT NO: d58d
 DEPTH: 0.15 - 0.80
 SOIL DESCRIPTION SAND(SM), silty, trace gravel,
some organics, subrounded, light brown.

Cu: _____ Cc: _____
 WATER CONTENT: 2.3%
 TOTAL MASS: 7643 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	100
5	99
2.5	96
1.25	92
0.63	85
0.315	77
0.16	54
0.08	19.3

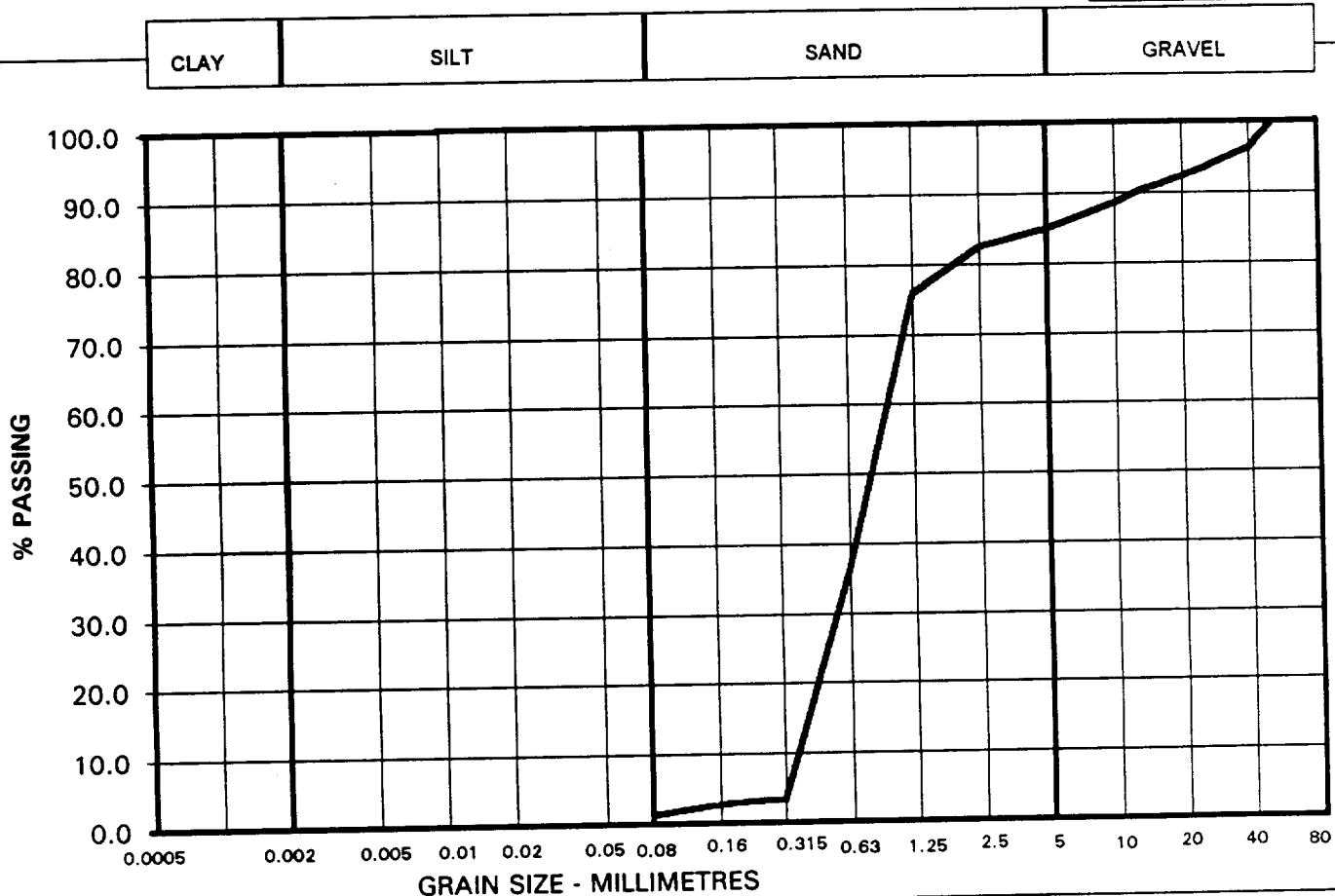
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 28 BY: htEBA Eng.
 TESTPIT NO: d58gc
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SP), some gravel, trace silt,
subrounded, light brown.
 Cu: 2.6 Cc: 0.9
 WATER CONTENT: 1.0%
 TOTAL MASS: 8564 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	96
25	94
20	92
16	91
12.5	90
10	89
5	85
2.5	82
1.25	76
0.63	36
0.315	3
0.16	3
0.08	1.2



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 29 BY: ht EBA Eng.

TESTPIT NO: d59d

DEPTH: 0.15 - 0.80

SOIL DESCRIPTION SAND and SILT(SM - ML), some organics,
subrounded, medium brown.

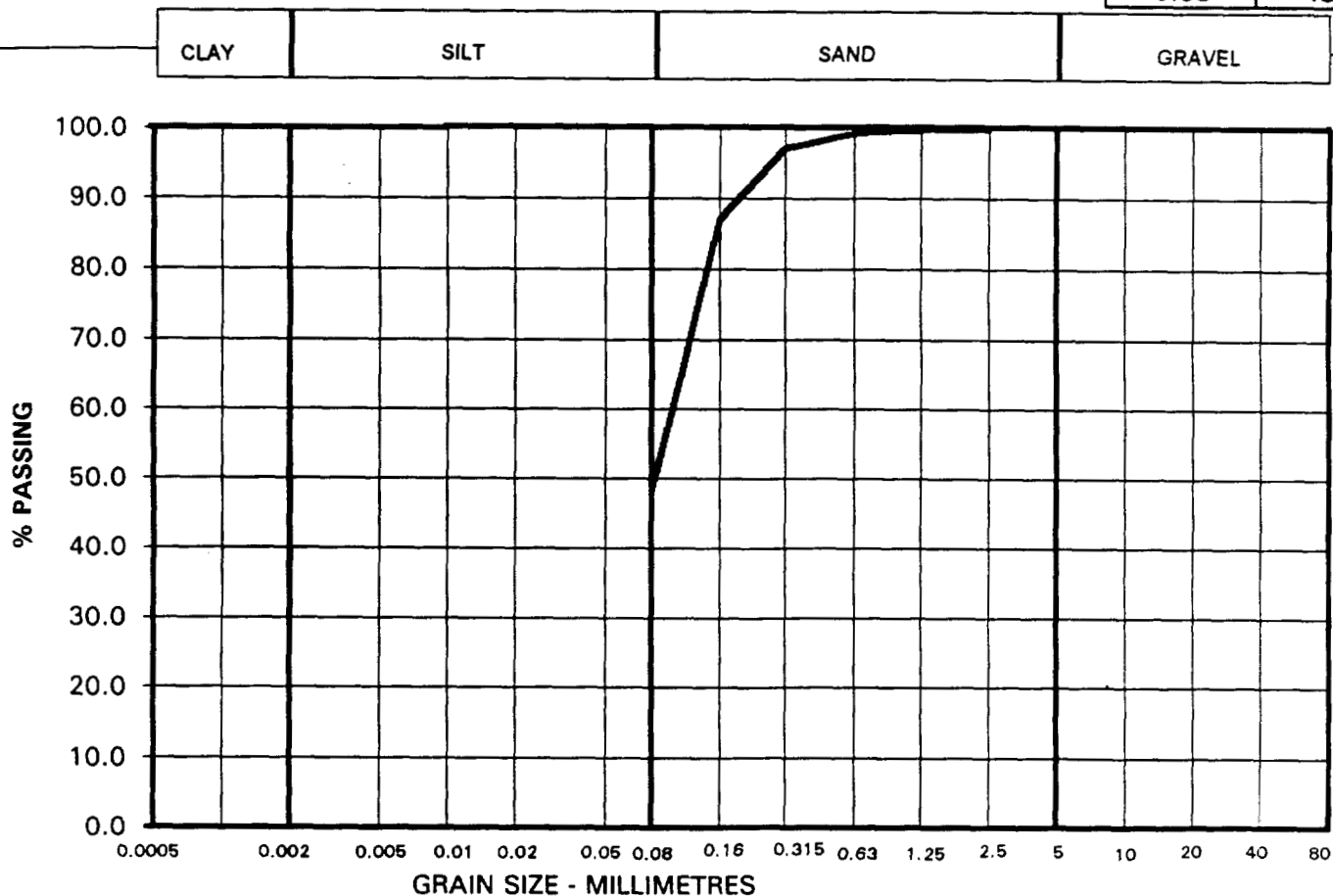
Cu: _____ Cc: _____

WATER CONTENT: 9.7%

TOTAL MASS: 7300 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	
2.5	100
1.25	100
0.63	99
0.315	97
0.16	87
0.08	48.1



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 12 BY: ht EBA Eng.

TESTPIT NO: d59g/c

DEPTH: 0.15 - 0.75

SOIL DESCRIPTION SAND and SILT(SM - ML), trace organics,
fine-grained, uniform, light grey.

Cu: _____ Cc: _____

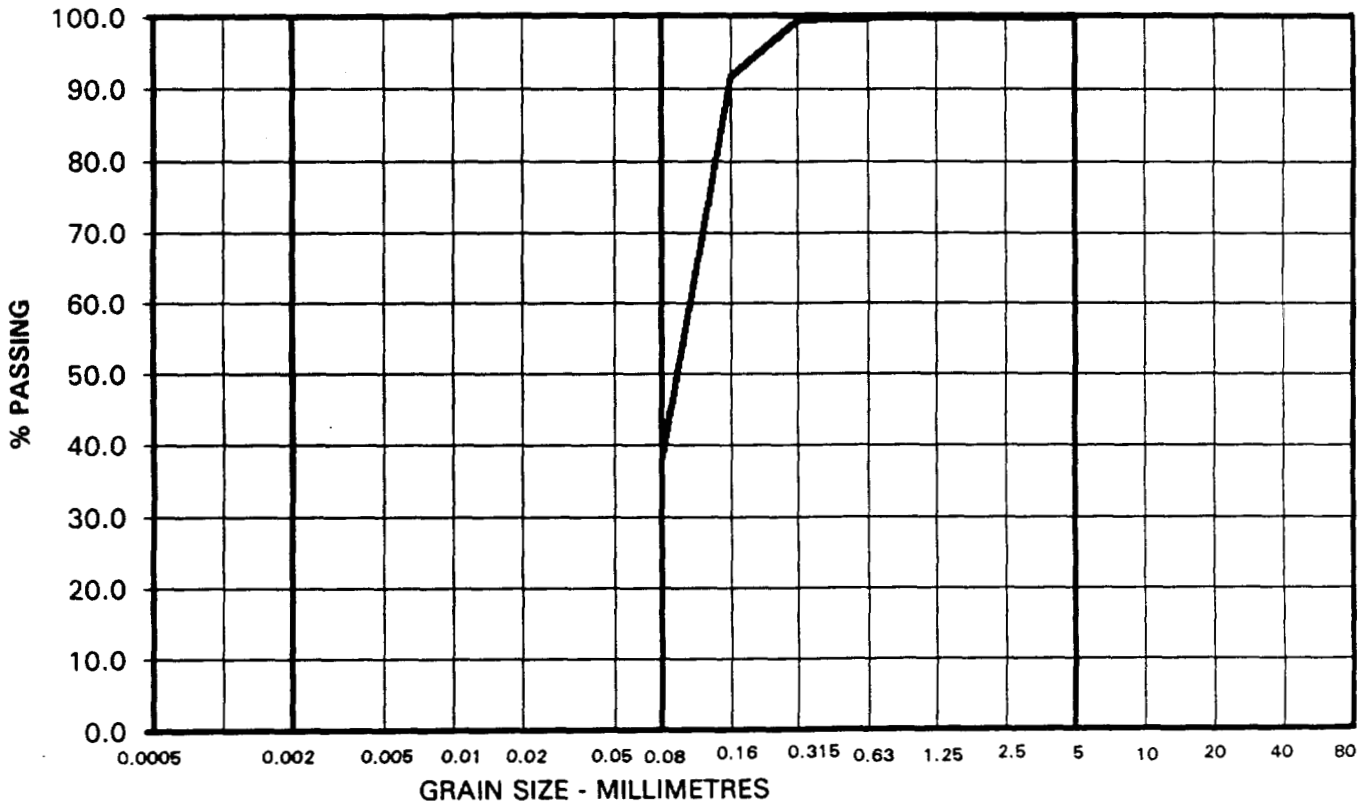
WATER CONTENT: 14.0%

TOTAL MASS: 6072 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	100
0.63	100
0.315	100
0.16	92
0.08	37.8

CLAY	SILT	SAND	GRAVEL
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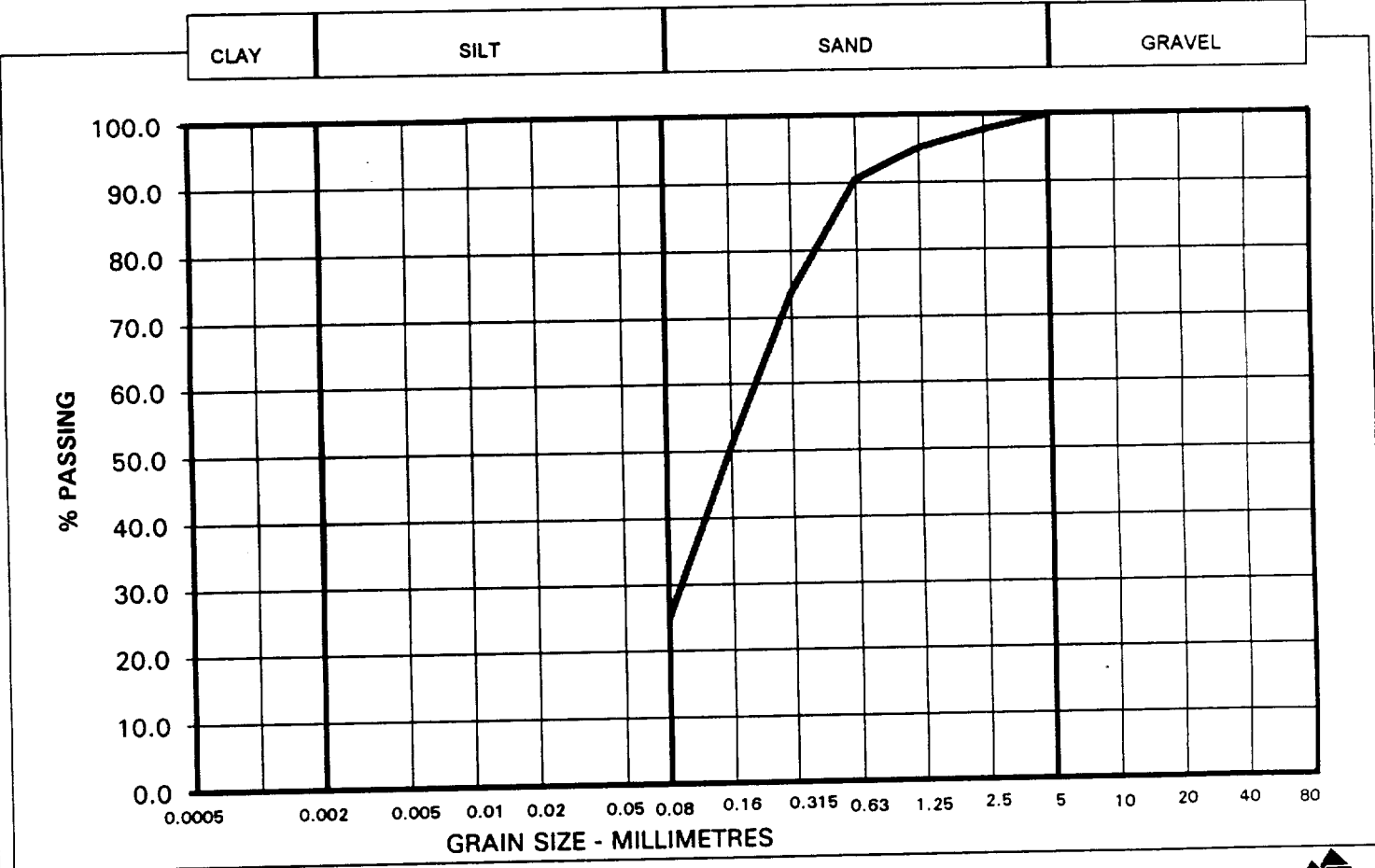


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 29 BY: ht EBA Eng.
TESTPIT NO: d60d
DEPTH: 0.15 - 0.70
SOIL DESCRIPTION SAND(SM), silty, some organics,
subangular, light brown.

Cu: _____ Cc: _____
WATER CONTENT: 2.8%
TOTAL MASS: 8959 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	98
1.25	95
0.63	91
0.315	74
0.16	51
0.08	24.9



PARTICLE - SIZE ANALYSIS OF SOILS

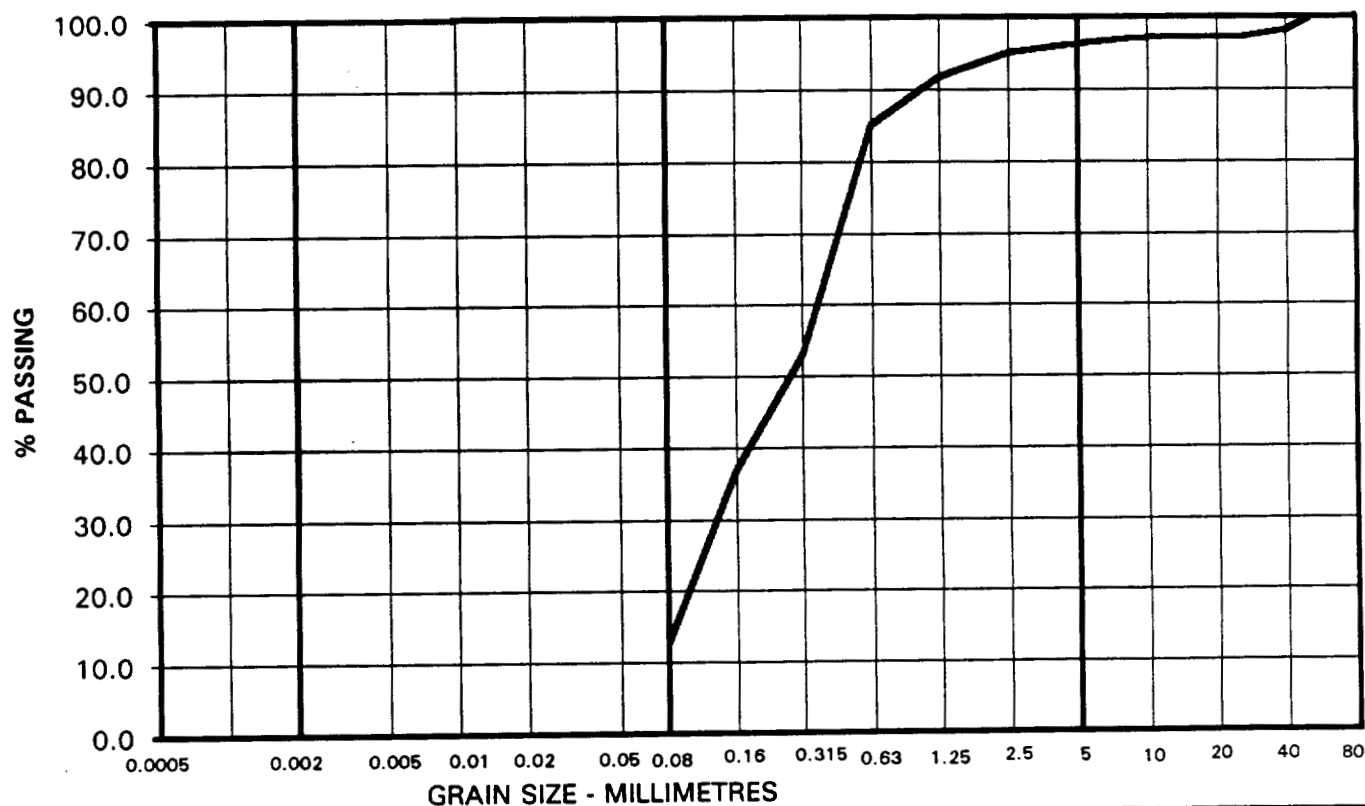
PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 29 BY: ht EBA Eng.
TESTPIT NO: d60gc
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SAND(SM), some silt, trace gravel,
some organics, subangular, light brown.

Cu: _____ Cc: _____
WATER CONTENT: 3.5%
TOTAL MASS: 7279 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	98
25	97
20	97
16	97
12.5	97
10	97
5	97
2.5	95
1.25	92
0.63	85
0.315	53
0.16	37
0.08	12.8

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 12 BY: ht EBA Eng.
TESTPIT NO: d61 random
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SAND(SP), gravelly, trace silt,
trace organics, subrounded - subangular, grey.

Cu: 6.0 Cc: 0.7

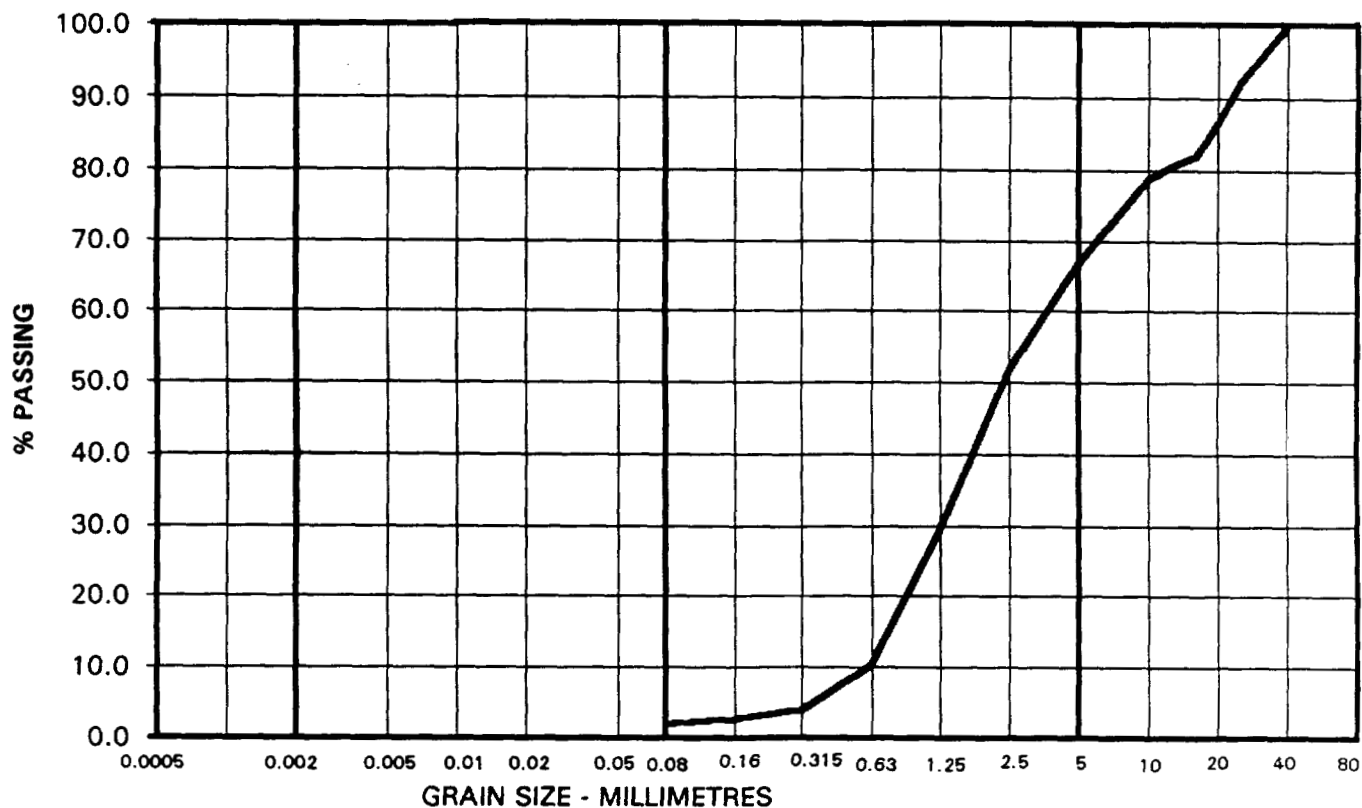
WATER CONTENT: 1.4%

TOTAL MASS: 7146 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	92
20	87
16	82
12.5	81
10	79
5	67
2.5	52
1.25	30
0.63	10
0.315	4
0.16	3
0.08	2.0

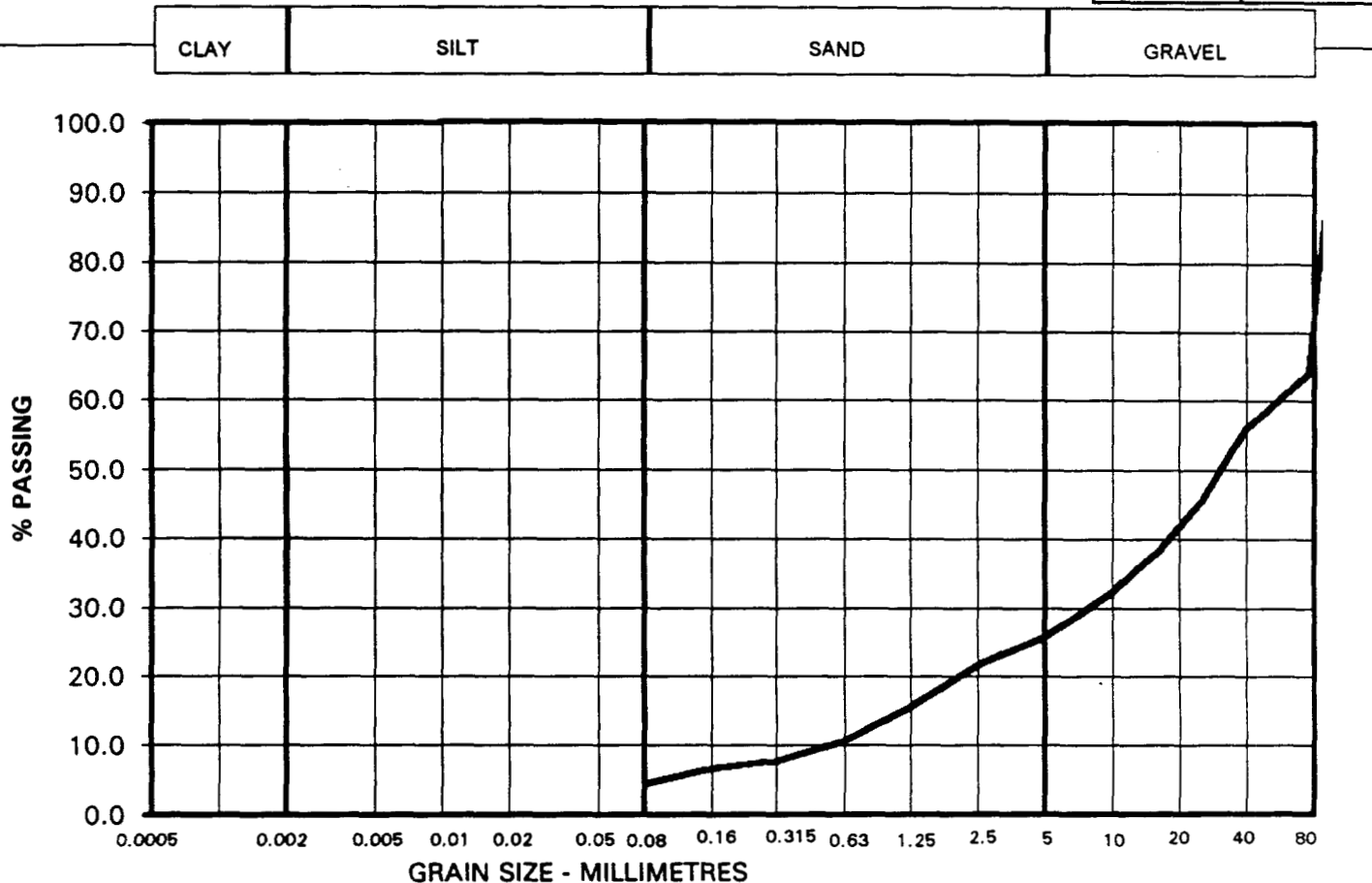
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 29 BY: ht EBA Eng.
 TESTPIT NO: d62random
 DEPTH: 0.10 - 0.45
 SOIL DESCRIPTION GRAVEL(GW), some sand, trace silt,
some organics, subrounded, dark brown.
 Cu: 98.6 Cc: 2.4
 WATER CONTENT: 3.3%
 TOTAL MASS: 14484 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	100
75	64
50	59
40	56
25	46
20	42
16	38
12.5	35
10	32
5	26
2.5	22
1.25	16
0.63	10
0.315	8
0.16	7
0.08	4.4

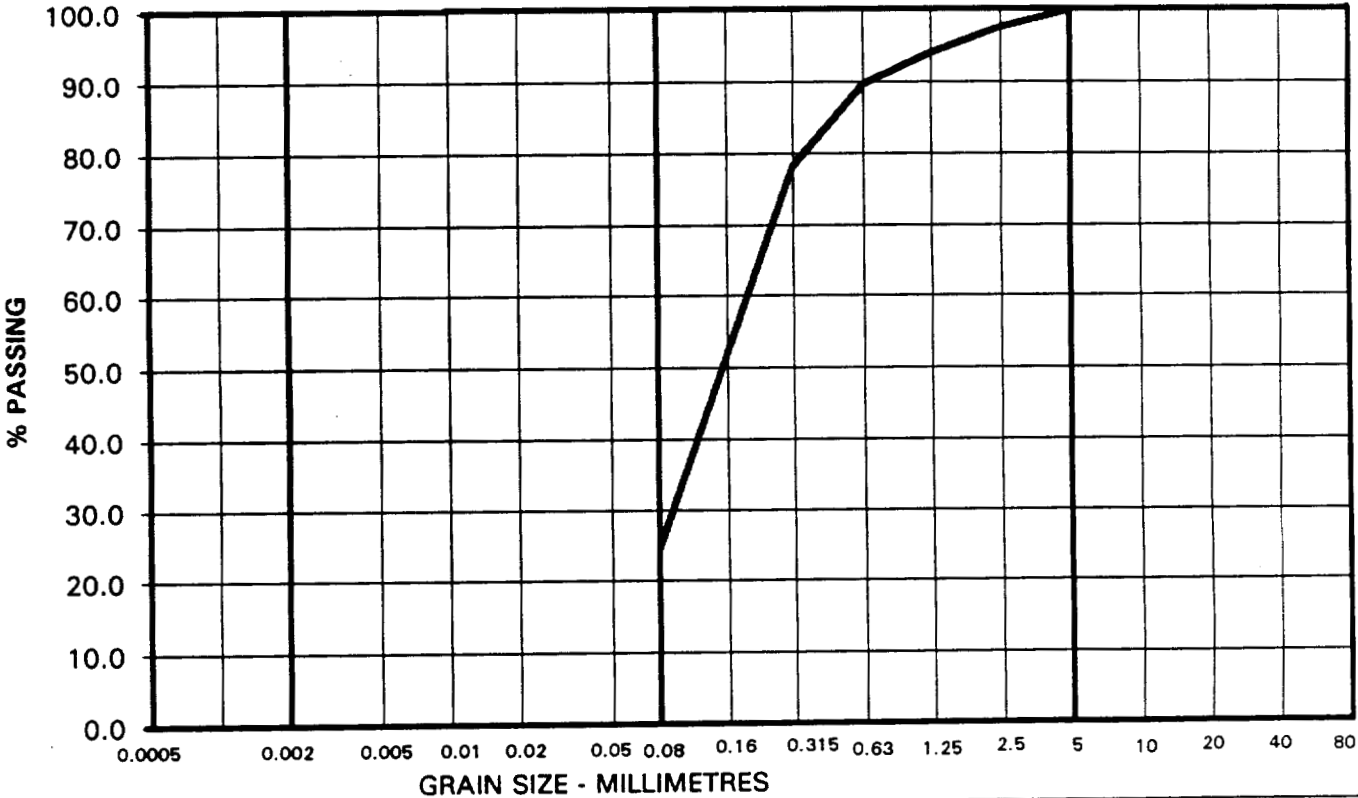


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 29 BY: htEBA Eng.
TESTPIT NO: d63d
DEPTH: 0.15 - 0.70
SOIL DESCRIPTION SAND(SM), silty, trace organics,
subrounded, light brown.
Cu: _____ Cc: _____
WATER CONTENT: 3.9%
TOTAL MASS: 7861 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	98
1.25	94
0.63	90
0.315	78
0.16	52
0.08	24.5

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 12 BY: ht EBA Eng.

TESTPIT NO: d63gc

DEPTH: 0.10 - 0.70

SOIL DESCRIPTION SAND(SP), trace silt, trace gravel,
trace organics, subrounded, light brown.

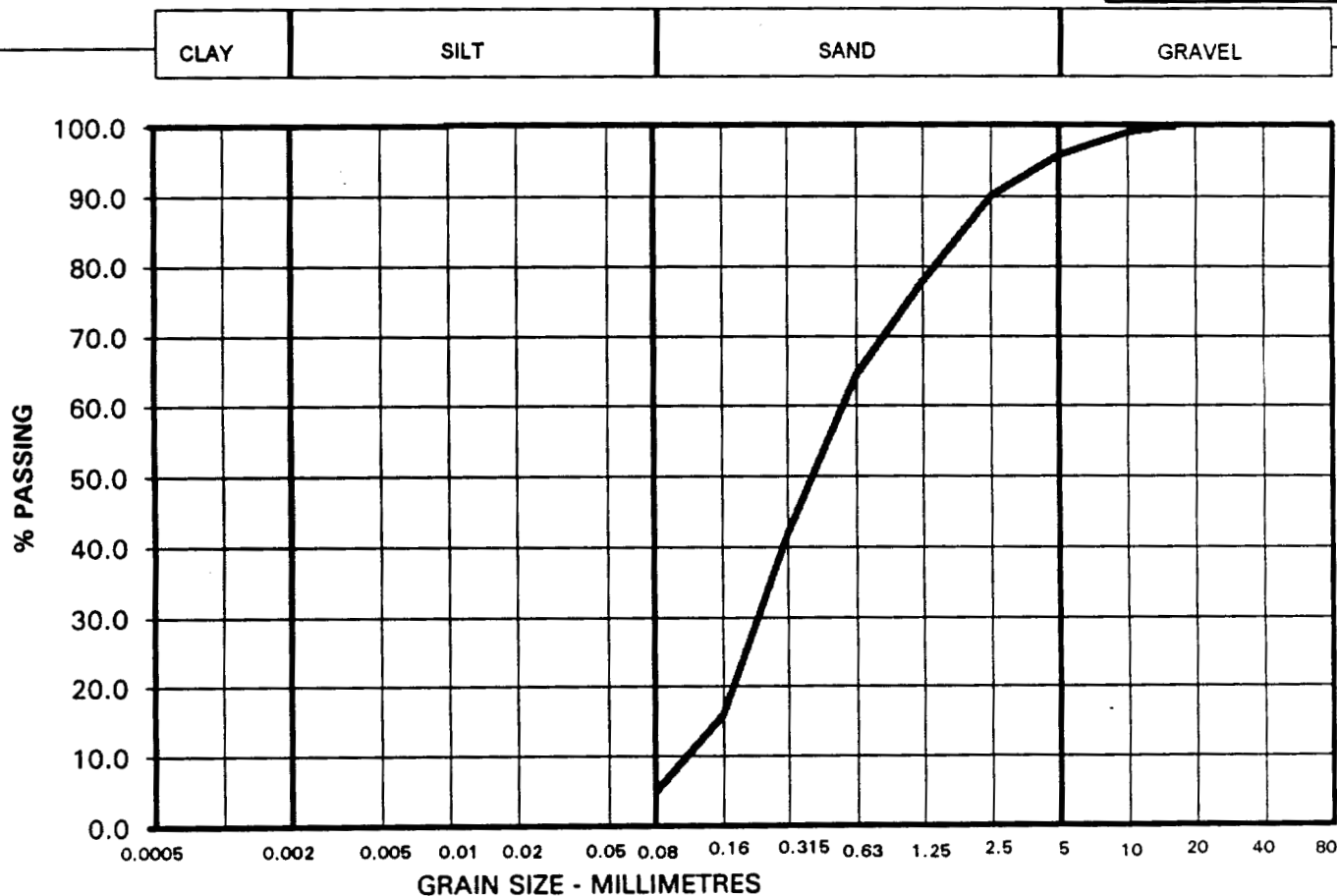
Cu: 5.0 Cc: 0.9

WATER CONTENT: 1.7%

TOTAL MASS: 7139 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	100
10	99
5	96
2.5	90
1.25	78
0.63	64
0.315	42
0.16	16
0.08	4.9



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 29 BY: ht EBA Eng.
TESTPIT NO: d63random
DEPTH: 0.10 - 0.45
SOIL DESCRIPTION GRAVEL(GM), sandy, some silt,
some organics, subrounded, medium brown.

Cu: _____ Cc: _____

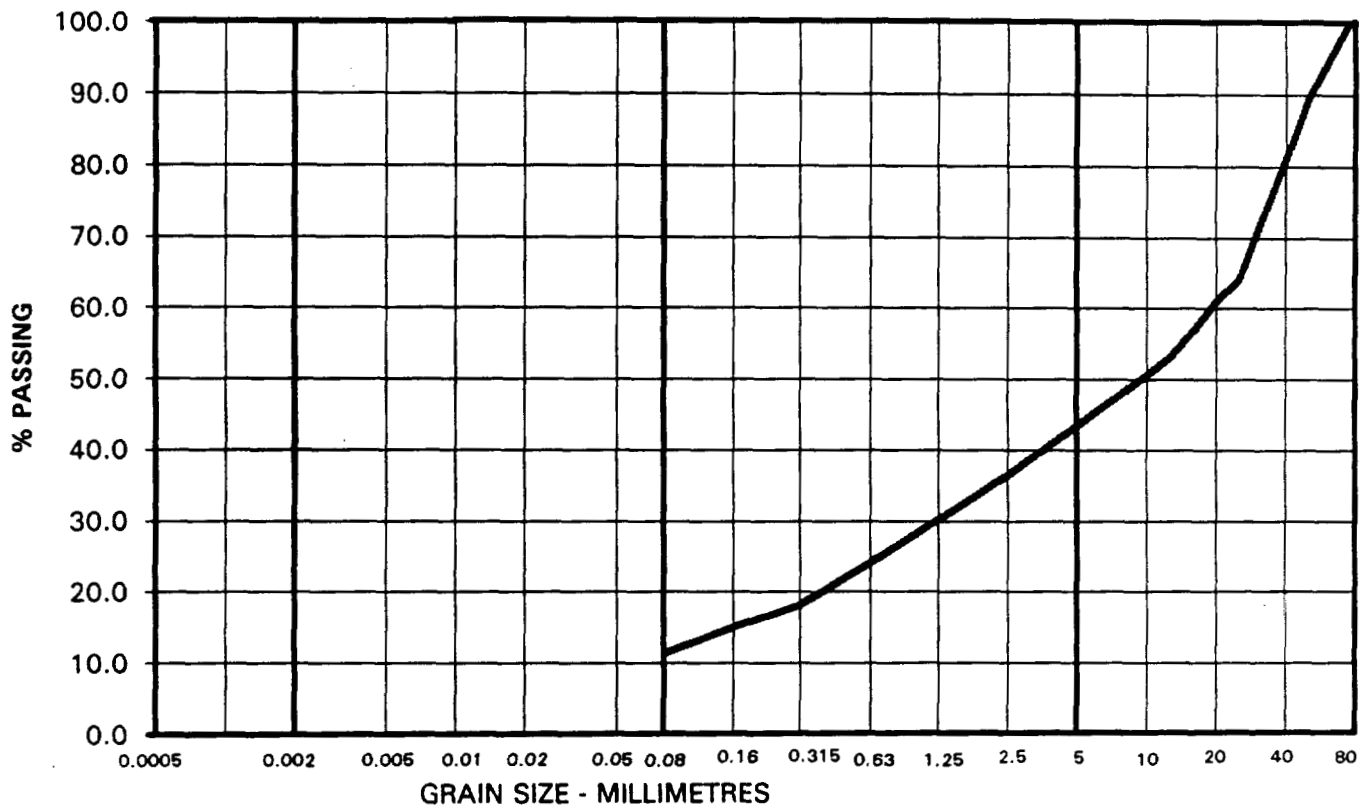
WATER CONTENT: 1.7%

TOTAL MASS: 13317 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	89
40	81
25	64
20	61
16	57
12.5	53
10	51
5	43
2.5	36
1.25	30
0.63	24
0.315	18
0.16	15
0.08	11.2

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 28 BY: htEBA Eng.

TESTPIT NO: d65d

DEPTH: 0.15 - 0.70

SOIL DESCRIPTION SAND(SM), silty, trace gravel,
some organics, subrounded, medium brown.

Cu: _____ Cc: _____

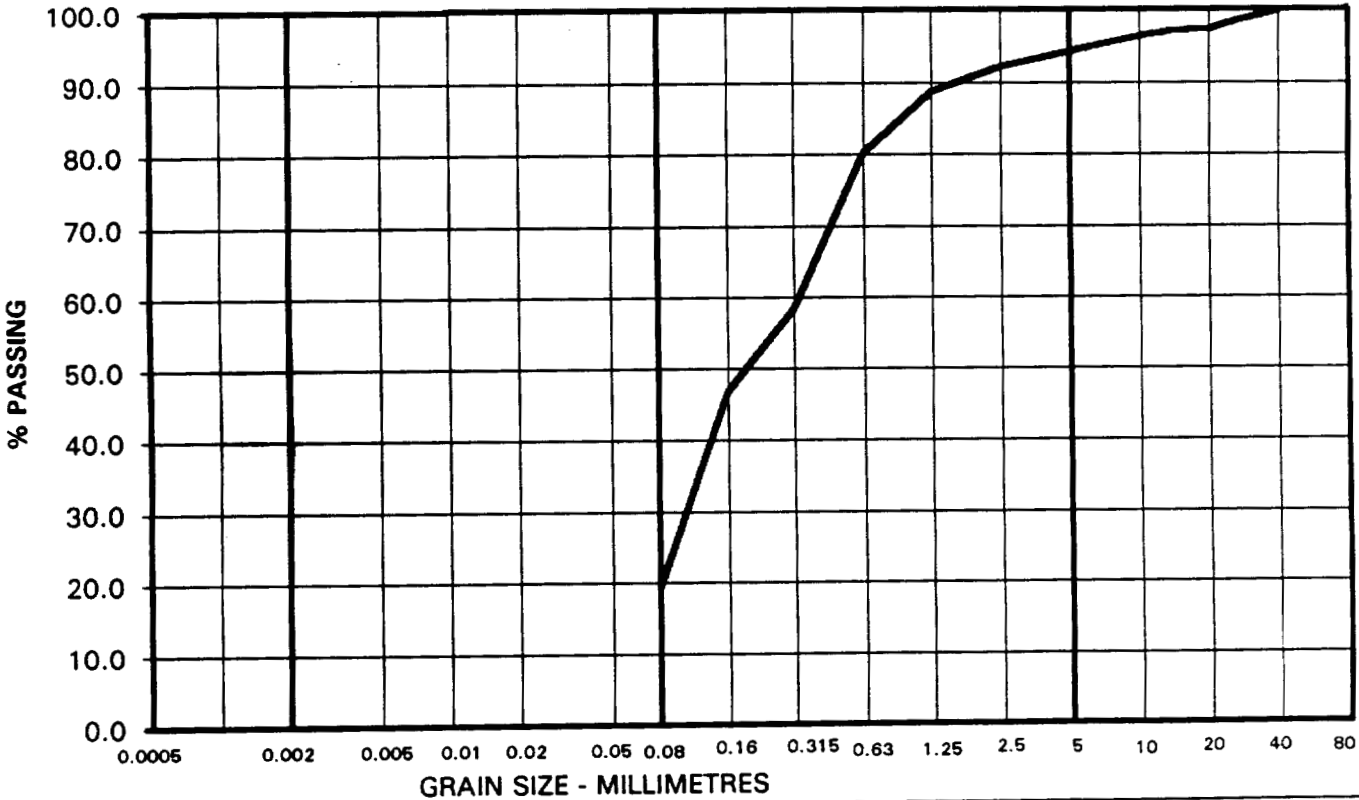
WATER CONTENT: 3.5%

TOTAL MASS: 6858 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	98
20	97
16	97
12.5	97
10	97
5	94
2.5	92
1.25	89
0.63	80
0.315	58
0.16	47
0.08	19.3

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 29 BY: ht EBA Eng.

TESTPIT NO: d65gc

DEPTH: 0.10 - 0.60

SOIL DESCRIPTION SAND and GRAVEL(SP - GP), trace silt,
some organics, subrounded, medium brown.

Cu: 13.9 Cc: 0.4

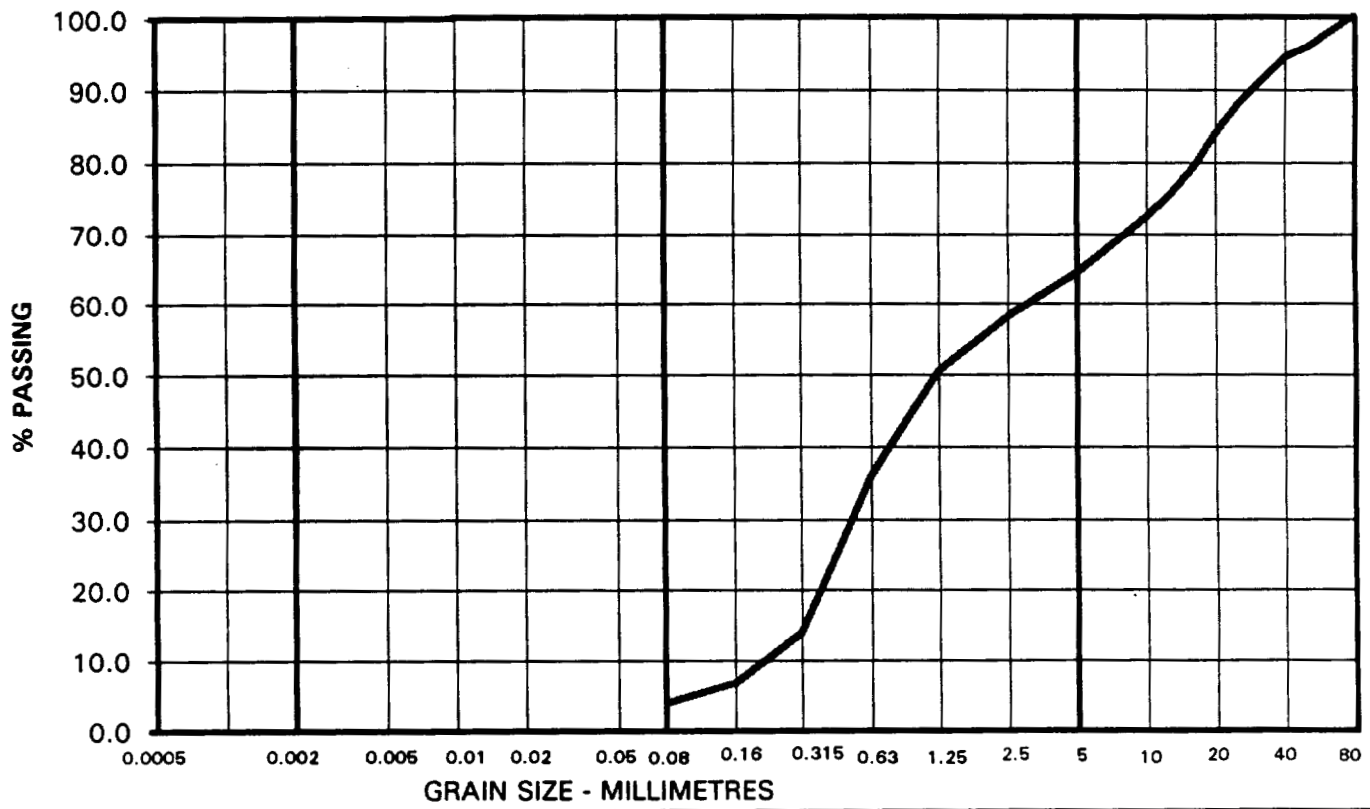
WATER CONTENT: 1.7%

TOTAL MASS: 9342 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	96
40	95
25	88
20	84
16	80
12.5	75
10	72
5	64
2.5	58
1.25	51
0.63	36
0.315	14
0.16	7
0.08	3.8

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 29 BY: ht EBA Eng.
 TESTPIT NO: d67random
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND and GRAVEL(SP - GP), trace silt
some organics, subrounded, dark brown.

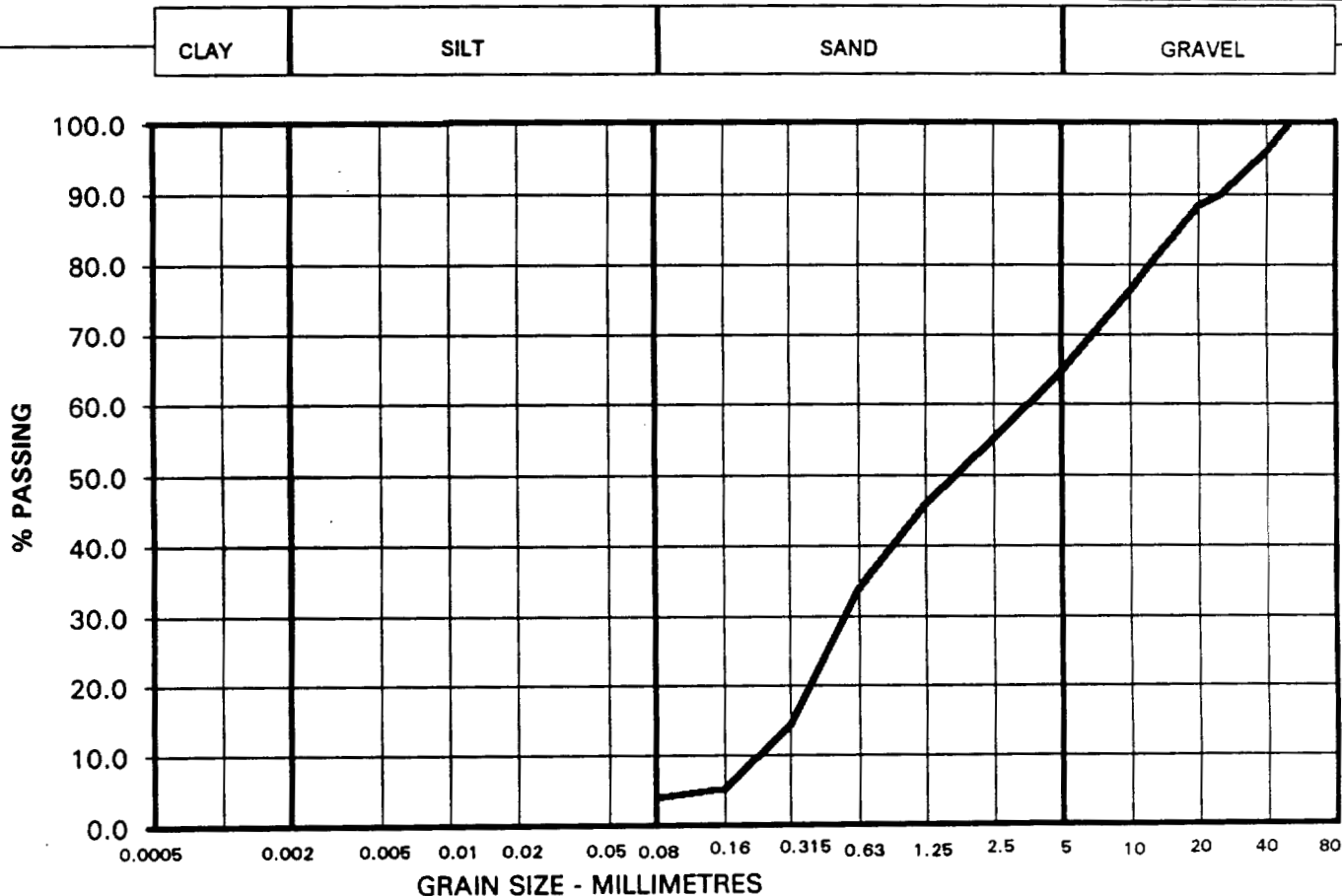
Cu: 15.5 Cc: 0.4

WATER CONTENT: 5.8%

TOTAL MASS: 15065 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	96
25	90
20	88
16	85
12.5	81
10	76
5	65
2.5	55
1.25	46
0.63	34
0.315	14
0.16	5
0.08	3.9



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 29 BY: htEBA Eng.
TESTPIT NO: d68random
DEPTH: 0.15 - 0.50
SOIL DESCRIPTION GRAVEL and SAND(GW - SW), trace silt

Cu: 48.9 Cc: 1.1

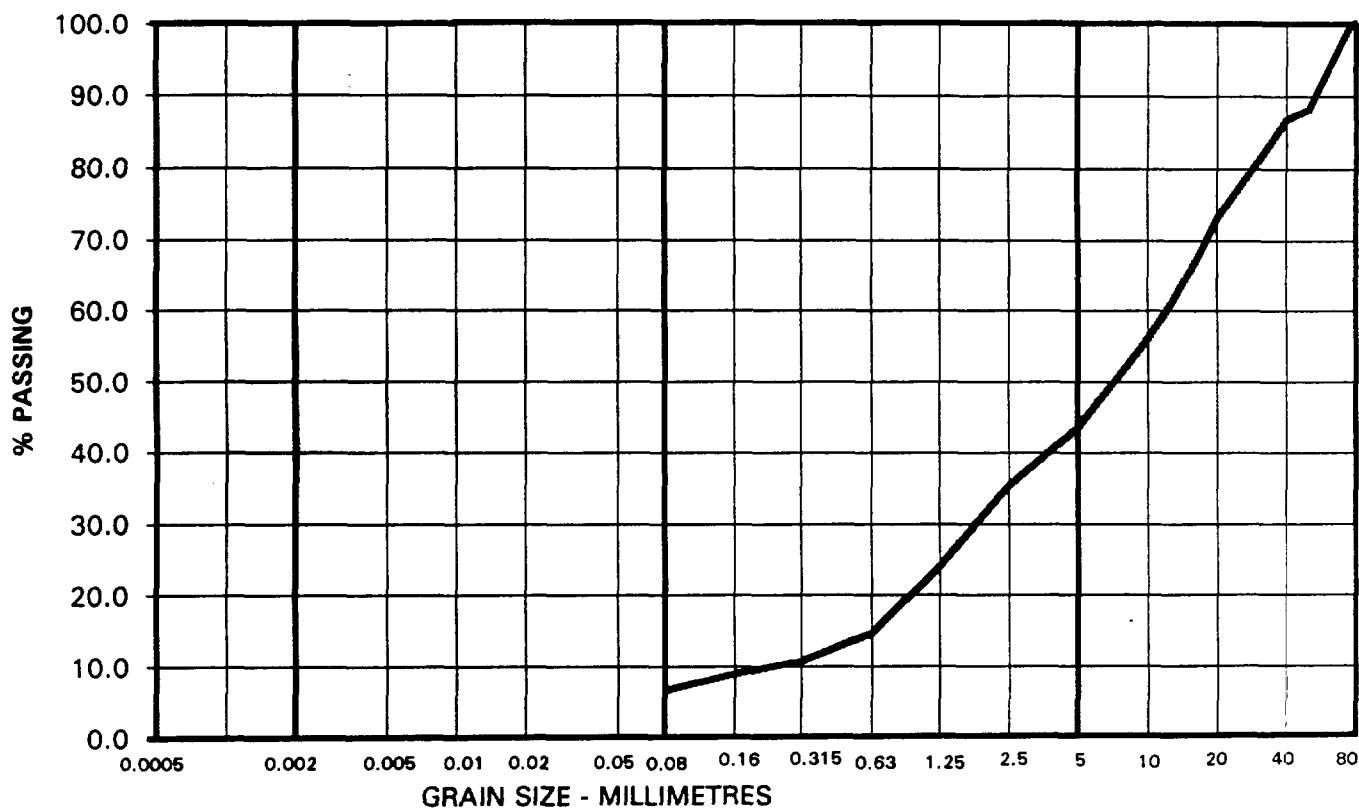
WATER CONTENT: 2.9%

TOTAL MASS: 10182 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	88
40	87
25	78
20	73
16	67
12.5	61
10	56
5	44
2.5	35
1.25	24
0.63	15
0.315	11
0.16	9
0.08	6.5

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 29 BY: ht EBA Eng.
TESTPIT NO: d69random
DEPTH: 0.10 - 0.40
SOIL DESCRIPTION GRAVEL(GW), sandy, trace fines,
some organics, subrounded, medium brown.

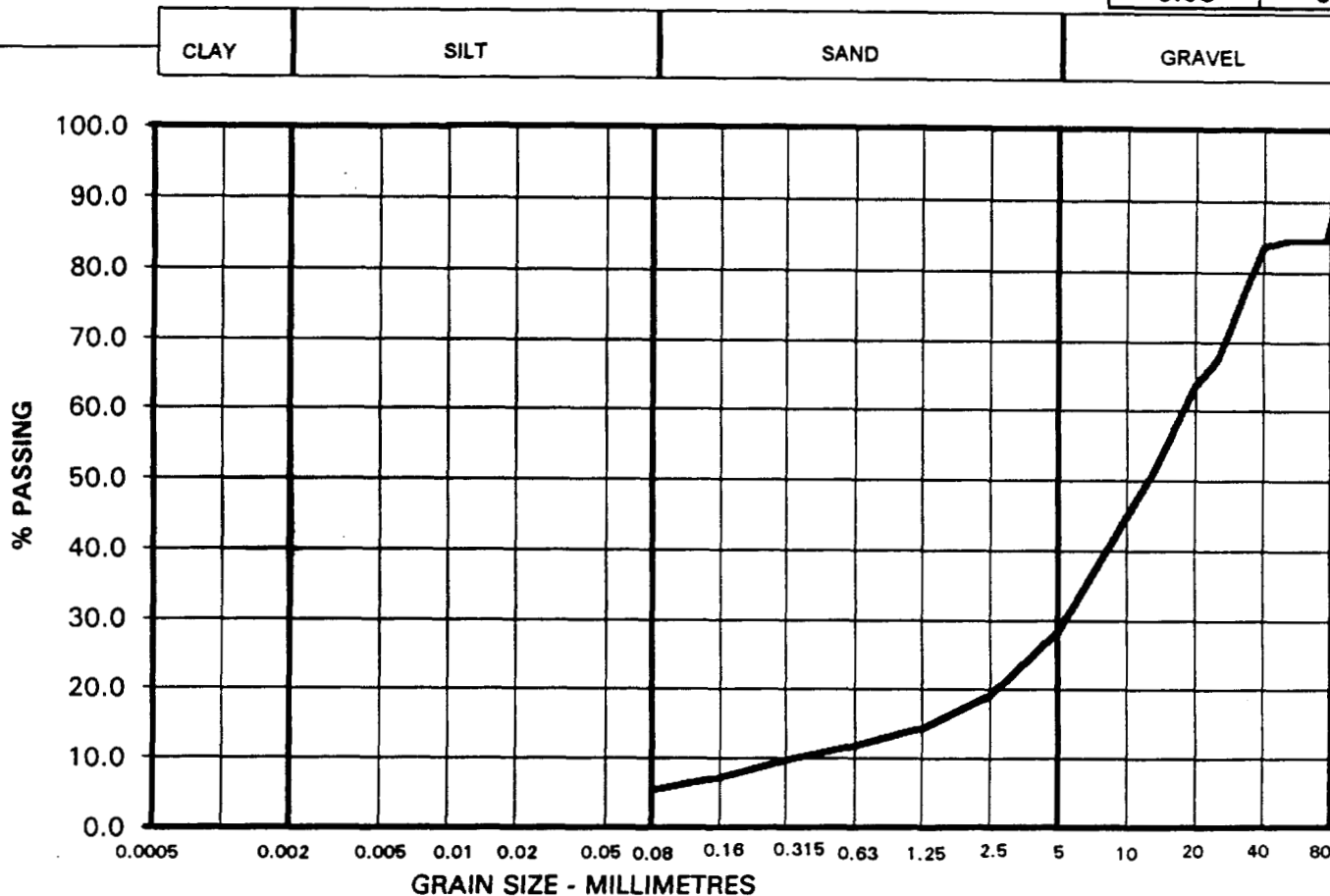
Cu: 50.4 Cc: 4.8

WATER CONTENT: 2.7%

TOTAL MASS: 11687 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	100
75	84
50	84
40	84
25	67
20	64
16	57
12.5	50
10	45
5	28
2.5	19
1.25	14
0.63	12
0.315	10
0.16	7
0.08	5.4

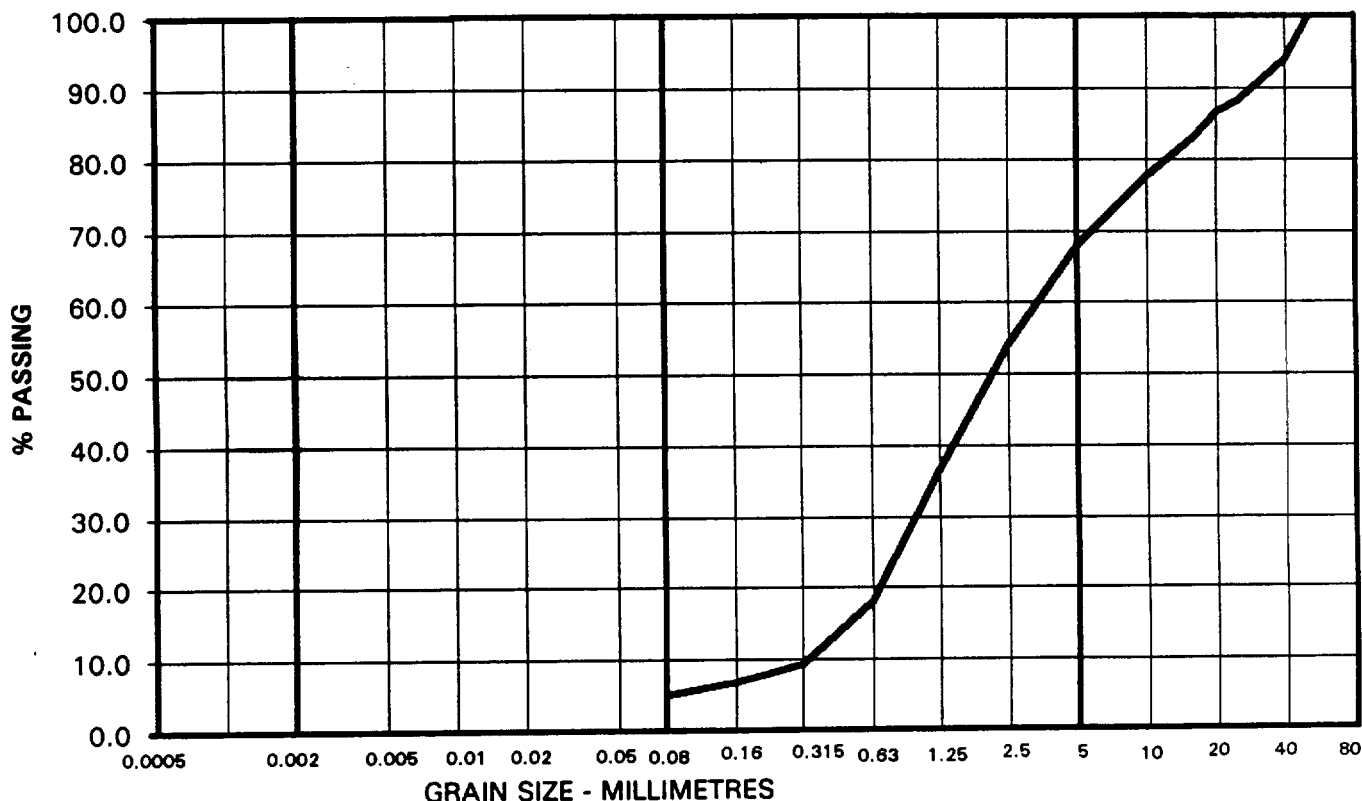


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 29 BY: ht EBA Eng.
 TESTPIT NO: d70random
 DEPTH: 0.10 - 0.50
 SOIL DESCRIPTION SAND(SP), gravelly, trace silt,
some organics, subrounded, medium brown.
 Cu: 10.1 Cc: 0.9
 WATER CONTENT: 1.3%
 TOTAL MASS: 8753 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	94
25	88
20	87
16	83
12.5	80
10	78
5	68
2.5	54
1.25	37
0.63	18
0.315	9
0.16	7
0.08	5.0

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 30 BY: ht EBA Eng.
 TESTPIT NO: d71random
 DEPTH: 0.15 - 0.45
 SOIL DESCRIPTION SAND(SP), trace gravel, trace silt,
some organics, subangular, medium brown.

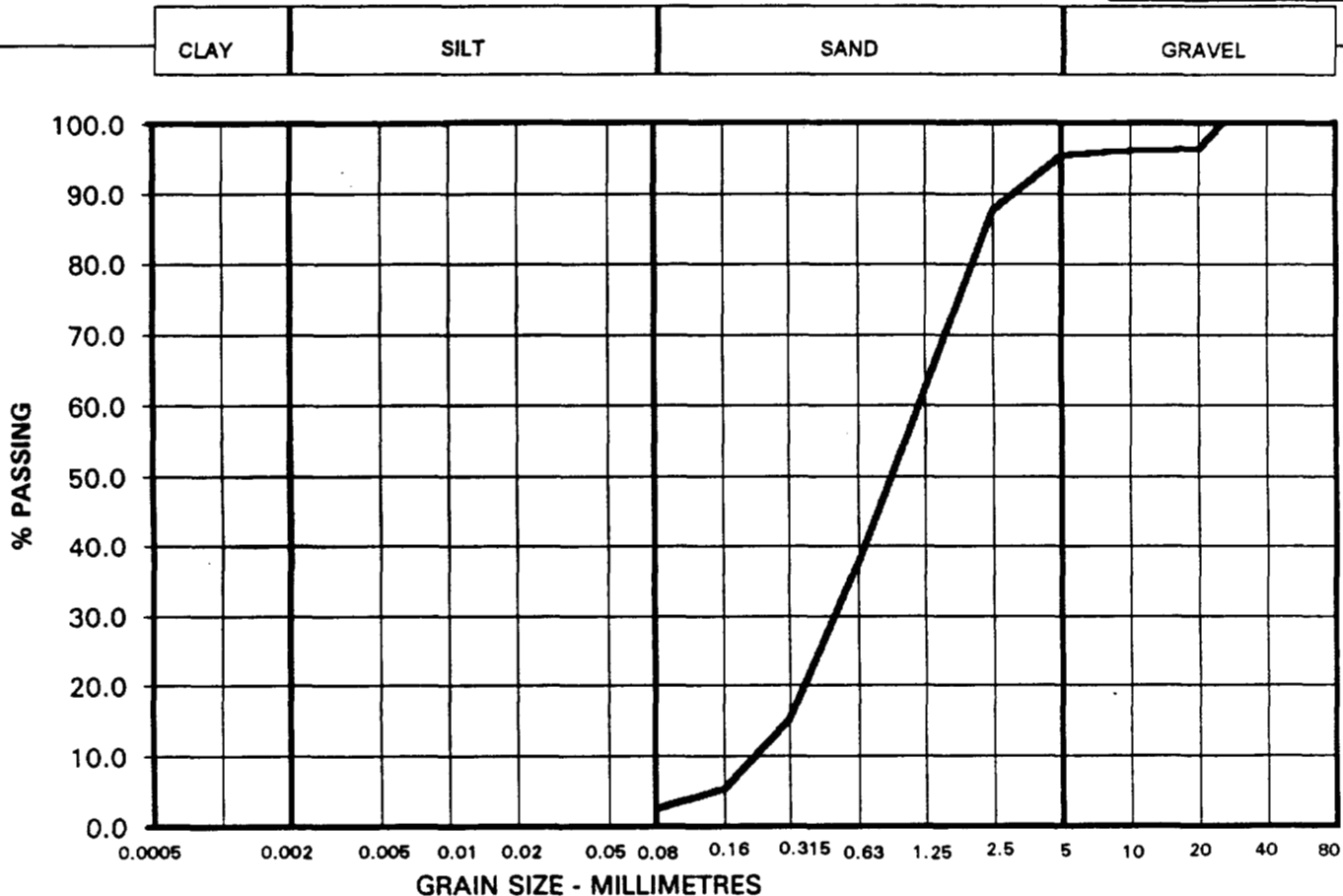
Cu: 5.3 Cc: 1.0

WATER CONTENT: 1.1%

TOTAL MASS: 7865 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	96
16	96
12.5	96
10	96
5	96
2.5	88
1.25	62
0.63	38
0.315	15
0.16	5
0.08	2.5



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 29 BY: htEBA Eng.
 TESTPIT NO: d72 Random
 DEPTH: 0.15 - 0.50
 SOIL DESCRIPTION SAND(SP), trace organics,
medium-grained, uniform, clean, light grey.
 Cu: 3.0 Cc: 1.0
 WATER CONTENT: 1.8%
 TOTAL MASS: 7423 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	99
1.25	99
0.63	96
0.315	50
0.16	15
0.08	1.5



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 30 BY: ht EBA Eng.
TESTPIT NO: d73random
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SAND(SP), trace gravel, trace silt,
trace organics, subrounded, light yellow.

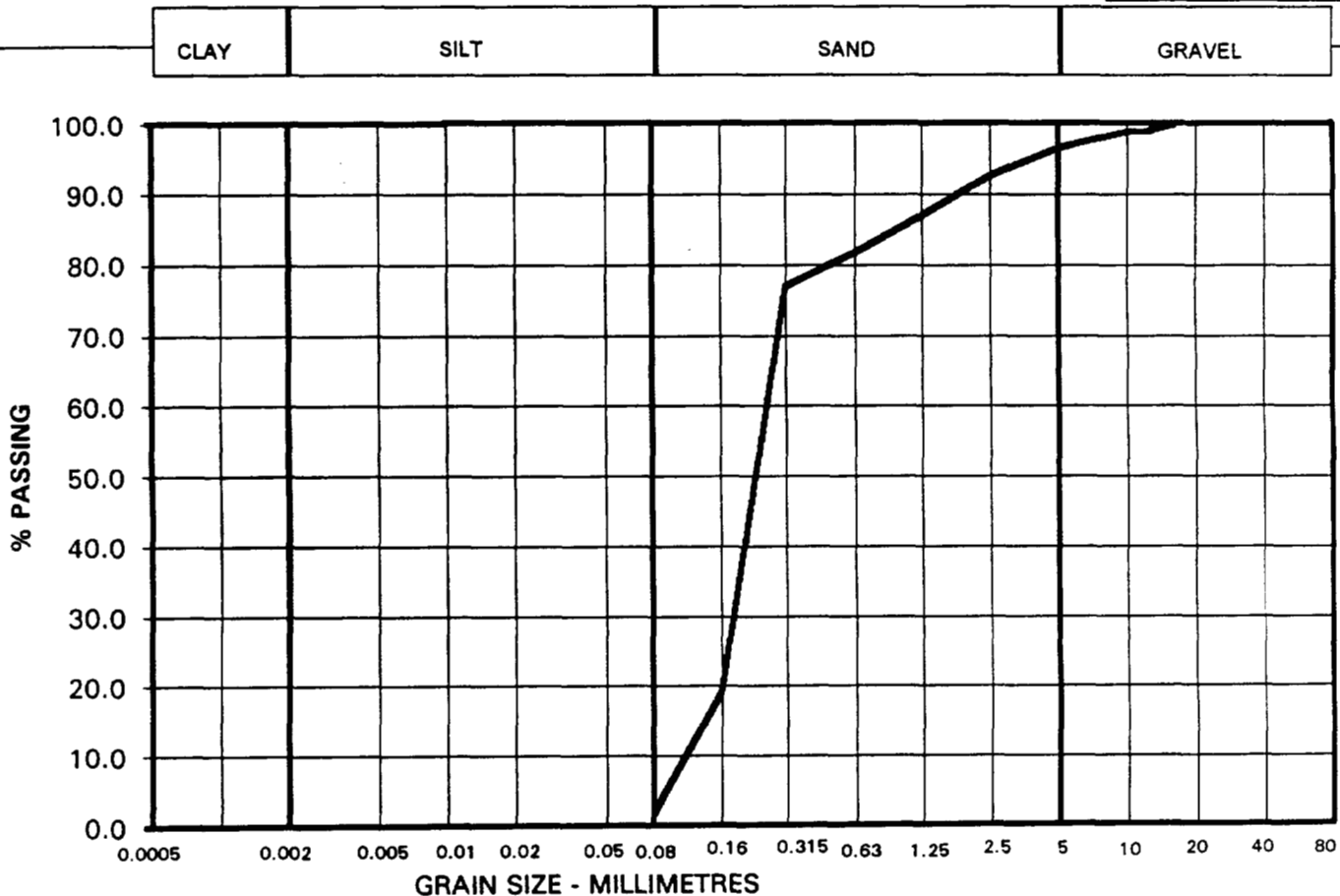
Cu: 2.3 Cc: 1.2

WATER CONTENT: 2.1%

TOTAL MASS: 7000 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	99
10	99
5	97
2.5	93
1.25	87
0.63	82
0.315	77
0.16	19
0.08	1.8



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 16 BY: htEBA Eng.
 TESTPIT NO: d74 random
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND(SM - ML), silty, trace gravel,
some organics, fine-grained, subrounded, brown.

Cu: _____ Cc: _____

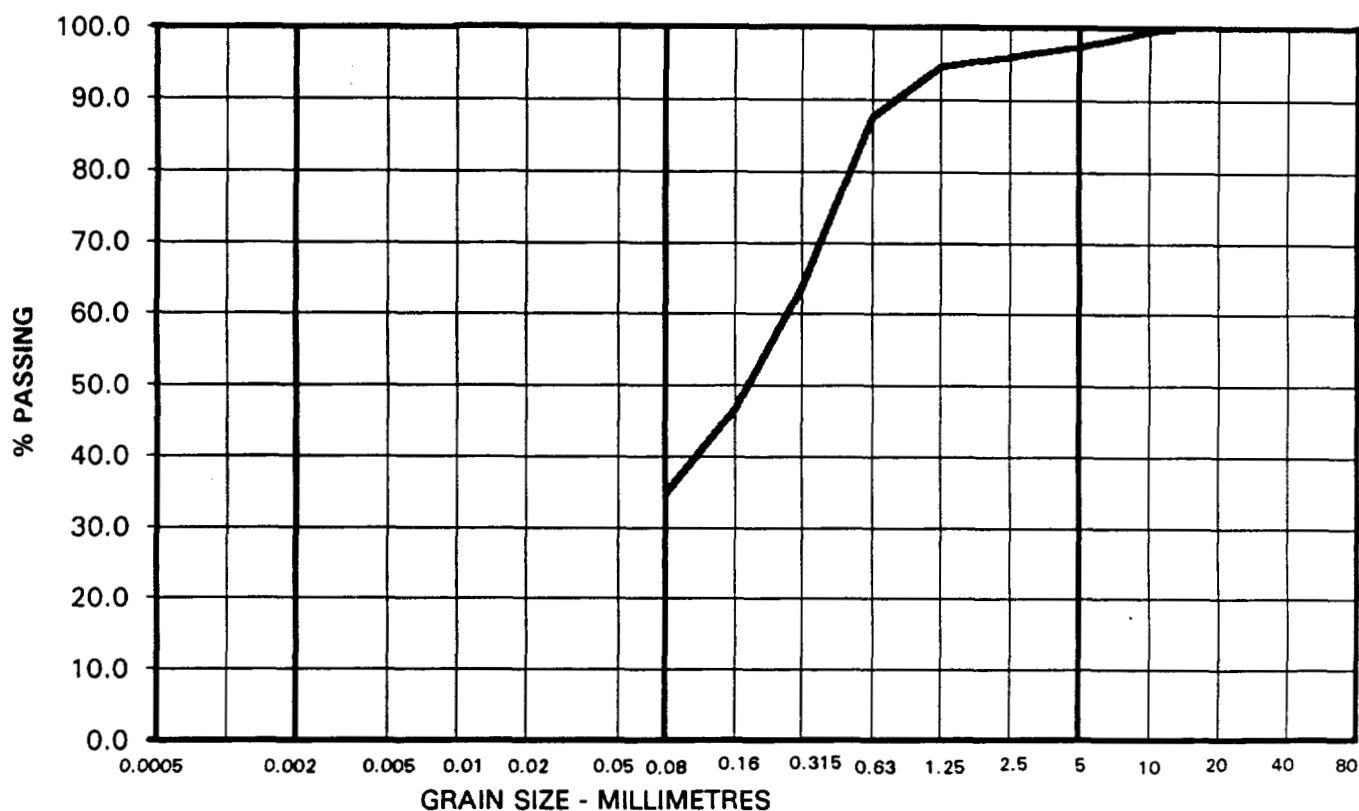
WATER CONTENT: 21.3%

TOTAL MASS: 6502 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	100
5	98
2.5	96
1.25	95
0.63	88
0.315	64
0.16	47
0.08	34.7

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 30 BY: ht EBA Eng.
 TESTPIT NO: d75random
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND and SILT(SM), trace gravel,
some organics, subrounded, dark brown.

Cu: _____ Cc: _____

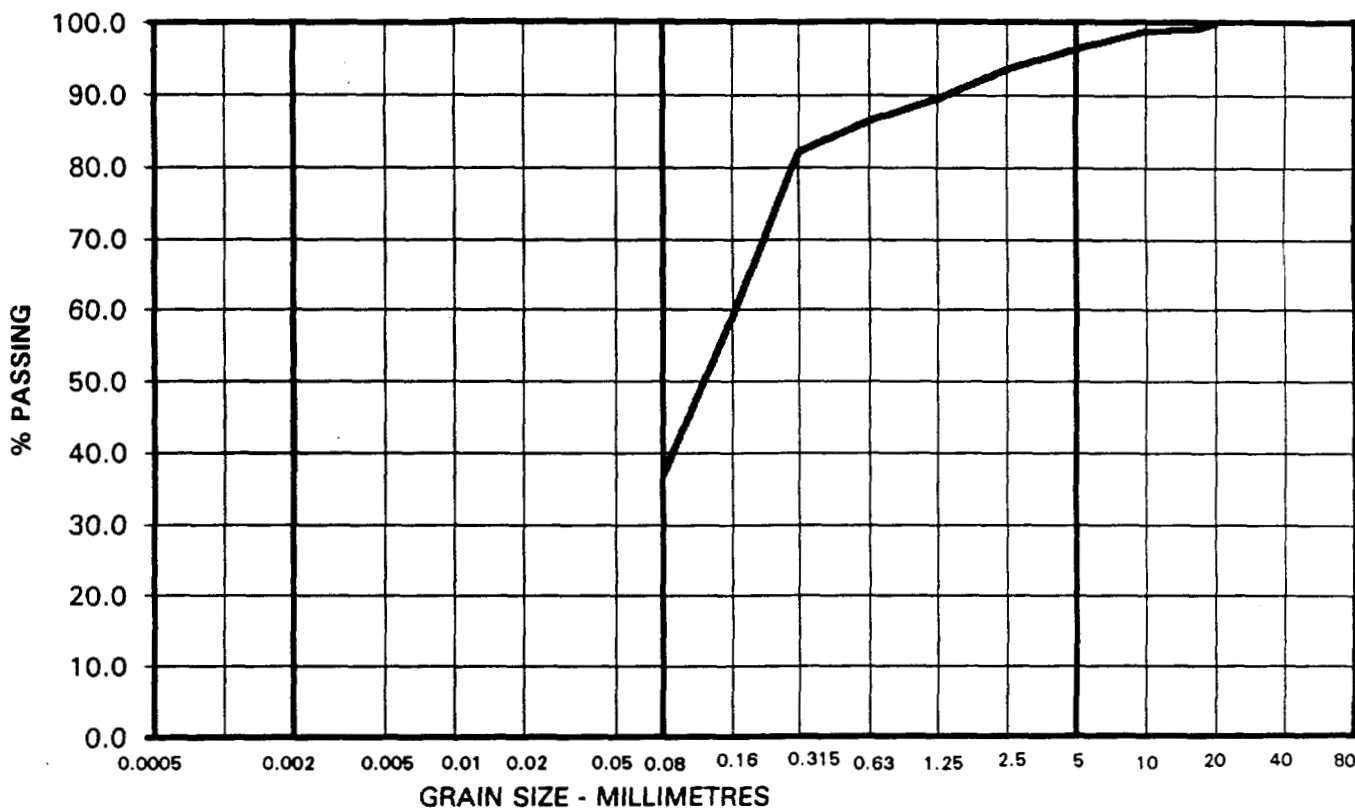
WATER CONTENT: 21.0%

TOTAL MASS: 5813 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	99
12.5	99
10	99
5	96
2.5	94
1.25	90
0.63	86
0.315	82
0.16	59
0.08	36.9

CLAY	SILT	SAND	GRAVEL
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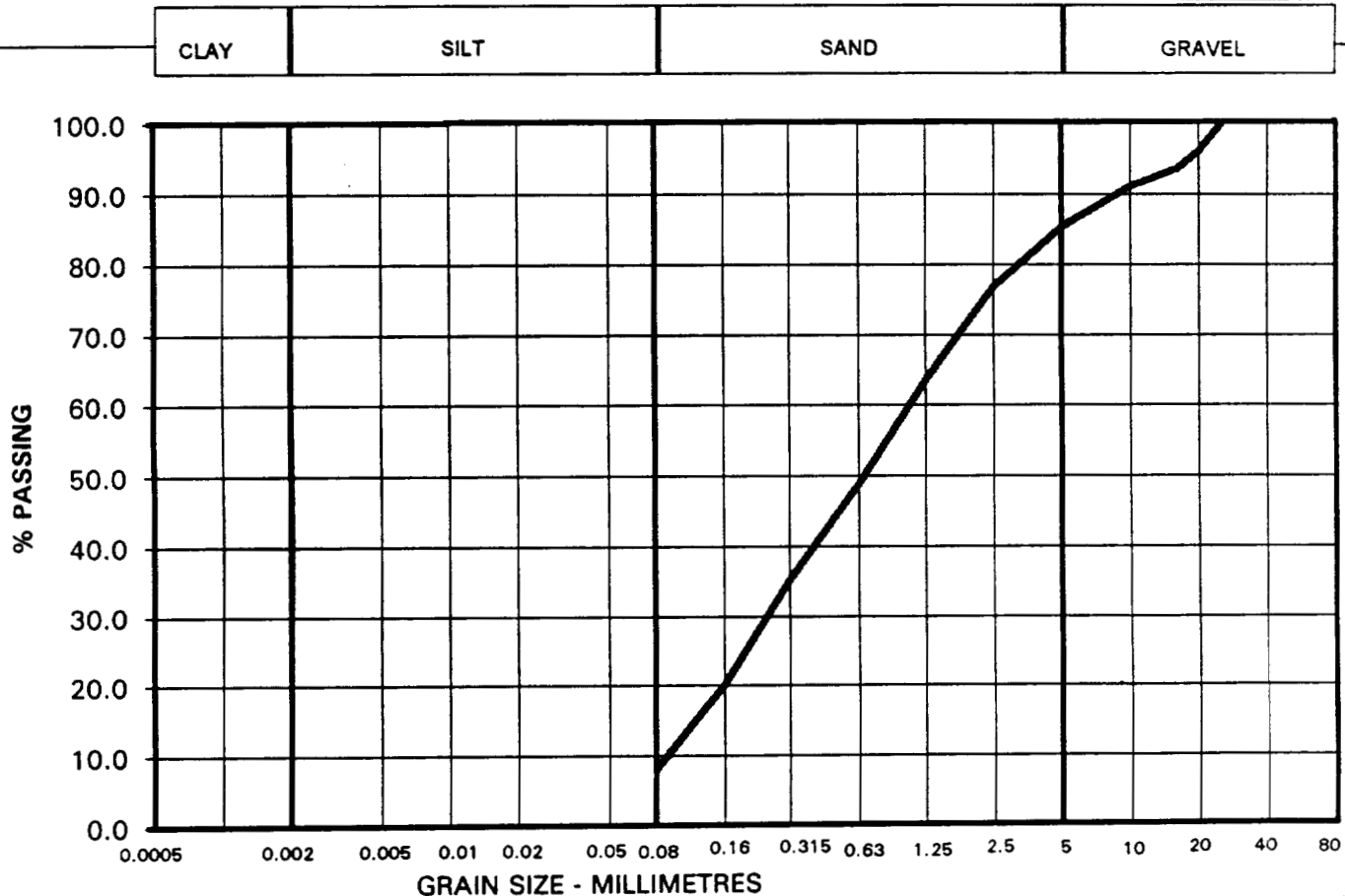
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 30 BY: ht EBA Eng.
 TESTPIT NO: d76random
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND(SP), some gravel, trace silt,
some organics, subrounded, medium brown.

Cu: 11.8 Cc: 0.7
 WATER CONTENT: 5.2%
 TOTAL MASS: 8788 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	96
16	94
12.5	92
10	91
5	85
2.5	77
1.25	64
0.63	49
0.315	35
0.16	20
0.08	8.0



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 30 BY: ht EBA Eng.
TESTPIT NO: d77d
DEPTH: 0.15 - 0.70
SOIL DESCRIPTION SAND(SM), silty,
some organics, fine-grained, uniform, medium brown.

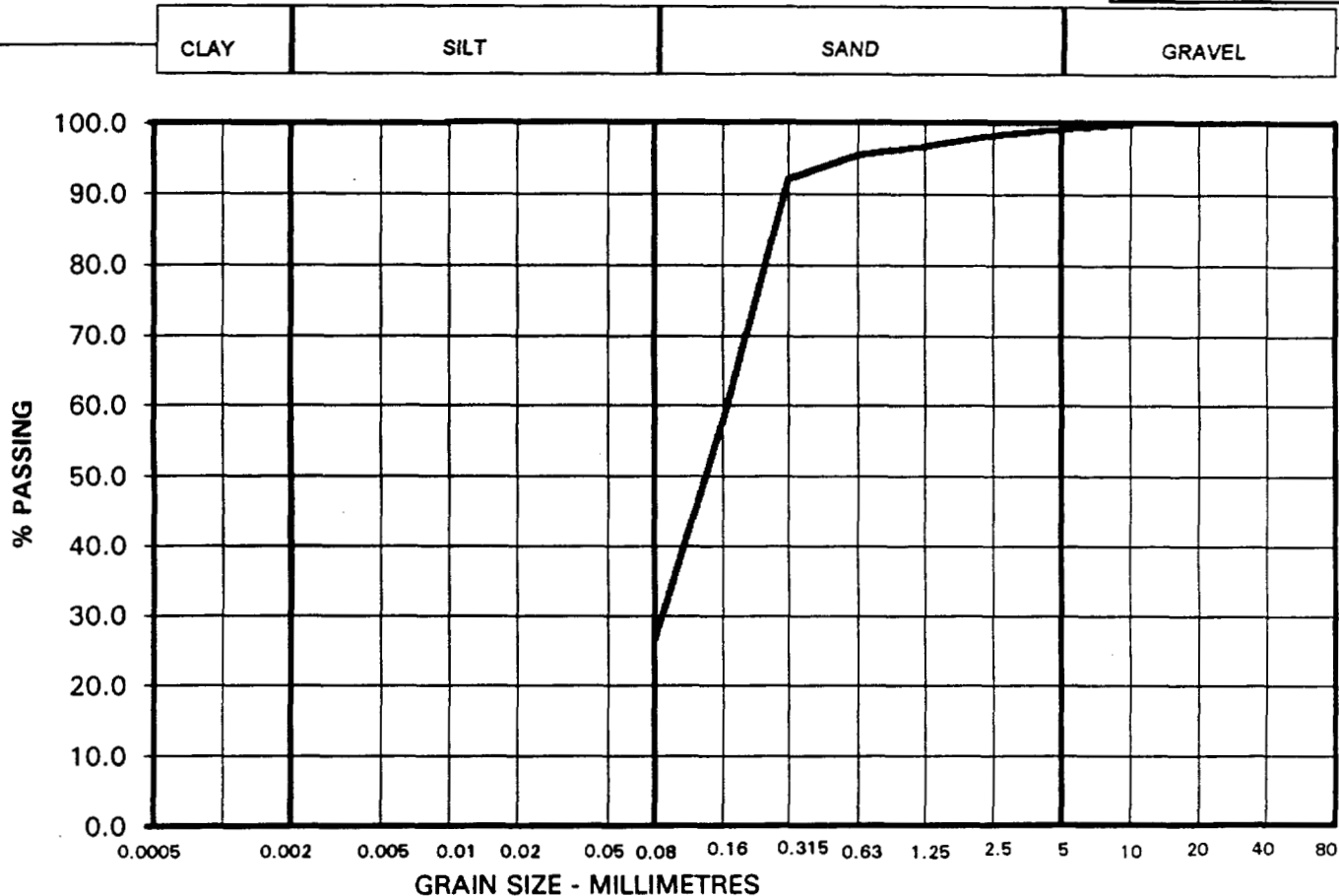
Cu: _____ Cc: _____

WATER CONTENT: 13.1%

TOTAL MASS: 8829 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	99
2.5	98
1.25	97
0.63	96
0.315	92
0.16	58
0.08	26.5



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 30 BY: ht EBA Eng.
 TESTPIT NO: d77gc
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SM), silty, trace gravel,
some organics, subrounded, dark brown.

Cu: _____ Cc: _____

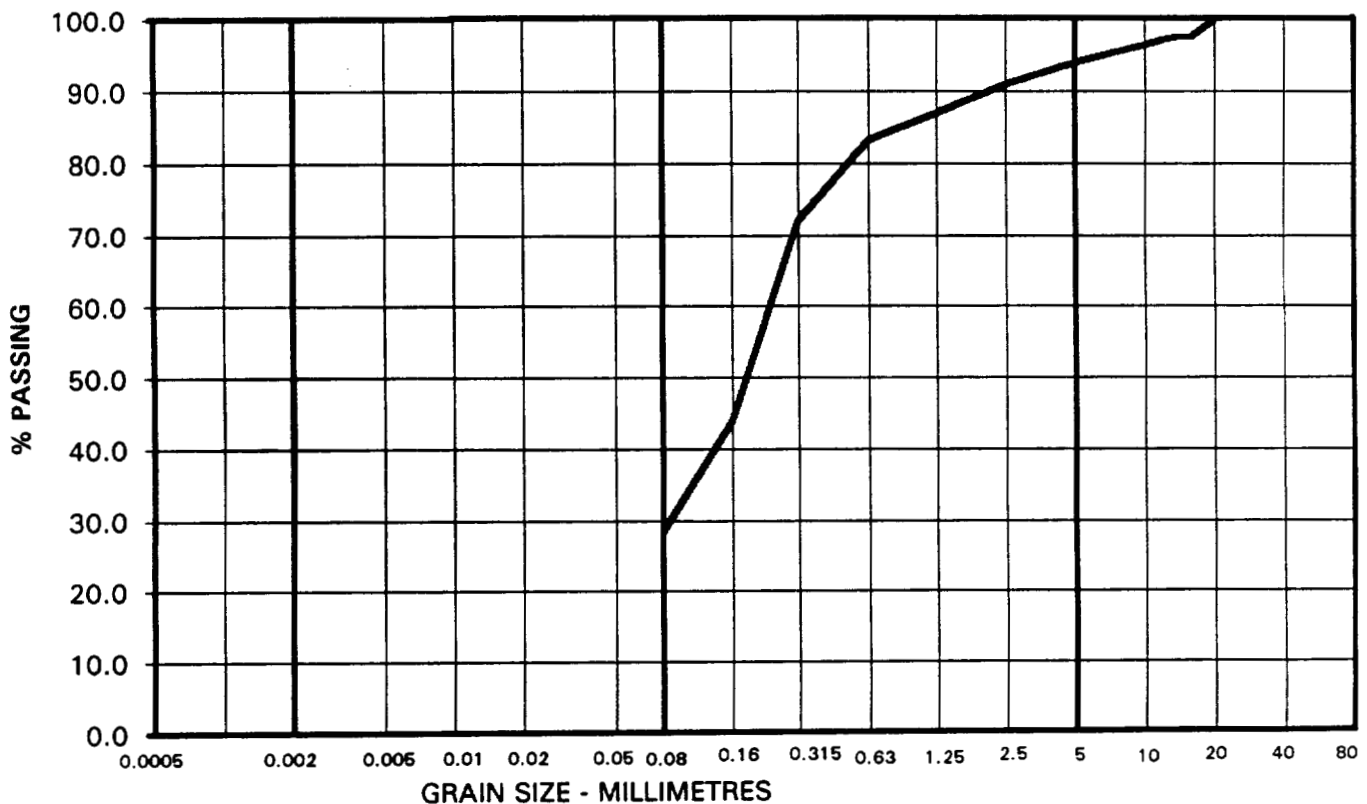
WATER CONTENT: 12.9%

TOTAL MASS: 10295 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	98
12.5	97
10	96
5	94
2.5	91
1.25	87
0.63	83
0.315	72
0.16	44
0.08	28.5

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 30 BY: ht EBA Eng.
TESTPIT NO: d78d
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SAND and SILT(SM - ML), trace organics,
fine-grained, uniform, light grey.

Cu: _____ Cc: _____

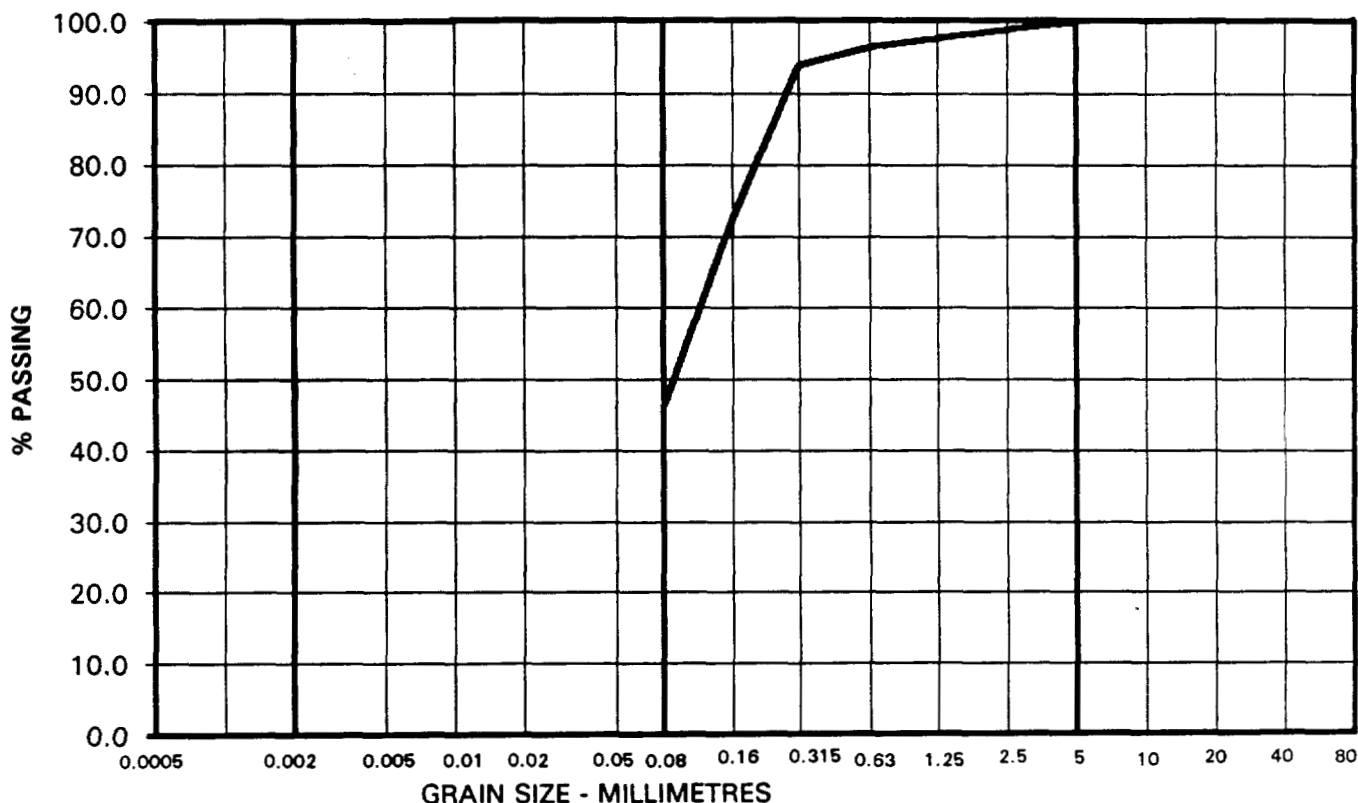
WATER CONTENT: 5.7%

TOTAL MASS: 8217 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	99
1.25	98
0.63	96
0.315	94
0.16	72
0.08	46.3

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 30 BY: ht EBA Eng.
TESTPIT NO: d78gc
DEPTH: 0.15 - 0.75
SOIL DESCRIPTION SAND(SM), some silt, trace gravel,
some organics, subrounded, light grey.

Cu: _____ Cc: _____

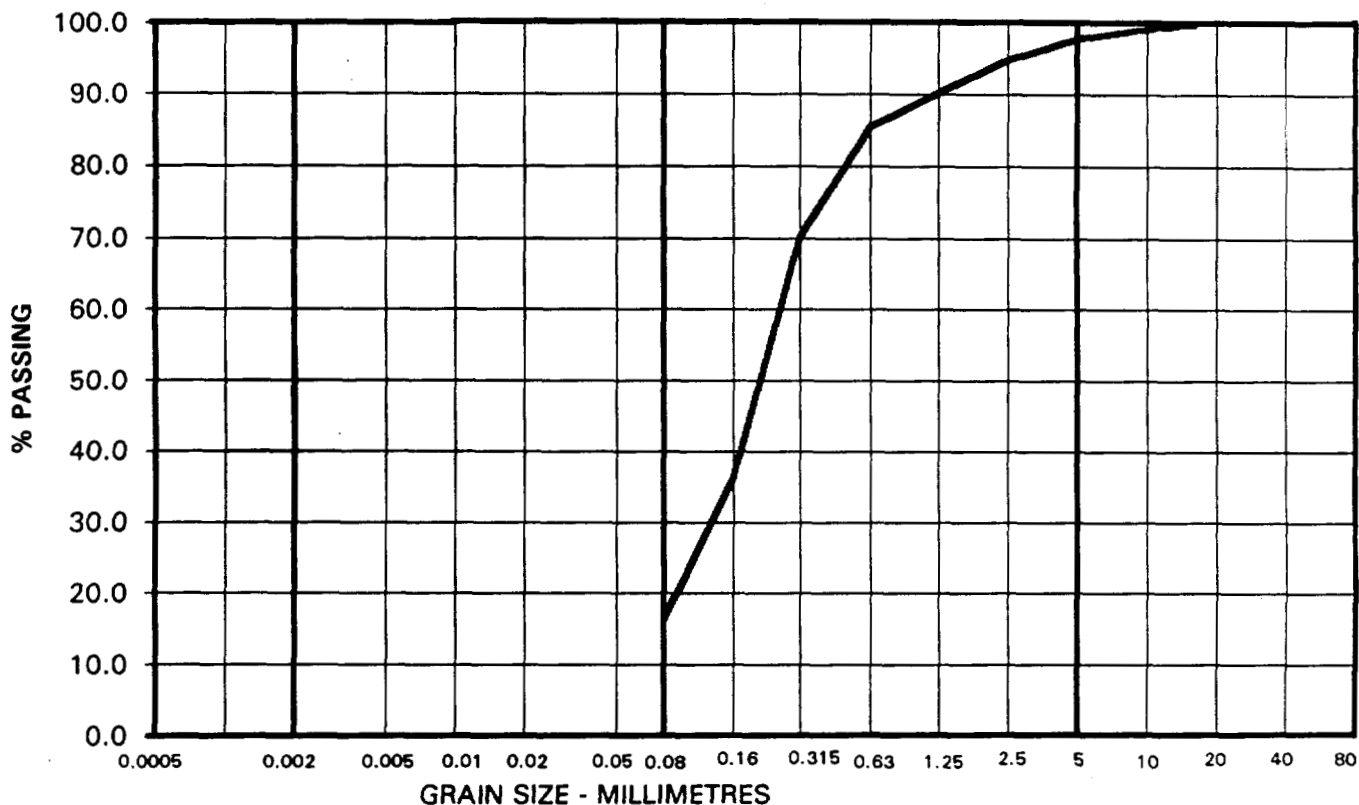
WATER CONTENT: 2.9%

TOTAL MASS: 8342 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	100
10	99
5	98
2.5	95
1.25	90
0.63	85
0.315	70
0.16	36
0.08	16.3

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 30 BY: ht EBA Eng.
 TESTPIT NO: d79random
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SP), trace silt,
some organics, medium-grained, uniform, subangular, light grey.

Cu: 2.9 Cc: 1.3

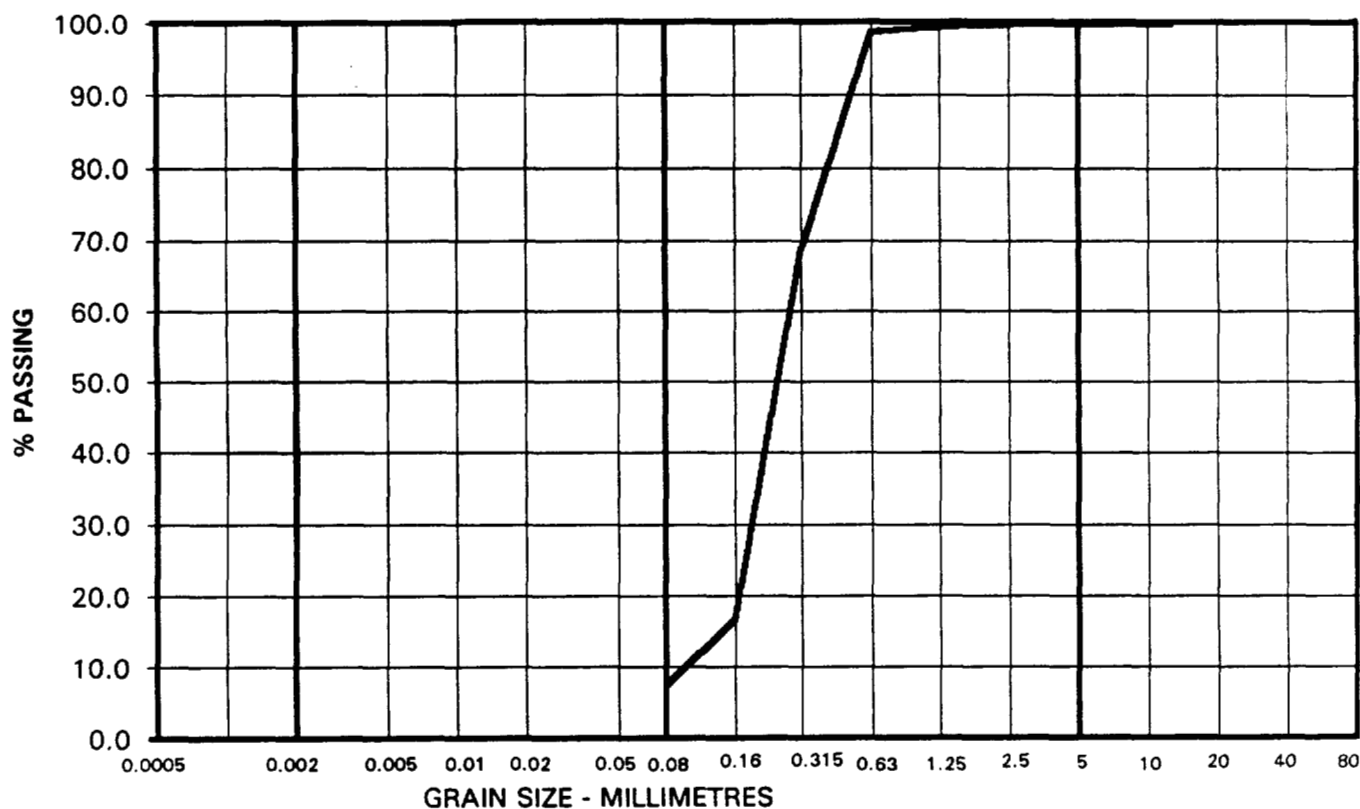
WATER CONTENT: 2.3%

TOTAL MASS: 7436 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	100
5	100
2.5	100
1.25	100
0.63	99
0.315	69
0.16	17
0.08	7.3

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 05 BY: htEBA Eng.
 TESTPIT NO: d80d
 DEPTH: 0.15 - 0.65
 SOIL DESCRIPTION SAND(SM - ML), silty, some gravel, organics,
fine-grained, subrounded, lt. grey.

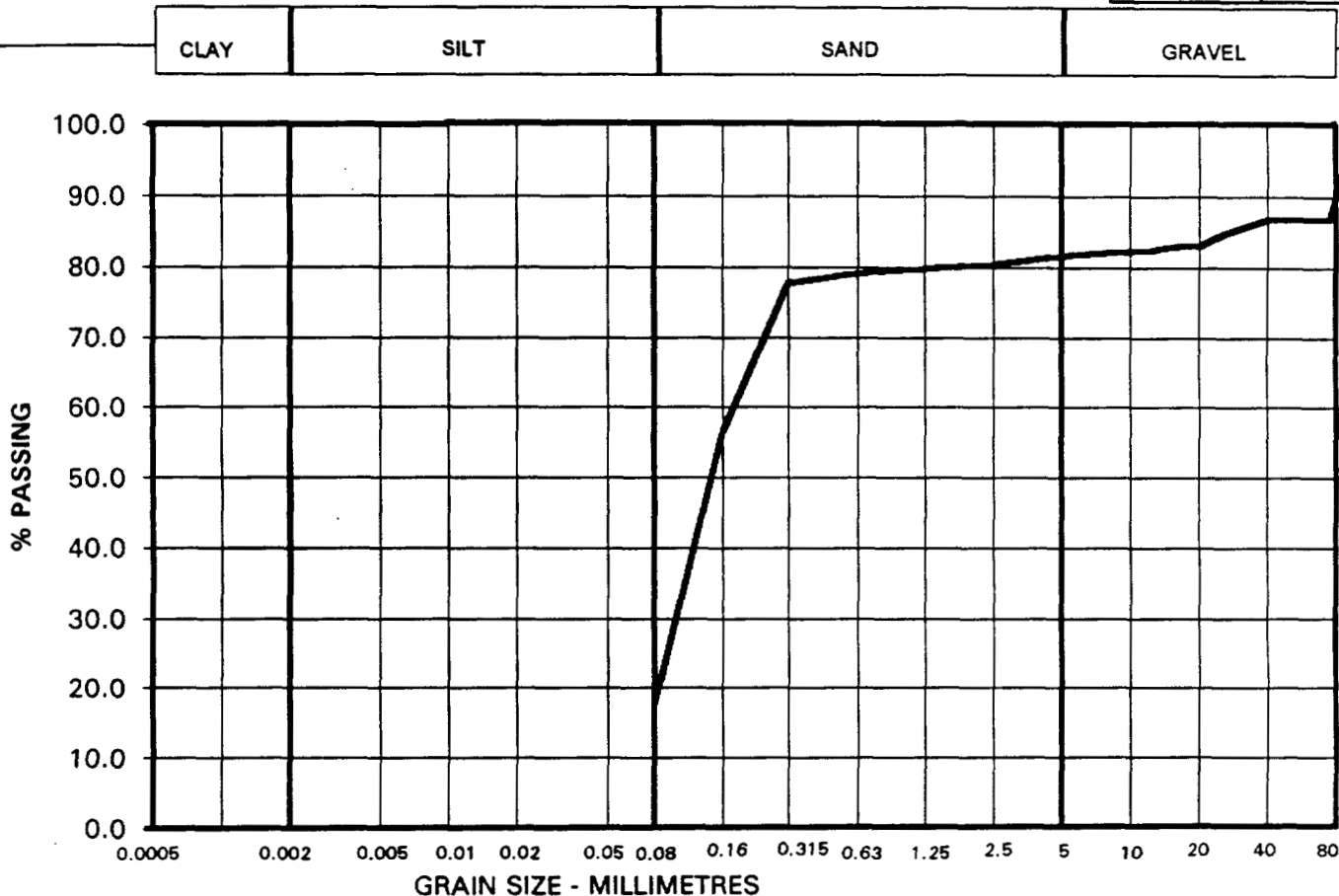
Cu: _____ Cc: _____

WATER CONTENT: 2.5%

TOTAL MASS: 9535 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	100
75	87
50	87
40	87
25	85
20	83
16	83
12.5	82
10	82
5	82
2.5	80
1.25	80
0.63	79
0.315	78
0.16	57
0.08	17.5



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 30 BY: ht EBA Eng.
TESTPIT NO: d80gc
DEPTH: 0.15 - 0.65
SOIL DESCRIPTION SAND(SM), some silt, trace gravel,
fine-grained, uniform, light grey.

Cu: _____ Cc: _____

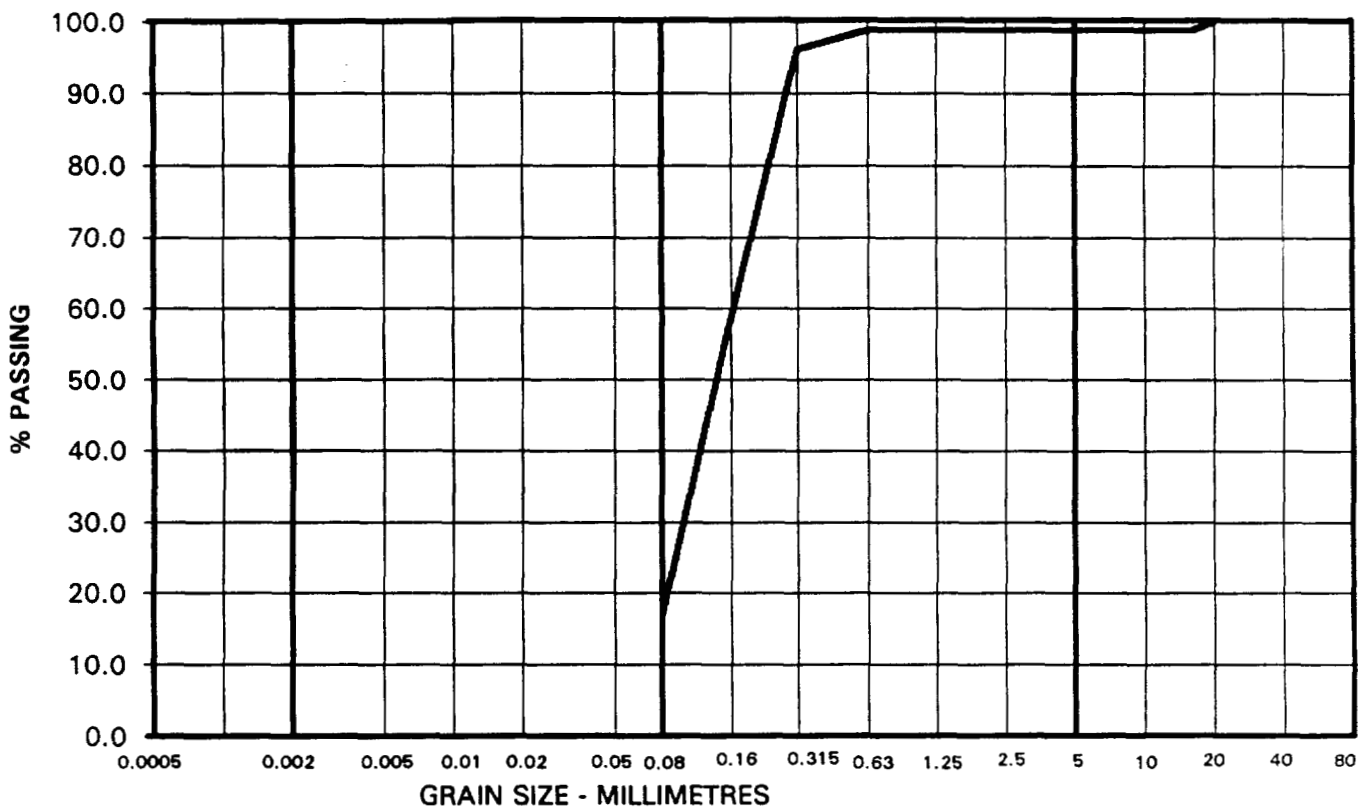
WATER CONTENT: 3.1%

TOTAL MASS: 10390 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	99
12.5	99
10	99
5	99
2.5	99
1.25	99
0.63	99
0.315	96
0.16	59
0.08	16.9

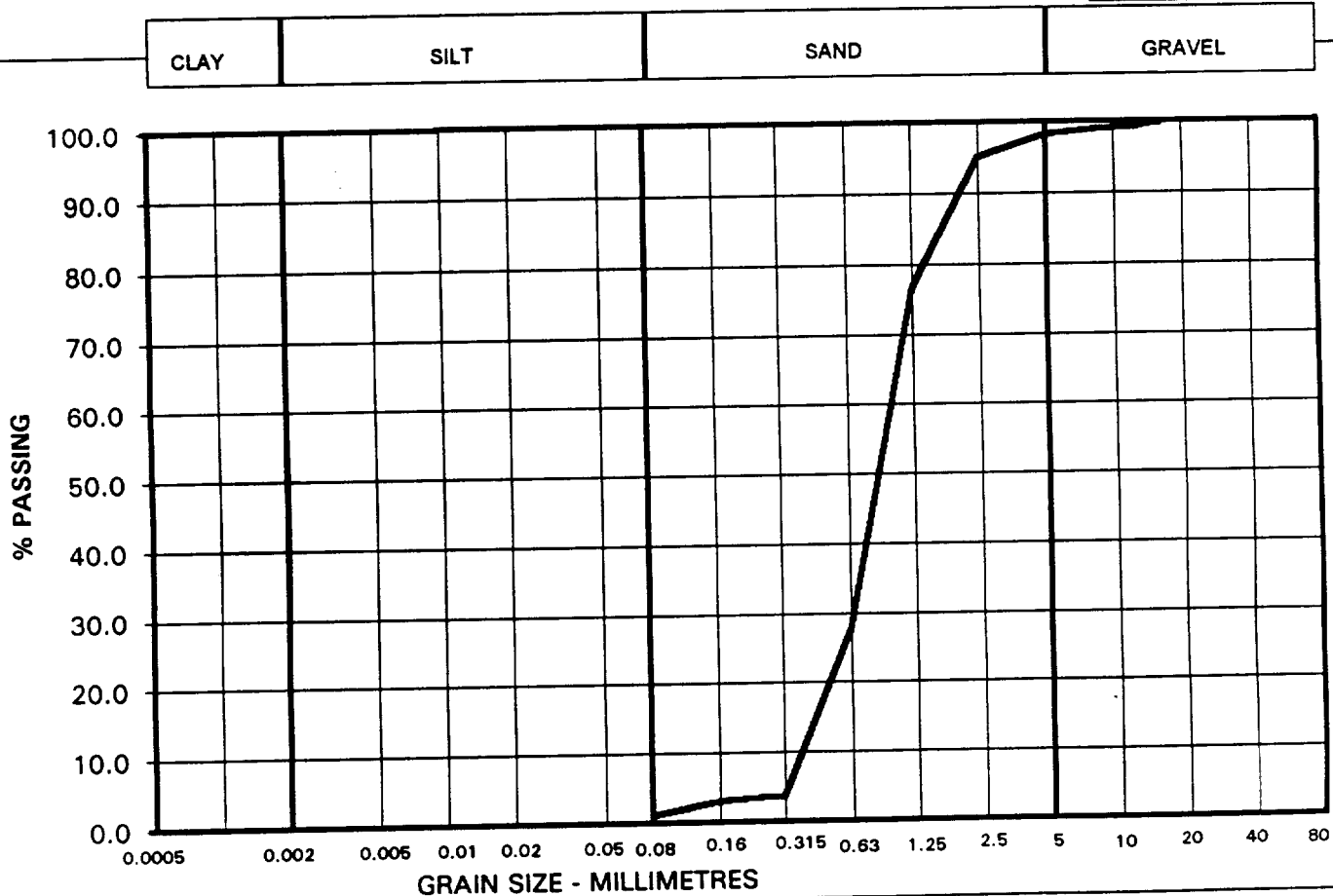
CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 30 BY: htEBA Eng.
TESTPIT NO: d81 random
DEPTH: 0.15 - 0.7
SOIL DESCRIPTION SAND(SP), trace gravel, trace silt,
trace organics, coarse-grained, medium brown.
Cu: 2.6 Cc: 1.1
WATER CONTENT: 6.7%
TOTAL MASS: 10055 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	100
10	99
5	98
2.5	95
1.25	77
0.63	28
0.315	4
0.16	3
0.08	1.0



PARTICLE - SIZE ANALYSIS OF SOILS

SIEVE	PERCENT
SIZE	100
75	83
50	83
40	83
25	82
20	80
16	80
12.5	80
10	79
5	76
2.5	71
1.25	52
0.63	25
0.315	11
0.16	7
0.08	3.8

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 10 01 BY: htEBA Eng.

TESTPIT NO: d82 random

DEPTH: 0.15 - 0.70

SOIL DESCRIPTION SAND(SP), gravelly, trace silt,

some Organics, subangular, light brown.

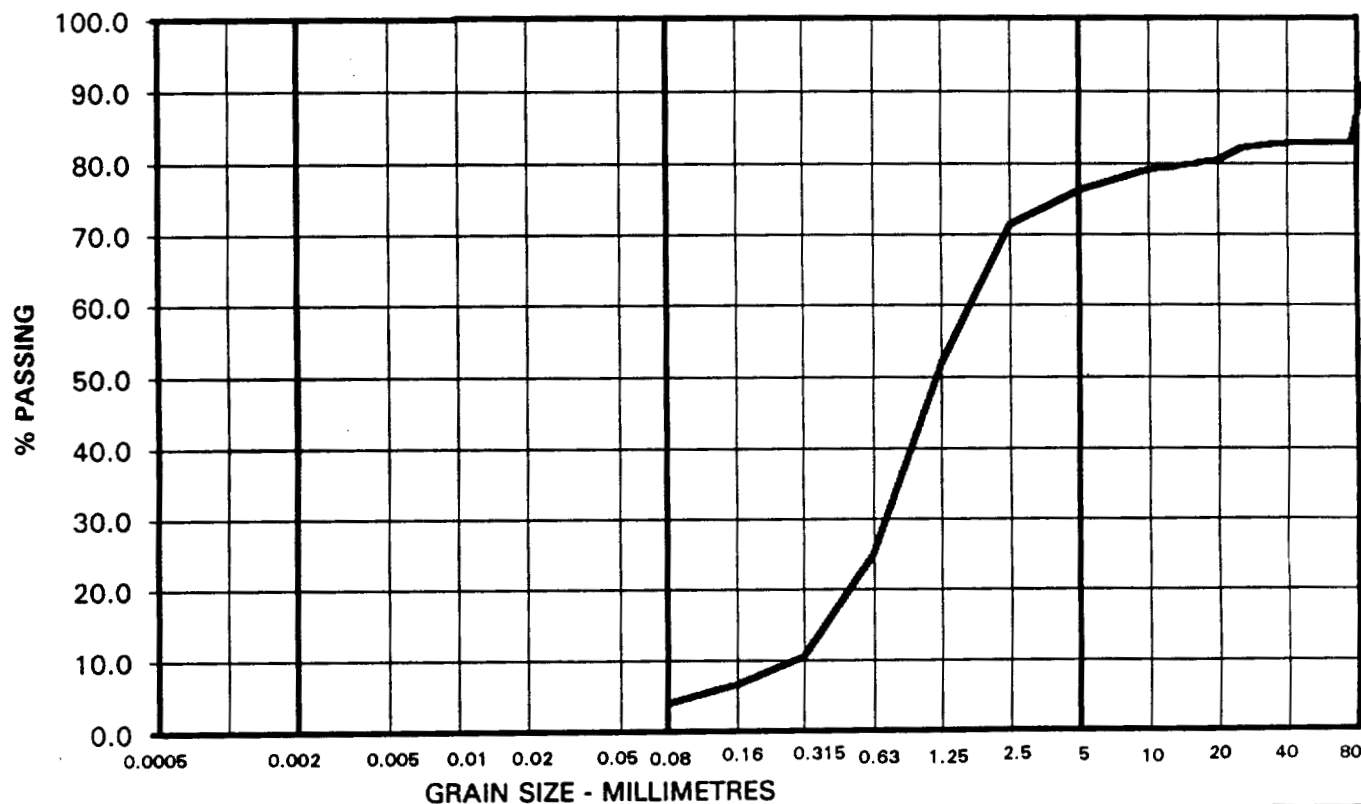
Cu: 5.8 Cc: 1.1

WATER CONTENT: 1.9%

TOTAL MASS: 11293 Grams

REMARKS: _____

CLAY	SILT	SAND	GRAVEL
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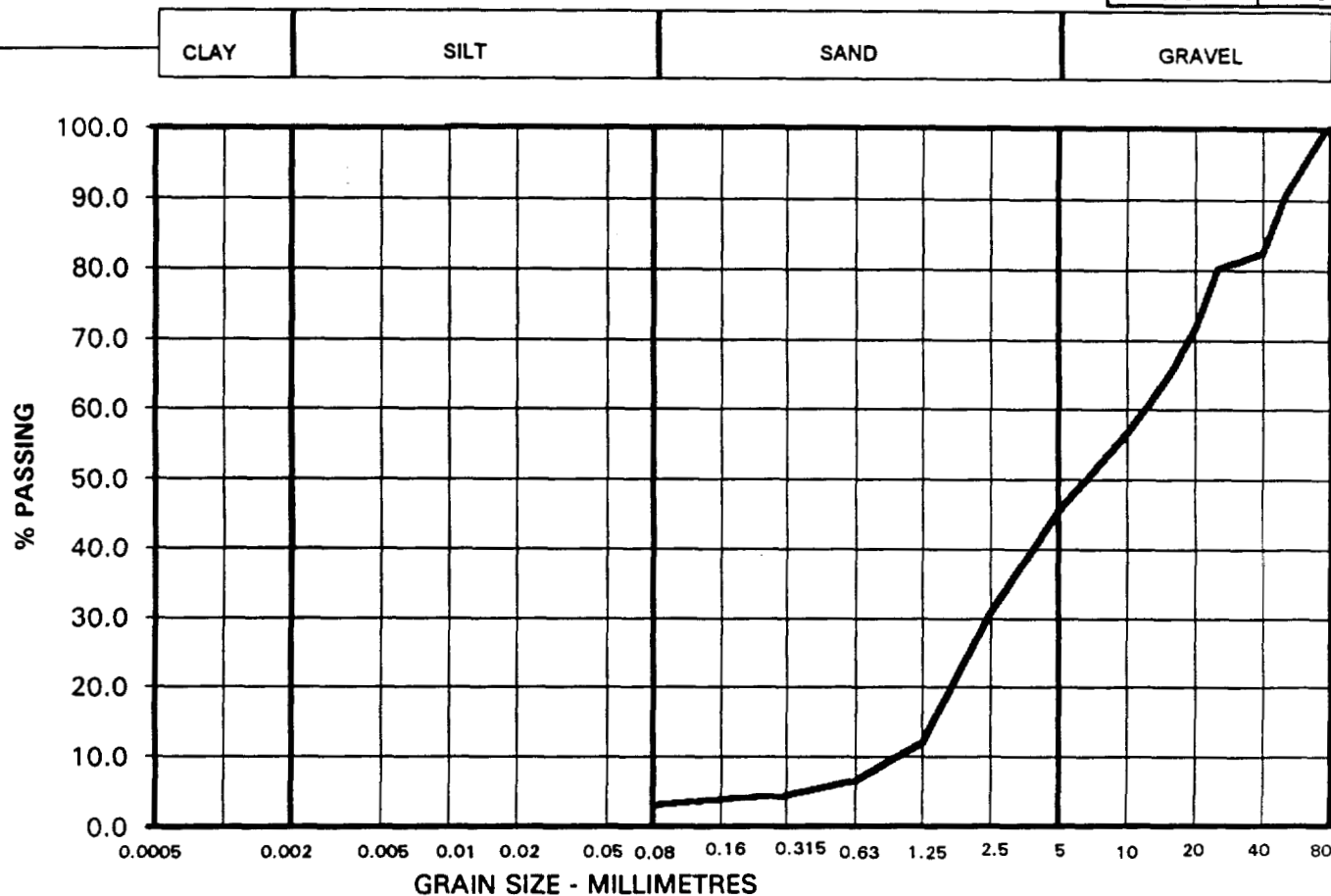
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 01 BY: htEBA Eng.
 TESTPIT NO: d83 random
 DEPTH: 0.15 - 0.40
 SOIL DESCRIPTION GRAVEL and SAND(GP - SP), trace silt,
some organics, subrounded, dark brown.

Cu: 9.9 Cc: 0.4
 WATER CONTENT: 1.4%
 TOTAL MASS: 6903 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	91
40	82
25	80
20	72
16	66
12.5	61
10	57
5	45
2.5	31
1.25	12
0.63	7
0.315	5
0.16	4
0.08	3.0



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 01 BY: ht EBA Eng.
 TESTPIT NO: d84 random
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND(SW), some gravel, trace silt,
some organics, subangular, light brown.

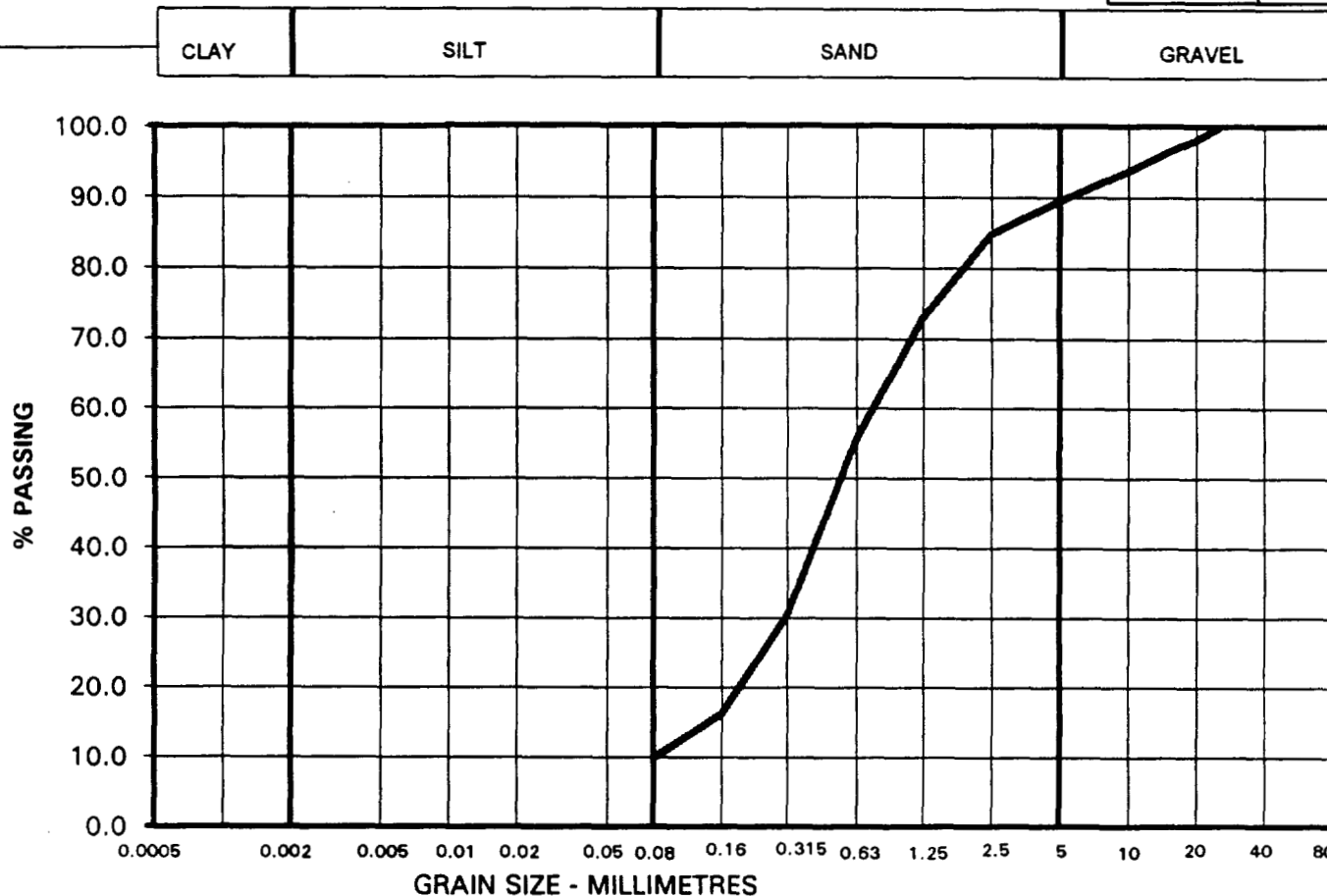
Cu: 9.1 Cc: 1.6

WATER CONTENT: 3.7%

TOTAL MASS: 10656 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	98
16	97
12.5	95
10	94
5	90
2.5	85
1.25	73
0.63	56
0.315	30
0.16	16
0.08	9.8



PARTICLE - SIZE ANALYSIS OF SOILS

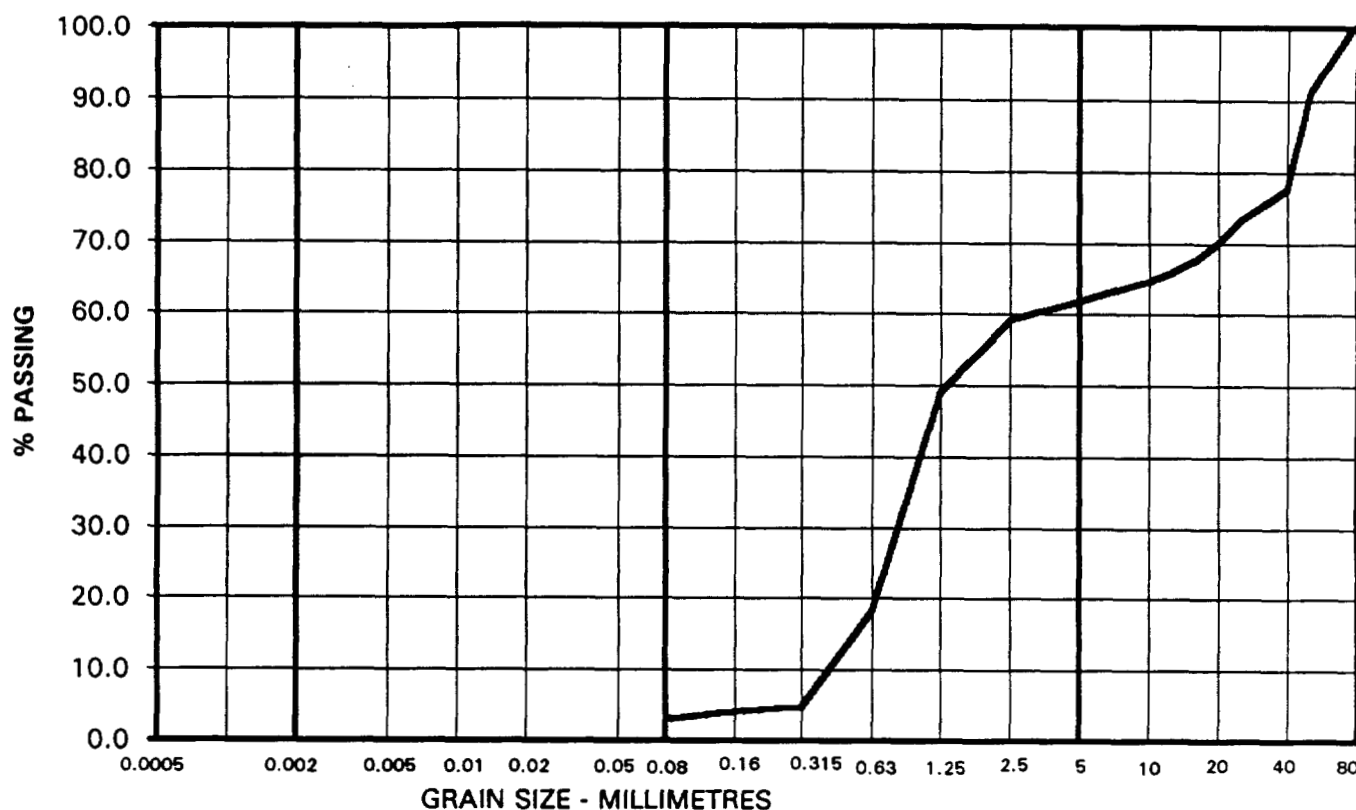
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 01 BY: htEBA Eng.
 TESTPIT NO: d85 random
 DEPTH: 0.15 - 0.6
 SOIL DESCRIPTION SAND and GRAVEL(SP - GP), trace silt,
some organics, subangular, dark brown.

Cu: 7.5 Cc: 0.5
 WATER CONTENT: 2.0%
 TOTAL MASS: 11119 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	91
40	78
25	73
20	70
16	68
12.5	66
10	65
5	62
2.5	59
1.25	49
0.63	18
0.315	5
0.16	4
0.08	3.0

CLAY	SILT	SAND	GRAVEL
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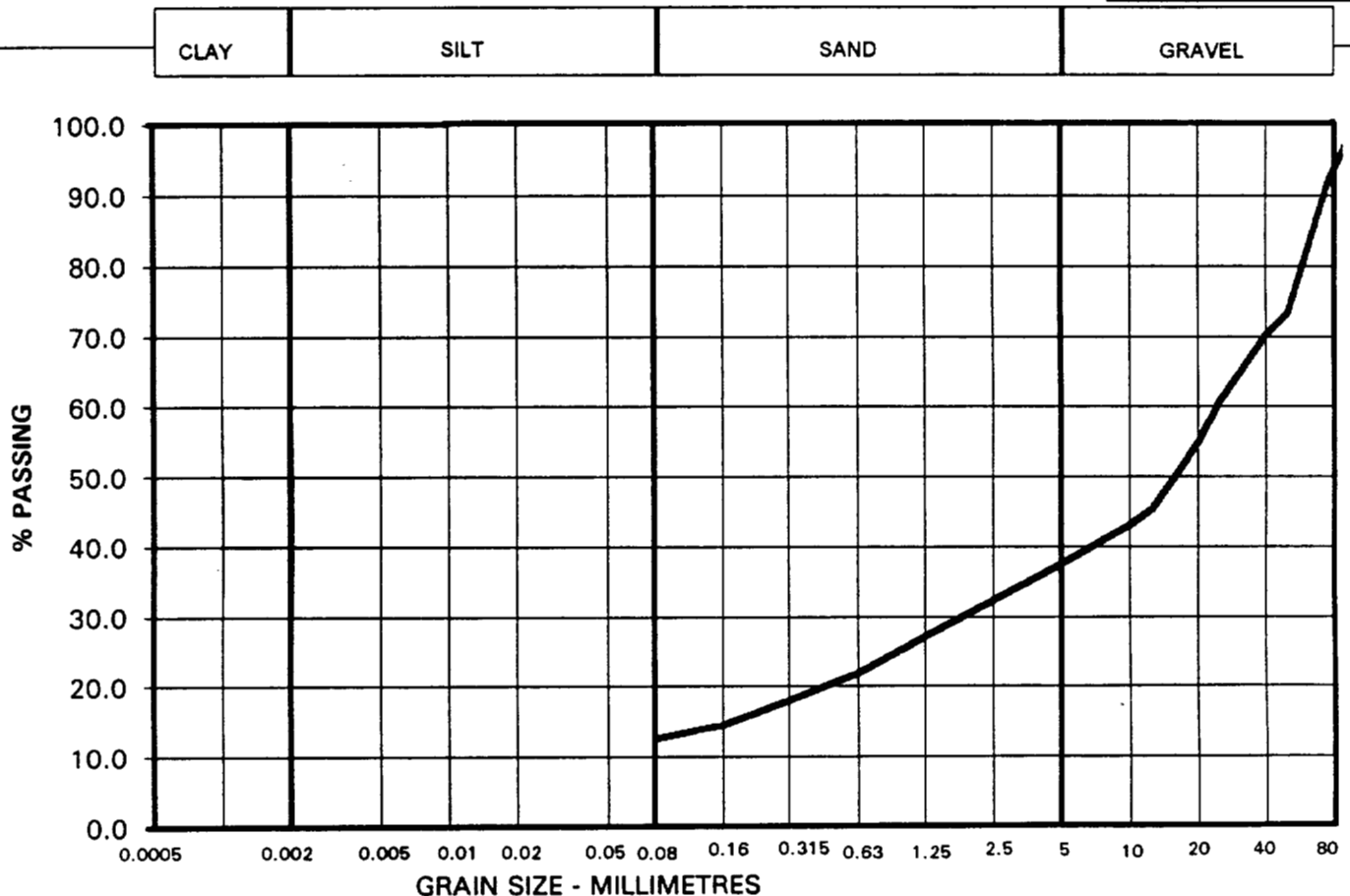
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 01 BY: htEBA Eng.
 TESTPIT NO: d86 random
 DEPTH: 0.15 - 0.4
 SOIL DESCRIPTION GRAVEL(GM), sandy, some silt,
very organic, well-graded, subrounded, dark brown.

Cu: _____ Cc: _____
 WATER CONTENT: 6.3%
 TOTAL MASS: 11413 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	100
75	92
50	73
40	70
25	61
20	55
16	50
12.5	45
10	43
5	37
2.5	32
1.25	27
0.63	22
0.315	18
0.16	15
0.08	12.4



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 10 06 BY: ht EBA Eng.
TESTPIT NO: d087random
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SAND and GRAVEL(SP - GP), trace silt,
some organics, subrounded, dark brown.

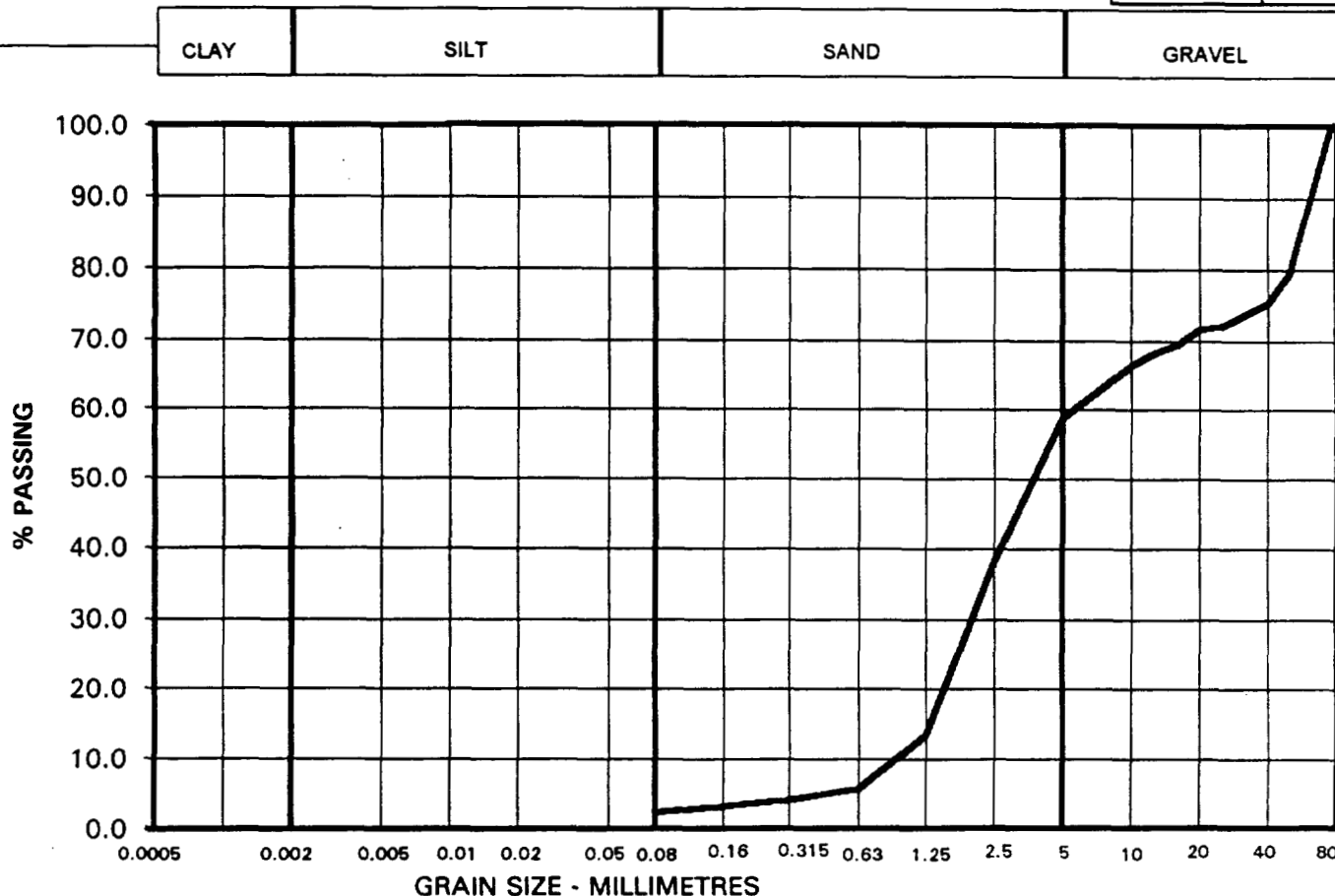
Cu: 4.7 Cc: 0.6

WATER CONTENT: 4.7%

TOTAL MASS: 9841 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	80
40	75
25	72
20	72
16	69
12.5	68
10	66
5	59
2.5	38
1.25	13
0.63	6
0.315	4
0.16	3
0.08	2.3



PARTICLE - SIZE ANALYSIS OF SOILS

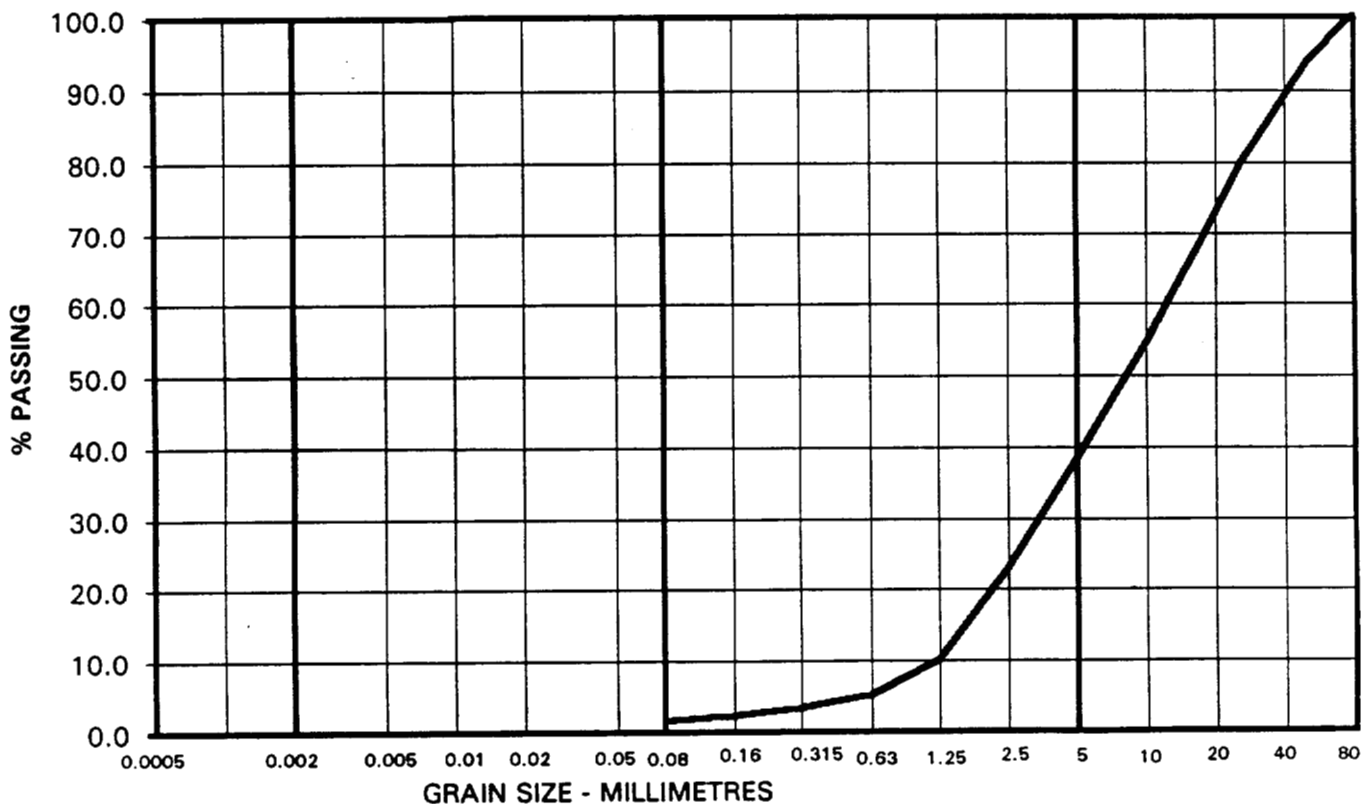
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 06 BY: ht EBA Eng.
 TESTPIT NO: d088random
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION GRAVEL and SAND(GP - SP), trace silt.
very organic, subrounded, dark brown.

Cu: 9.8 Cc: 0.8
 WATER CONTENT: 2.0%
 TOTAL MASS: 13189 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	94
40	89
25	80
20	73
16	67
12.5	61
10	55
5	39
2.5	23
1.25	10
0.63	5
0.315	3
0.16	2
0.08	1.5

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 10 05 BY: htEBA Eng.

TESTPIT NO: d89 random

DEPTH: 0.15 - 0.5

SOIL DESCRIPTION SAND(SW), some gravel, trace silt,
some organics, subangular, light brown.

Cu: 7.1 Cc: 1.5

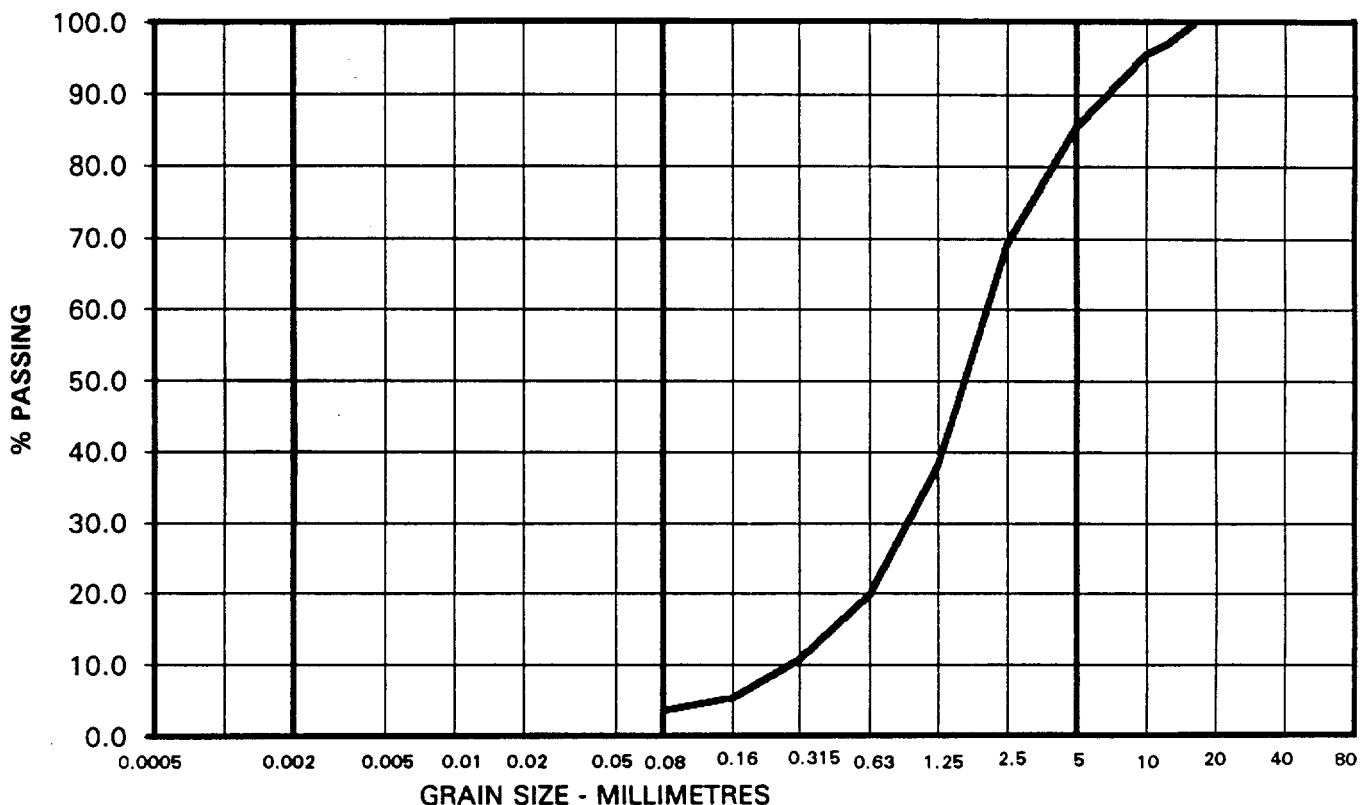
WATER CONTENT: 2.5%

TOTAL MASS: 7700 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	97
10	96
5	85
2.5	69
1.25	38
0.63	20
0.315	11
0.16	5
0.08	3.5

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 06 BY: ht EBA Eng.
 TESTPIT NO: d090random
 DEPTH: 0.15 - 0.40
 SOIL DESCRIPTION GRAVEL(GW), sandy, trace silt,
some organics, subrounded, dark brown.

Cu: 62.3 Cc: 1.0

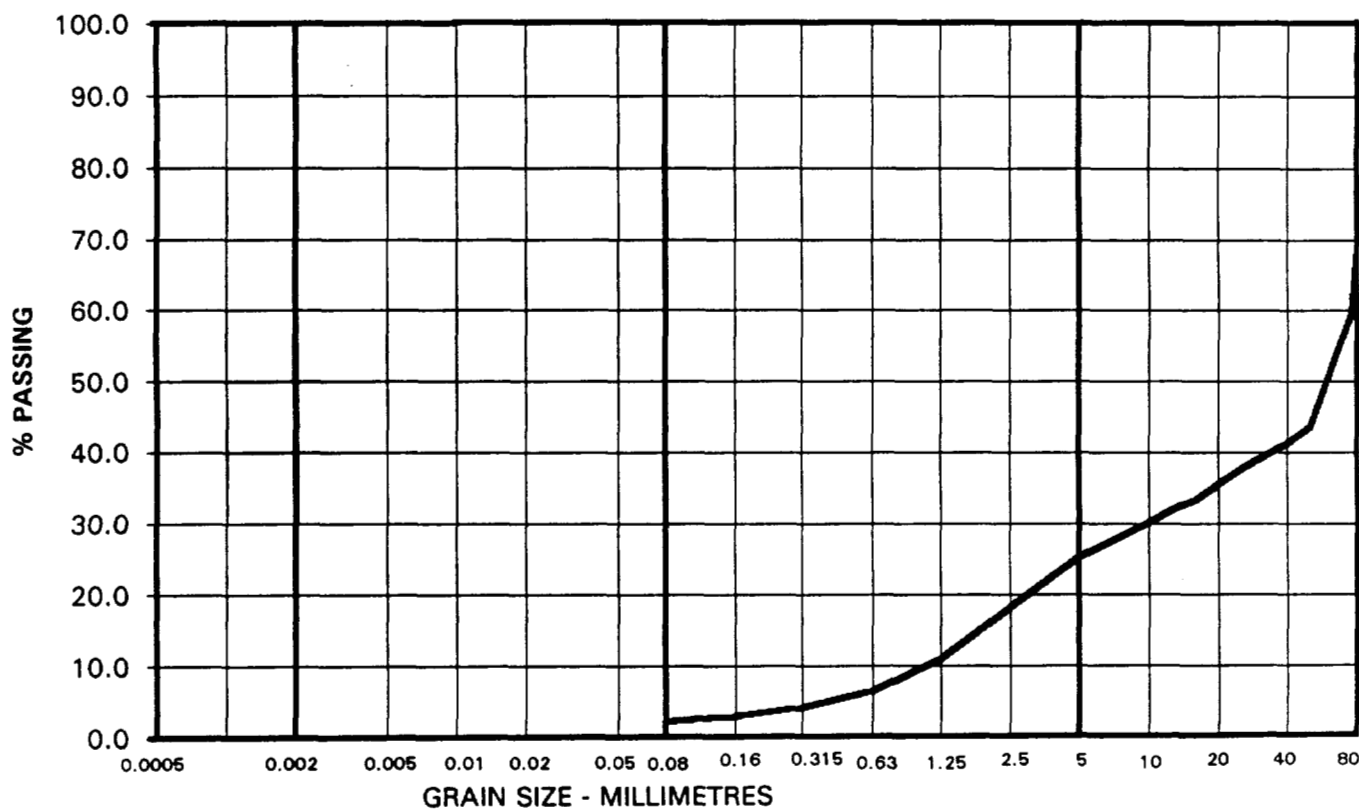
WATER CONTENT: 2.7%

TOTAL MASS: 11077 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	100
75	59
50	43
40	41
25	38
20	35
16	33
12.5	32
10	30
5	25
2.5	18
1.25	11
0.63	6
0.315	4
0.16	3
0.08	2.2

CLAY	SILT	SAND	GRAVEL
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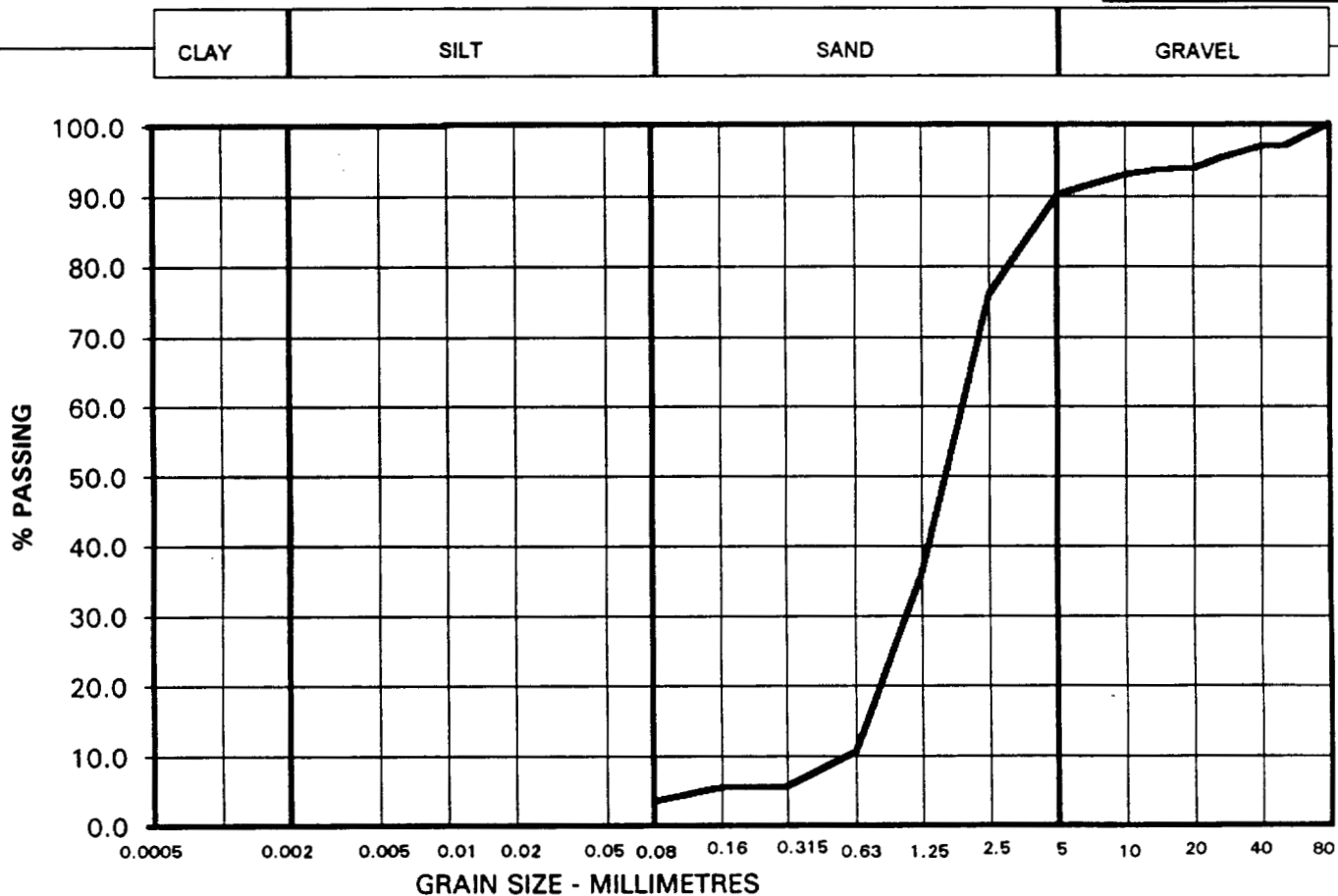
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 01 BY: htEBA Eng.
 TESTPIT NO: d91 random
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SP), trace gravel, trace silt,
some organics, subrounded, dark brown.

Cu: 3.3 Cc: 1.0
 WATER CONTENT: 1.6%
 TOTAL MASS: 10320 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	97
40	97
25	95
20	94
16	94
12.5	94
10	93
5	90
2.5	76
1.25	36
0.63	11
0.315	6
0.16	6
0.08	3.5



PARTICLE - SIZE ANALYSIS OF SOILS

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	99
16	98
12.5	98
10	97
5	95
2.5	92
1.25	59
0.63	39
0.315	13
0.16	7
0.08	3.8

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 30 BY: ht EBA Eng.

TESTPIT NO: d92random

DEPTH: 0.15 - 0.70

SOIL DESCRIPTION SAND(SP), trace gravel, trace silt,

some organics, subangular, light brown.

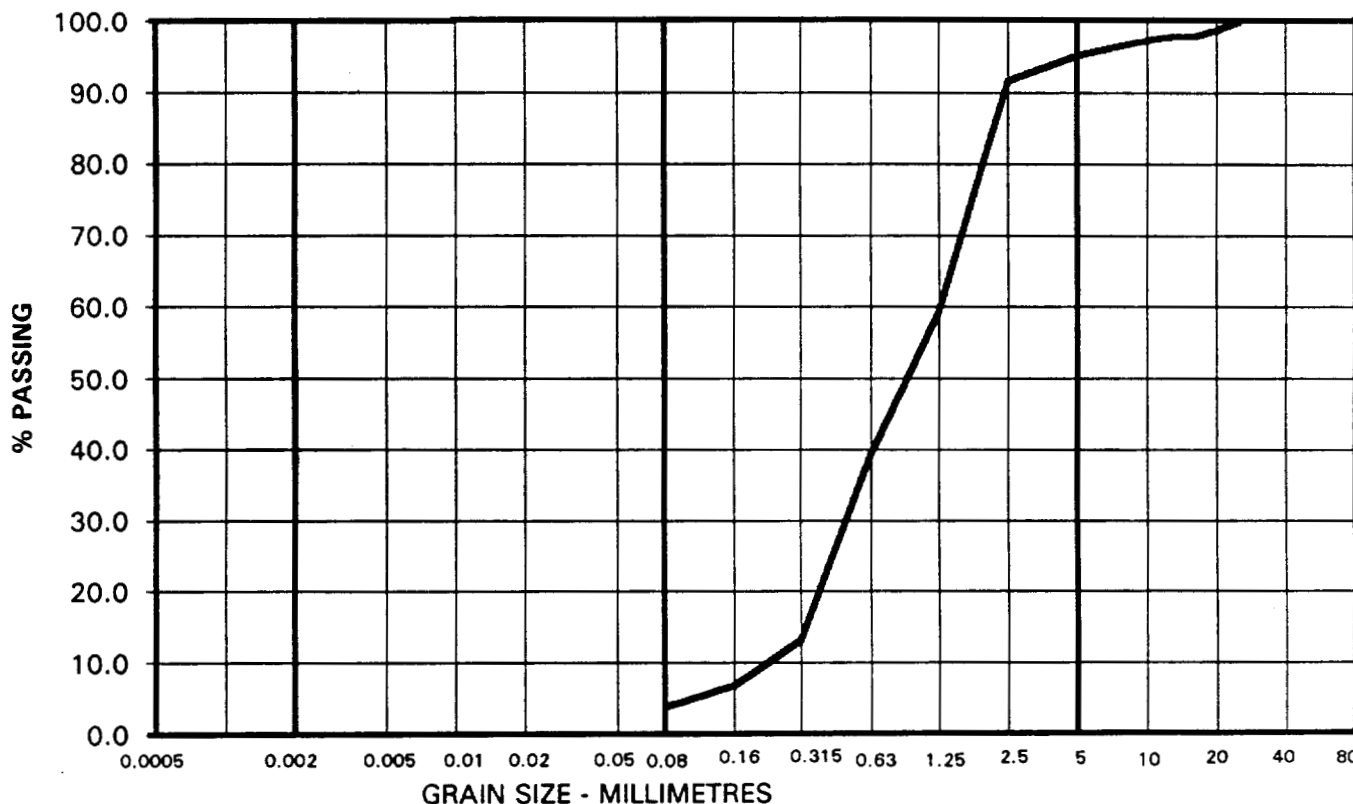
Cu: 5.6 Cc: 0.9

WATER CONTENT: 1.2%

TOTAL MASS: 11608 Grams

REMARKS: _____

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 10 06 BY: ht EBA Eng.
TESTPIT NO: d093random
DEPTH: 0.15 - 0.50
SOIL DESCRIPTION SAND(SP), gravelly, trace silt,
some organics, subangular, medium brown.

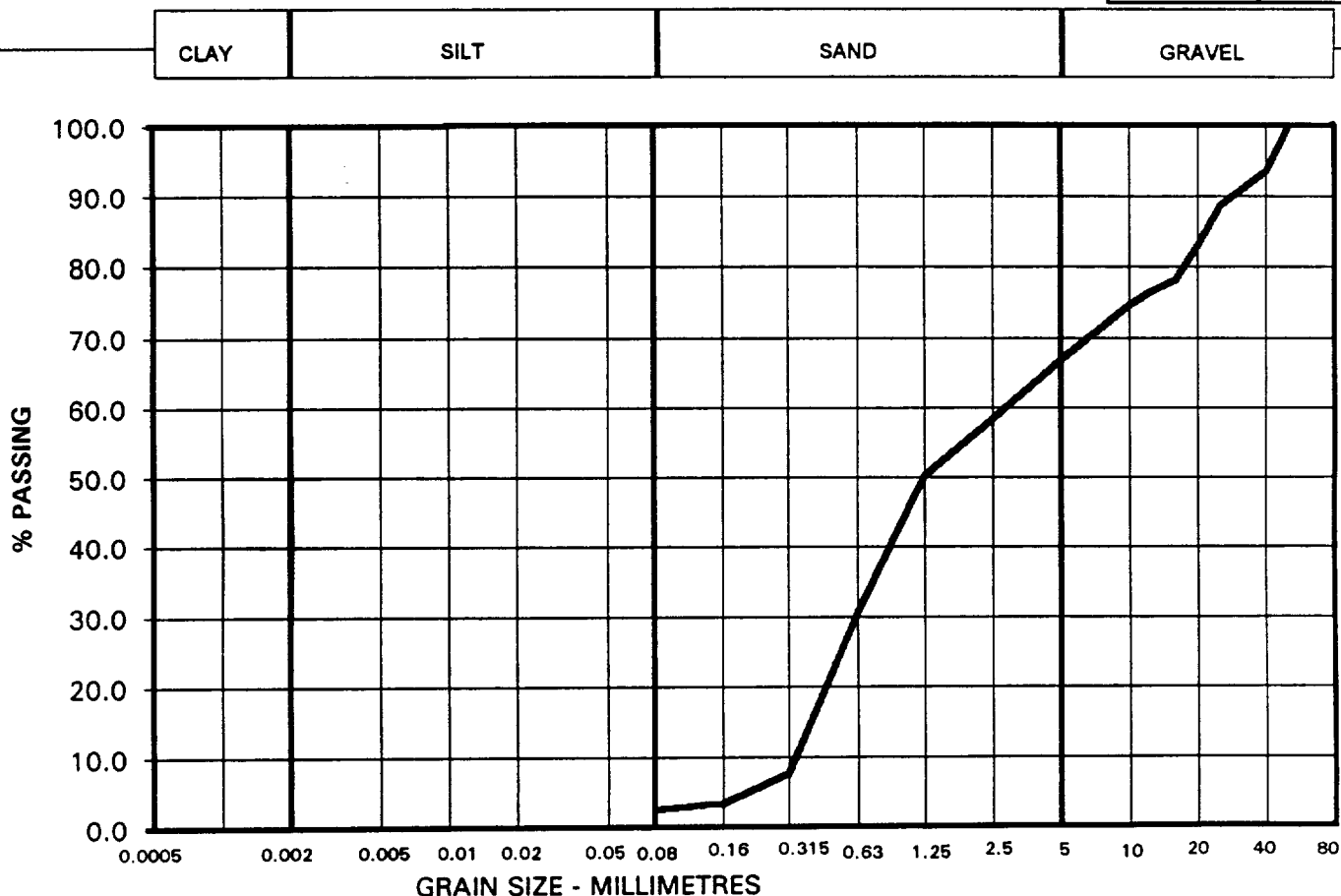
Cu: 8.4 Cc: 0.4

WATER CONTENT: 1.1%

TOTAL MASS: 9299 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	94
25	89
20	83
16	78
12.5	77
10	75
5	67
2.5	58
1.25	50
0.63	30
0.315	8
0.16	3
0.08	2.4

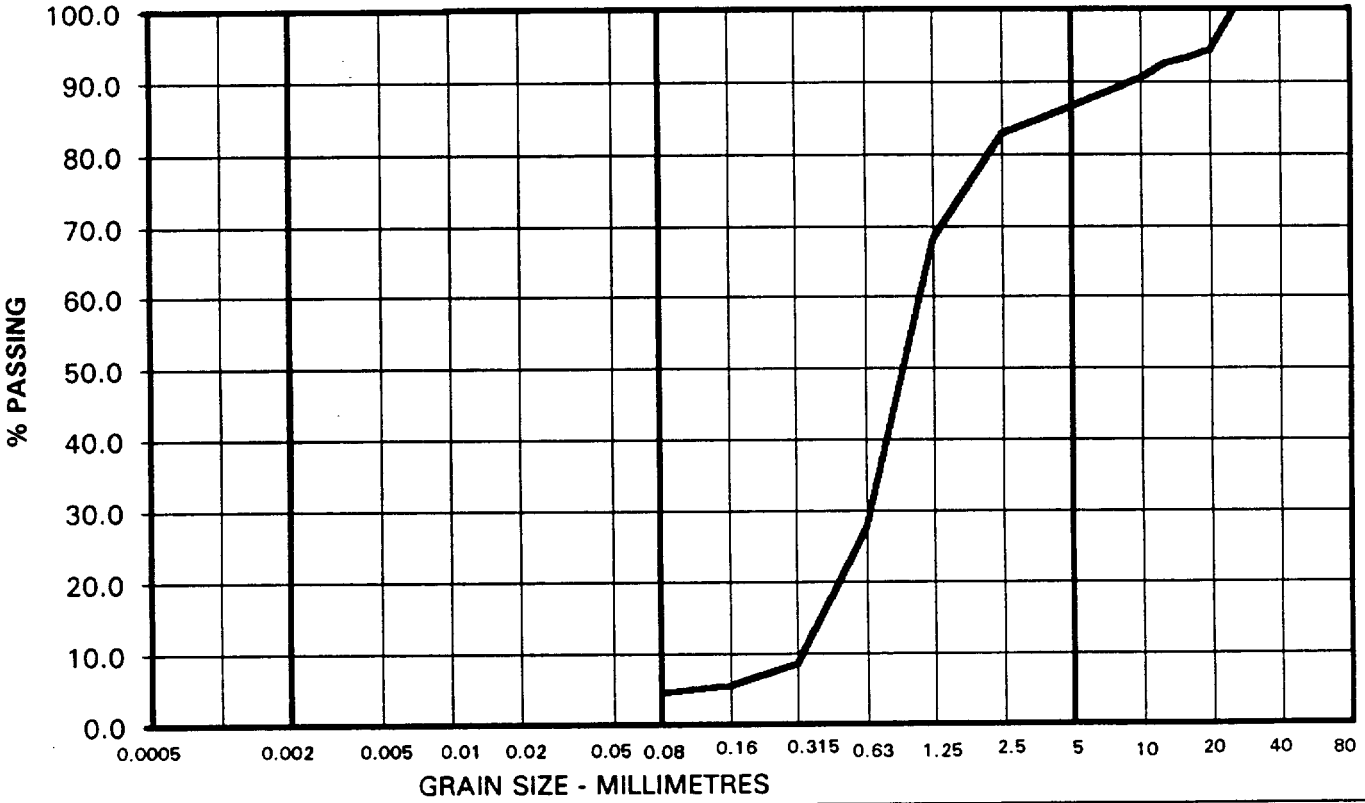


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 08 BY: ht EBA Eng.
 TESTPIT NO: d094random
 DEPTH: 0.15 - 0.55
 SOIL DESCRIPTION SAND(SPI), some gravel, trace fines.
some organics, subrounded, medium brown.
 Cu: 3.3 Cc: 1.2
 WATER CONTENT: 1.6%
 TOTAL MASS: 8140 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	94
16	93
12.5	93
10	91
5	87
2.5	83
1.25	68
0.63	28
0.315	9
0.16	6
0.08	4.4

CLAY	SILT	SAND	GRAVEL
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EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 15 BY: tj EBA Eng.
TESTPIT NO: d95random
DEPTH: 0.15 - 0.40
SOIL DESCRIPTION GRAVEL(SM), sandy, some silt,
some organics, subrounded, medium brown.

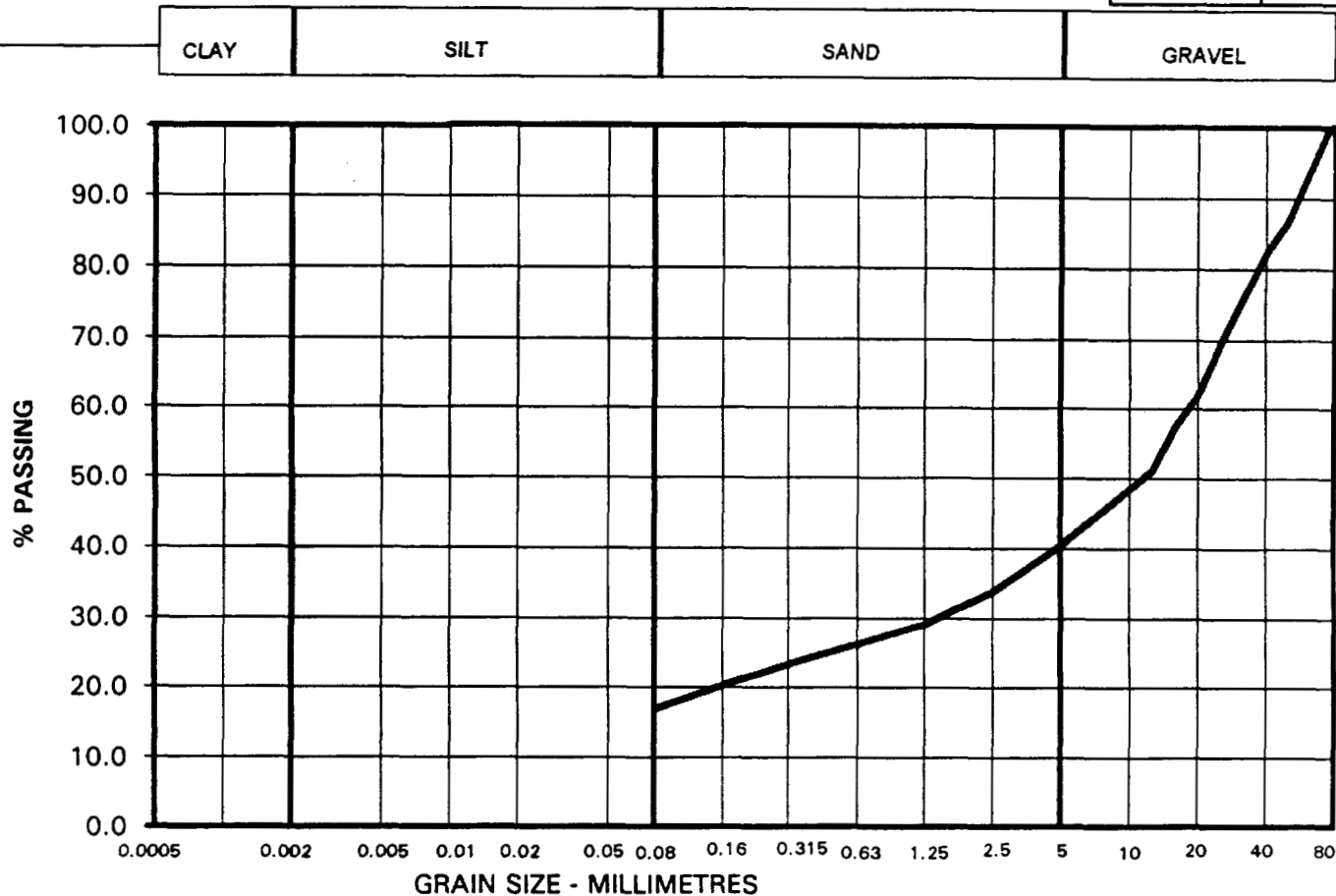
Cu: _____ Cc: _____

WATER CONTENT: 2.4%

TOTAL MASS: 10239 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	87
40	82
25	69
20	62
16	58
12.5	51
10	48
5	40
2.5	34
1.25	29
0.63	26
0.315	23
0.16	20
0.08	16.9



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 06 BY: htEBA Eng.
 TESTPIT NO: d96r
 DEPTH: 0.15 - 0.5
 SOIL DESCRIPTION SAND(SP), some gravel, trace silt,
some organics, subrounded, dark brown.

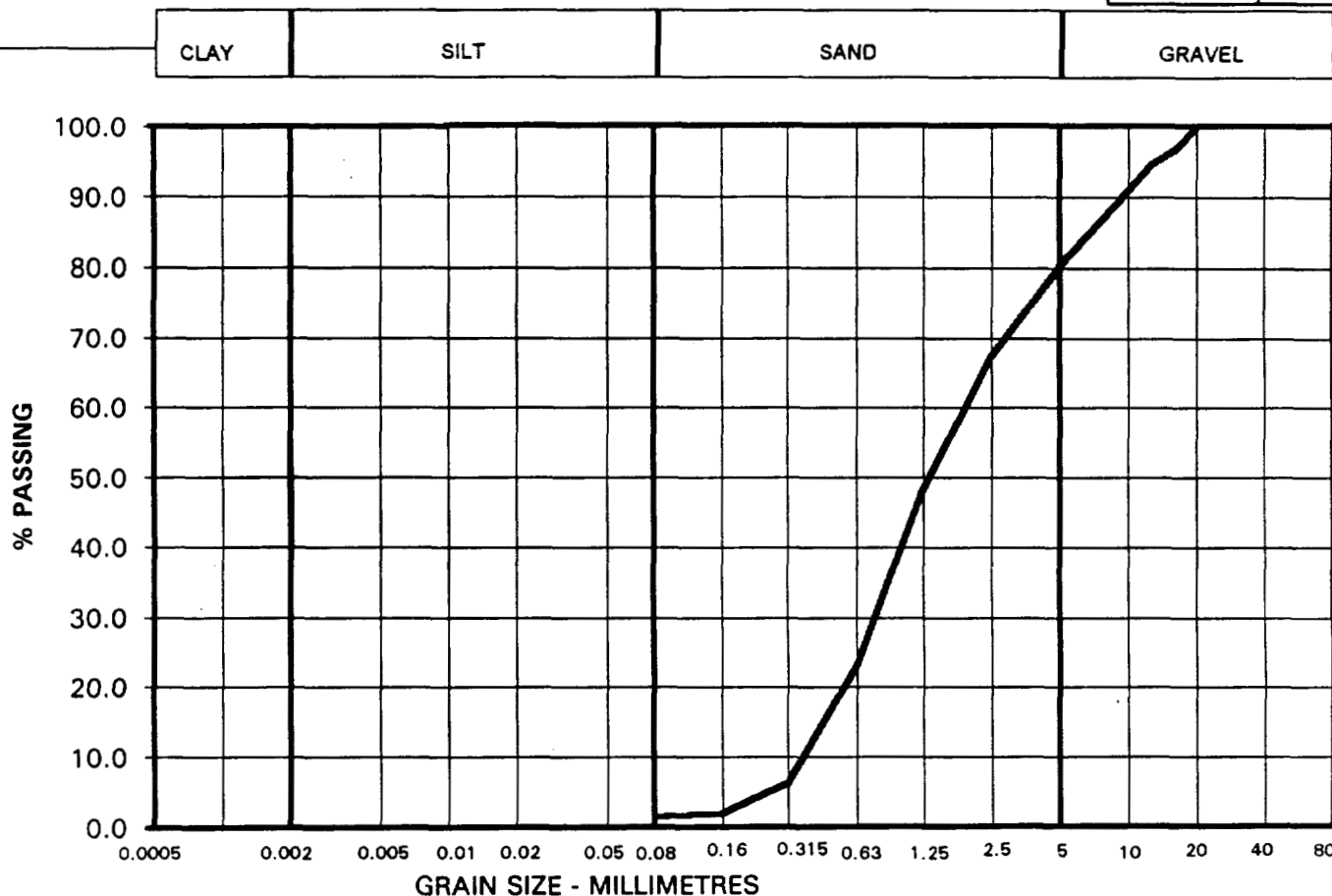
Cu: 5.2 Cc: 0.8

WATER CONTENT: 1.5%

TOTAL MASS: 9414 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	97
12.5	95
10	91
5	80
2.5	67
1.25	48
0.63	23
0.315	6
0.16	2
0.08	1.4

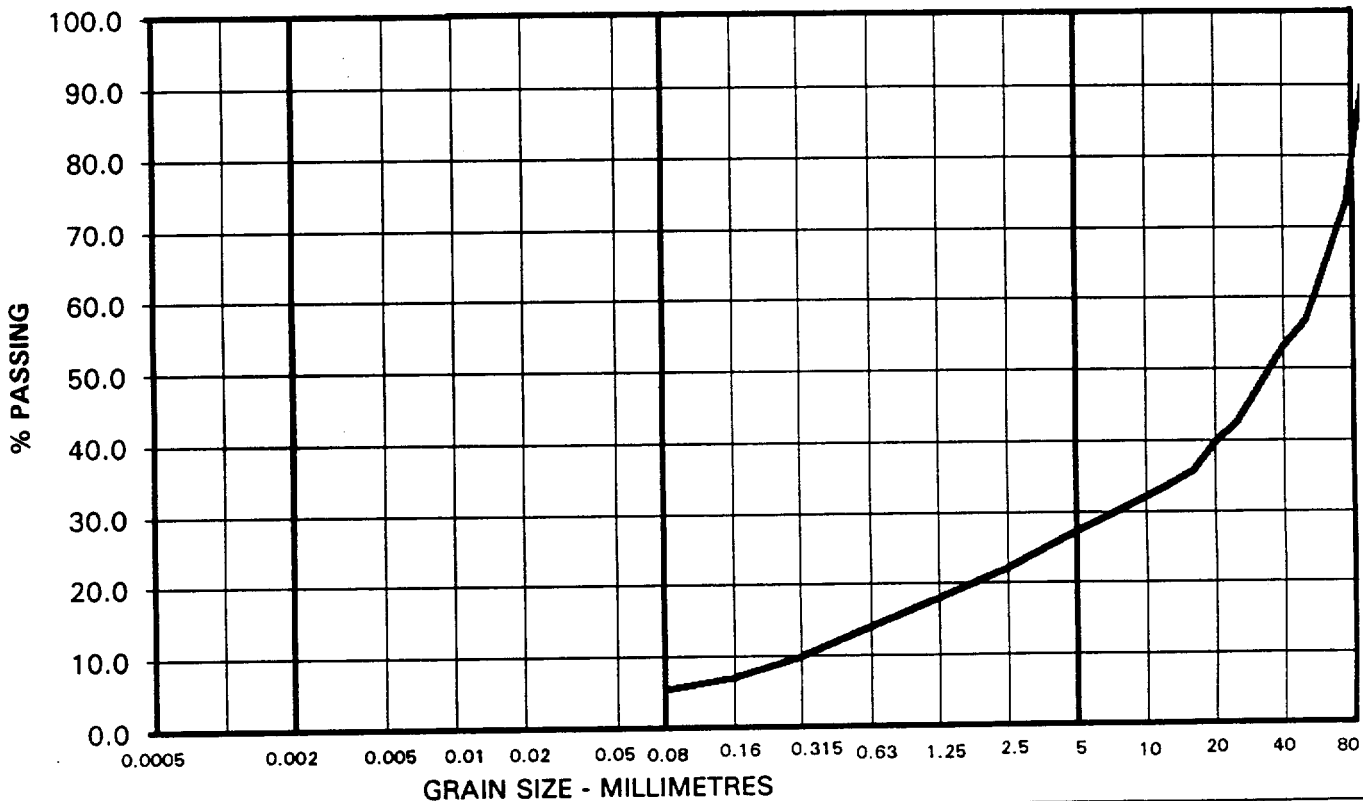


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 04 BY: htEBA Eng.
 TESTPIT NO: d97 random
 DEPTH: 0.15 - 0.4
 SOIL DESCRIPTION GRAVEL(GW), sandy, trace silt,
some organics, subrounded - subangular, yellow-brown.
 Cu: 168.2 Cc: 3.1
 WATER CONTENT: 0.6%
 TOTAL MASS: 8153 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	100
75	73
50	57
40	53
25	43
20	40
16	36
12.5	34
10	32
5	27
2.5	22
1.25	18
0.63	14
0.315	10
0.16	7
0.08	5.4

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

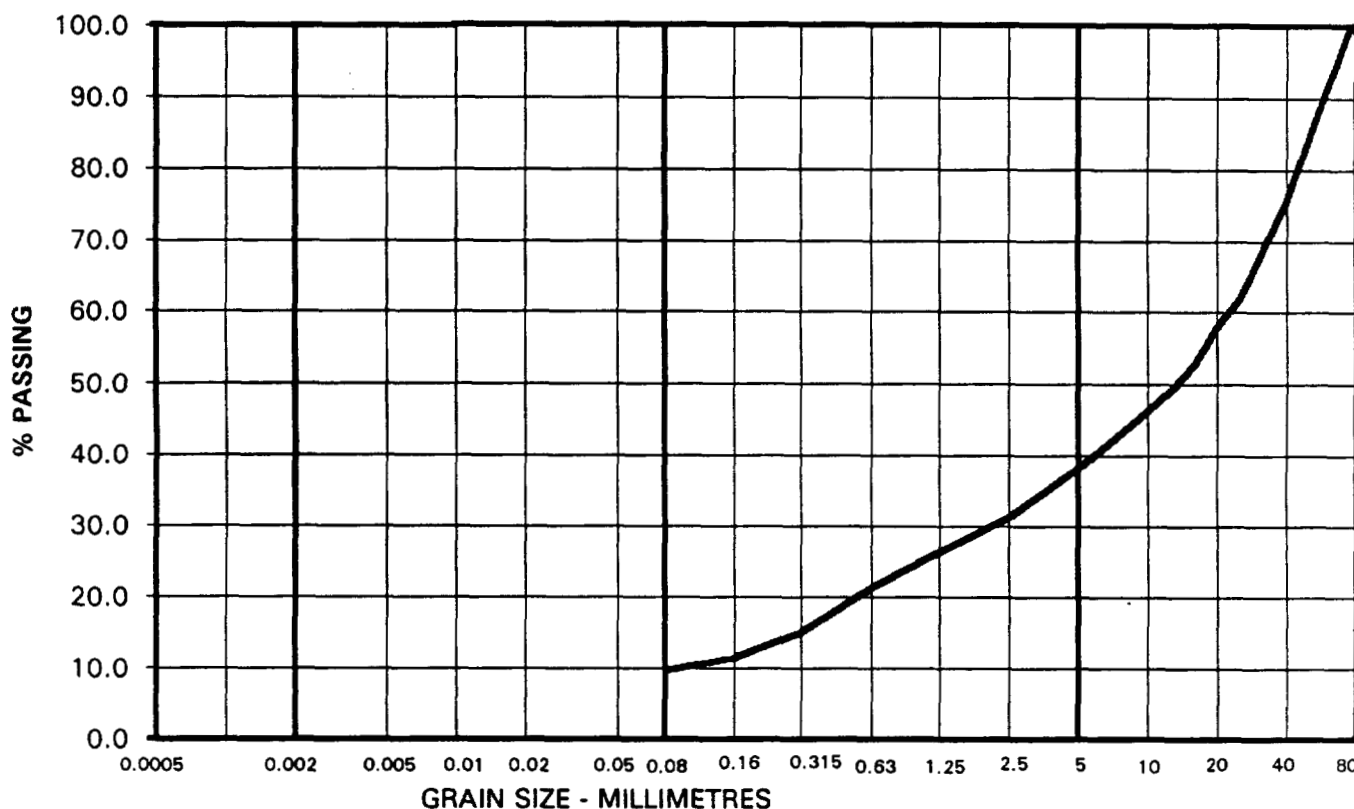
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 04 BY: ht EBA Eng.
 TESTPIT NO: d98 random
 DEPTH: 0.15 - 0.40
 SOIL DESCRIPTION GRAVEL(GW), sandy, trace silt,
some organics, subrounded, yellow-brown.

Cu: 251.0 Cc: 2.2
 WATER CONTENT: 3.2%
 TOTAL MASS: 11498 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	85
40	76
25	62
20	58
16	53
12.5	49
10	46
5	38
2.5	31
1.25	26
0.63	21
0.315	15
0.16	11
0.08	9.7

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 12 BY: ht EBA Eng.

TESTPIT NO: d99 random

DEPTH: 0.15 - 0.40

SOIL DESCRIPTION GRAVEL and SAND(GW - SW), trace silt,
trace organics, subrounded, light brown.

Cu: 96.1 Cc: 2.1

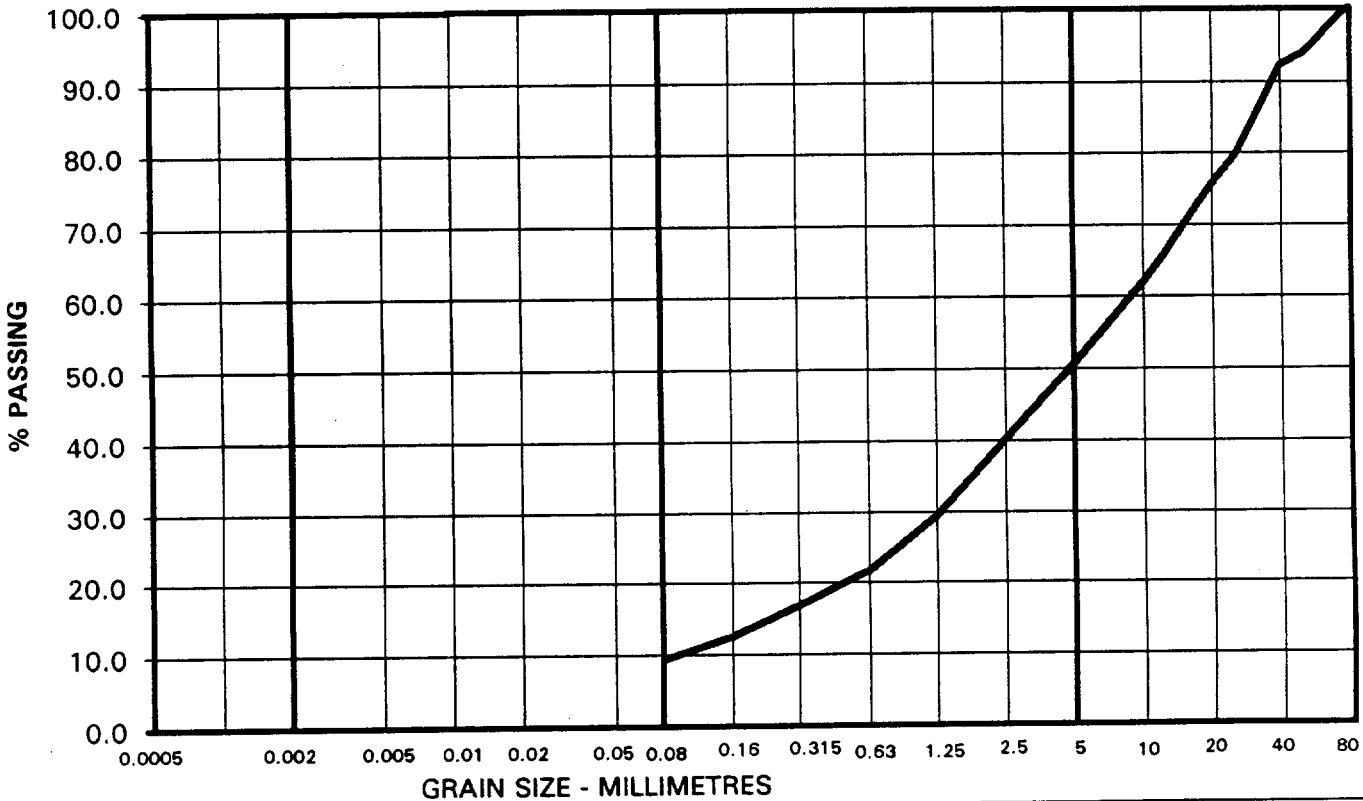
WATER CONTENT: 2.0%

TOTAL MASS: 8210 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	94
40	92
25	80
20	76
16	71
12.5	66
10	62
5	51
2.5	40
1.25	29
0.63	22
0.315	17
0.16	13
0.08	9.4

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

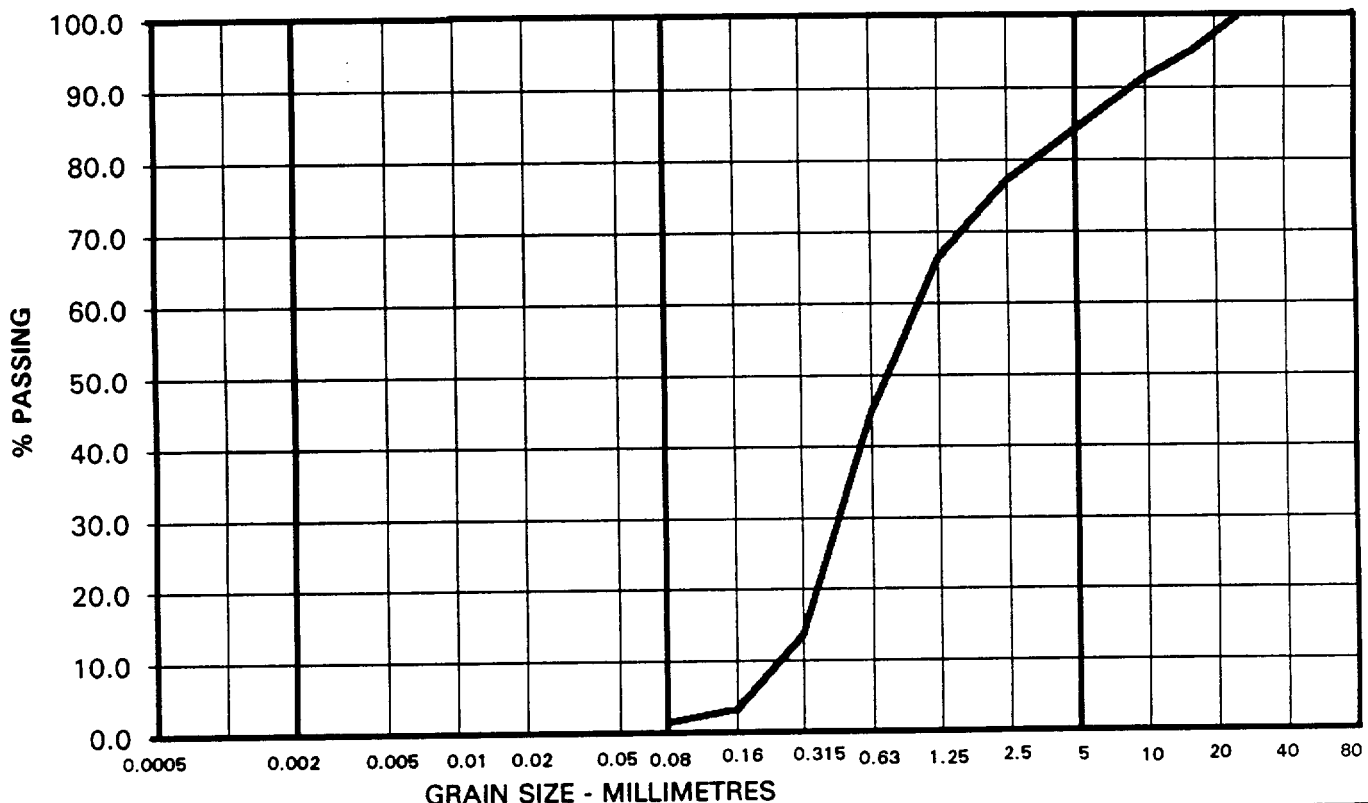
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 04 BY: ht EBA Eng.
 TESTPIT NO: d100 random
 DEPTH: 0.15 - 0.50
 SOIL DESCRIPTION SAND(SP), some gravel, trace silt,
some organics, subrounded, medium brown.

Cu: 4.1 Cc: 0.8
 WATER CONTENT: 1.1%
 TOTAL MASS: 7767 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	98
16	95
12.5	93
10	91
5	84
2.5	77
1.25	66
0.63	45
0.315	14
0.16	3
0.08	1.4

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 08 BY: ht EBA Eng.
 TESTPIT NO: d101d
 DEPTH: 0.15 - 0.75
 SOIL DESCRIPTION SAND(SP), trace silt,
some organics, subrounded, dark brown.

Cu: 3.8 Cc: 1.1

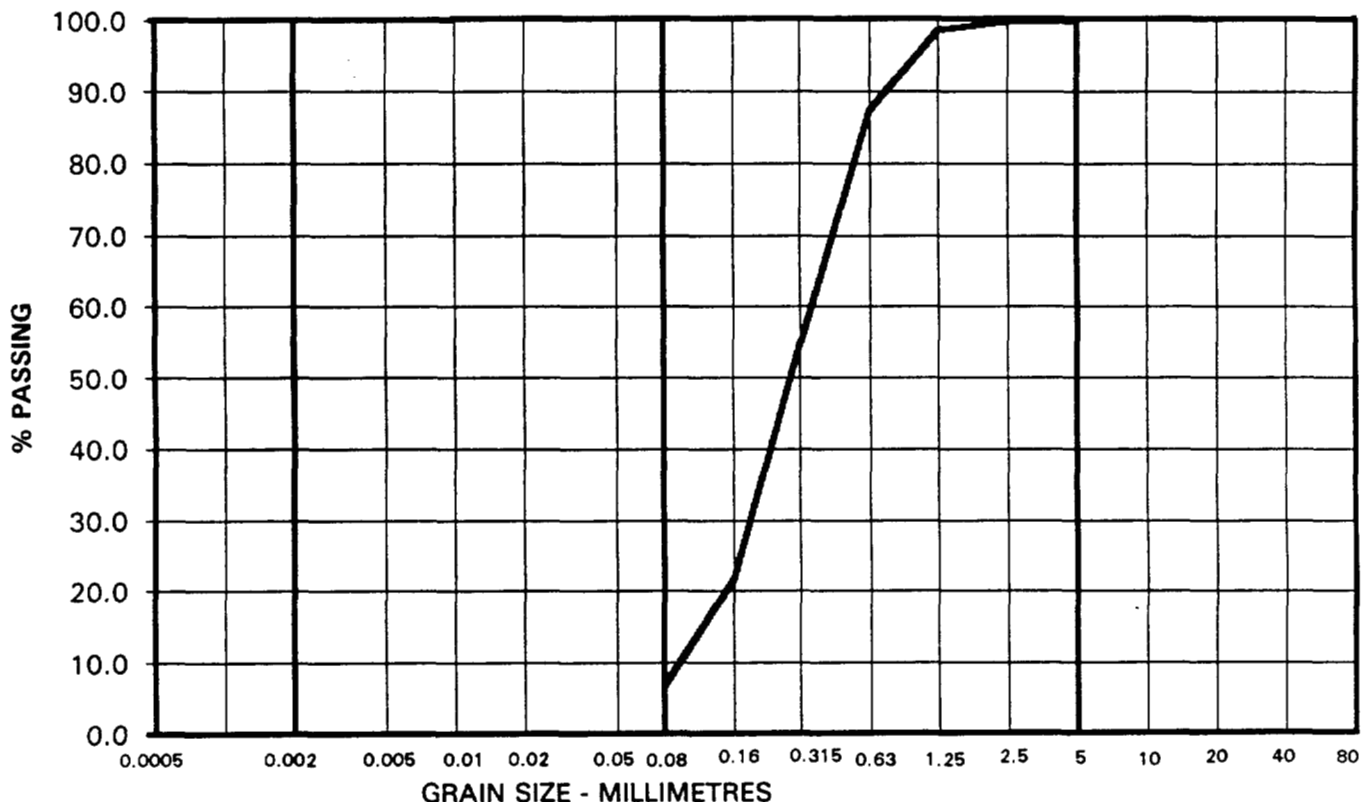
WATER CONTENT: 9.1%

TOTAL MASS: 4814 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	99
0.63	87
0.315	55
0.16	22
0.08	6.7

CLAY	SILT	SAND	GRAVEL
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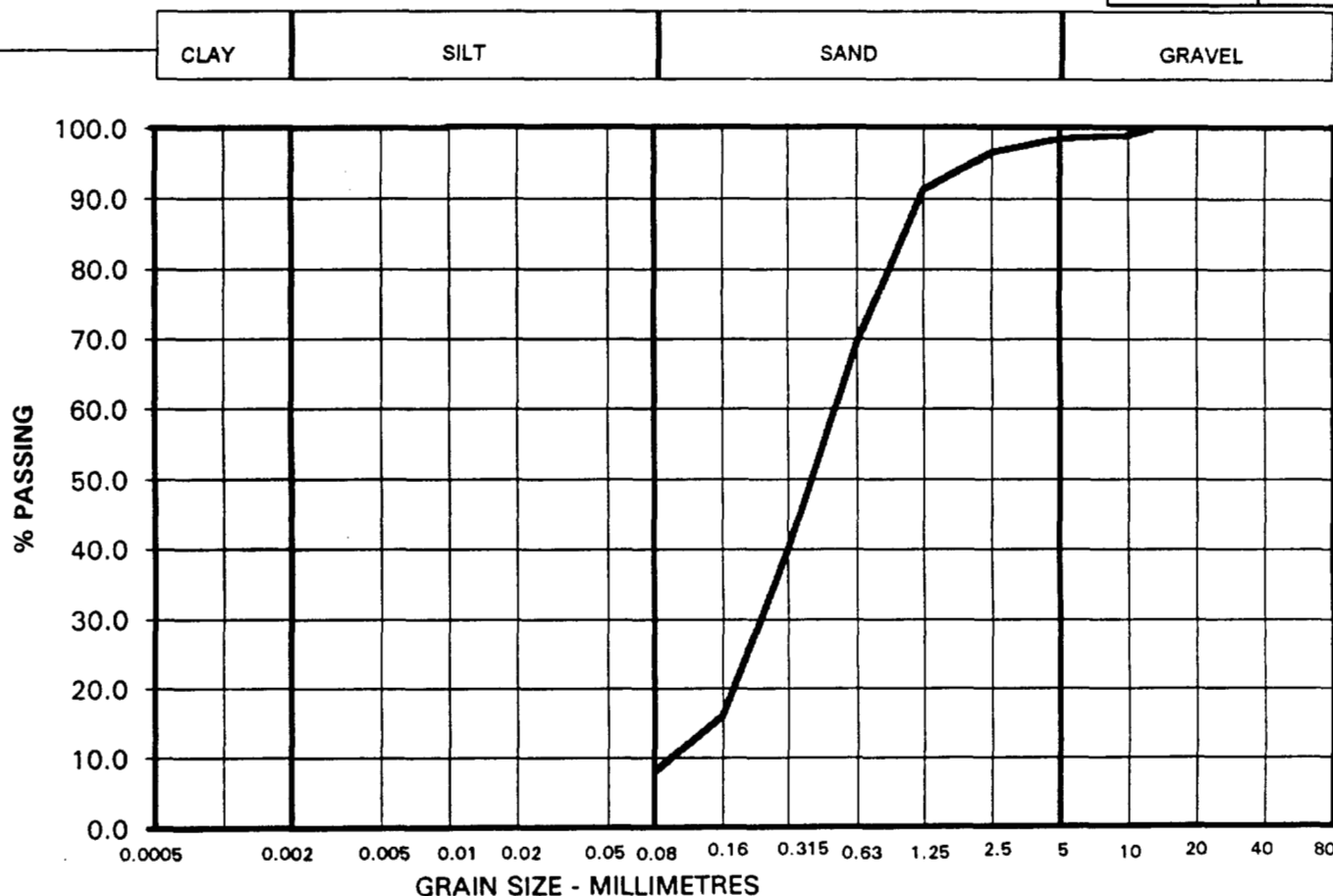
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 08 BY: ht EBA Eng.
 TESTPIT NO: d101gc
 DEPTH: 0.15 - 0.60
 SOIL DESCRIPTION SAND(SP), trace silt, trace gravel,
trace organics, subrounded, dark brown.

Cu: 5.3 Cc: 1.2
 WATER CONTENT: 9.5%
 TOTAL MASS: 6166 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	99
5	99
2.5	97
1.25	91
0.63	69
0.315	40
0.16	16
0.08	8.1

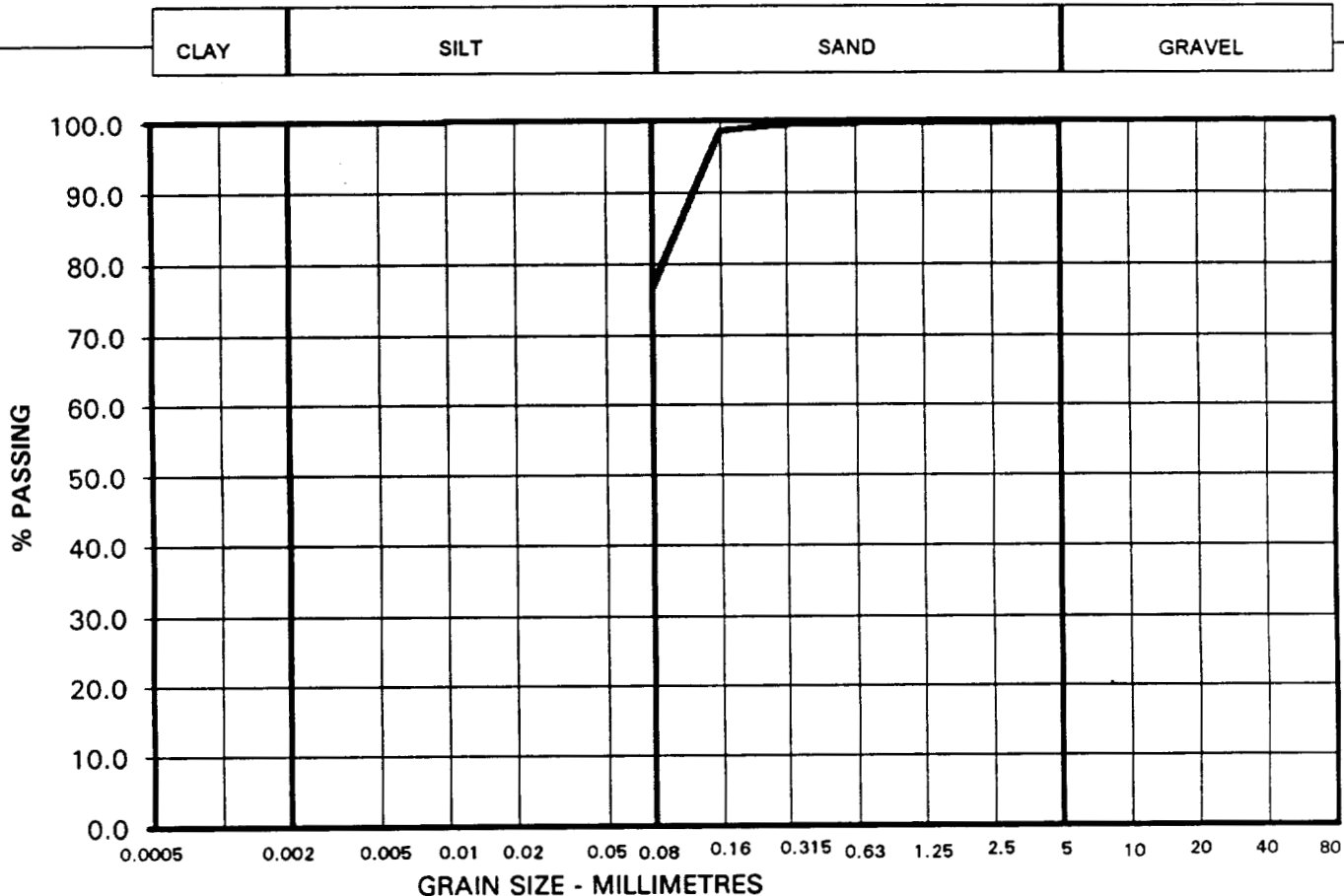


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 12 BY: ht EBA Eng.
 TESTPIT NO: d102d
 DEPTH: 0.15 - 0.75
 SOIL DESCRIPTION SILT(ML), sandy,
trace organics, light grey.

Cu: _____ Cc: _____
 WATER CONTENT: 11.7%
 TOTAL MASS: 7410 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	100
0.63	100
0.315	100
0.16	99
0.08	76.7



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 06 BY: ht EBA Eng.
 TESTPIT NO: d102gc
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SM), some silt, trace gravel,
some organicis, fine-grained, uniform, light brown.

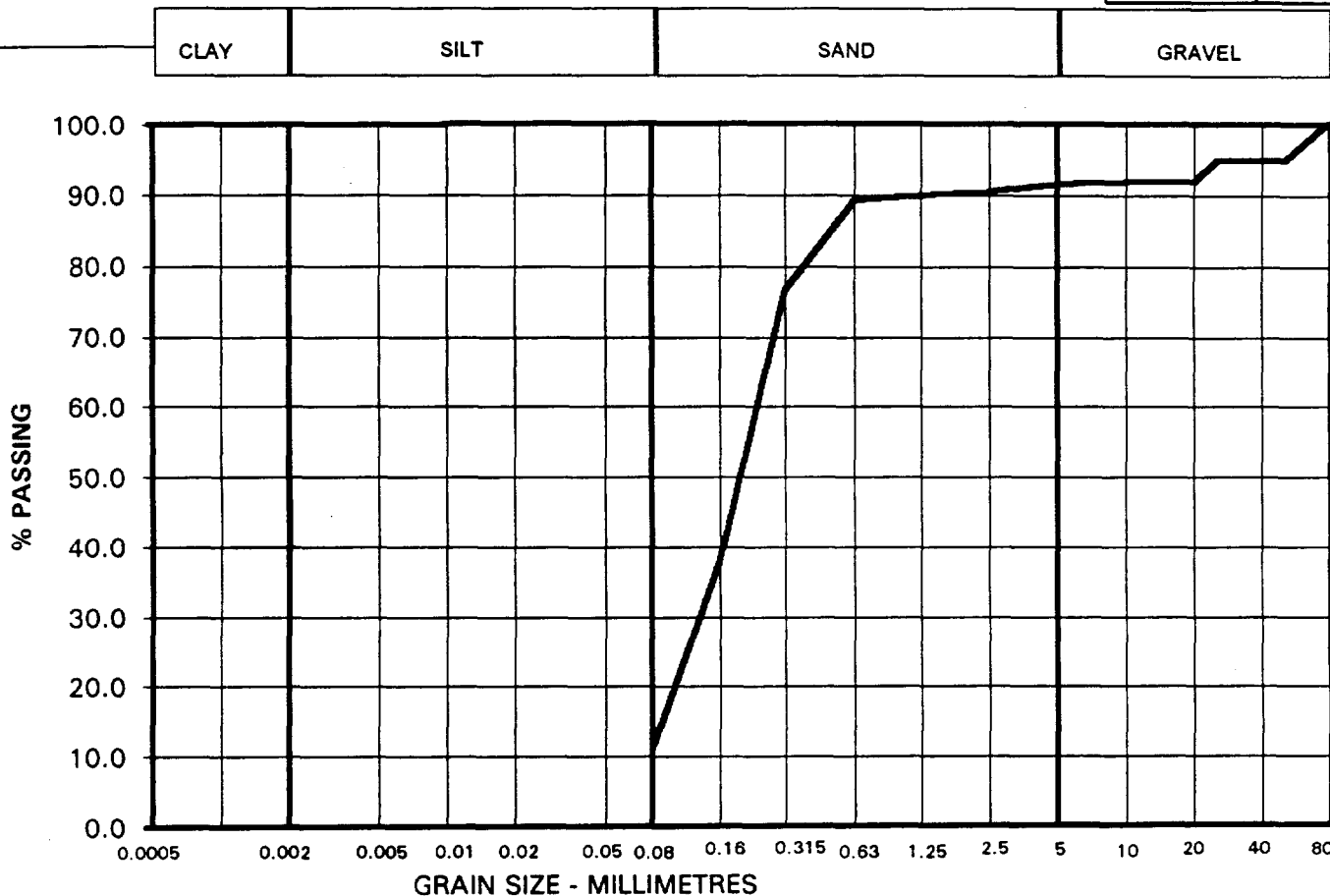
Cu: _____ Cc: _____

WATER CONTENT: 9.0%

TOTAL MASS: 6657 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	95
40	95
25	95
20	92
16	92
12.5	92
10	92
5	92
2.5	90
1.25	90
0.63	89
0.315	77
0.16	38
0.08	11.0



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 13 BY: ht EBA Eng.
 TESTPIT NO: d103d
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SM), some silt, some gravel,
subangular - subrounded, light brown.

Cu: _____ Cc: _____

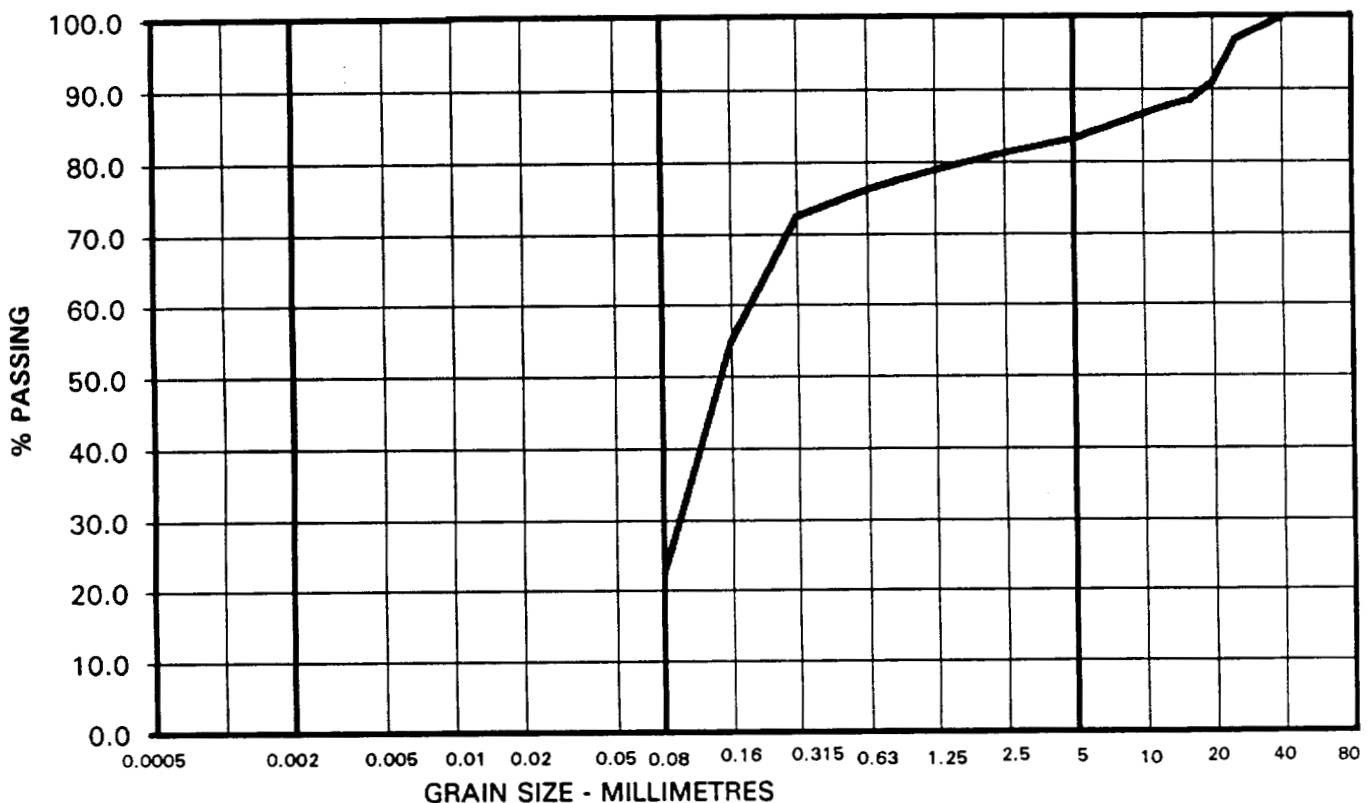
WATER CONTENT: 4.9%

TOTAL MASS: 7850 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	97
20	91
16	89
12.5	88
10	87
5	83
2.5	81
1.25	79
0.63	76
0.315	72
0.16	55
0.08	22.3

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 09 10 BY: tk EBA Eng.

TESTPIT NO: d103G/C

DEPTH: 0.15 - 0.60

SOIL DESCRIPTION SAND and GRAVEL(SW - GW), trace silt,
subangular - subrounded, light brown.

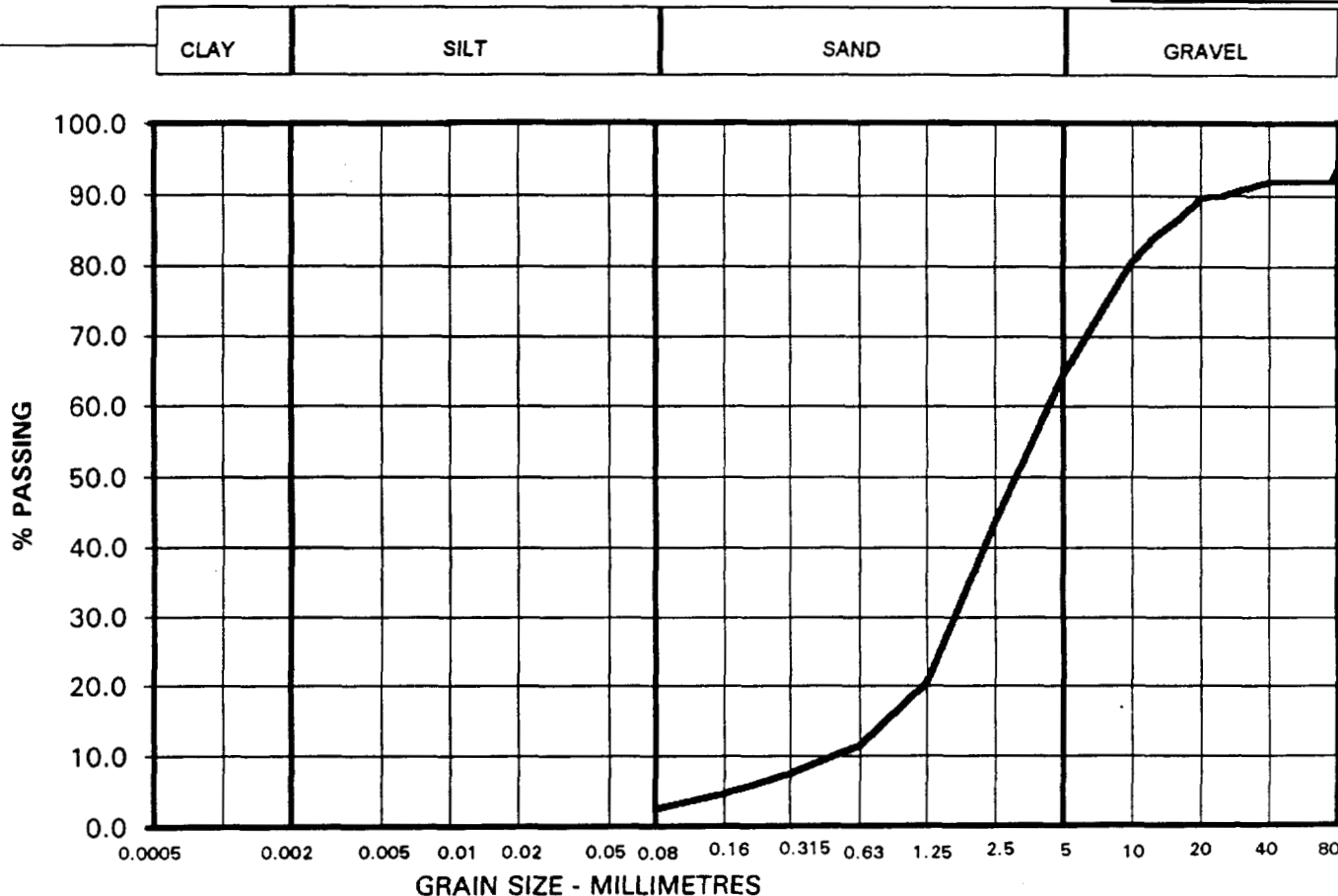
Cu: 8.7 Cc: 1.3

WATER CONTENT: 2.4%

TOTAL MASS: 9021 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	100
75	92
50	92
40	92
25	90
20	90
16	87
12.5	84
10	81
5	65
2.5	44
1.25	20
0.63	11
0.315	7
0.16	5
0.08	2.5



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 12 BY: ht EBA Eng.
TESTPIT NO: d104d
DEPTH: 0.15 - 0.80
SOIL DESCRIPTION SAND and SILT(SM-ML),
some organics, grey.

Cu: _____ Cc: _____

WATER CONTENT: 1.5%

TOTAL MASS: 8809 Grams

REMARKS: _____

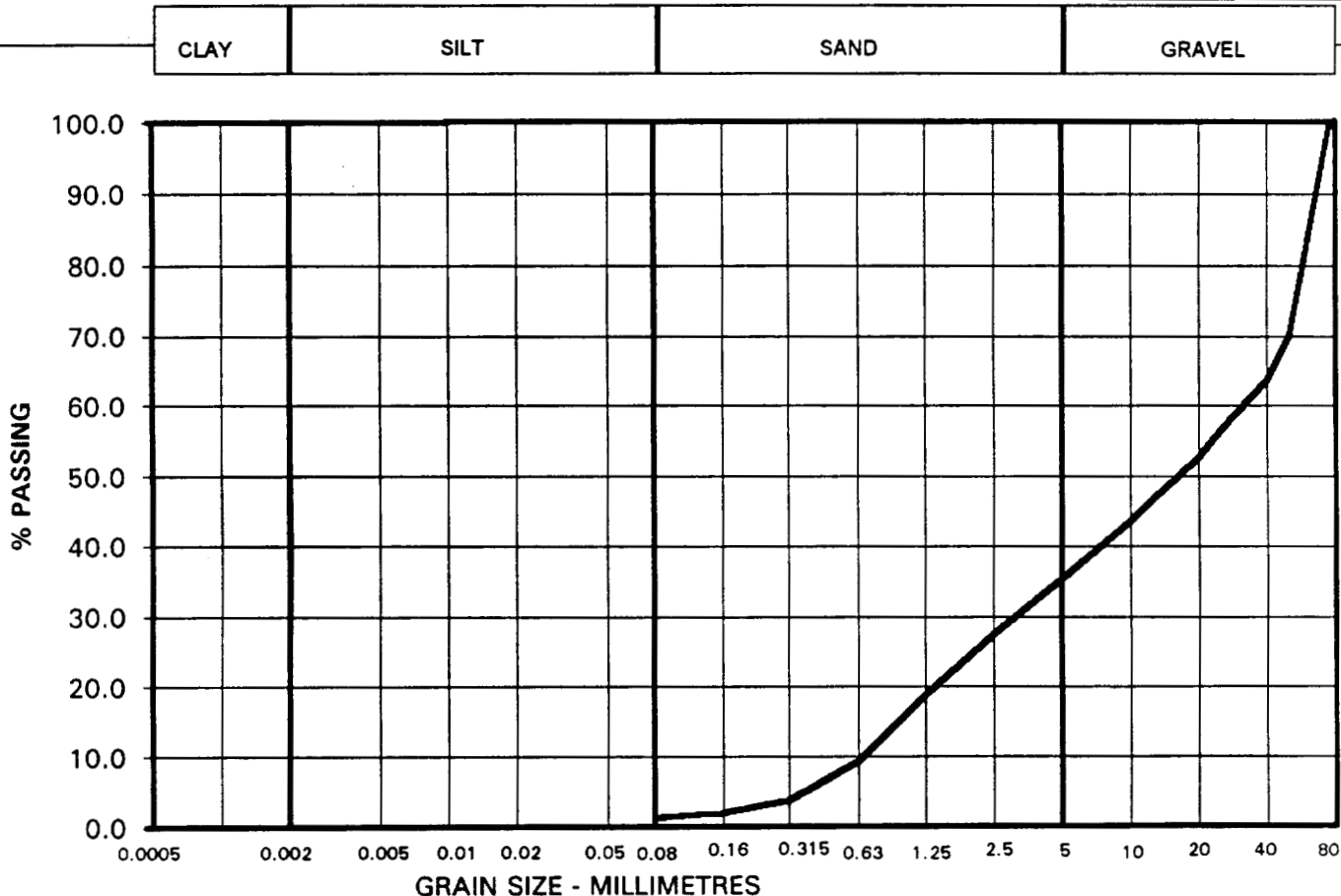
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	100
12.5	100
10	100
5	99
2.5	97
1.25	93
0.63	85
0.315	76
0.16	62
0.08	35.0



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 12 BY: ht EBA Eng.
 TESTPIT NO: d104gc
 DEPTH: 0.15 - 0.50
 SOIL DESCRIPTION GRAVEL(GP), sandy, trace silt,
trace organicas, subrounded, grey-brown.
 Cu: 27.9 Cc: 0.3
 WATER CONTENT: 1.1%
 TOTAL MASS: 12920 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	70
40	64
25	57
20	53
16	50
12.5	47
10	44
5	35
2.5	27
1.25	19
0.63	9
0.315	4
0.16	2
0.08	1.1



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 21 BY: htEBA Eng.
TESTPIT NO: d105gc
DEPTH: 0.15 - 0.60
SOIL DESCRIPTION SAND(SM), silty, trace gravel,
trace organics, subrounded, medium brown.

Cu: _____ Cc: _____

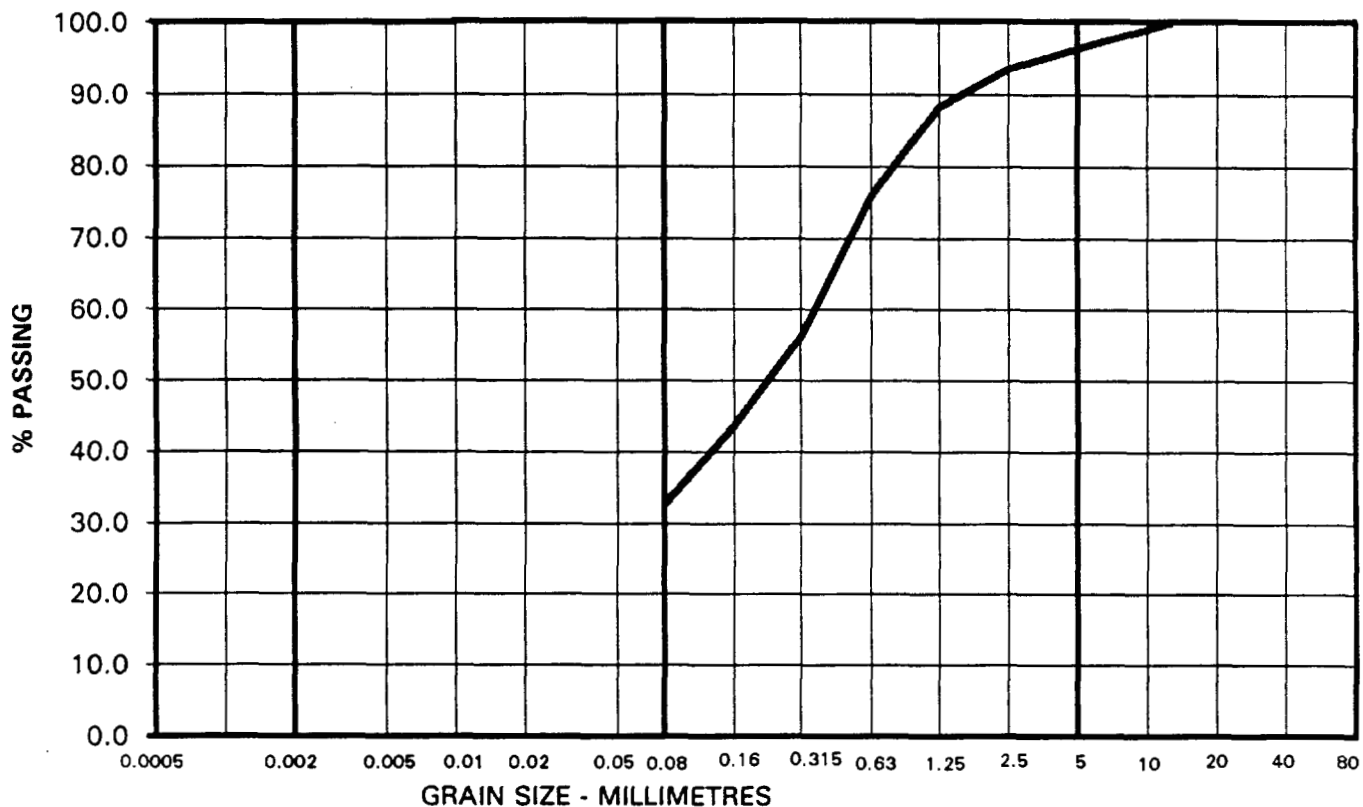
WATER CONTENT: 7.4%

TOTAL MASS: 4971 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	99
5	97
2.5	93
1.25	88
0.63	76
0.315	56
0.16	44
0.08	32.6

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

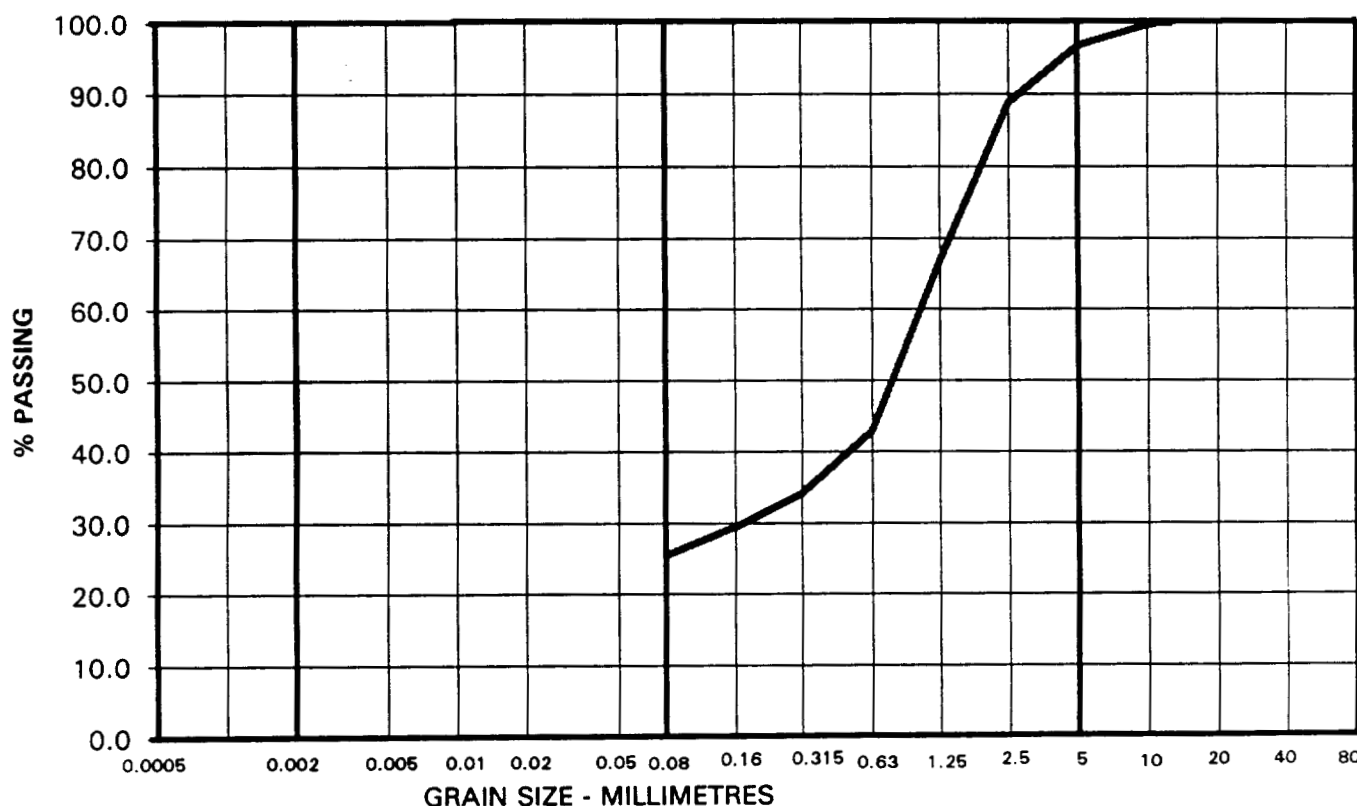
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 06 BY: htEBA Eng.
 TESTPIT NO: d105 d
 DEPTH: 0.15 - 0.7
 SOIL DESCRIPTION SAND(SM), silty, trace gravel,
trace organics, subangular, medium brown.

Cu: _____ Cc: _____
 WATER CONTENT: 6.1%
 TOTAL MASS: 9101 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	100
5	97
2.5	89
1.25	67
0.63	43
0.315	34
0.16	29
0.08	25.5

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 12 BY: ht EBA Eng.
 TESTPIT NO: d106d
 DEPTH: 0.15 - 0.68
 SOIL DESCRIPTION SAND(SM), some silt,
some organics, subrounded, medium brown.

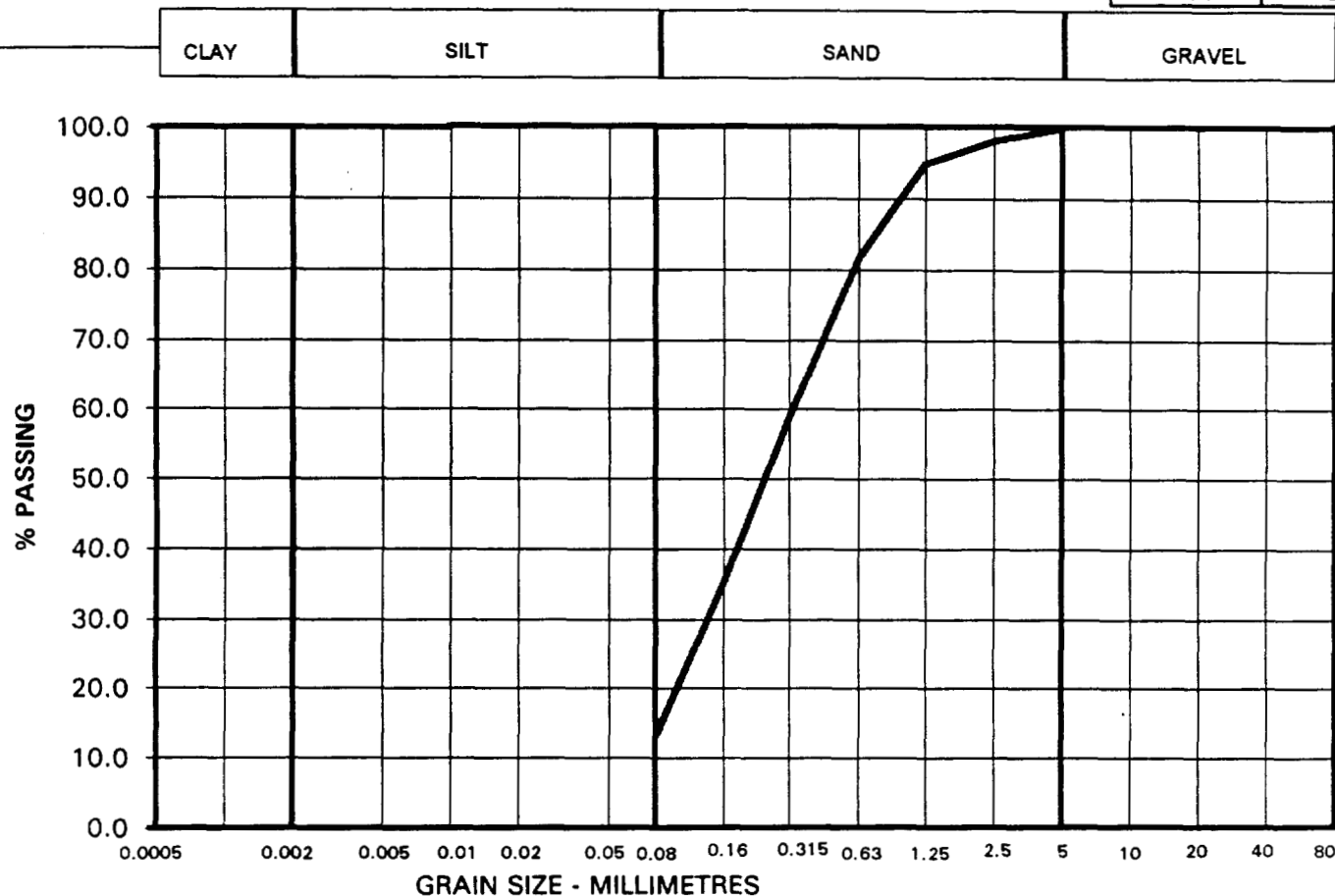
Cu: _____ Cc: _____

WATER CONTENT: 1.2%

TOTAL MASS: 5849 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	98
1.25	95
0.63	82
0.315	59
0.16	35
0.08	13.0



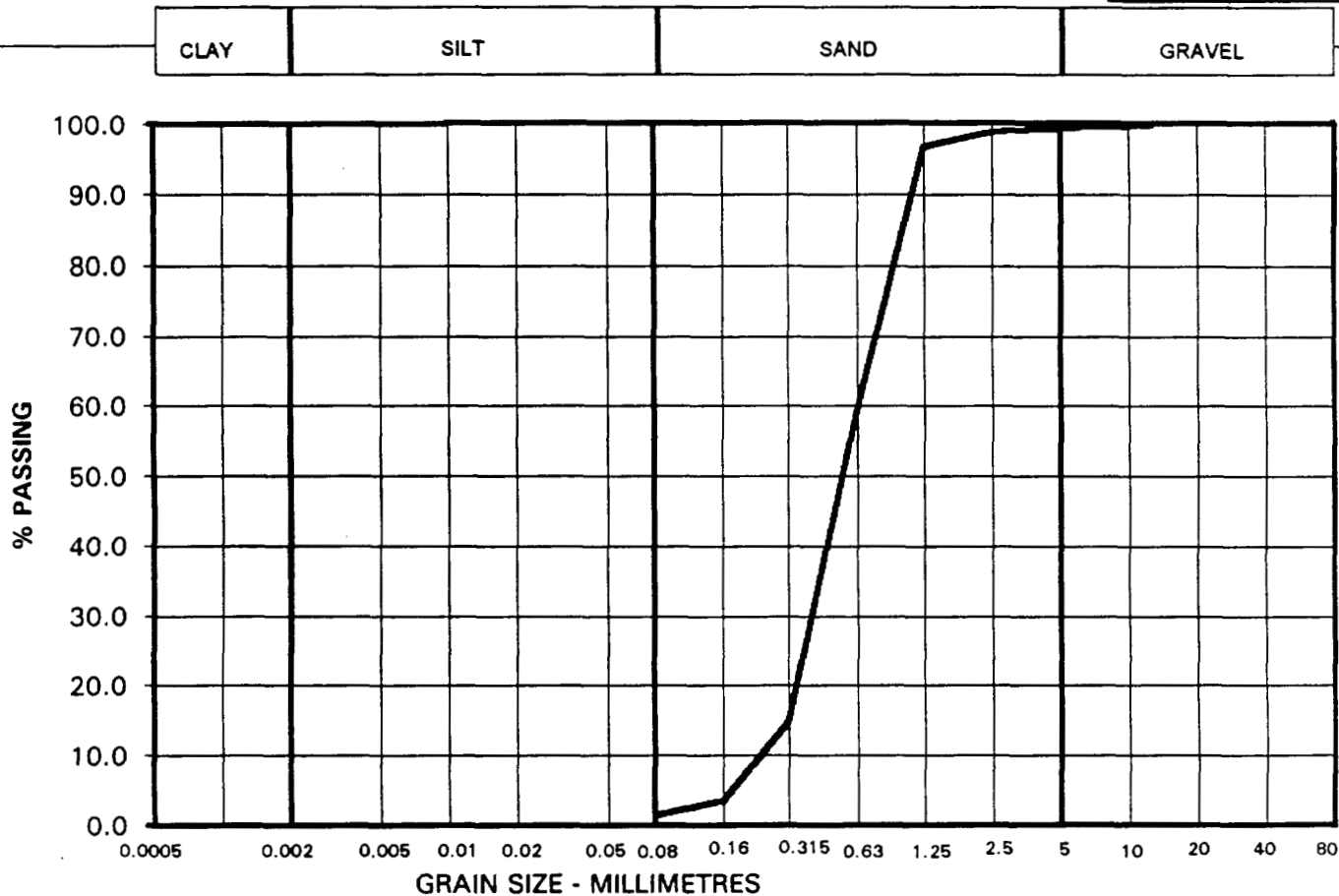
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 08 BY: htEBA Eng.
 TESTPIT NO: d106 gc
 DEPTH: 0.15 - 0.7
 SOIL DESCRIPTION SAND(SP), trace silt,
trace organics, subrounded, light brown.

Cu: 2.7 Cc: 1.1
 WATER CONTENT: 1.9%
 TOTAL MASS: 4948 Grams

REMARKS: _____

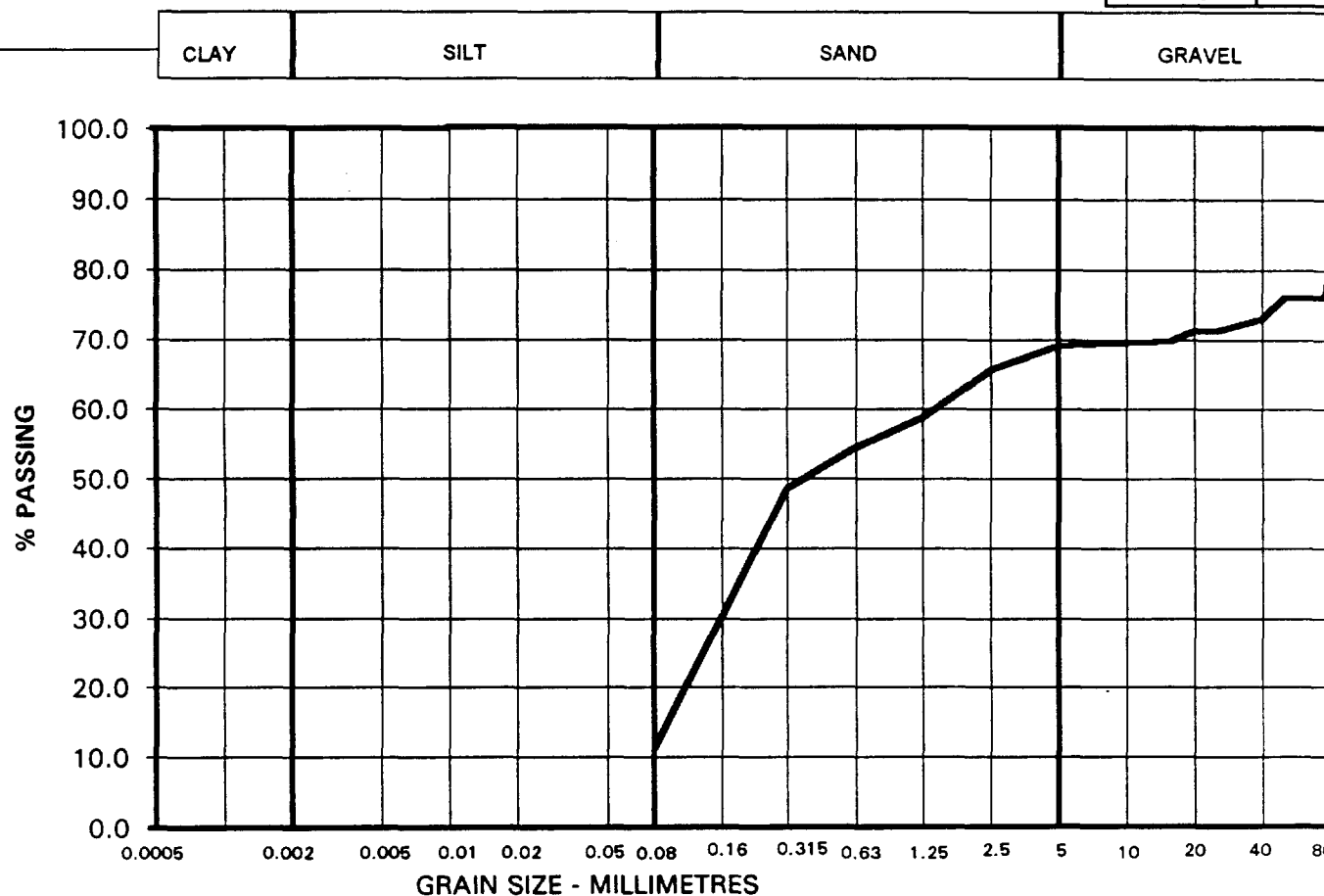
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	100
5	99
2.5	99
1.25	97
0.63	60
0.315	15
0.16	4
0.08	1.5



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 15 BY: ht EBA Eng.
 TESTPIT NO: d107d
 DEPTH: 0.15 - 0.45
 SOIL DESCRIPTION SAND(SM), gravelly, some silt,
trace organics, subrounded, medium brown.
 Cu: _____ Cc: _____
 WATER CONTENT: 3.8%
 TOTAL MASS: 5377 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	100
75	76
50	76
40	73
25	71
20	71
16	70
12.5	70
10	70
5	69
2.5	66
1.25	59
0.63	54
0.315	49
0.16	30
0.08	11.3



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 10 08 BY: htEBA Eng.

TESTPIT NO: d107gc

DEPTH: 0.15 - 0.5

SOIL DESCRIPTION SAND(SP), some gravel, trace silt,
some organics, subrounded, dark brown.

Cu: 2.0 Cc: 0.7

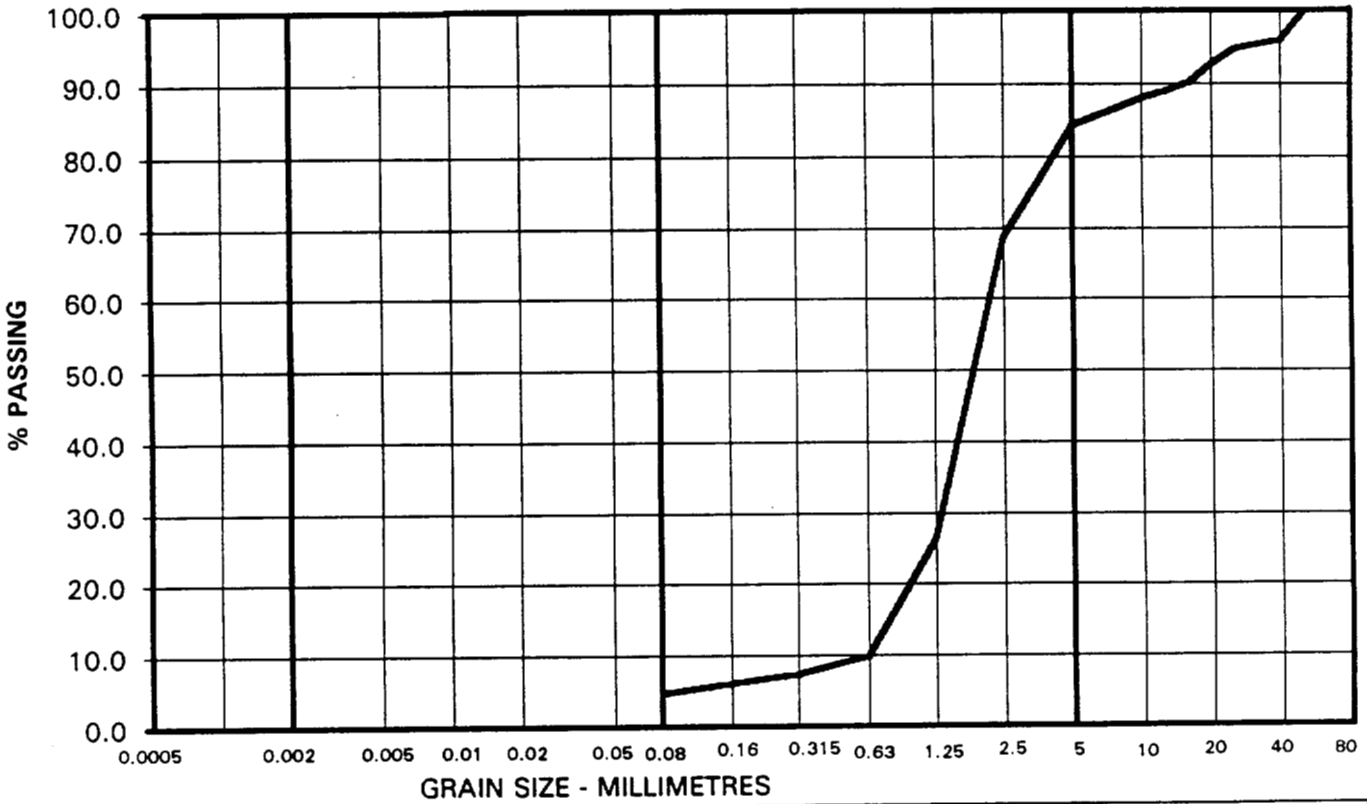
WATER CONTENT: 11.3%

TOTAL MASS: 7011 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	96
25	95
20	93
16	90
12.5	89
10	88
5	84
2.5	69
1.25	26
0.63	10
0.315	7
0.16	6
0.08	4.6

CLAY	SILT	SAND	GRAVEL
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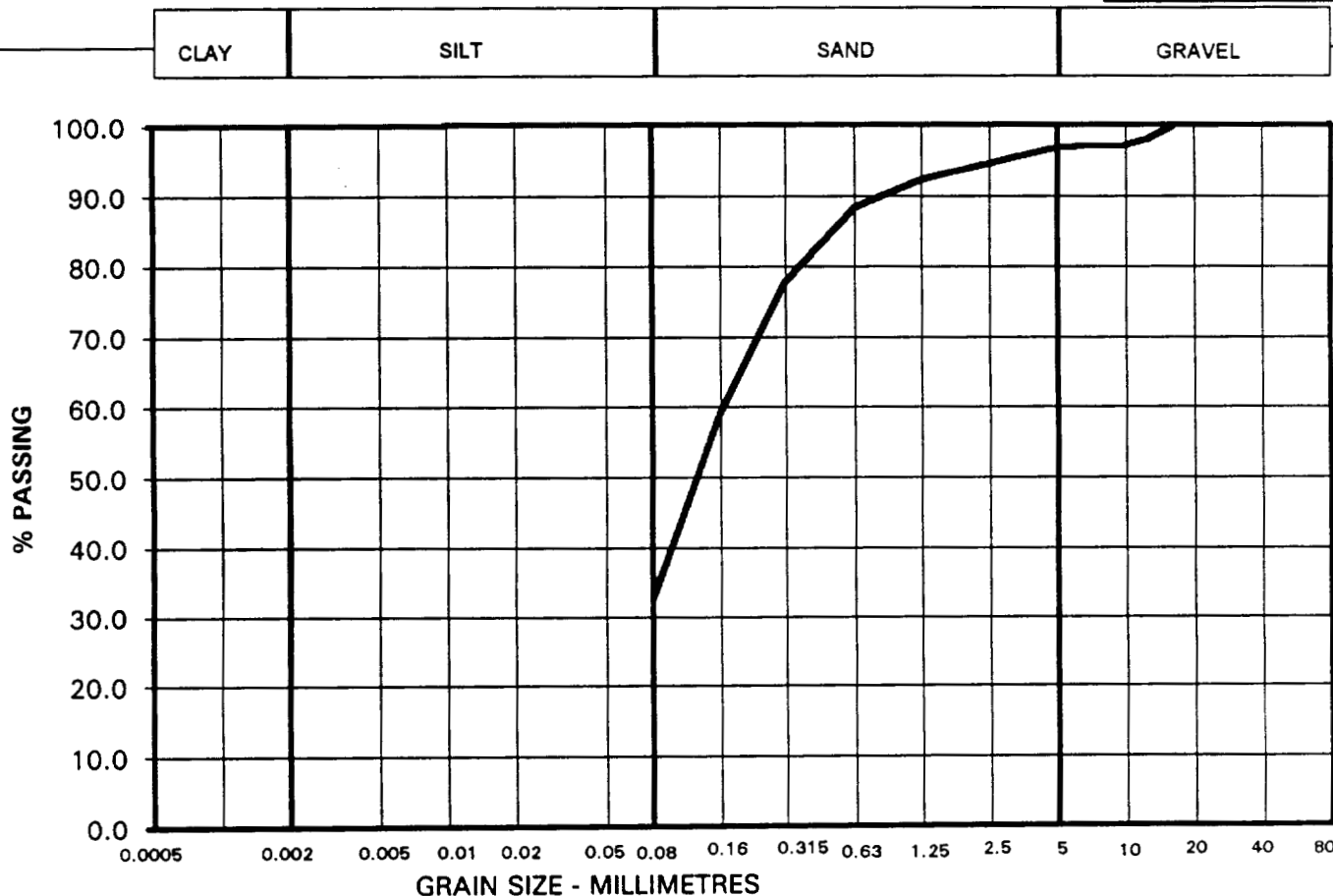
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 09 12 BY: ht EBA Eng.
 TESTPIT NO: d108d
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SM), silty, trace gravel,
trace organics, subrounded, light brown.

Cu: _____ Cc: _____
 WATER CONTENT: 8.6%
 TOTAL MASS: 4770 Grams

REMARKS: _____

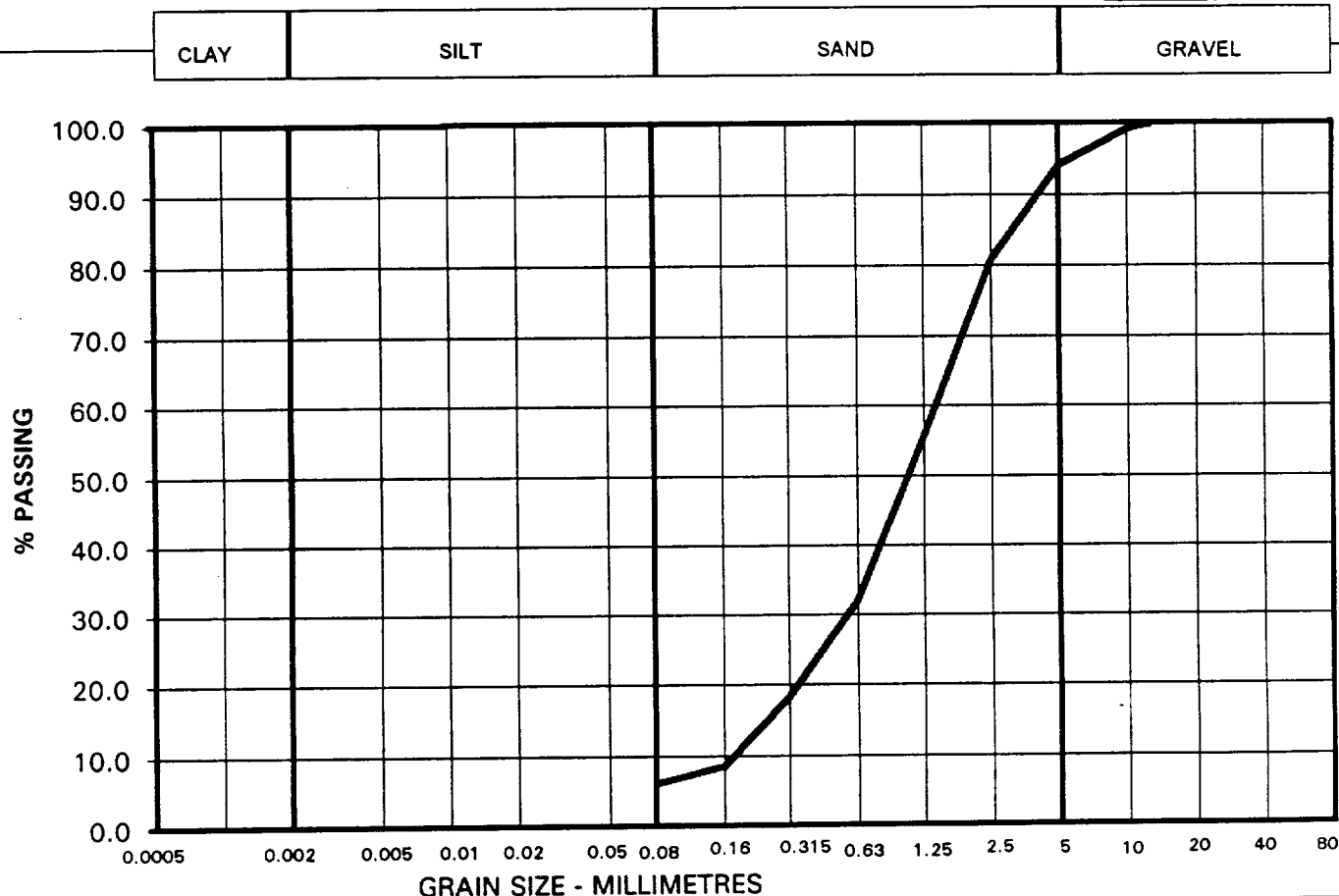
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	98
10	97
5	97
2.5	95
1.25	92
0.63	88
0.315	78
0.16	59
0.08	32.7



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 08 BY: htEBA Eng.
 TESTPIT NO: d108gc
 DEPTH: 0.15 - 0.6
 SOIL DESCRIPTION SAND(SW), trace silt, trace gravel,
some organics, subangular, dark brown.
 Cu: 8.0 Cc: 1.3
 WATER CONTENT: 4.1%
 TOTAL MASS: 6424 Grams
 REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	99
5	94
2.5	81
1.25	56
0.63	32
0.315	18
0.16	9
0.08	6.0



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 10 06 BY: htEBA Eng.
TESTPIT NO: d109d
DEPTH: 0.15 - 0.7
SOIL DESCRIPTION SAND(SM), silty, trace gravel,
some organics, subangular, light brown.

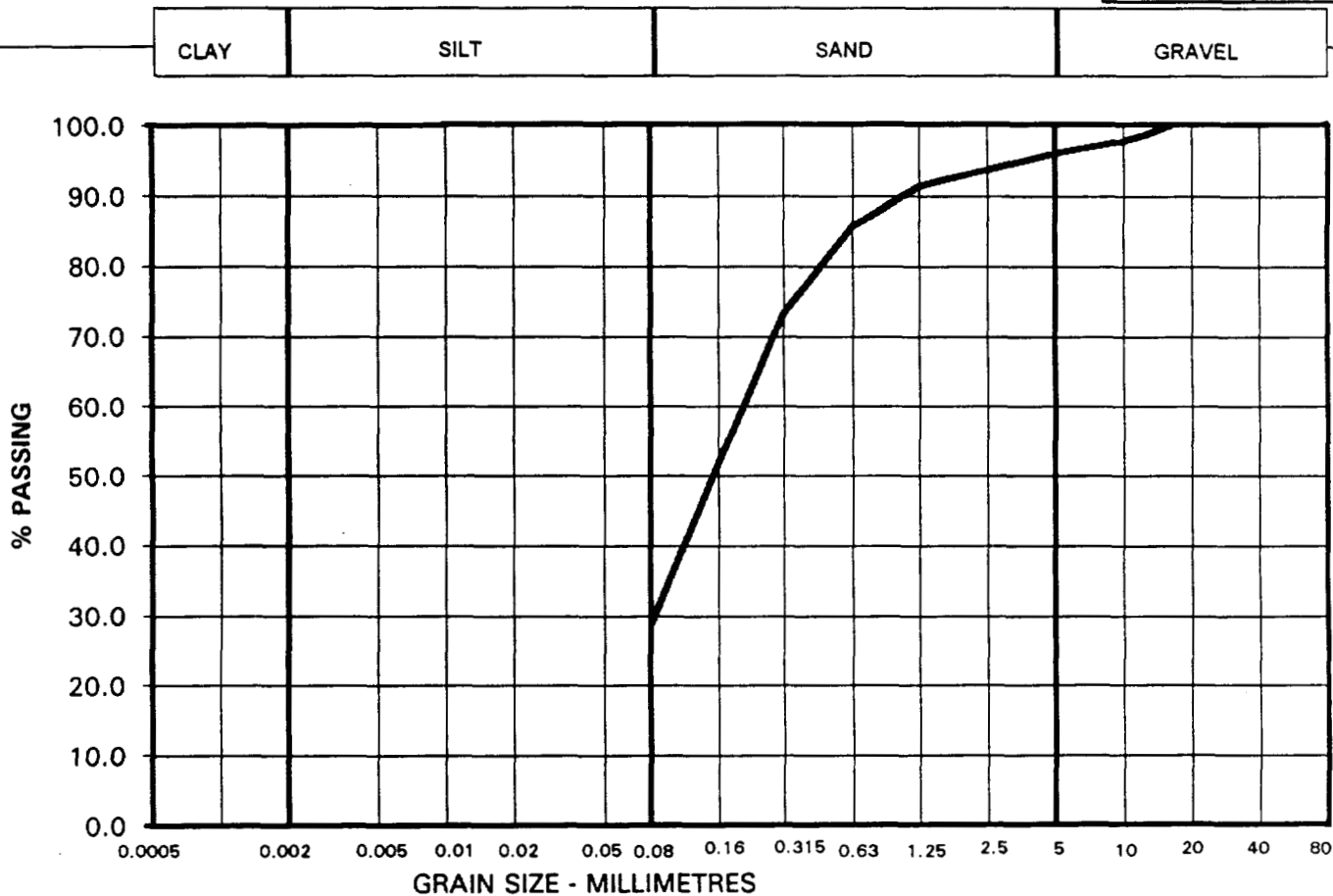
Cu: _____ Cc: _____

WATER CONTENT: 3.9%

TOTAL MASS: 4612 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	99
10	98
5	96
2.5	94
1.25	91
0.63	86
0.315	73
0.16	52
0.08	28.7



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 08 BY: htEBA Eng.
 TESTPIT NO: d109gc
 DEPTH: 0.15 - 0.75
 SOIL DESCRIPTION SAND and SILT(SM - ML).
some organics, fine-grained, uniform, dark brown.

Cu: _____ Cc: _____

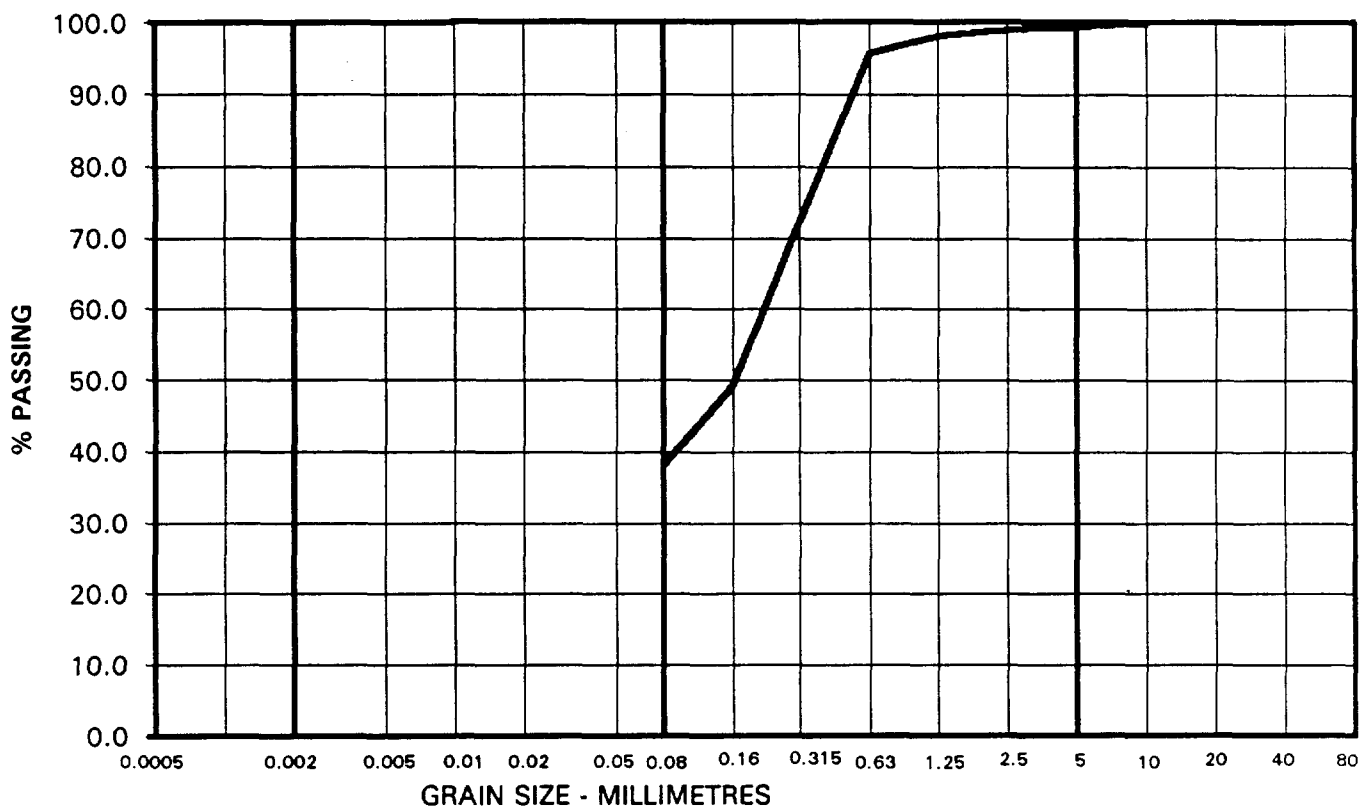
WATER CONTENT: 12.3%

TOTAL MASS: 4549 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	99
1.25	98
0.63	96
0.315	72
0.16	49
0.08	38.2

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 10 08 BY: htEBA Eng.

TESTPIT NO: d110d

DEPTH: 0.15 - 0.56

SOIL DESCRIPTION SAND(SM), silty, some gravel,
some organics, subrounded, medium brown.

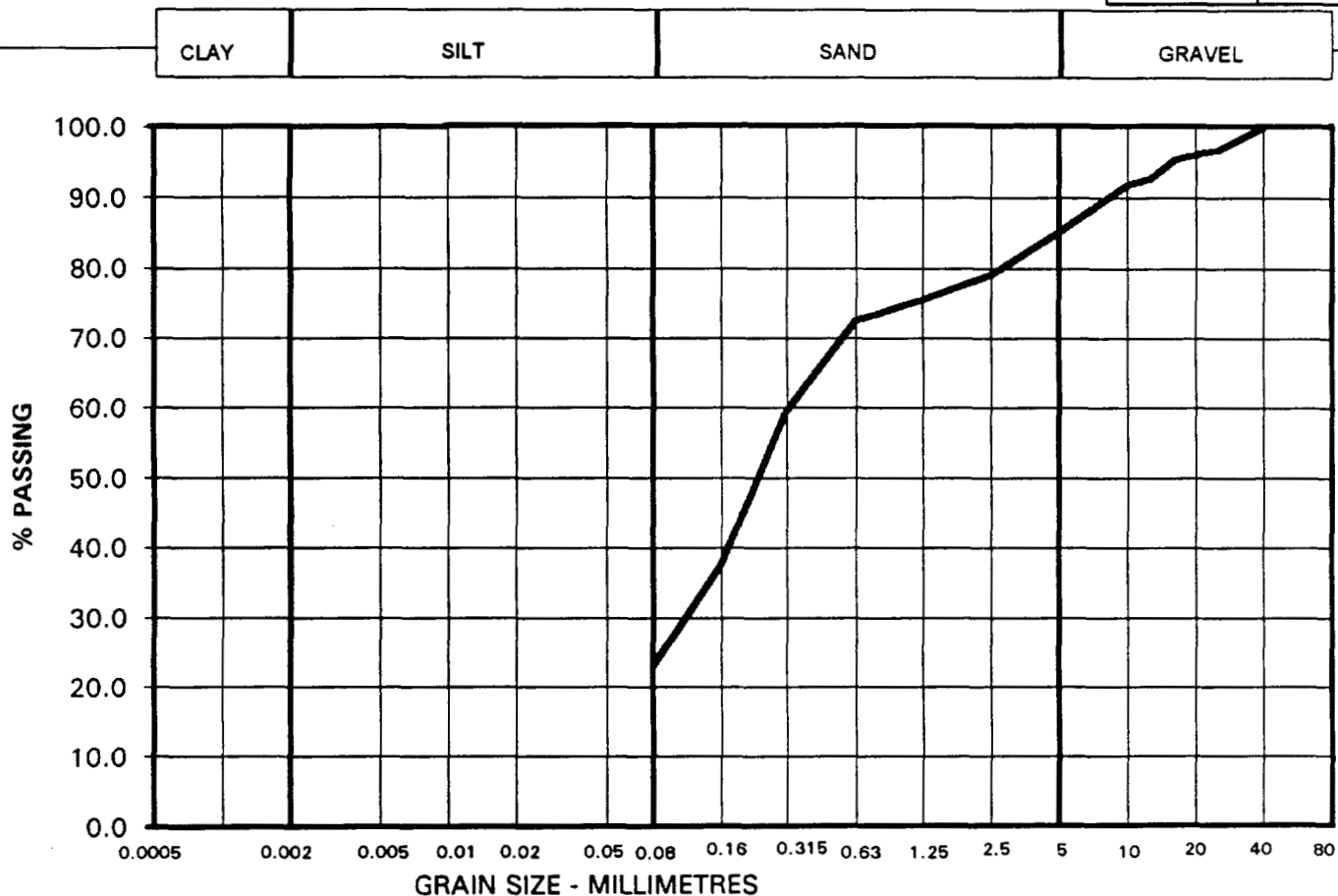
Cu: _____ Cc: _____

WATER CONTENT: 5.1%

TOTAL MASS: 4704 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	100
25	97
20	96
16	95
12.5	93
10	92
5	85
2.5	79
1.25	75
0.63	72
0.315	60
0.16	38
0.08	23.1

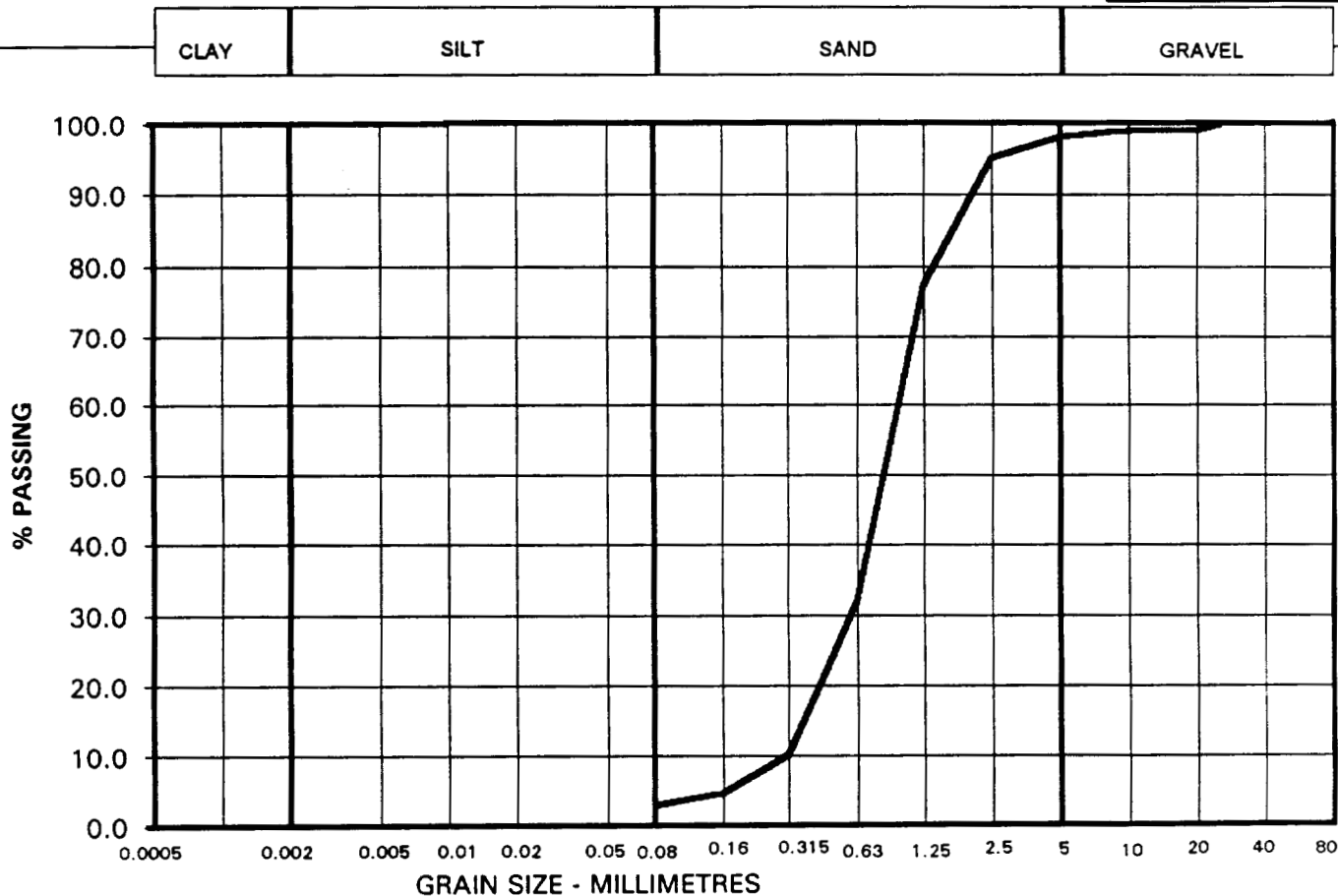


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 06 BY: ht EBA Eng.
 TESTPIT NO: d110gc
 DEPTH: 0.15 - 0.70
 SOIL DESCRIPTION SAND(SP), trace silt, trace gravel,
some organics, medium brown.
 Cu: 3.1 Cc: 1.2
 WATER CONTENT: 1.6%
 TOTAL MASS: 5690 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	99
16	99
12.5	99
10	99
5	98
2.5	95
1.25	78
0.63	32
0.315	10
0.16	5
0.08	2.8



PARTICLE - SIZE ANALYSIS OF SOILS

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	100
12.5	99
10	98
5	95
2.5	92
1.25	83
0.63	73
0.315	55
0.16	34
0.08	23.0

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 10 08 BY: htEBA Eng.

TESTPIT NO: d111d

DEPTH: 0.15 - 0.7

SOIL DESCRIPTION SAND(SM), silty, trace gravel,

very organic, subrounded, dark brown.

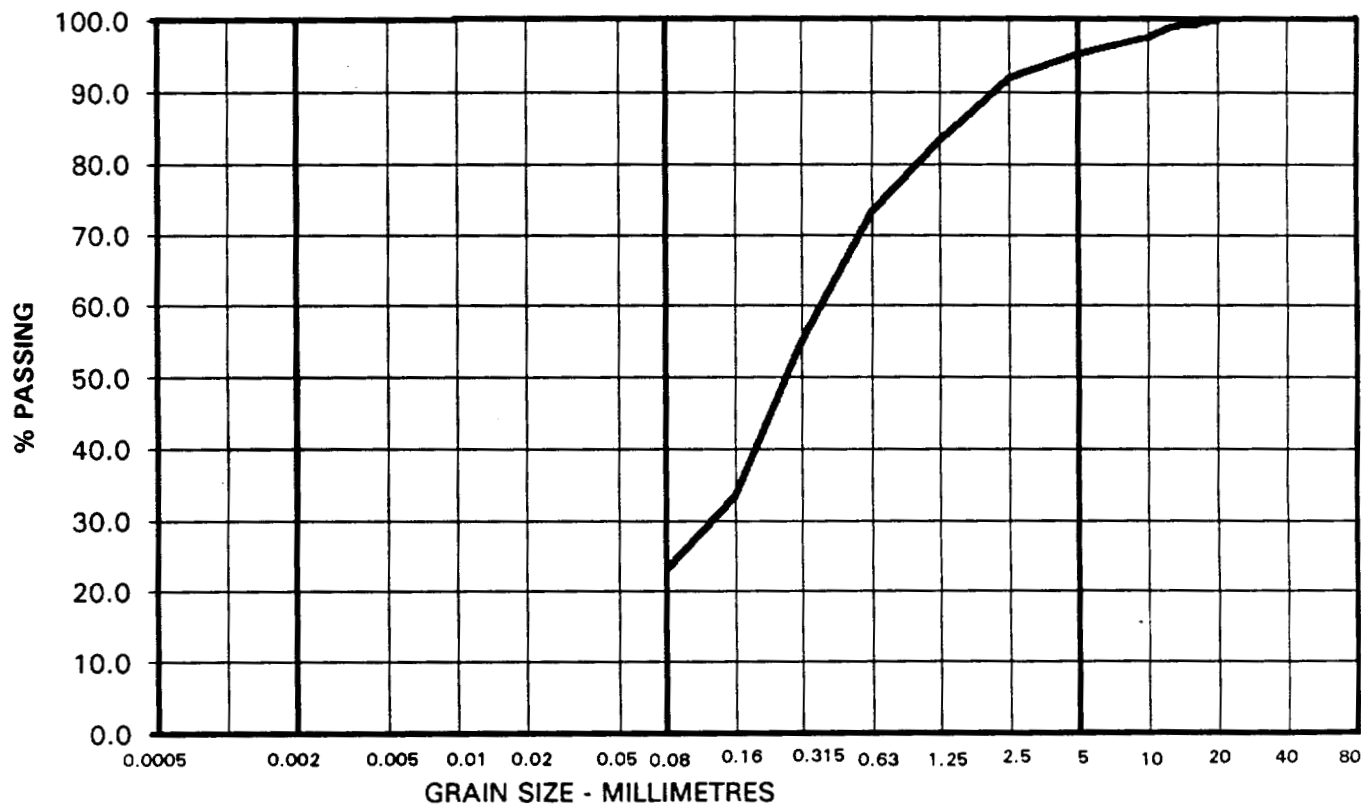
Cu: _____ Cc: _____

WATER CONTENT: 11.7%

TOTAL MASS: 3420 Grams

REMARKS: _____

CLAY	SILT	SAND	GRAVEL
------	------	------	--------



PARTICLE - SIZE ANALYSIS OF SOILS

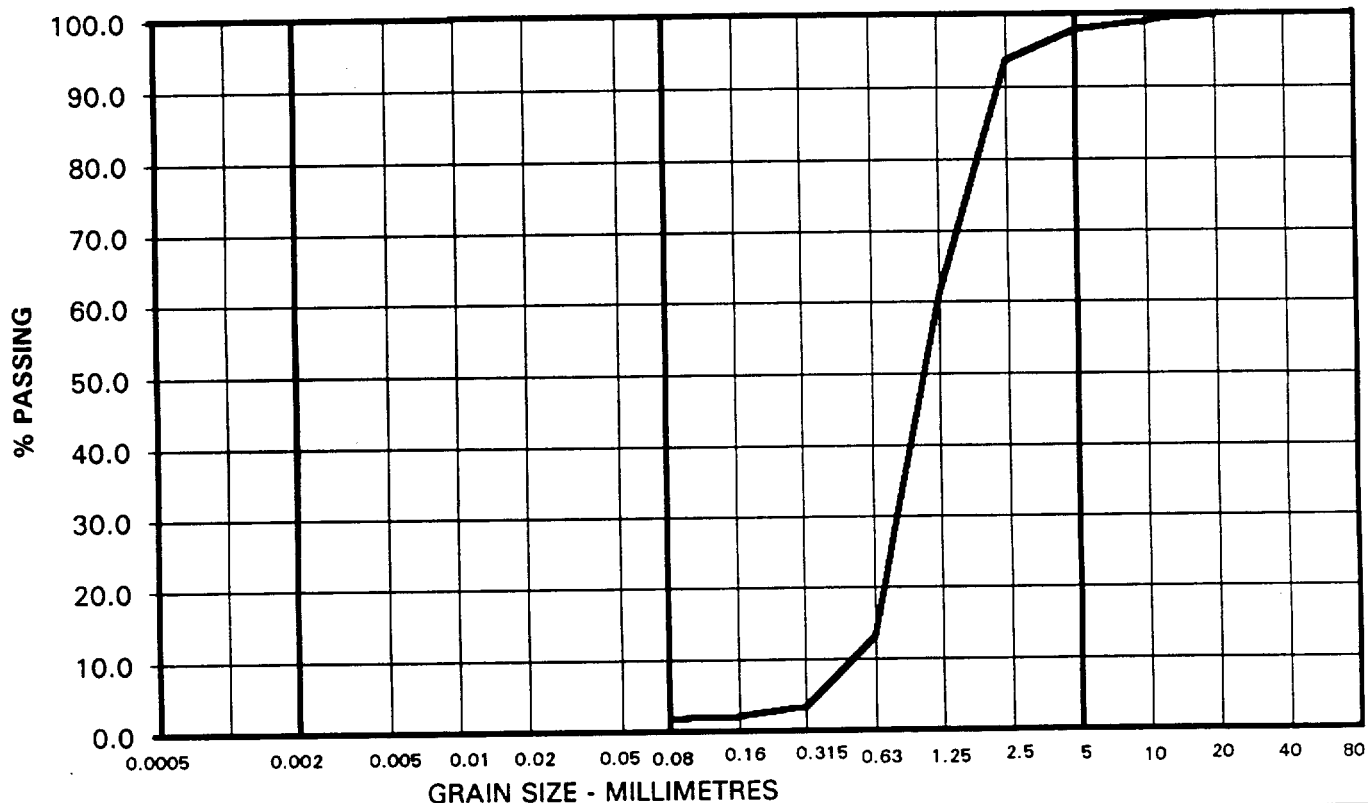
PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 08 BY: htEBA Eng.
 TESTPIT NO: d111gc
 DEPTH: 0.15 - 0.7
 SOIL DESCRIPTION SAND(SP), trace gravel, trace silt,
trace organics, coarse-grained, subrounded, black & yellow.

Cu: 2.5 Cc: 1.0
 WATER CONTENT: 1.7%
 TOTAL MASS: 6234 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	100
12.5	100
10	99
5	98
2.5	94
1.25	61
0.63	13
0.315	3
0.16	2
0.08	1.7

CLAY	SILT	SAND	GRAVEL
------	------	------	--------



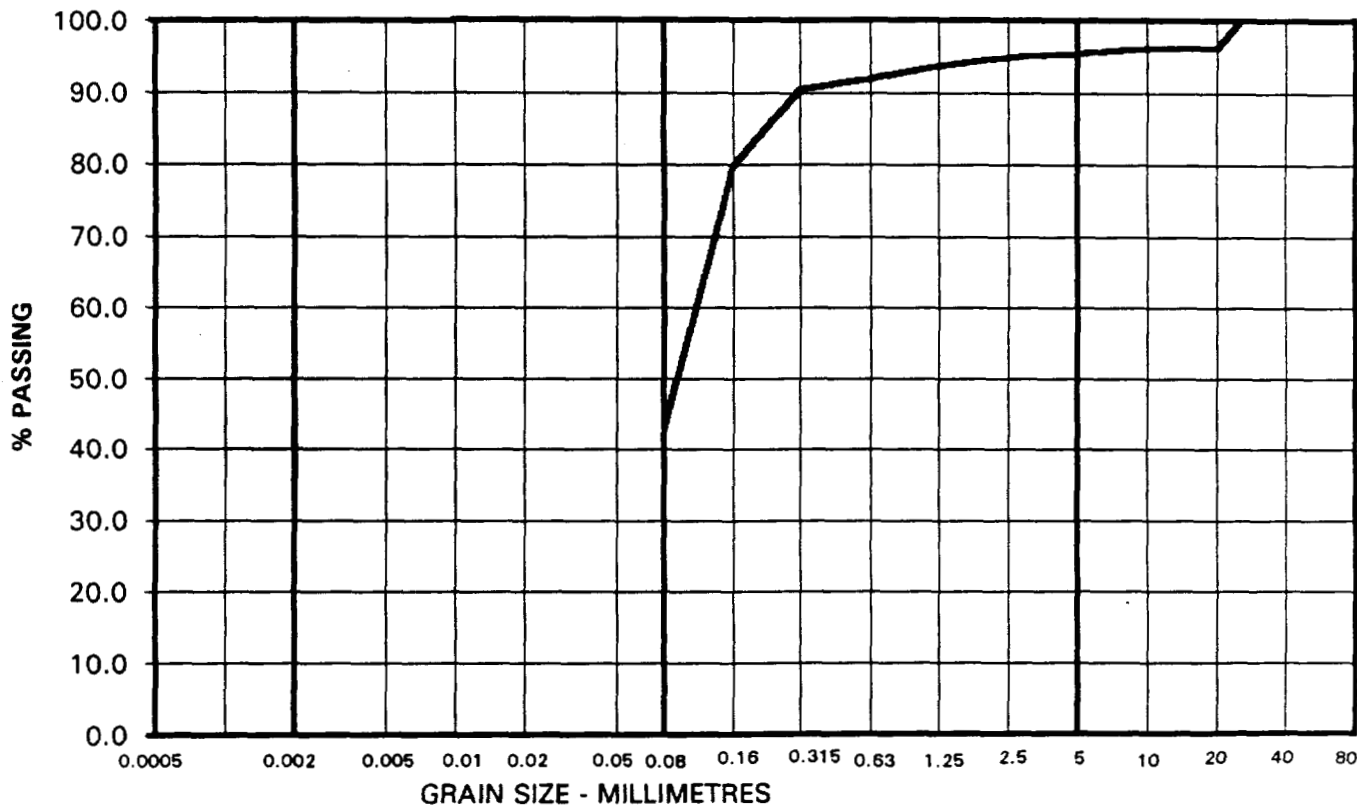
PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
 ADDRESS: Yellowknife, NWT
 PROJECT NO: 0701-11546
 DATE TESTED: 94 10 08 BY: htEBA Eng.
 TESTPIT NO: d112d
 DEPTH: 0.15 - 0.86
 SOIL DESCRIPTION SAND and SILT(SM - ML), trace gravel,
trace organics, very fine-grained, uniform, light grey.
 Cu: _____ Cc: _____
 WATER CONTENT: 5.8%
 TOTAL MASS: 4920 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	96
16	96
12.5	96
10	96
5	96
2.5	95
1.25	94
0.63	92
0.315	90
0.16	80
0.08	43.0

CLAY	SILT	SAND	GRAVEL
------	------	------	--------



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 10 08 BY: htEBA Eng.

TESTPIT NO: d112gc

DEPTH: 0.15 - 0.80

SOIL DESCRIPTION SAND(SP), trace silt,
trace organics, fine-grained, uniform, light brown.

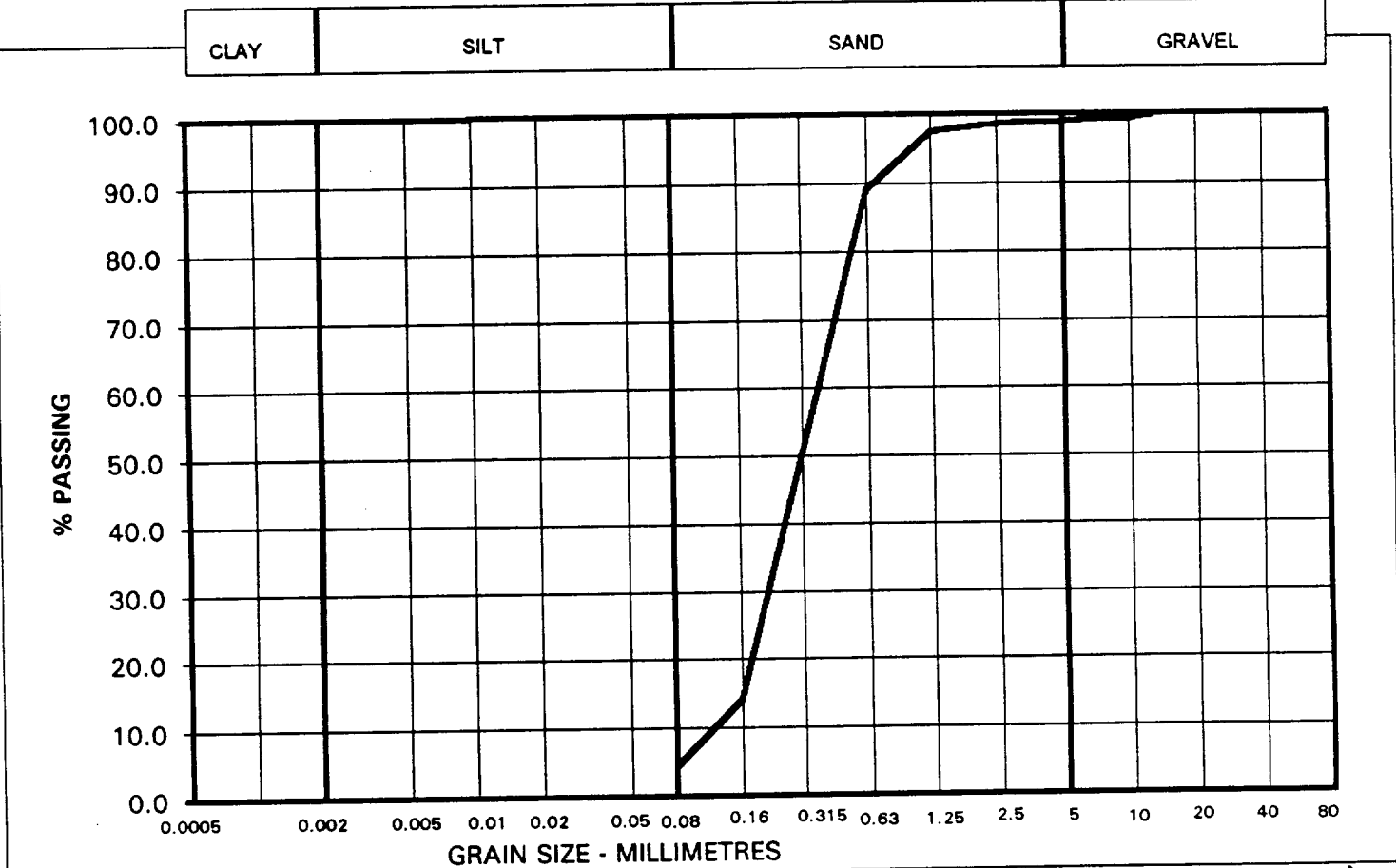
Cu: 3.1 Cc: 1.0

WATER CONTENT: 2.1%

TOTAL MASS: 5065 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	100
5	99
2.5	99
1.25	98
0.63	89
0.315	50
0.16	14
0.08	4.4



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 10 08 BY: htEBA Eng.

TESTPIT NO: d113d

DEPTH: 0.15 - 0.80

SOIL DESCRIPTION SAND(SM), some gravel some silt,
some organics, subrounded, light brown.

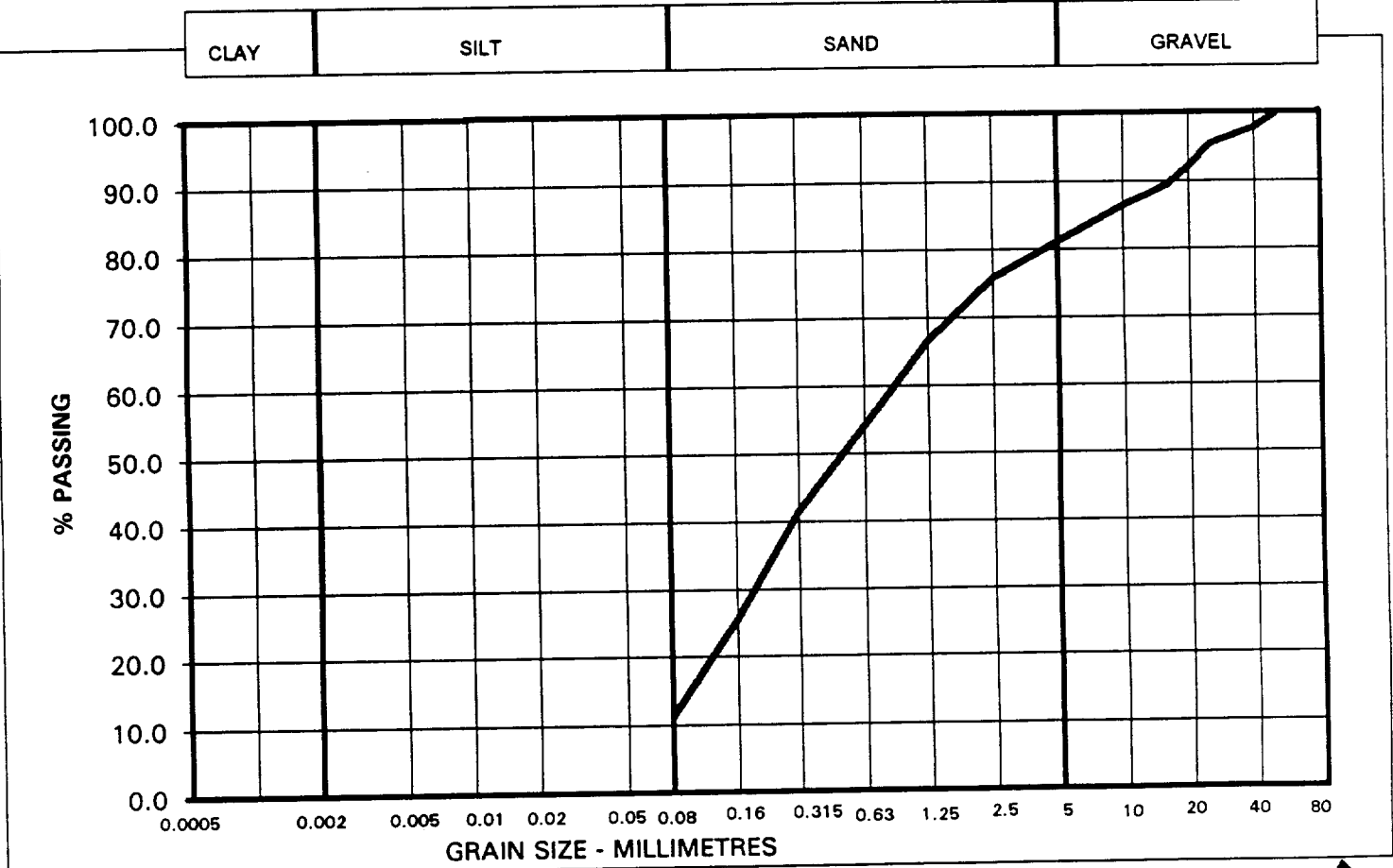
Cu: _____ Cc: _____

WATER CONTENT: 2.5%

TOTAL MASS: 5050 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	98
25	96
20	92
16	90
12.5	88
10	86
5	81
2.5	76
1.25	67
0.63	54
0.315	41
0.16	25
0.08	11.3



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 10 08 BY: htEBA Eng.

TESTPIT NO: d113gc

DEPTH: 0.15 - 0.60

SOIL DESCRIPTION SAND and GRAVEL(SP -GP), trace silt,
some organics, subrounded, dark brown.

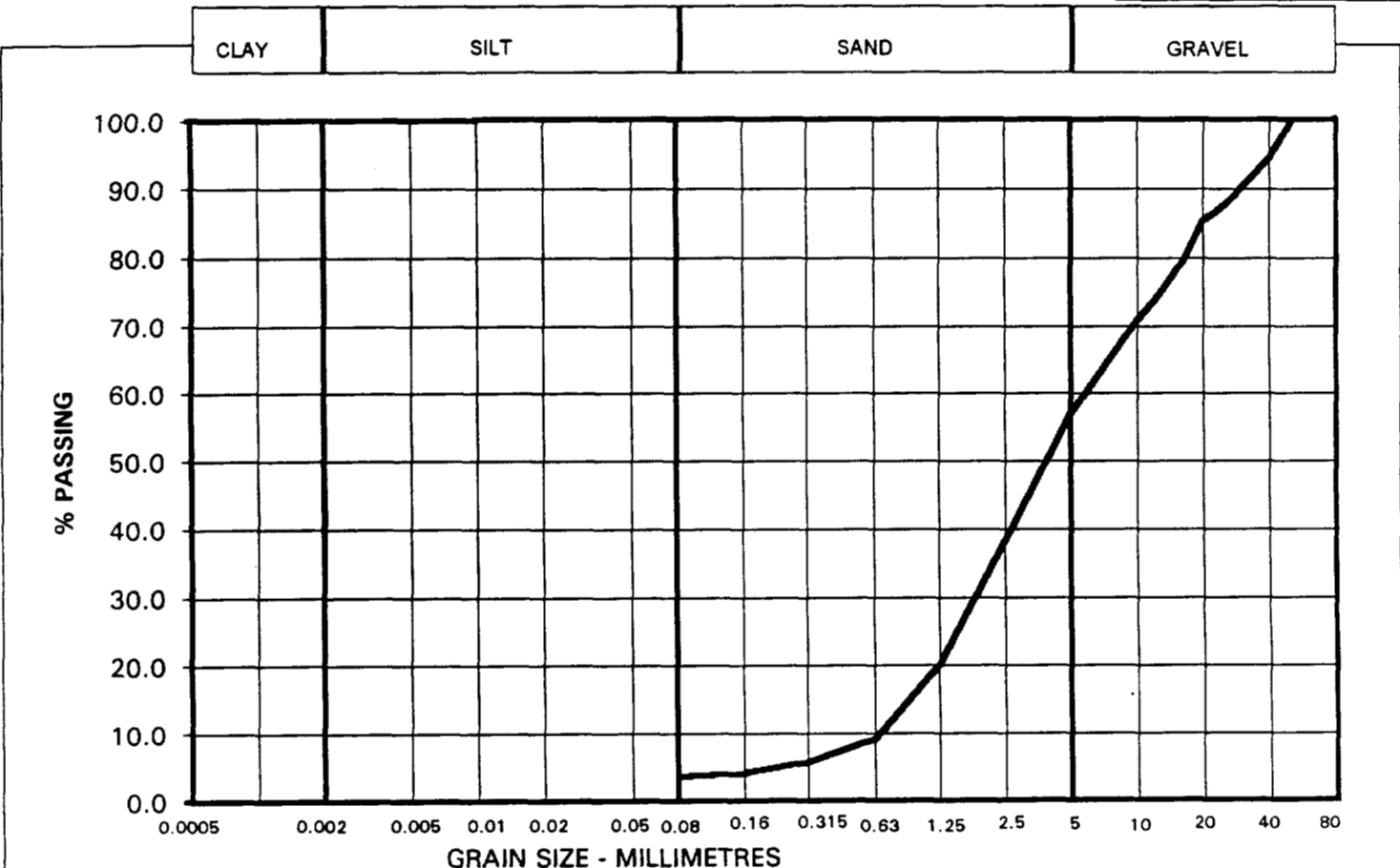
Cu: 5.2 Cc: 0.5

WATER CONTENT: 1.7%

TOTAL MASS: 7726 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	94
25	88
20	85
16	79
12.5	75
10	71
5	57
2.5	38
1.25	20
0.63	9
0.315	6
0.16	4
0.08	3.5



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 10 08 BY: htEBA Eng.

TESTPIT NO: d114gc

DEPTH: 0.15 - 0.65

SOIL DESCRIPTION SAND and Silt,(SM - ML), trace gravel,
trace organics, subrounded, light grey.

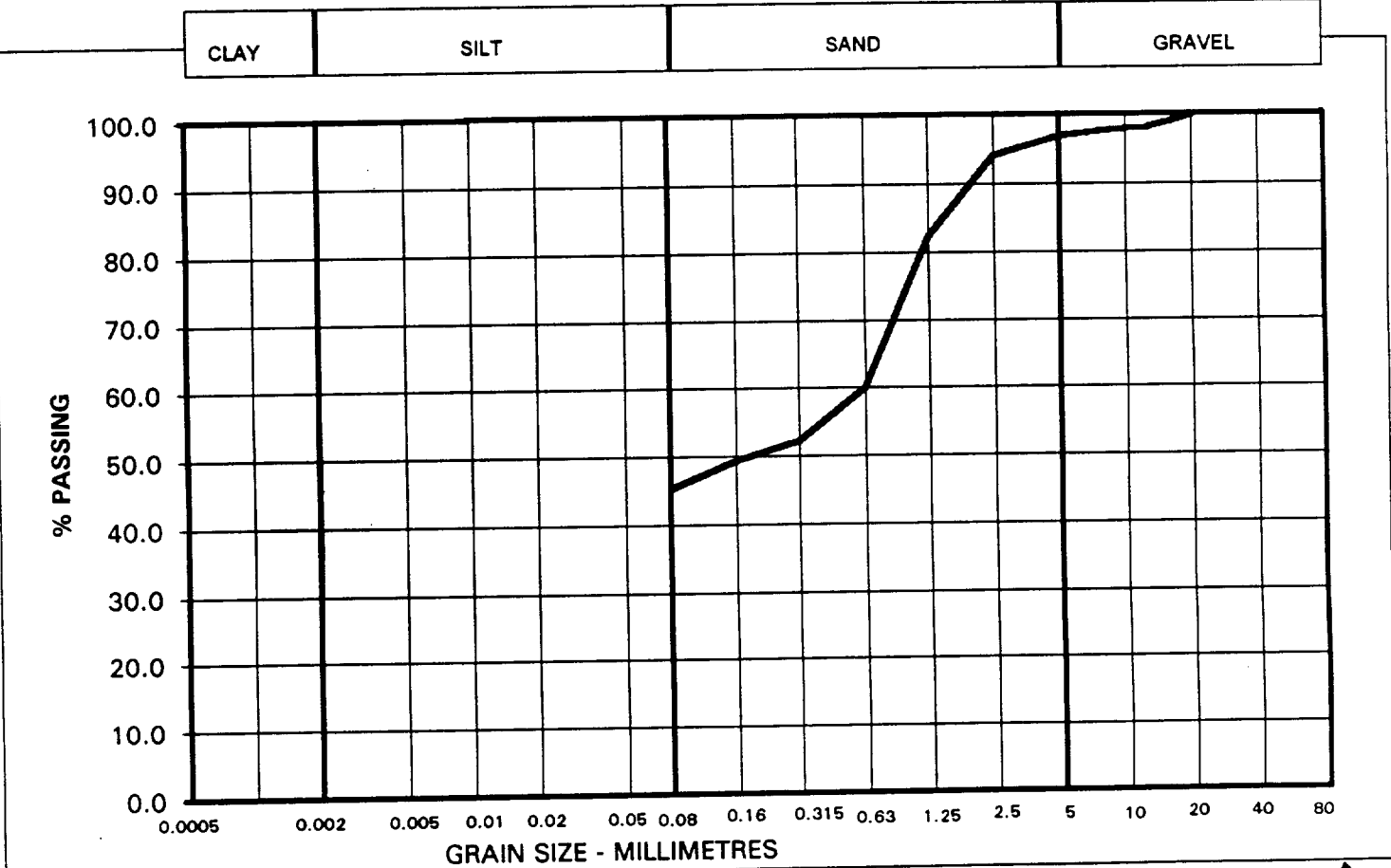
Cu: _____ Cc: _____

WATER CONTENT: 4.3%

TOTAL MASS: 4560 Grams

REMARKS: _____

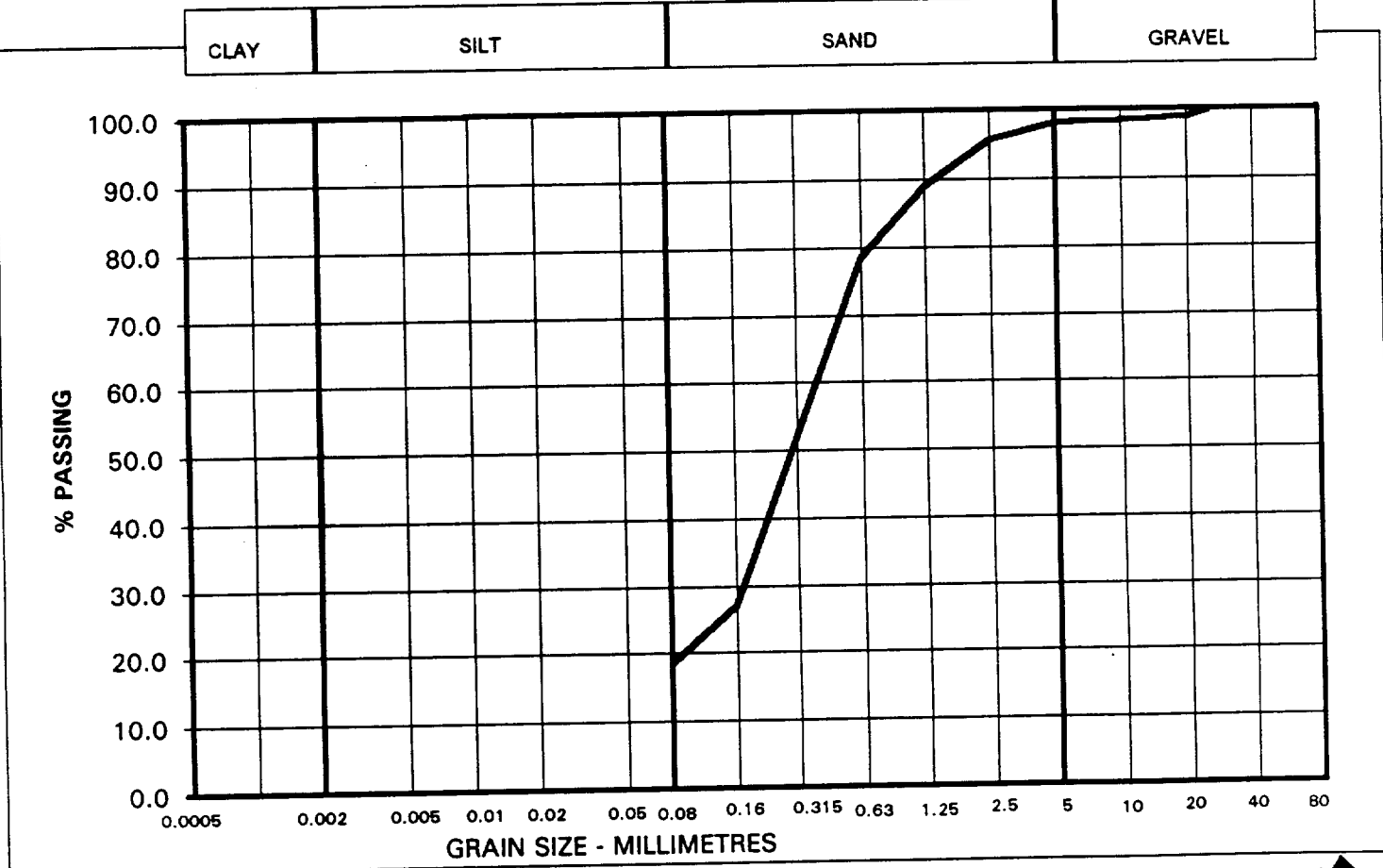
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	99
12.5	98
10	98
5	97
2.5	94
1.25	82
0.63	60
0.315	52
0.16	49
0.08	45.2



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 10 09 BY: htEBA Eng.
TESTPIT NO: d115d
DEPTH: 0.15 - 0.75
SOIL DESCRIPTION SAND(SM), some silt, trace gravel,
trace organics, subrounded, light grey.
Cu: _____ Cc: _____
WATER CONTENT: 2.0%
TOTAL MASS: 4311 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	99
16	99
12.5	99
10	99
5	98
2.5	96
1.25	89
0.63	79
0.315	52
0.16	27
0.08	18.4



PARTICLE - SIZE ANALYSIS OF SOILS

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	99
10	99
5	95
2.5	86
1.25	62
0.63	44
0.315	28
0.16	16
0.08	8.0

PROJECT: GNWT Esker Study

ADDRESS: Yellowknife, NWT

PROJECT NO: 0701-11546

DATE TESTED: 94 10 08 BY: htEBA Eng.

TESTPIT NO: d115gc

DEPTH: 0.15 - 0.6

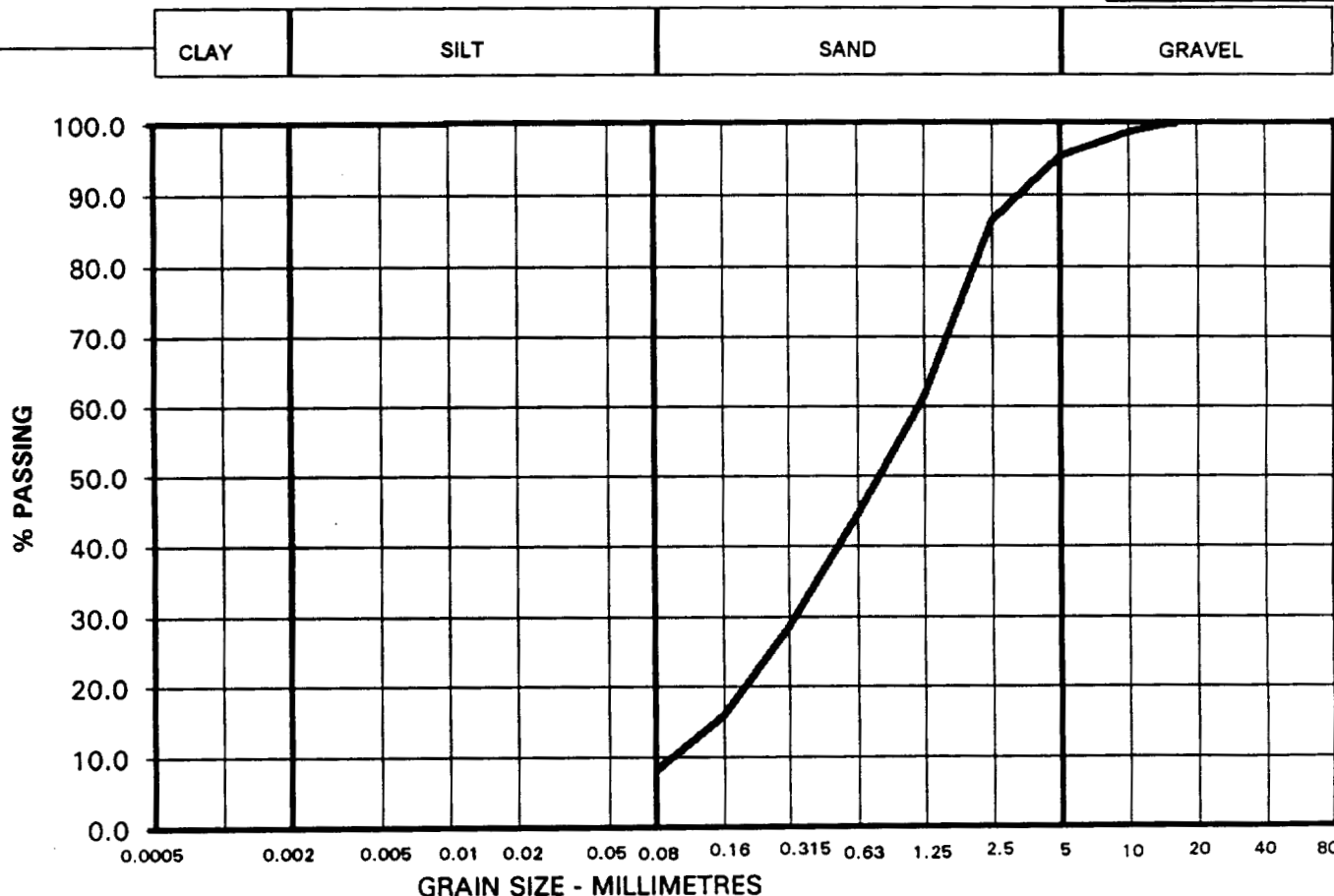
SOIL DESCRIPTION SAND(SW), trace silt, trace gravel,
some organics, subangular, medium brown.

Cu: 12.4 Cc: 1.0

WATER CONTENT: 2.5%

TOTAL MASS: 4695 Grams

REMARKS: _____

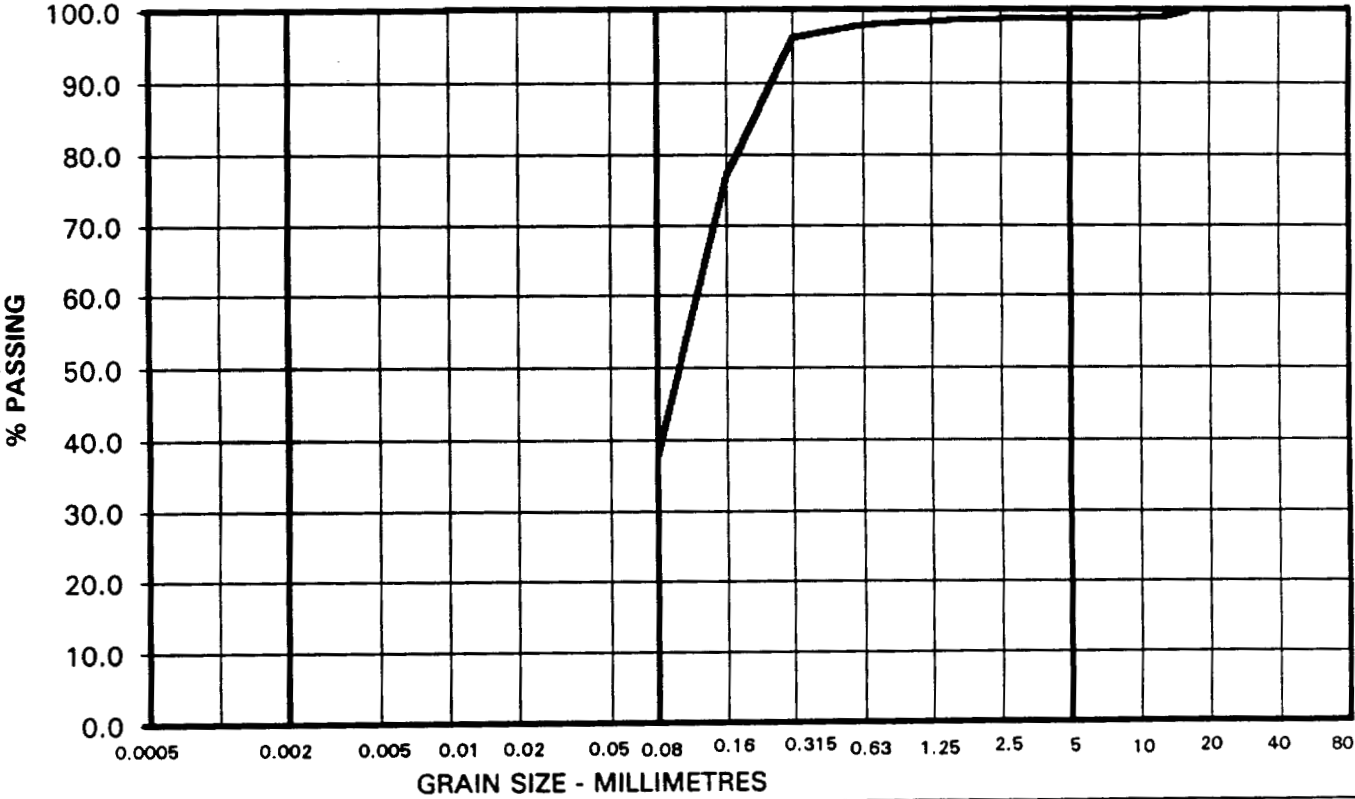


PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 10 08 BY: htEBA Eng.
TESTPIT NO: d116d
DEPTH: 0.15 - 0.7
SOIL DESCRIPTION SAND and SILT(SM - ML), trace gravel,
some organics, very fine-grained, uniform, light grey.
Cu: _____ Cc: _____
WATER CONTENT: 1.5%
TOTAL MASS: 3760 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	99
10	99
5	99
2.5	99
1.25	99
0.63	98
0.315	96
0.16	77
0.08	37.6

CLAY	SILT	SAND	GRAVEL
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PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 10 08 BY: htEBA Eng.
TESTPIT NO: d116gc
DEPTH: 0.15 - 0.7
SOIL DESCRIPTION SILT(ML), sandy, trace gravel,
trace organics, very fine-graded, uniform, subangular, grey.

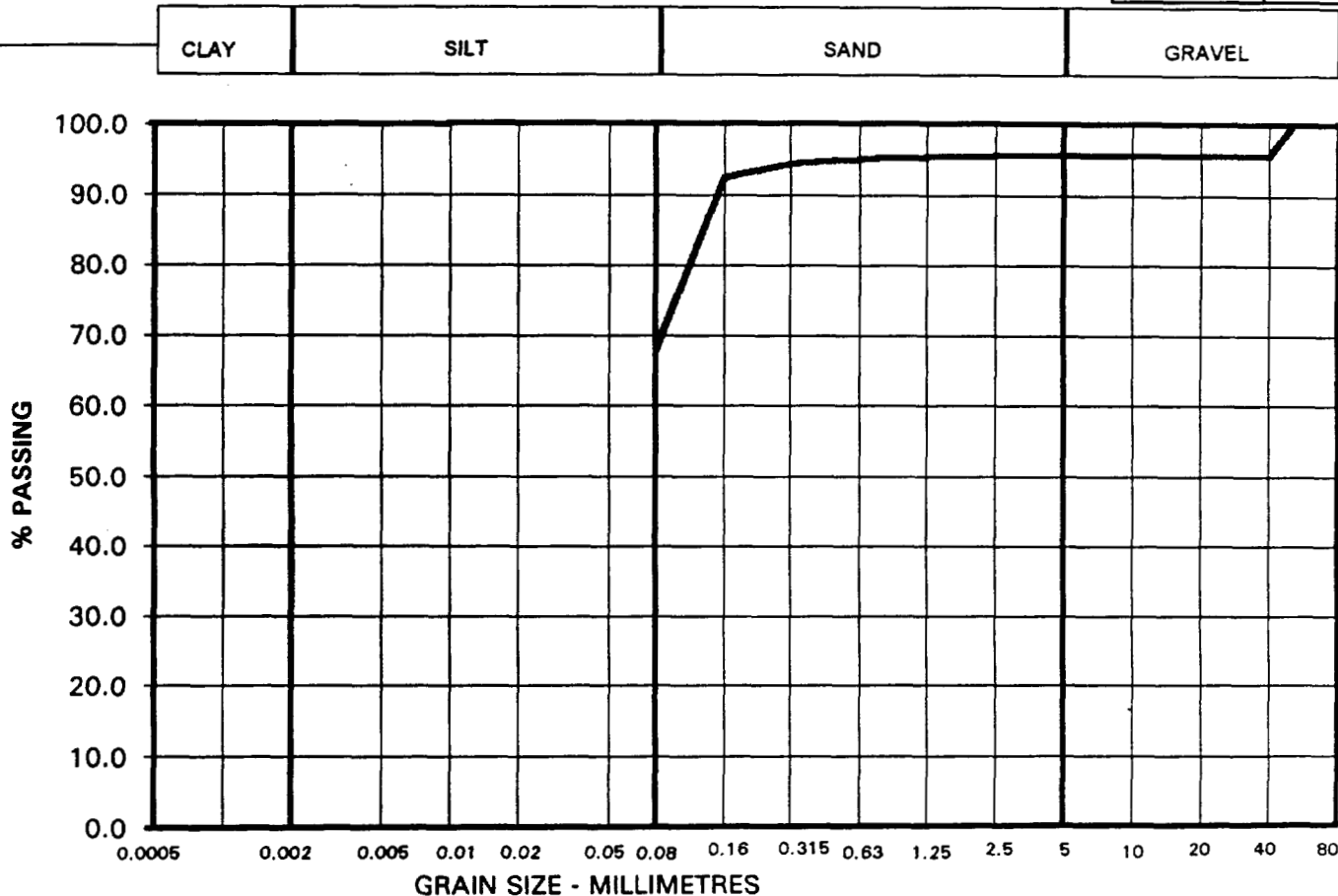
Cu: _____ Cc: _____

WATER CONTENT: 12.0%

TOTAL MASS: 3924 Grams

REMARKS: _____

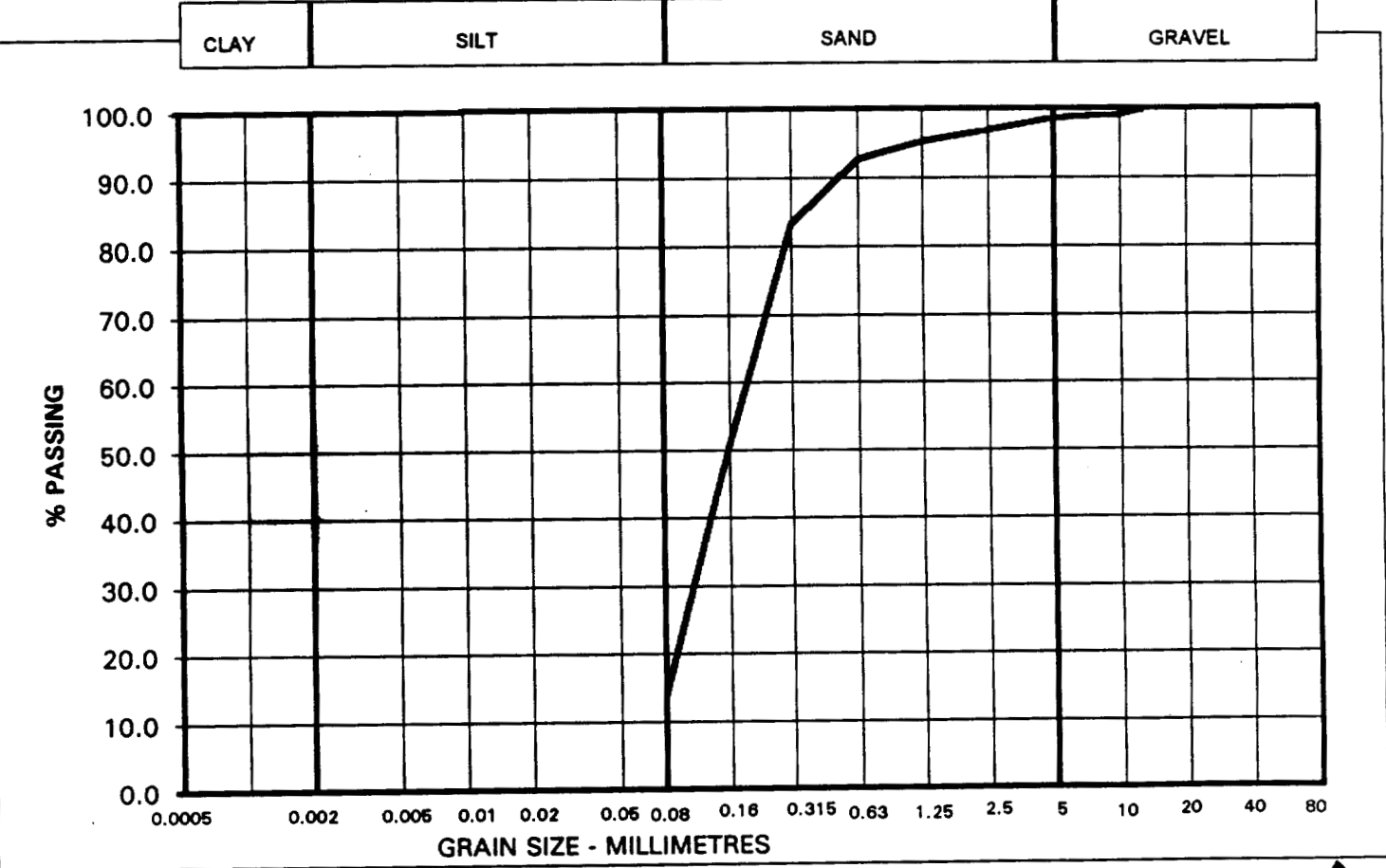
SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	96
25	96
20	96
16	96
12.5	96
10	96
5	96
2.5	96
1.25	95
0.63	95
0.315	94
0.16	92
0.08	67.7



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Eker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 13 BY: ht EBA Eng.
TESTPIT NO: d117d
DEPTH: 0.15 - 0.80
SOIL DESCRIPTION SAND(SM), some silt, trace gravel,
trace organics, fine-grained, uniform subangular, grey-brown.
Cu: _____ Cc: _____
WATER CONTENT: 5.3%
TOTAL MASS: 4471 Grams
REMARKS: _____

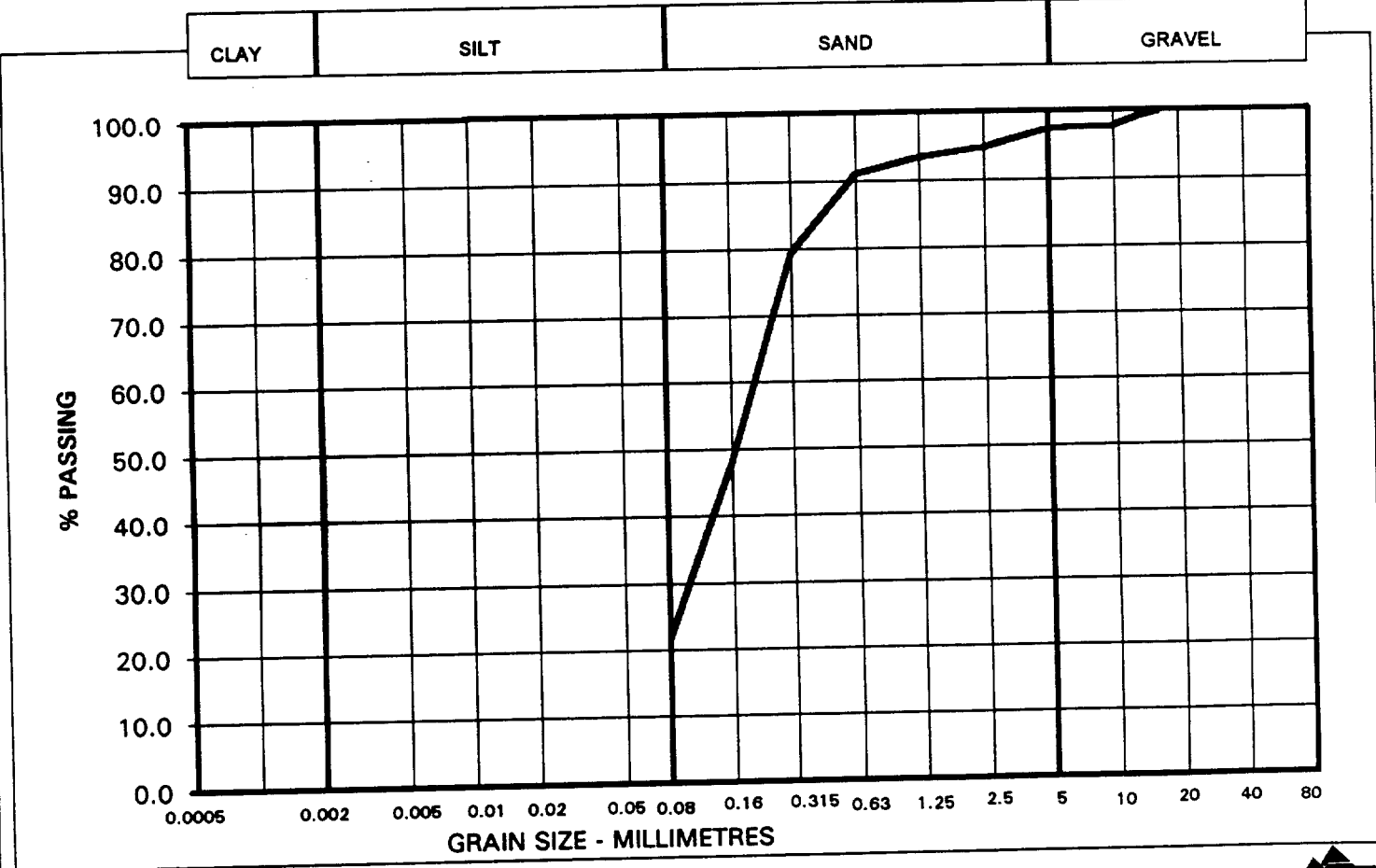
SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	99
5	99
2.5	97
1.25	95
0.63	93
0.315	83
0.16	51
0.08	14.0



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 12 BY: ht EBA Eng.
TESTPIT NO: d117gc
DEPTH: 0.15 - 0.75
SOIL DESCRIPTION SAND(SM), silty, trace gravel,
trace organics, subrounded, light brown.
Cu: _____ Cc: _____
WATER CONTENT: 11.1%
TOTAL MASS: 5789 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	99
10	98
5	98
2.5	95
1.25	93
0.63	91
0.315	79
0.16	48
0.08	21.8

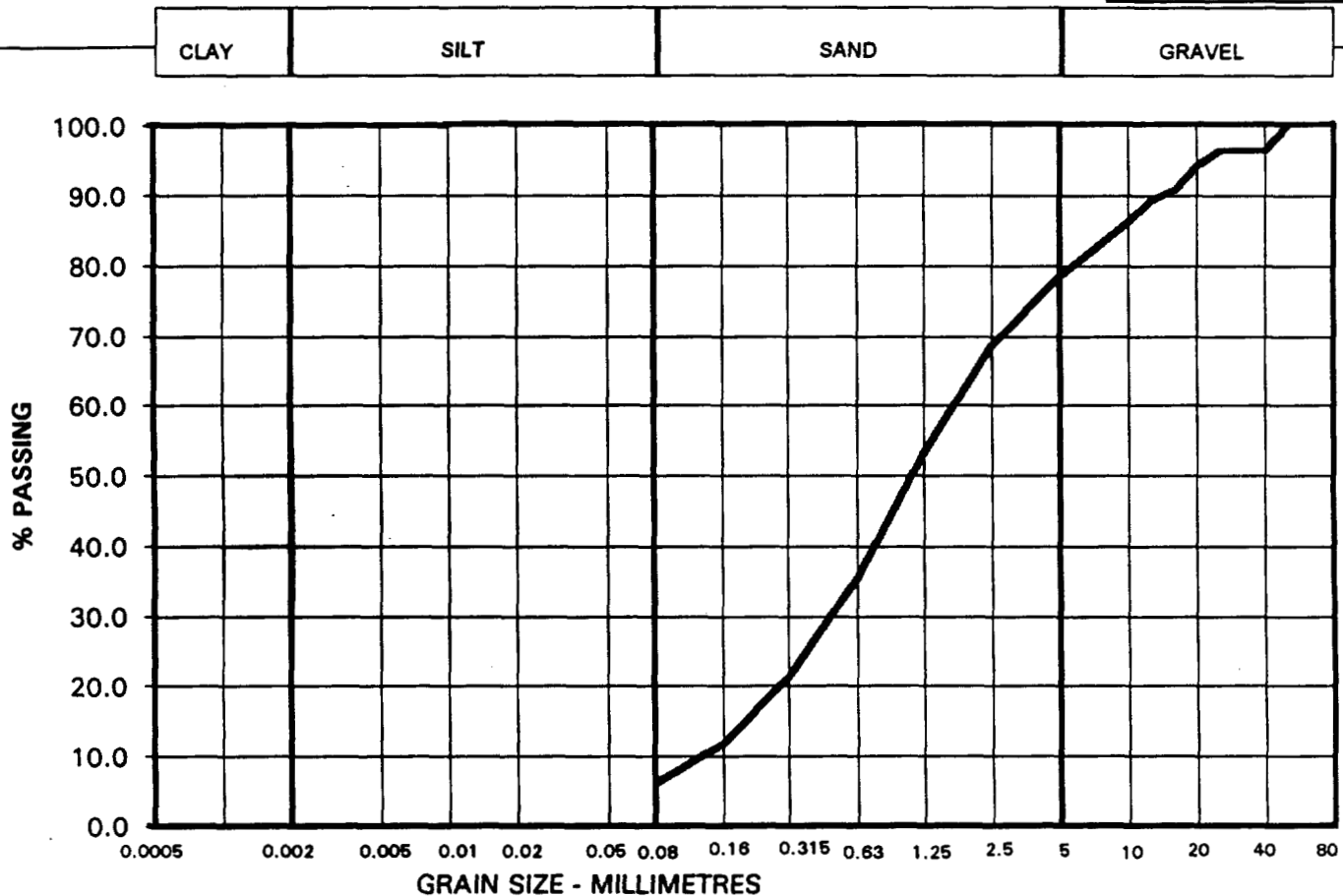


EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 13 BY: ht EBA Eng.
TESTPIT NO: d118d
DEPTH: 0.15 - 0.5
SOIL DESCRIPTION SAND(SW), gravelly, trace silt,
some organics, subrounded, brown.
Cu: 13.2 Cc: 1.1
WATER CONTENT: 1.5%
TOTAL MASS: 6183 Grams
REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	97
25	97
20	94
16	91
12.5	89
10	86
5	79
2.5	69
1.25	53
0.63	36
0.315	21
0.16	12
0.08	6.0



PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study
ADDRESS: Yellowknife, NWT
PROJECT NO: 0701-11546
DATE TESTED: 94 09 13 BY: ht EBA Eng.
TESTPIT NO: d118gc
DEPTH: 0.15 - 0.40
SOIL DESCRIPTION GRAVEL and SAND(GM - SM), some silt,
some organics, subrounded, medium brown.

Cu: _____ Cc: _____

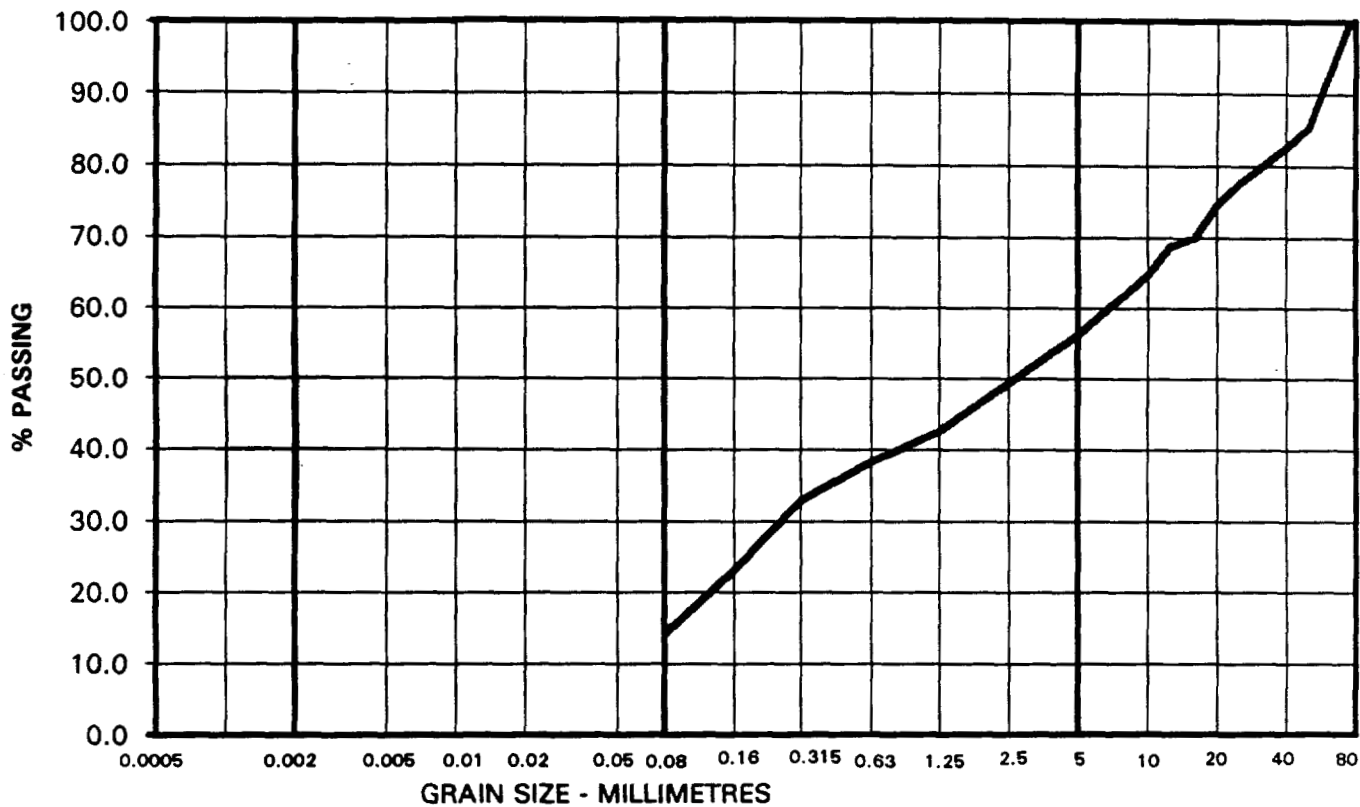
WATER CONTENT: 3.5%

TOTAL MASS: 5224 Grams

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	85
40	82
25	78
20	74
16	70
12.5	69
10	65
5	56
2.5	49
1.25	42
0.63	38
0.315	33
0.16	23
0.08	14.1

CLAY	SILT	SAND	GRAVEL
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APPENDIX C
HYDROMETER ANALYSES

EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **94 11 02** BY: **ht**

TESTPIT NO: **th d1d**

DEPTH: **0.1 - 0.7**

SOIL DESCRIPTION _____

SAND(SM - ML), some silt, trace gravel, trace organics

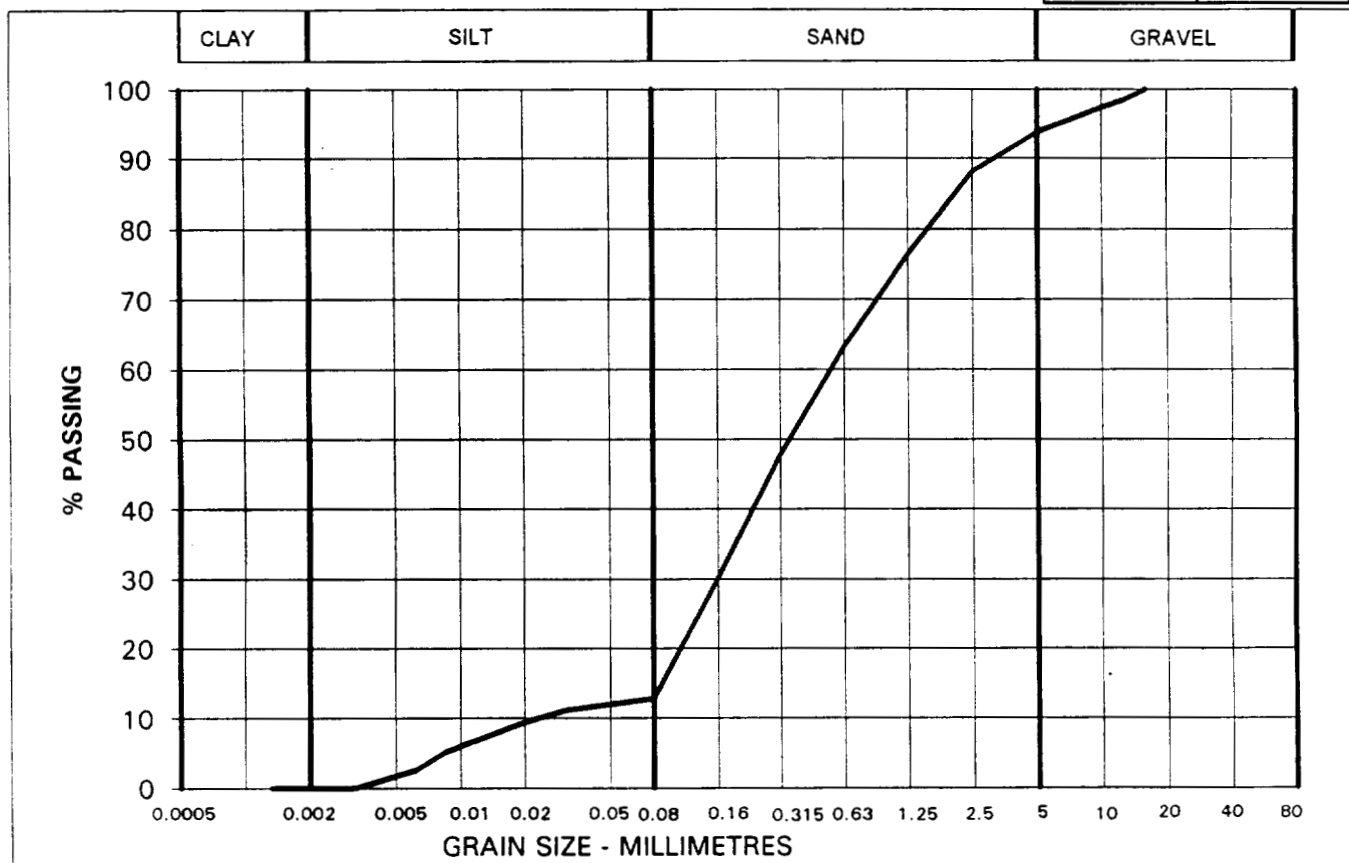
fine-grained, uniform, subrounded, brown

Cu: **23.5** Cc: **2.0**

WATER CONTENT: **2.4%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	100
12.5	98
10	97
5	94
2.5	88
1.25	76
0.63	63
0.315	48
0.16	30
0.08	12.8



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **95 02 15** BY: **tj**

TESTPIT NO: **th d4gc**

DEPTH: **0.15 - 1.0**

SOIL DESCRIPTION _____

SAND and GRAVEL(SM - GM), some silt,

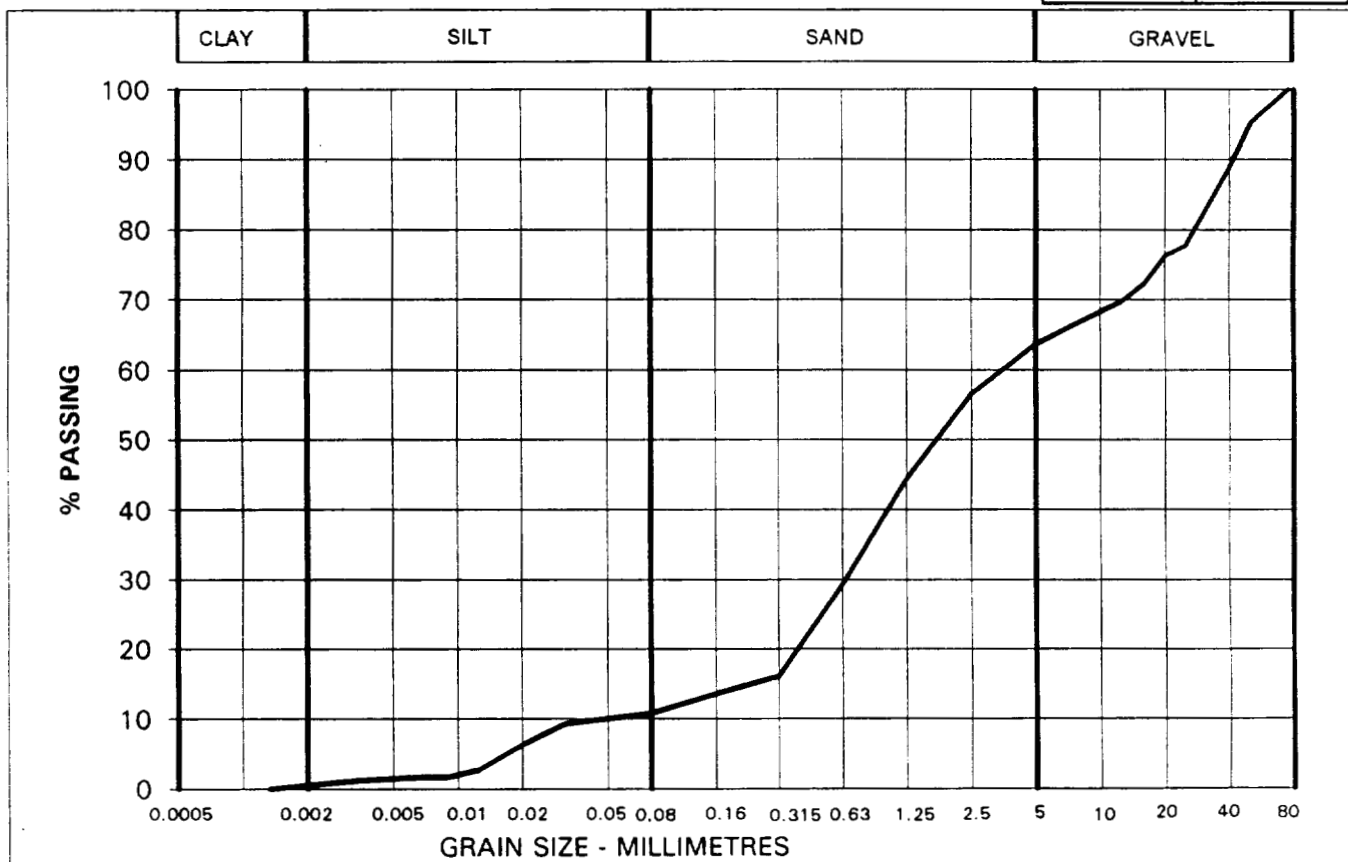
trace organics, subrounded, light brown

Cu: **72.5** Cc: **2.5**

WATER CONTENT: **6.0%**

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	95
40	89
25	78
20	76
16	72
12.5	70
10	68
5	64
2.5	57
1.25	44
0.63	29
0.315	16
0.16	14
0.08	10.8



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **95 02 15** BY: **tj**

TESTPIT NO: **th d5gc**

DEPTH: **0.2 - 1.0**

SOIL DESCRIPTION _____

SAND(SM), some silt, trace gravel

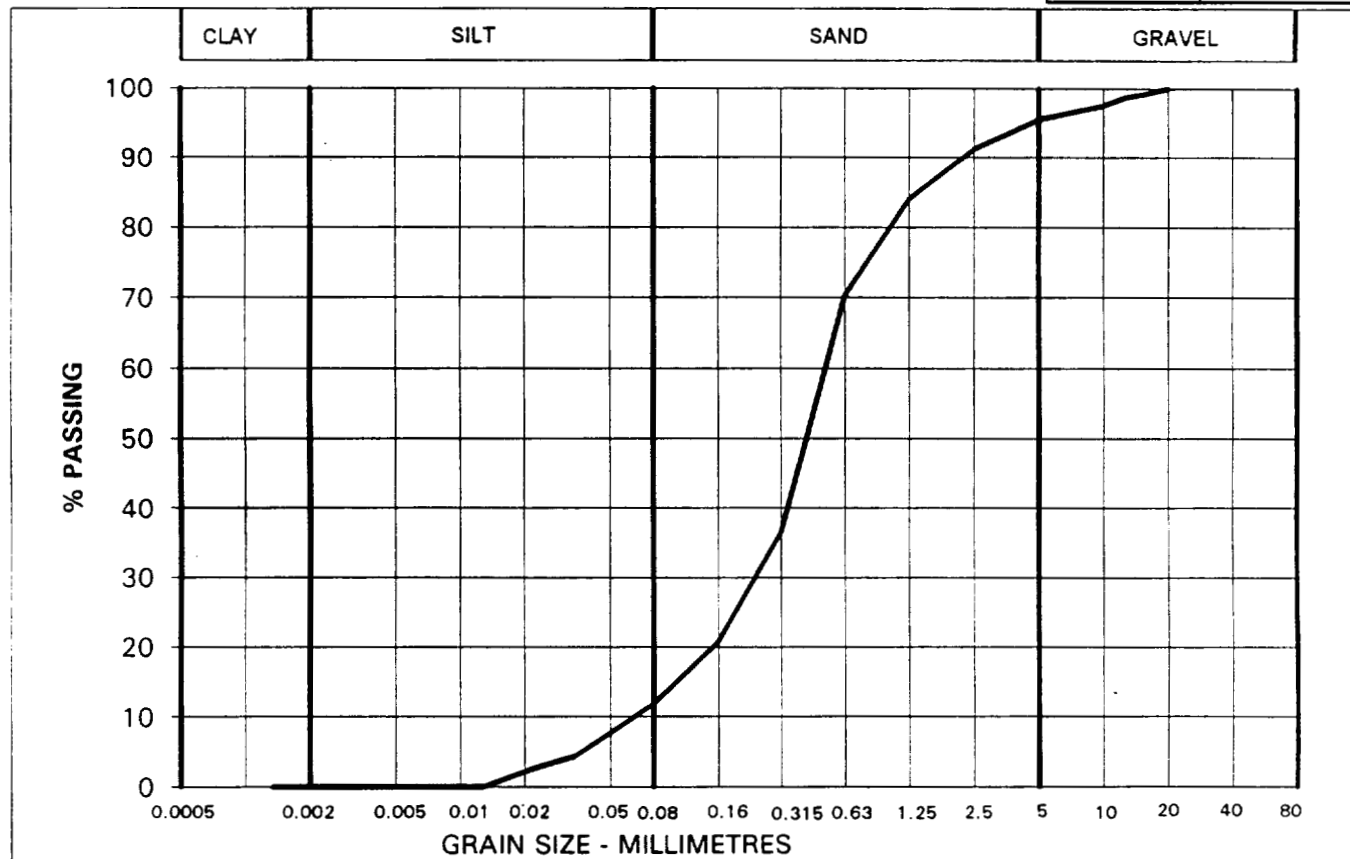
subrounded, brown

Cu: **7.9** Cc: **1.7**

WATER CONTENT: **14.1%**

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	100
16	99
12.5	99
10	98
5	96
2.5	91
1.25	84
0.63	70
0.315	37
0.16	21
0.08	11.9



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **94 11 02** BY: **ht**

TESTPIT NO: **th d8d**

DEPTH: **0.15 - 0.6**

SOIL DESCRIPTION _____

SILT and SAND (ML-SM),

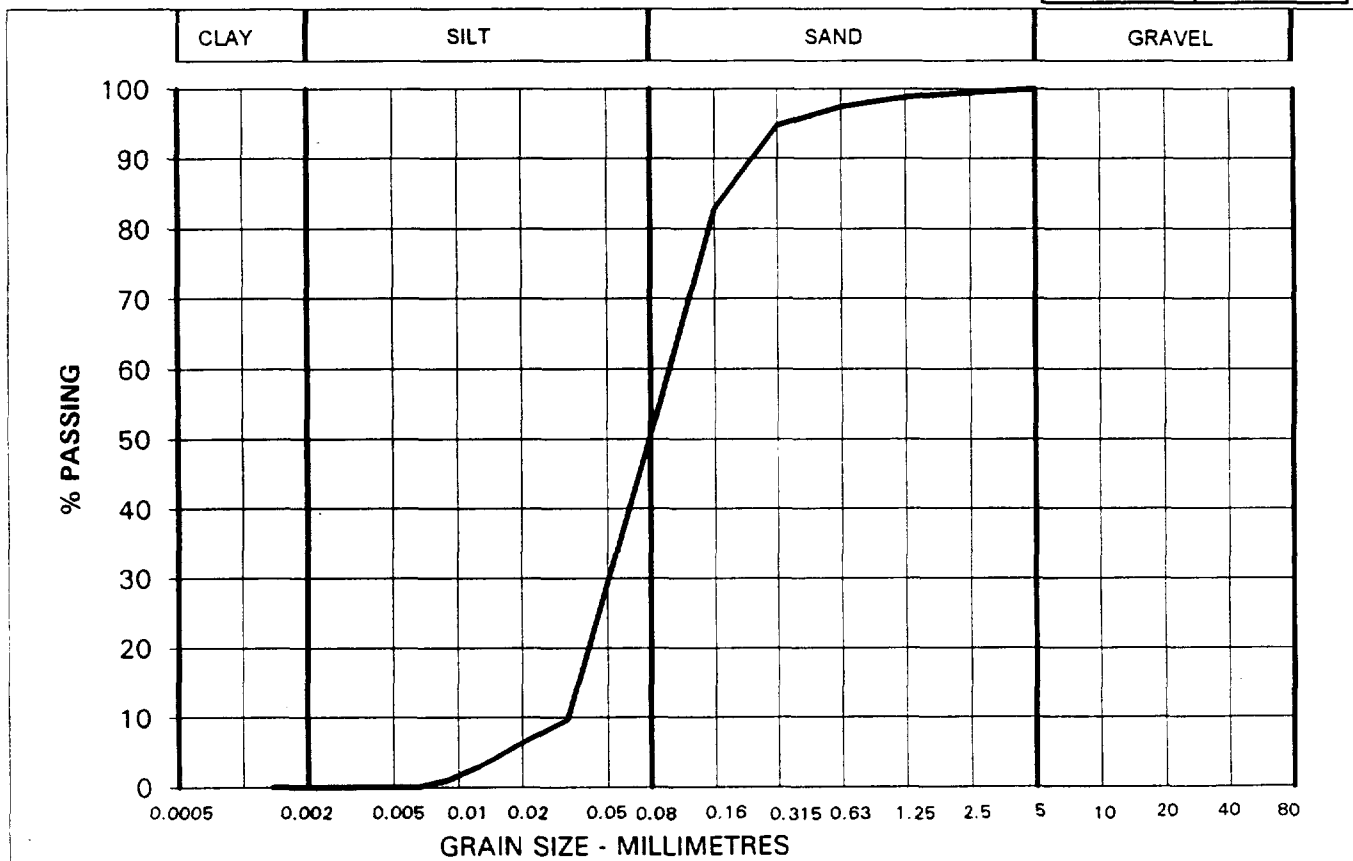
fine-grained, uniform, brown.

Cu: **3.0** Cc: **0.8**

WATER CONTENT: **8.3%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	99
0.63	98
0.315	95
0.16	83
0.08	50.6



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **95 02 15** BY: **tj**

TESTPIT NO: **th d13gc**

DEPTH: **0.15 - 0.60**

SOIL DESCRIPTION _____

SAND(SM), silty, gravelly, trace organics,

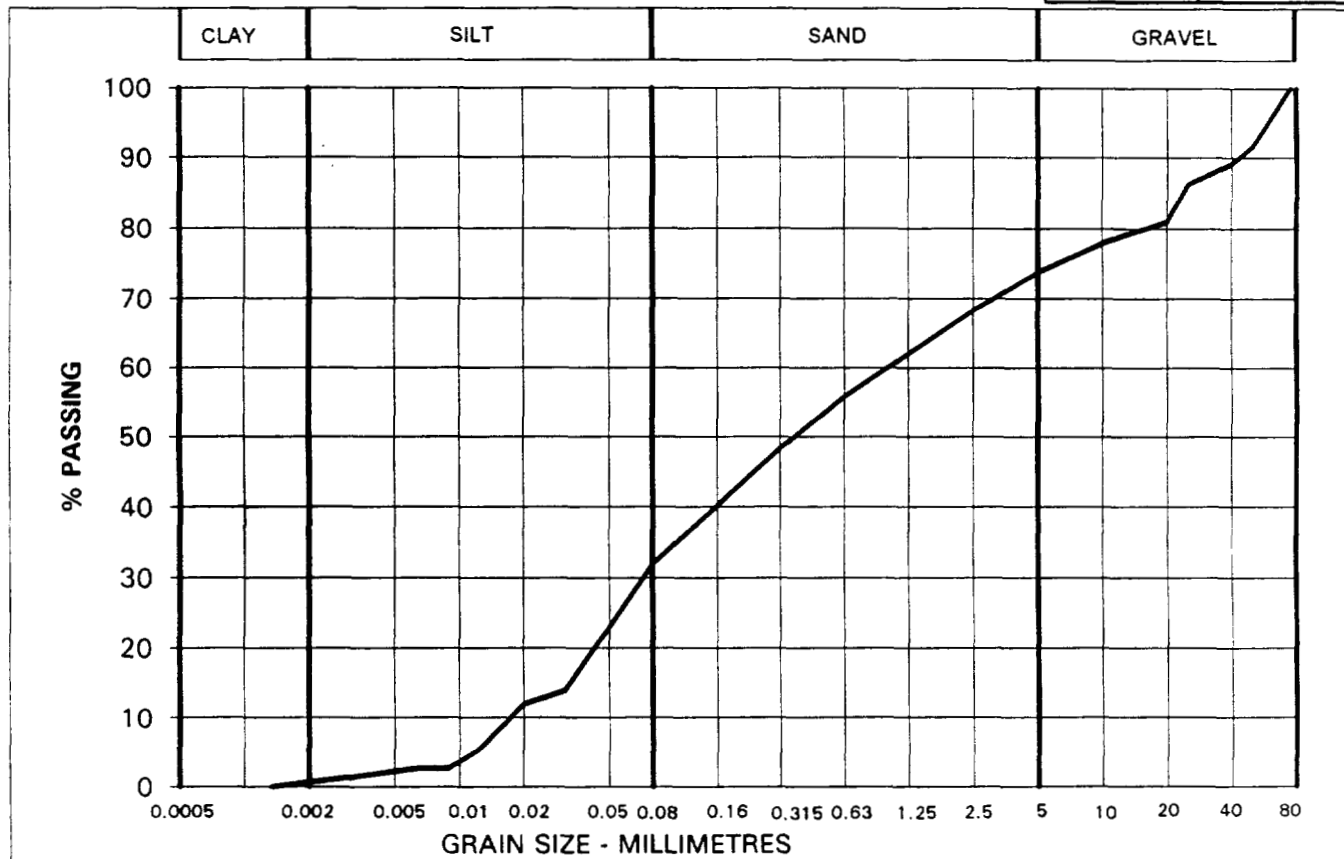
subrounded, grey.

Cu: **58.0** Cc: **0.3**

WATER CONTENT: **4.2%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	100
50	92
40	89
25	86
20	81
16	80
12.5	79
10	78
5	74
2.5	68
1.25	62
0.63	56
0.315	48
0.16	40
0.08	31.9



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **94 11 02** BY: **ht**

TESTPIT NO: **th d17gc**

DEPTH: **0.15 - 0.60**

SOIL DESCRIPTION _____

SILT and SAND(ML-SM), trace organics,

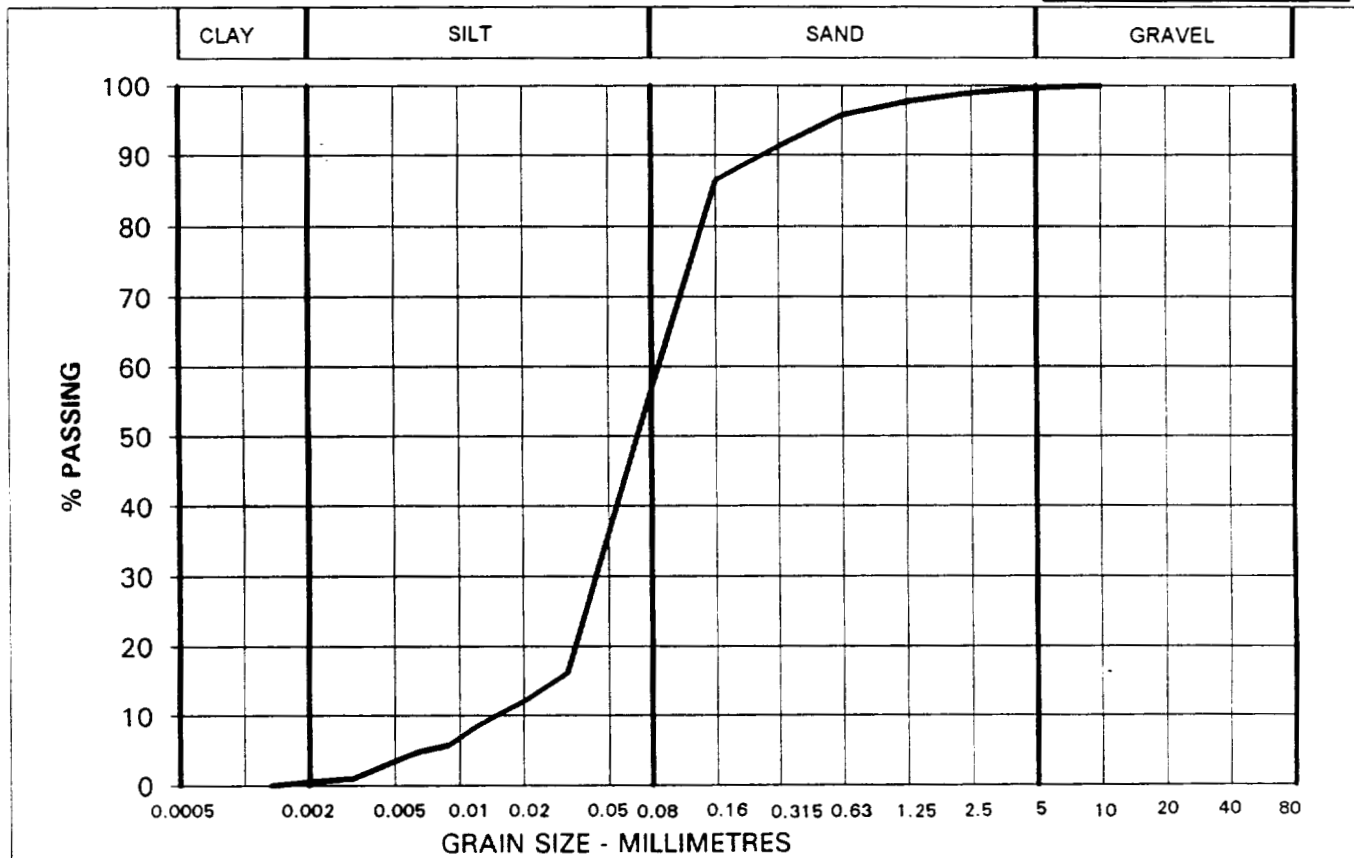
light brown.

Cu: **5.8** Cc: **1.5**

WATER CONTENT: **14.2%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	99
1.25	98
0.63	96
0.315	91
0.16	87
0.08	56.9



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **95 02 15** BY: **tj**

TESTPIT NO: **th d18gc**

DEPTH: **0.15 - 0.60**

SOIL DESCRIPTION _____

SAND and SILT(SM - ML), some gravel, some organics,

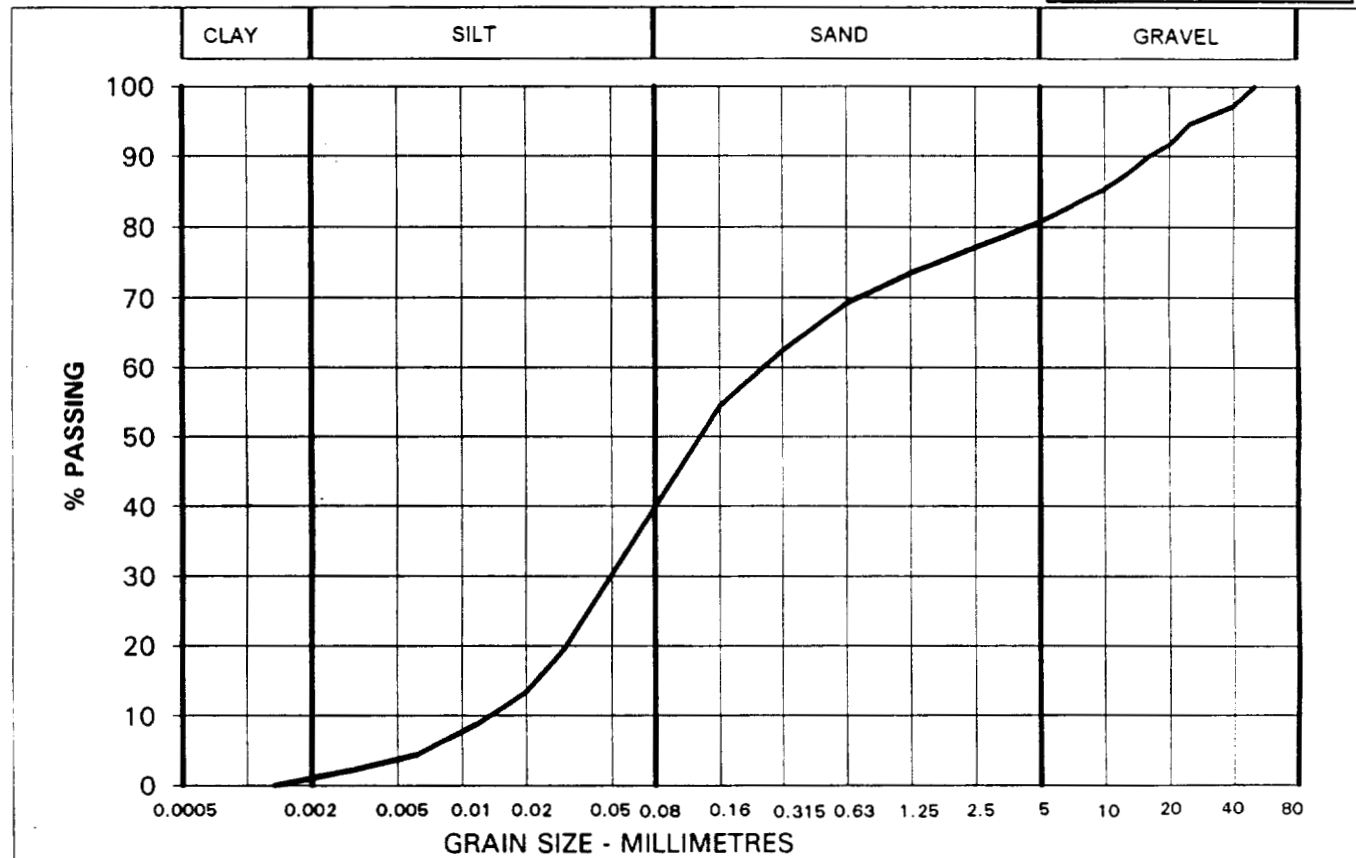
subrounded, fine-grained, uniform, brown.

Cu: **19.1** Cc: **0.7**

WATER CONTENT: **10.9%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	97
25	95
20	92
16	90
12.5	87
10	85
5	81
2.5	77
1.25	74
0.63	69
0.315	62
0.16	54
0.08	39.9



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **95 02 15** BY: **tj**

TESTPIT NO: **th d20gc**

DEPTH: **0.15 - 0.60**

SOIL DESCRIPTION _____

SAND(SP), gravelly, trace silt, some organics,

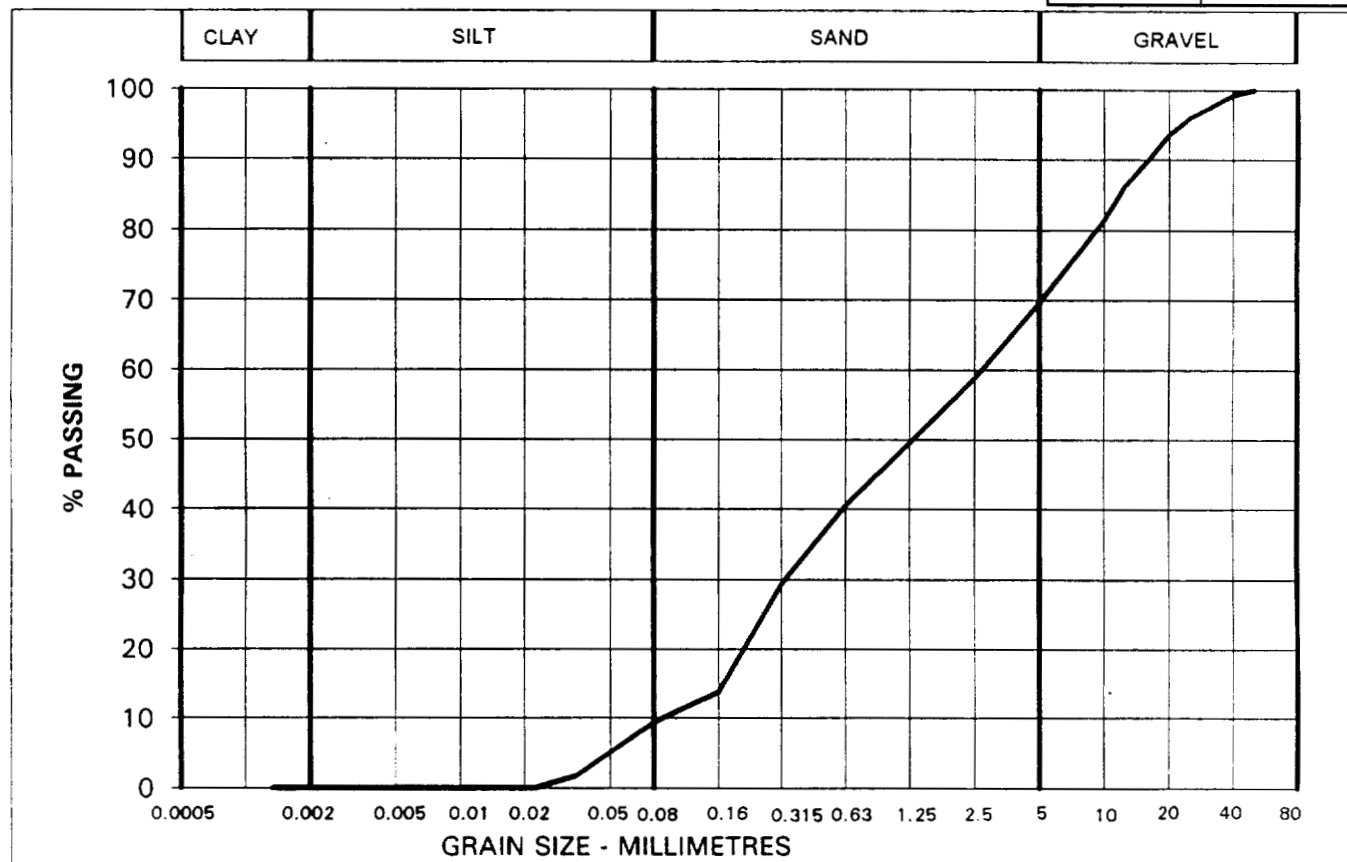
subangular - subrounded, light brown.

Cu: **30.9** Cc: **0.5**

WATER CONTENT: **2.7%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	99
25	96
20	94
16	90
12.5	86
10	81
5	70
2.5	59
1.25	50
0.63	41
0.315	29
0.16	14
0.08	9.5



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **95 02 15** BY: **tj**

TESTPIT NO: **th d21gc**

DEPTH: **0.15 - 0.70**

SOIL DESCRIPTION _____

SAND(SW), trace silt, trace gravel, some organics,

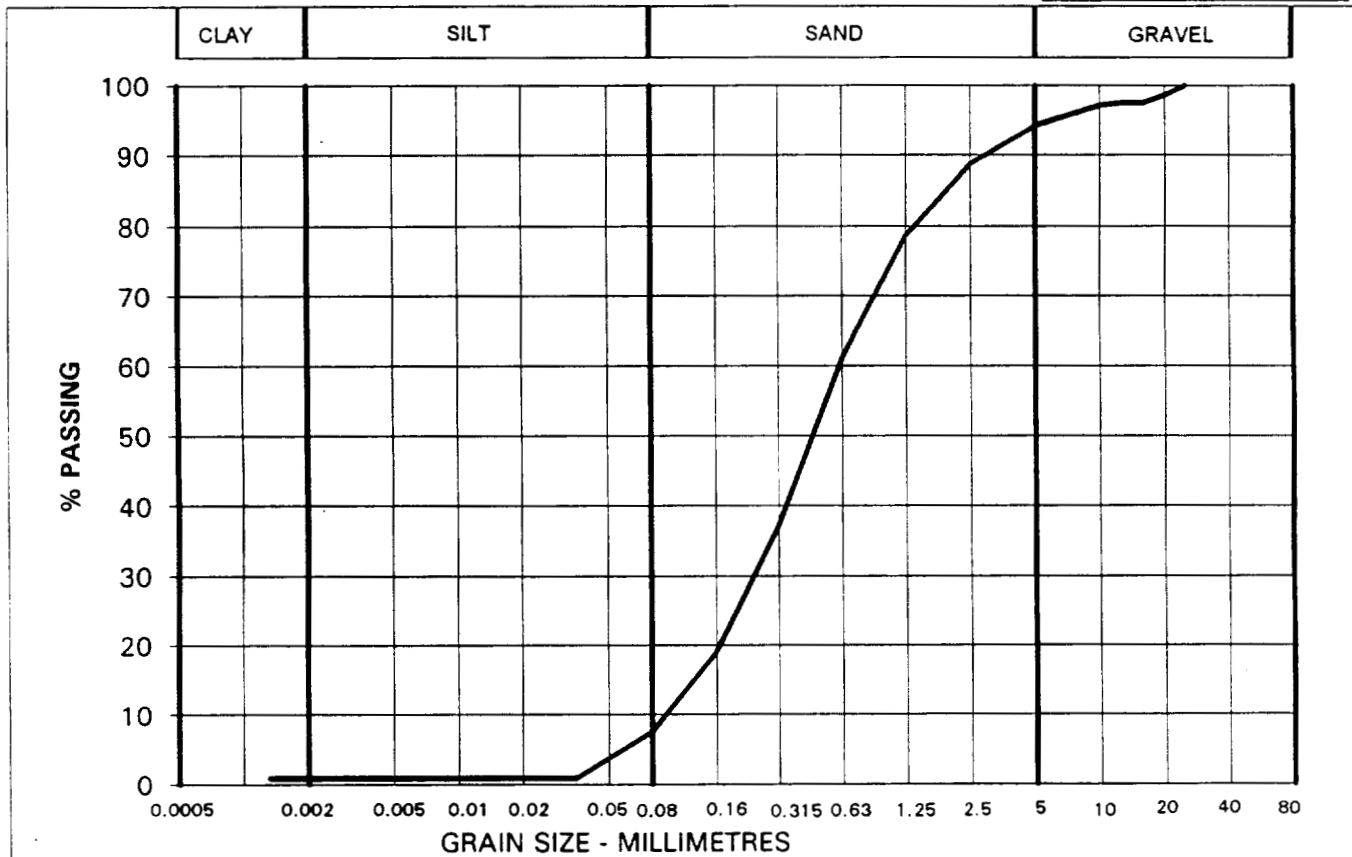
subrounded, brown.

Cu: **6.6** Cc: **1.0**

WATER CONTENT: **1.6%**

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	99
16	98
12.5	98
10	97
5	94
2.5	89
1.25	79
0.63	61
0.315	37
0.16	19
0.08	7.6



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **95 02 15** BY: **tj**

TESTPIT NO: **th d23d**

DEPTH: **0.15 - 0.70**

SOIL DESCRIPTION _____

SAND and SILT(SM - ML), some gravel,

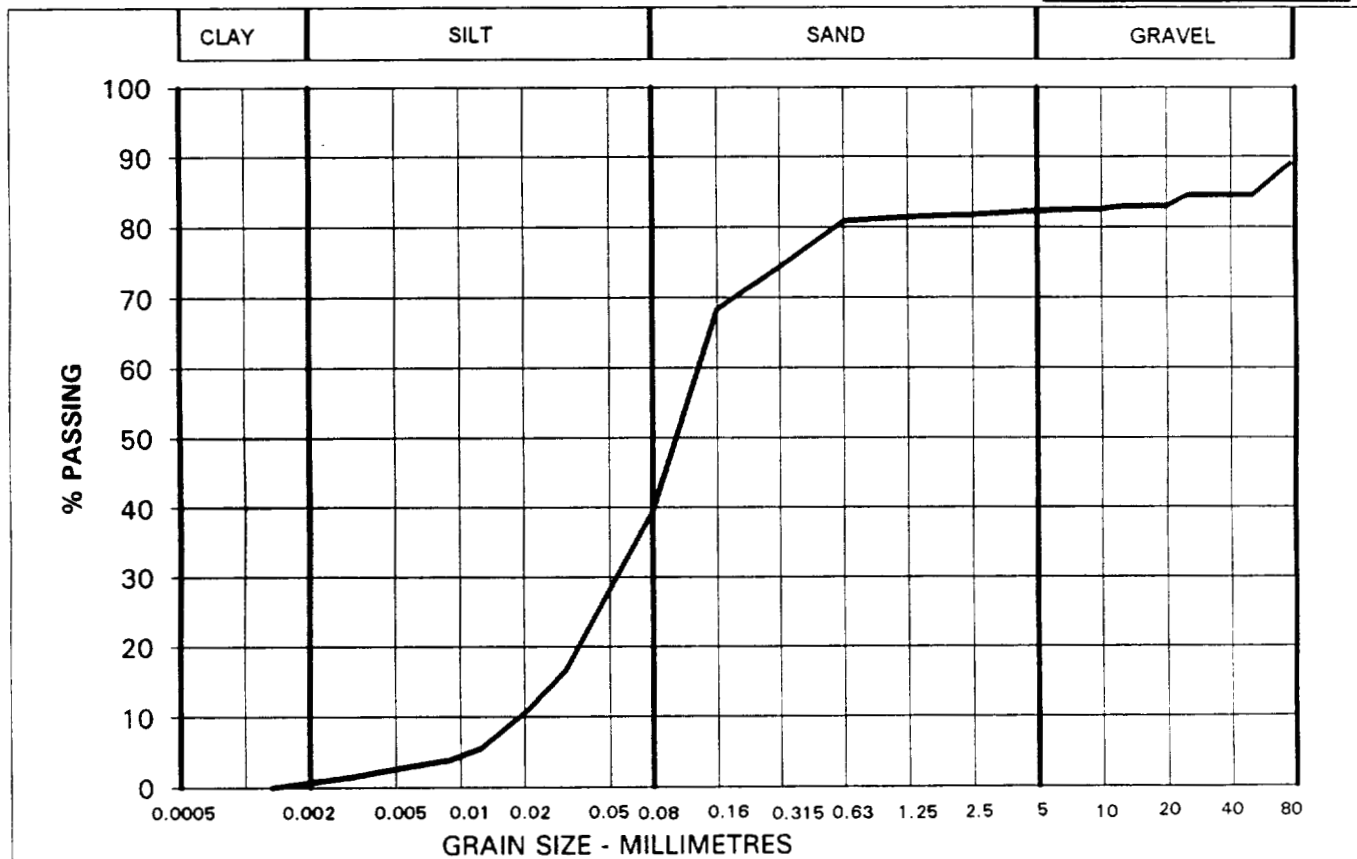
med - fine-grained, subrounded, brown.

Cu: **7.0** Cc: **1.2**

WATER CONTENT: **3.9%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	89
50	84
40	84
25	84
20	83
16	83
12.5	83
10	83
5	82
2.5	82
1.25	81
0.63	81
0.315	74
0.16	68
0.08	39.6



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **94 11 02** BY: **ht**

TESTPIT NO: **th d26d**

DEPTH: **0.15 - 0.80**

SOIL DESCRIPTION _____

SILT(ML), sandy, trace organics,

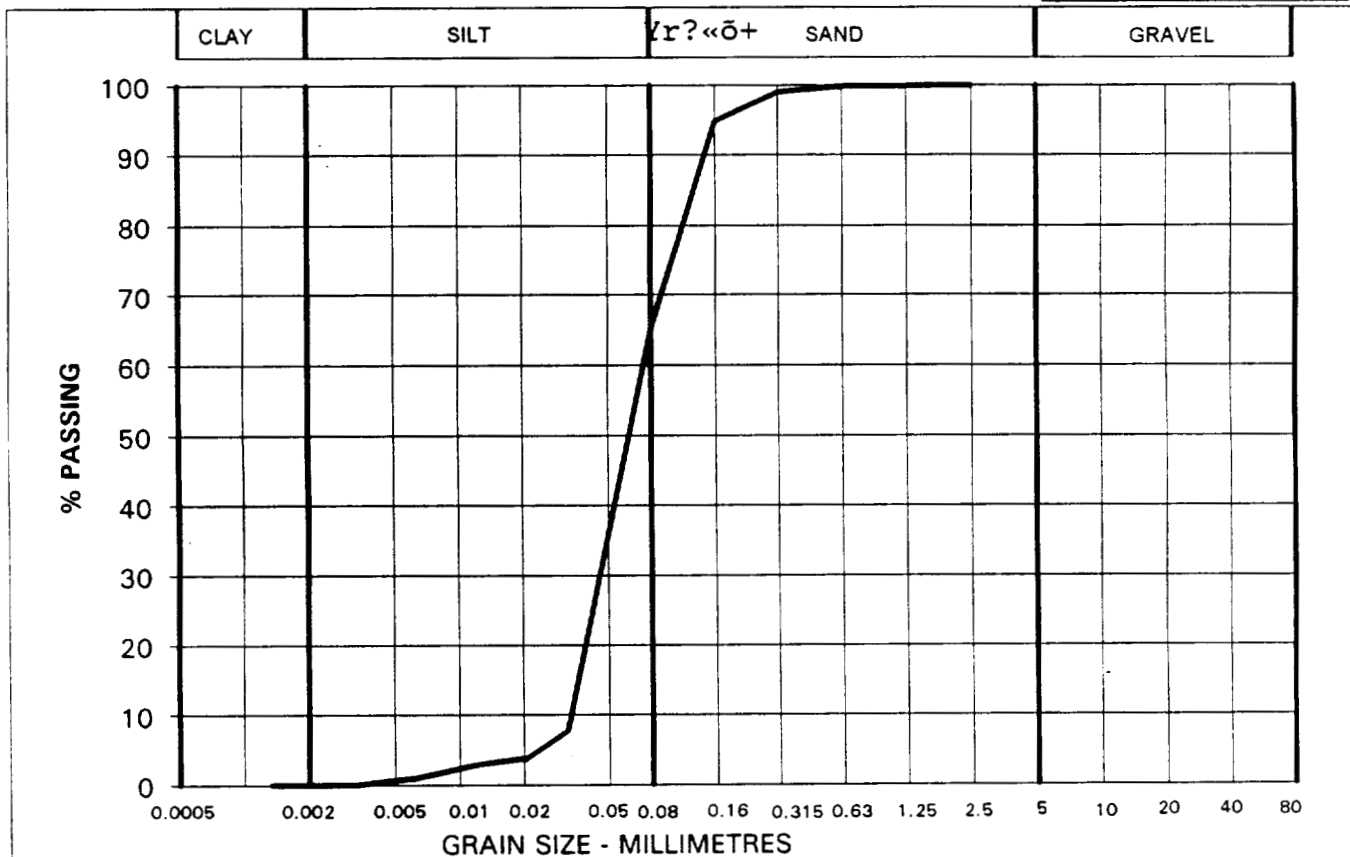
fine-grained, uniform, subrounded, brown.

Cu: **2.2** Cc: **0.9**

WATER CONTENT: **14.5%**

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	
2.5	100
1.25	100
0.63	100
0.315	99
0.16	95
0.08	65.2



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **95 02 15** BY: **tj**

TESTPIT NO: **th d28d**

DEPTH: **0.15 - 0.8**

SOIL DESCRIPTION _____

SAND(SM), some silt, trace gravel, some organics,

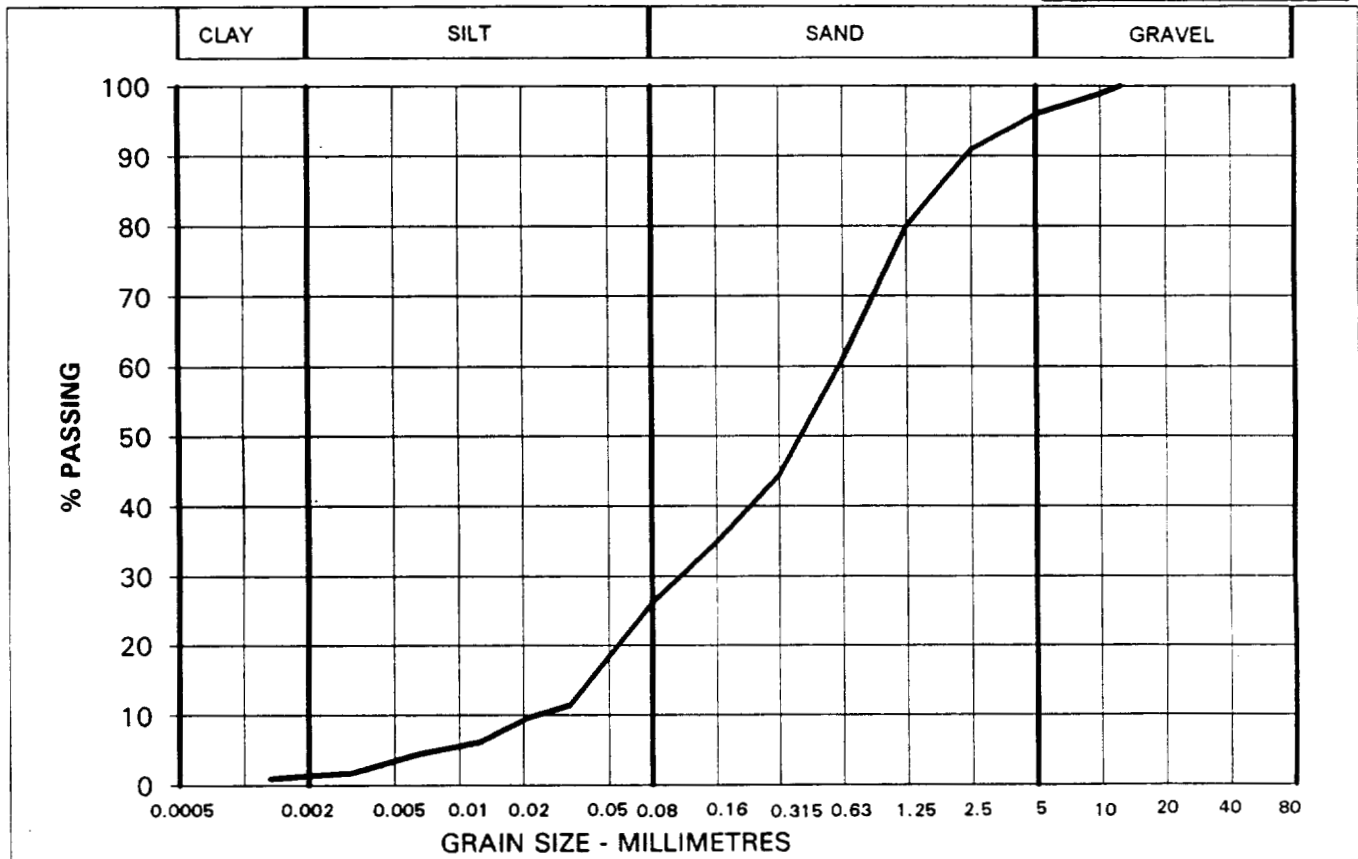
subrounded, dark brown.

Cu: **26.5** Cc: **0.9**

WATER CONTENT: **27.3%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	99
5	96
2.5	91
1.25	80
0.63	61
0.315	44
0.16	35
0.08	26.1



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: GNWT Esker Study

ADDRESS: _____

PROJECT NO: 0701-11546

DATE TESTED: 94 11 02 BY: ht

TESTPIT NO: th d36d

DEPTH: 0.15 - 0.70

SOIL DESCRIPTION _____

SILT(ML), sandy, trace organics,

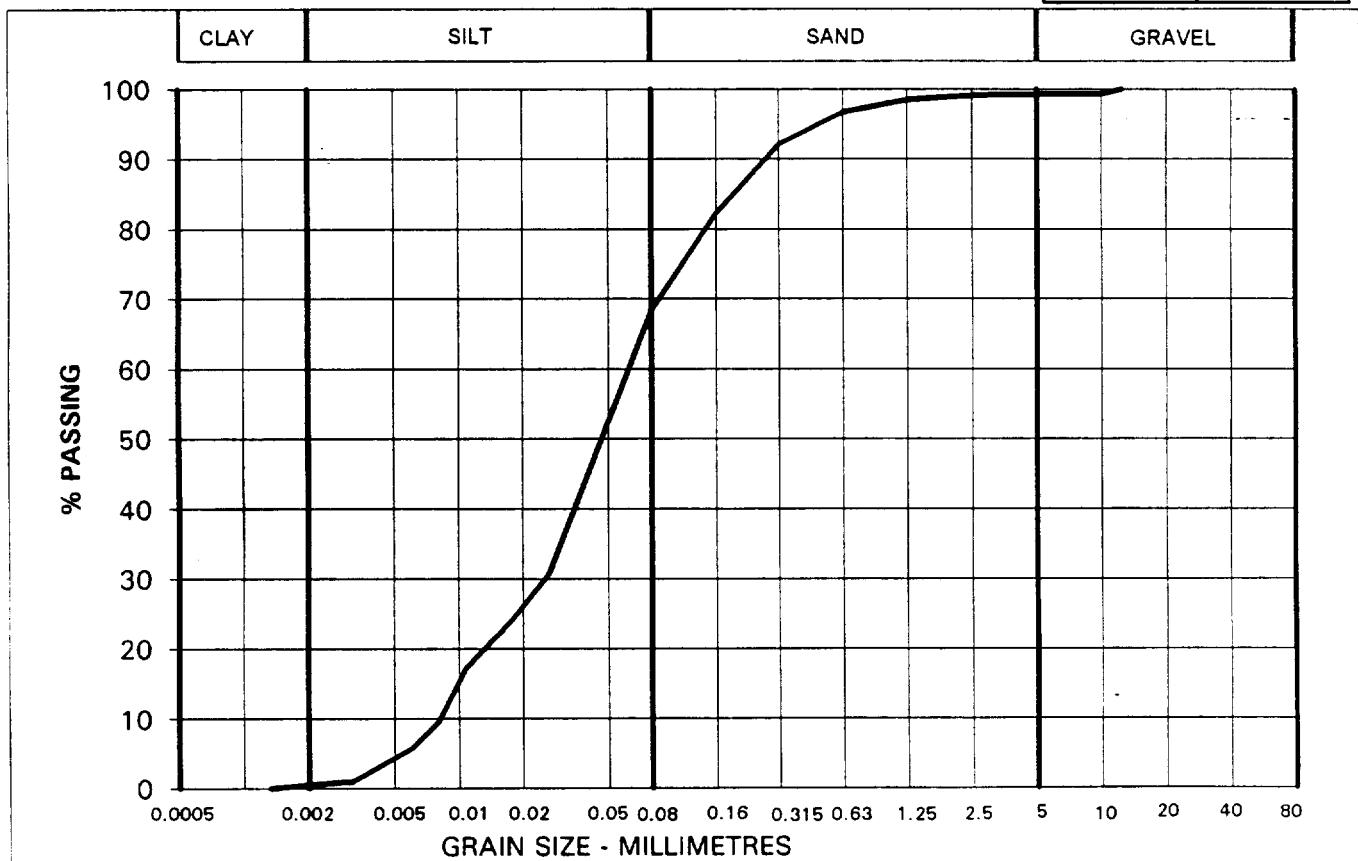
uniform, light grey.

Cu: 7.6 Cc: 1.2

WATER CONTENT: 4.7% %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	100
10	99
5	99
2.5	99
1.25	99
0.63	97
0.315	92
0.16	82
0.08	68.4



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **94 11 02** BY: **ht**

TESTPIT NO: **th d36gc**

DEPTH: **0.15 - 0.60**

SOIL DESCRIPTION _____

SILT(ML), sandy, trace organics,

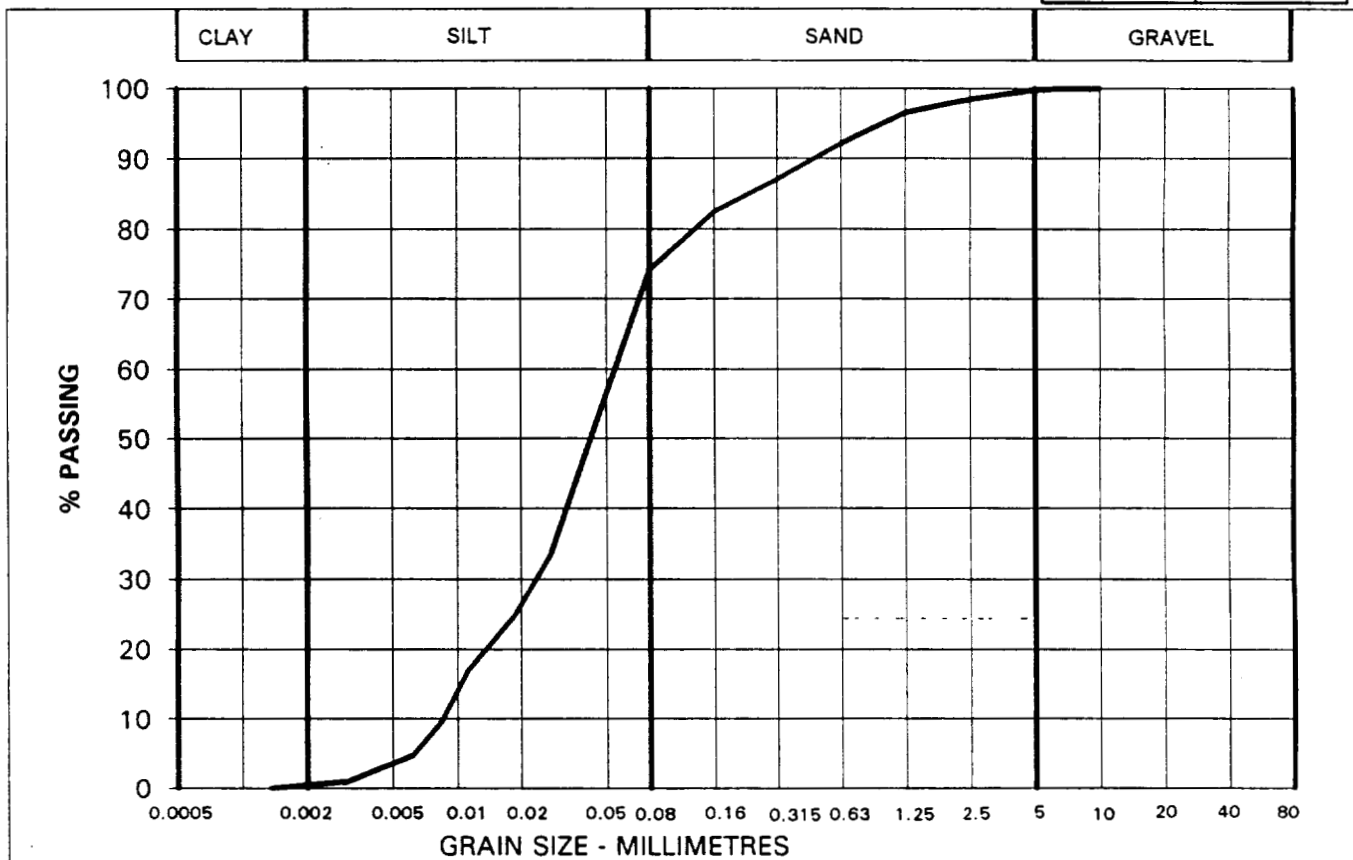
fine-grained, uniform, subangular, grey.

Cu: **6.4** Cc: **1.2**

WATER CONTENT: **9.4%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	99
1.25	97
0.63	92
0.315	87
0.16	83
0.08	74.2



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **94 11 02** BY: **ht**

TESTPIT NO: **th d42d**

DEPTH: **0.15 - 0.6**

SOIL DESCRIPTION _____

SILT and SAND(ML -SM), trace gravel,

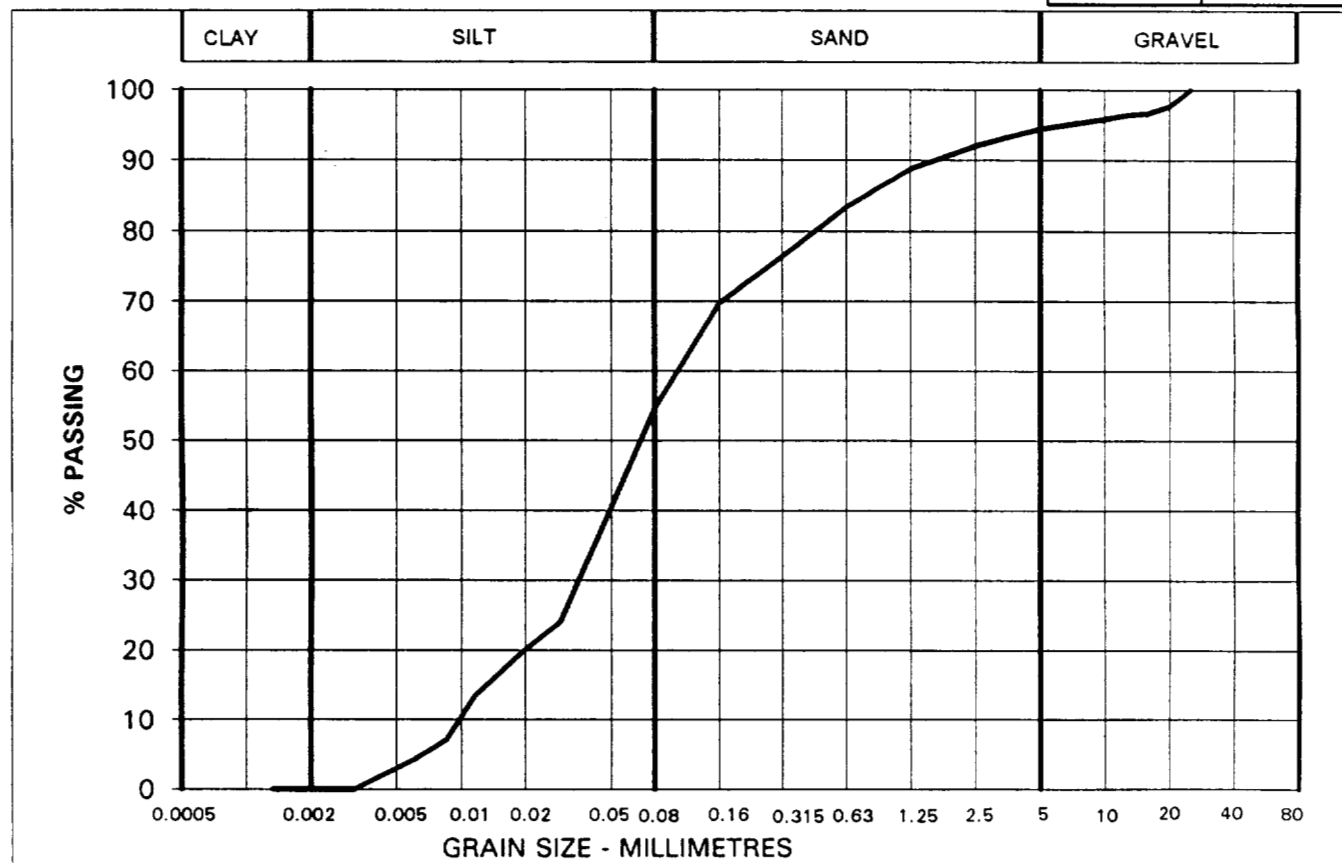
some organics, subrounded, light brown.

Cu: **10.4** Cc: **1.2**

WATER CONTENT: **7.6%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	98
16	97
12.5	96
10	96
5	95
2.5	92
1.25	89
0.63	83
0.315	76
0.16	70
0.08	54.6



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **94 11 02** BY: **ht**

TESTPIT NO: **th d59d**

DEPTH: **0.15 - 0.80**

SOIL DESCRIPTION _____

SAND and SILT(SM - ML), some organics,

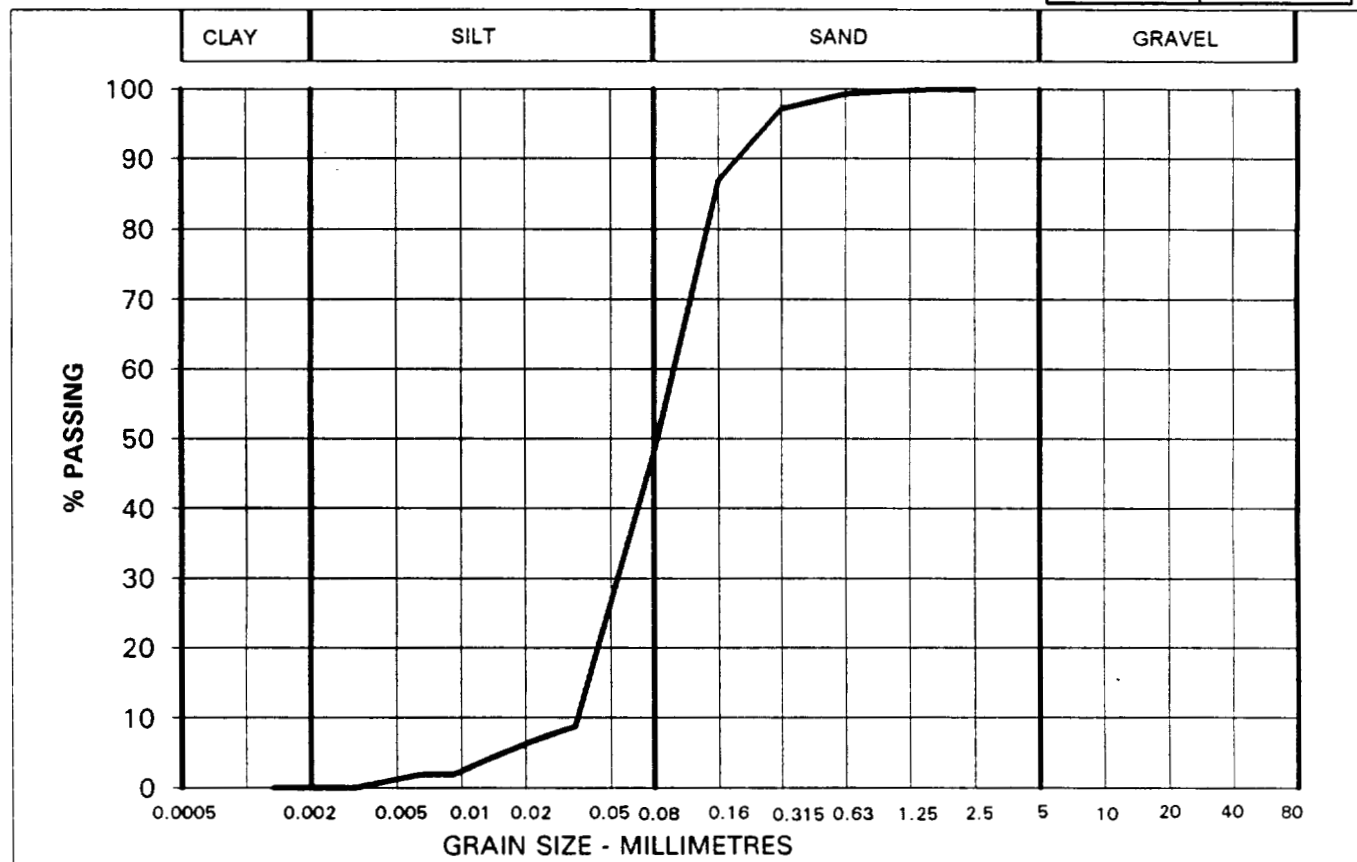
subrounded, medium brown.

Cu: **2.8** Cc: **0.8**

WATER CONTENT: **9.7%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	
2.5	100
1.25	100
0.63	99
0.315	97
0.16	87
0.08	48.1



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **94 11 02** BY: **ht**

TESTPIT NO: **th d102d**

DEPTH: **0.15 - 0.75**

SOIL DESCRIPTION _____

SILT(ML), sandy,

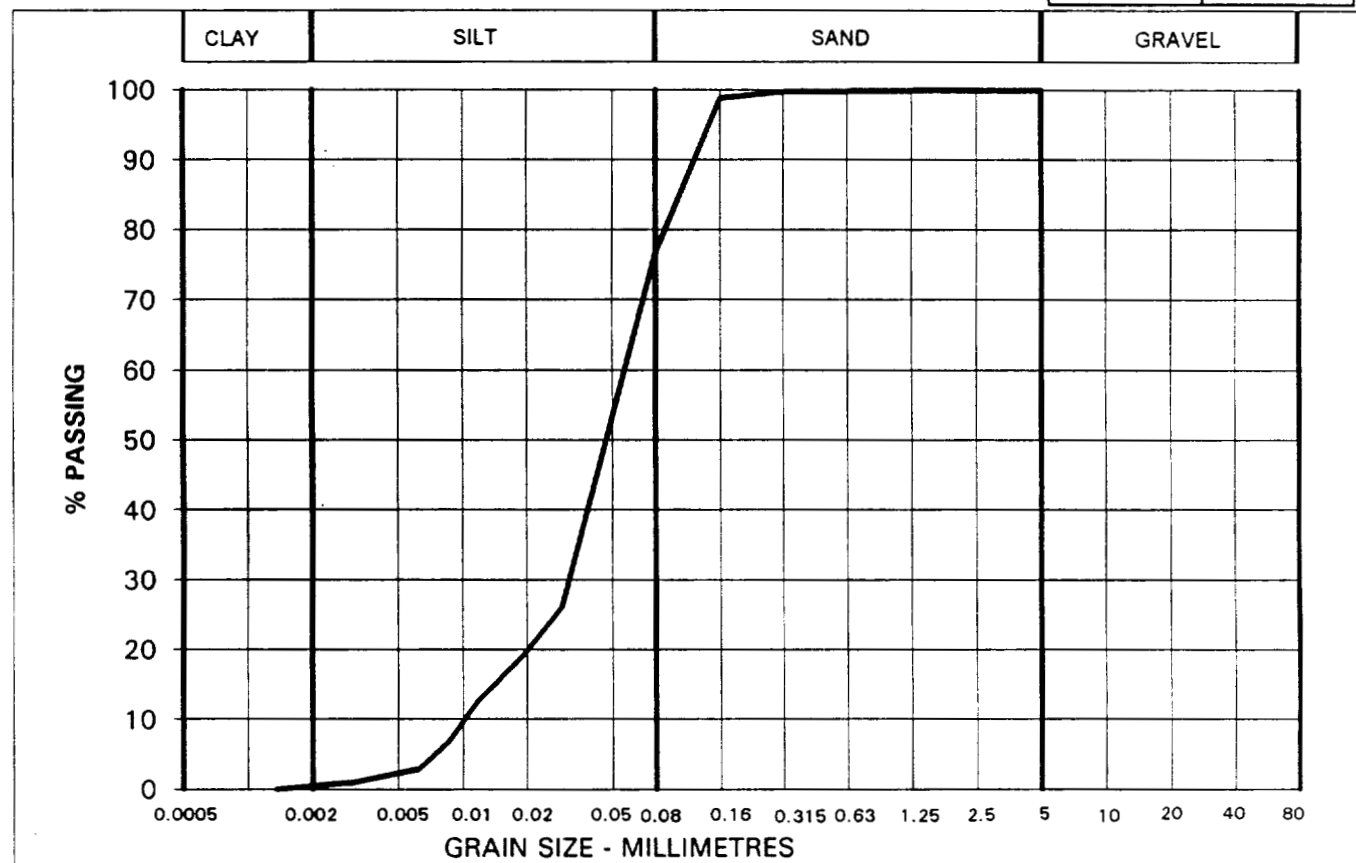
trace organics, light grey.

Cu: **5.6** Cc: **1.7**

WATER CONTENT: **11.7%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	
5	100
2.5	100
1.25	100
0.63	100
0.315	100
0.16	99
0.08	76.7



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **95 02 15** BY: **tj**

TESTPIT NO: **th d109gc**

DEPTH: **0.15 - 0.75**

SOIL DESCRIPTION _____

SAND and SILT(SM - ML).

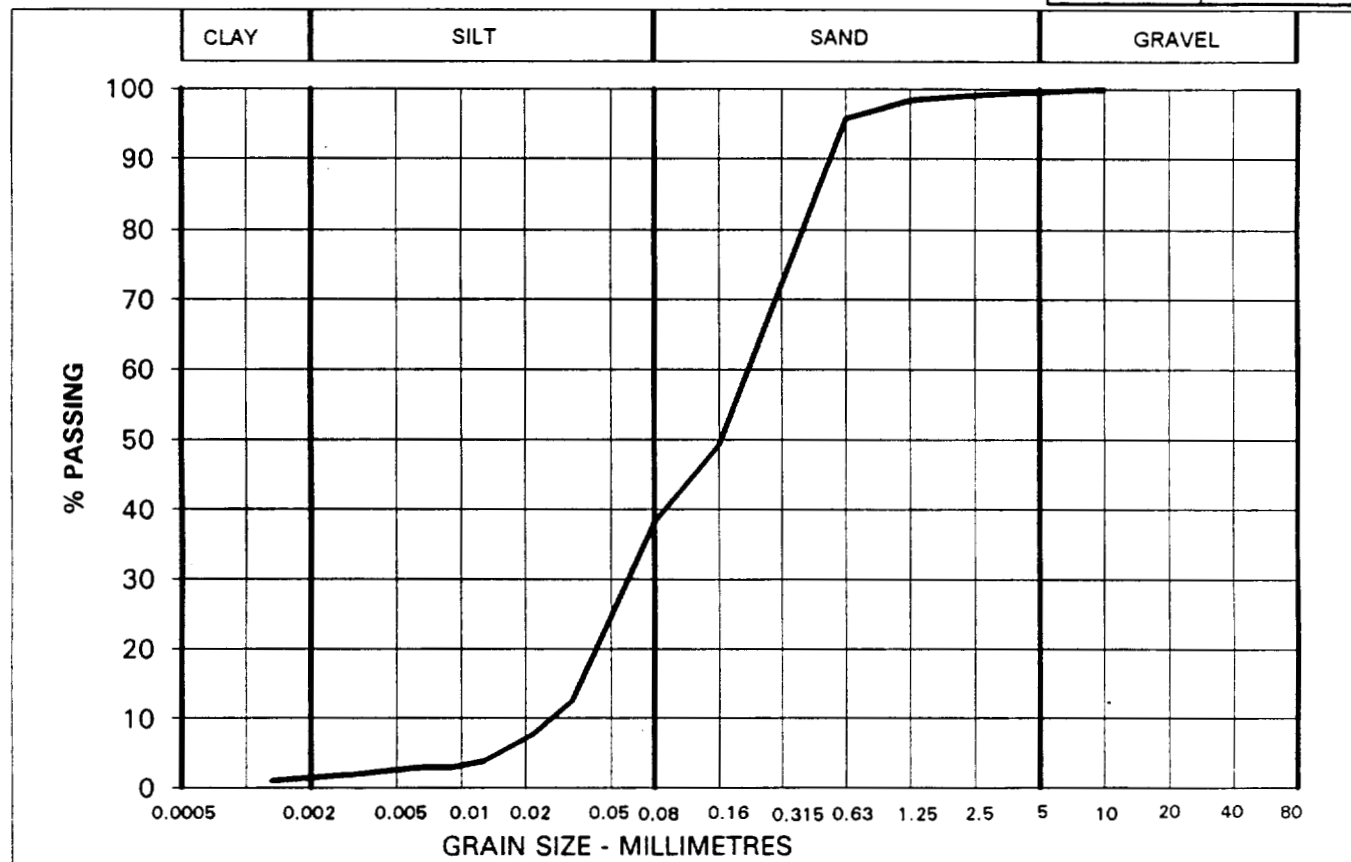
some organics, fine-grained, uniform, dark brown.

Cu: **8.3** Cc: **0.6**

WATER CONTENT: **12.3%**

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	
20	
16	
12.5	
10	100
5	100
2.5	99
1.25	98
0.63	96
0.315	72
0.16	49
0.08	38.2



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **94 11 02** BY: **ht**

TESTPIT NO: **th d115d**

DEPTH: **0.15 - 0.75**

SOIL DESCRIPTION _____

SAND(SM), some silt, trace gravel,

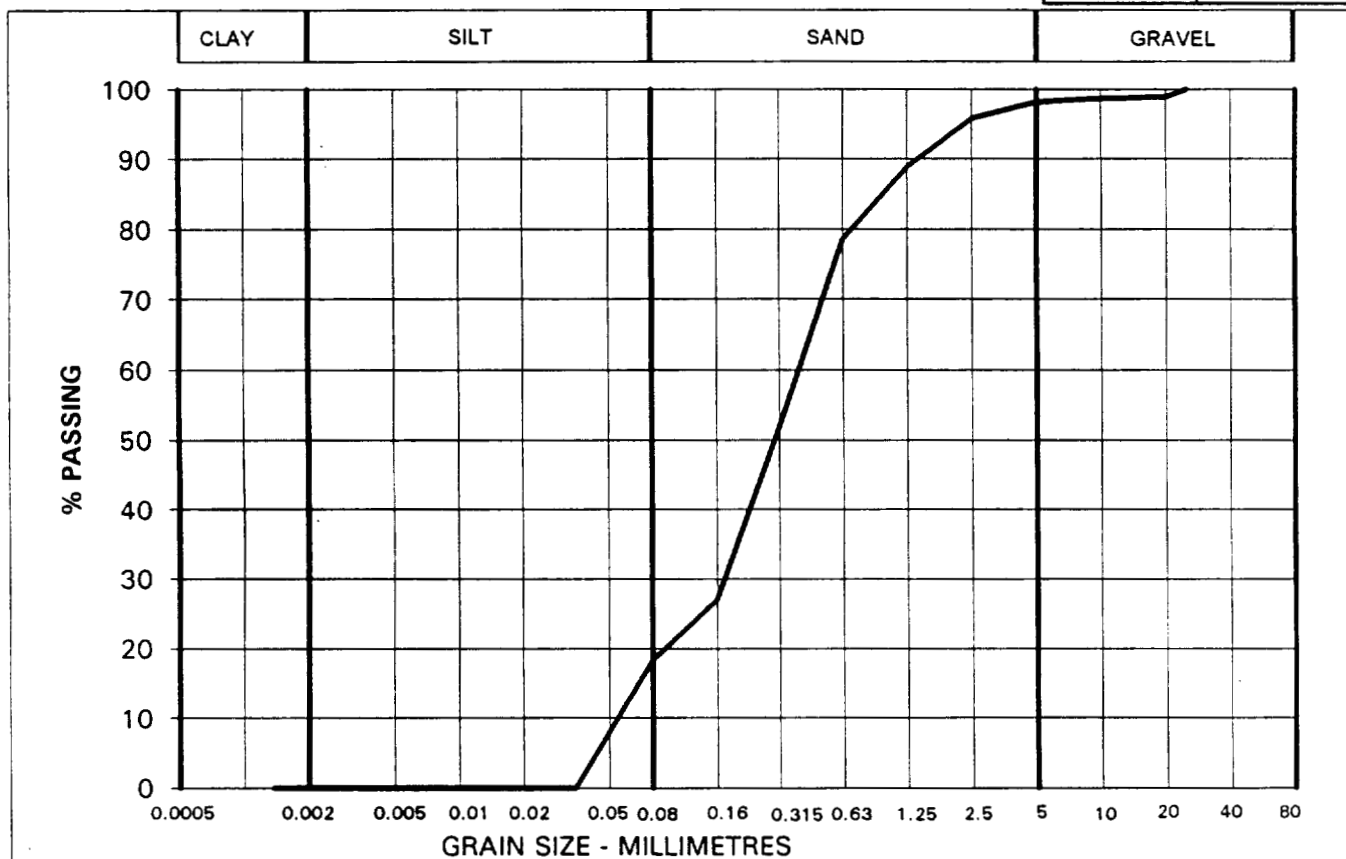
trace organics, subrounded, light grey.

Cu: **7.1** Cc: **1.4**

WATER CONTENT: **2.0%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	
40	
25	100
20	99
16	99
12.5	99
10	99
5	98
2.5	96
1.25	89
0.63	79
0.315	52
0.16	27
0.08	18.4



EBA Engineering Consultants Ltd.

PARTICLE - SIZE ANALYSIS OF SOILS

PROJECT: **GNWT Esker Study**

ADDRESS: _____

PROJECT NO: **0701-11546**

DATE TESTED: **95 02 15** BY: **tj**

TESTPIT NO: **th d116gc**

DEPTH: **0.15 - 0.7**

SOIL DESCRIPTION _____

SILT(ML), sandy, trace gravel,

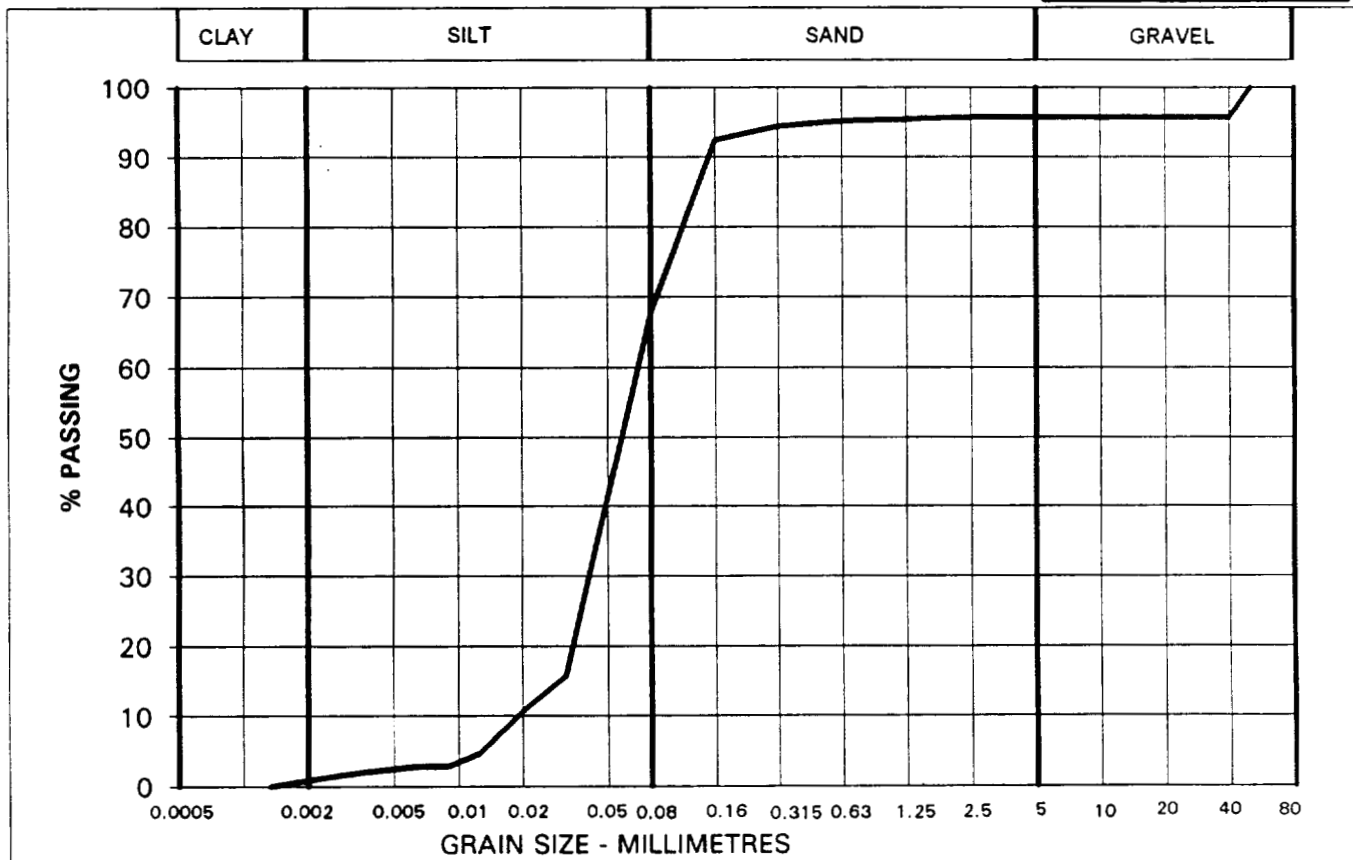
trace organics, very fine-graded, uniform, subangular, grey.

Cu: **3.7** Cc: **1.3**

WATER CONTENT: **12.0%** %

REMARKS: _____

SIEVE	PERCENT
SIZE	PASSING
75	
50	100
40	96
25	96
20	96
16	96
12.5	96
10	96
5	96
2.5	96
1.25	95
0.63	95
0.315	94
0.16	92
0.08	67.7



APPENDIX D
EXCEL FILE DISKS