

Datarapport: Kornstørrelsesfordeling Laboratorieanalyser for Miljøstyrelsen

Miljøstyrelsens råstofundersøgelser 2021

Pernille Stockmarr & Christina Rosenberg Lynge

Datarapport: Kornstørrelsesfordeling Laboratorieanalyser for Miljøstyrelsen

Miljøstyrelsens råstofundersøgelser 2021

Pernille Stockmarr & Christina Rosenberg Lynge

Prøvebehandling

GEUS har foretaget analyser på 54 sedimentprøver.

Ved modtagelsen af prøverne er de blevet registreret med følgende 5 kategorier:

- dato
- lokalitet
- fortløbende laboratorienummer
- rekvirent
- analysekrav

Analysemetoder

Sigteanalyse:

Totalprøven er tørret og sigtet som beskrevet i DS405.9 DS/EN 933-1 med følgende sigter

32 - 16 - 8 - 4 - 2,8 - 2 - 1,4 - 1 - 0,710 - 0,500 - 0,355 - 0,250 - 0,180 - 0,125 - 0,090 - 0,075 - 0,063 (mm) svarende til ½ phi sigtning.

Resultater

I bilag 1 er vist kornkurverne for sedimentprøverne. Kornkurven viser fordeling af sand, silt og ler i prøverne.

Referencer

Dansk Standard DS 405.9. Kornstørrelsesfordeling bestemt ved sigteanalyse. Dansk Standardiseringsråd, Kbh. 1978

DS/EN 933-1. Kornstørrelsesfordeling bestemt ved sigteanalyse Dansk Standardiseringsråd, Kbh. 2004

Miljøstyrelsens råstofundersøgelser 2021

labnr.	mærkning	dybde	
210097	HD-02	0-290	cm
210098	HD-04	0-200	cm
210099	HD-06	0-100	cm
210100	HD-06	200-300	cm
210101	HD-06	300-400	cm
210102	HD-12	0-65	cm
210103	HD-12	65-150	cm
210104	HD-12	160-430	cm
210105	HD-12	430-600	cm
210106	HD-13	0-200	cm
210107	HD-13	200-400	cm
210108	HD-14	80-160	cm
210109	HD-14	160-280	cm
210110	HD-15	0-65	cm
210111	HD-15	80-180	cm
210112	HD-16	0-110	cm
210113	HD-16	110-160	cm
210114	HD-16	160-325	cm
210115	HD-16	325-489	cm
210116	HD-20	0-160	cm
210117	HD-20	180-210	cm
210118	HD-20	210-270	cm
210119	HD-20	360-460	cm
210120	BF-01	0-80	cm
210121	BF-01	80-120	cm
210122	BF-02	0-100	cm
210123	BF-02	110-350	cm
210124	BF-03	0-200	cm
210125	BF-04	0-25	cm
210126	BF-04	25-100	cm
210127	BF-05	0-85	cm
210128	BF-05	100-200	cm
210129	BF-06	0-145	cm
210130	BF-06	145-300	cm
210131	GR-05	0-200	cm
210132	GR-06	0-300	cm
210133	GR-06	380-510	cm
210134	GR-08	0-300	cm
210135	GR-11	0-300	cm
210136	VF-01	0-25	cm
210137	VF-01	25-160	cm
210138	VF-06	0-140	cm

labnr.	mærkning	dybde	
210139	VF-06	140-230	cm
210140	VF-07	20-180	cm
210141	SN-02	0-200	cm
210142	SN-02	400-578	cm
210143	NB-01	0-16	cm
210144	NB-01	16-30	cm
210145	NB-01	160-200	cm
210146	MF-01	0-135	cm
210147	MF-01	135-400	cm
210148	LG-01	0-150	cm
210149	RS-01	0-200	cm
210150	KN-01	0-300	cm

Bilag 1

Grain Size Distribution

Geotechnical

Sample Id: HD-02, 0-290
Lab. Id: 210097
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >2,8mm heraf 0,3g skaller



Total Weight 103,03 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	1,06	1,03	98,97
4,00	-2,00	0,31	0,30	98,67
2,80	-1,49	0,29	0,28	98,39
2,00	-1,00	0,27	0,26	98,13
1,40	-0,49	0,35	0,34	97,79
1,00	0,00	0,42	0,41	97,38
0,710	0,49	0,59	0,57	96,81
0,500	1,00	1,21	1,17	95,63
0,355	1,49	4,46	4,33	91,30
0,250	2,00	18,69	18,14	73,16
0,180	2,47	26,28	25,51	47,66
0,125	3,00	32,01	31,07	16,59
0,090	3,47	8,94	8,68	7,91
0,075	3,74	1,10	1,07	6,84
0,063	3,99	0,60	0,58	6,26
< 0,063	> 3,99	6,45	6,26	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	6,26
Sand, fine (0,063 mm - 0,200 mm):	48,68
Sand, medium (0,2 mm - 0,6 mm):	41,25
Sand, coarse (0,6 mm - 2 mm):	1,94
Gravel (> 2 mm):	1,87
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,48	1,06
16%	84%	0,31	1,68
25%	75%	0,26	1,94
40%	60%	0,21	2,23
Median 50%	50%	0,19	2,42
75%	25%	0,14	2,84
84%	16%	0,12	3,03
90%	10%	0,10	3,34
95%	5%	-----	-----

Moments Statistics

Mean	2,38
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	2,17

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

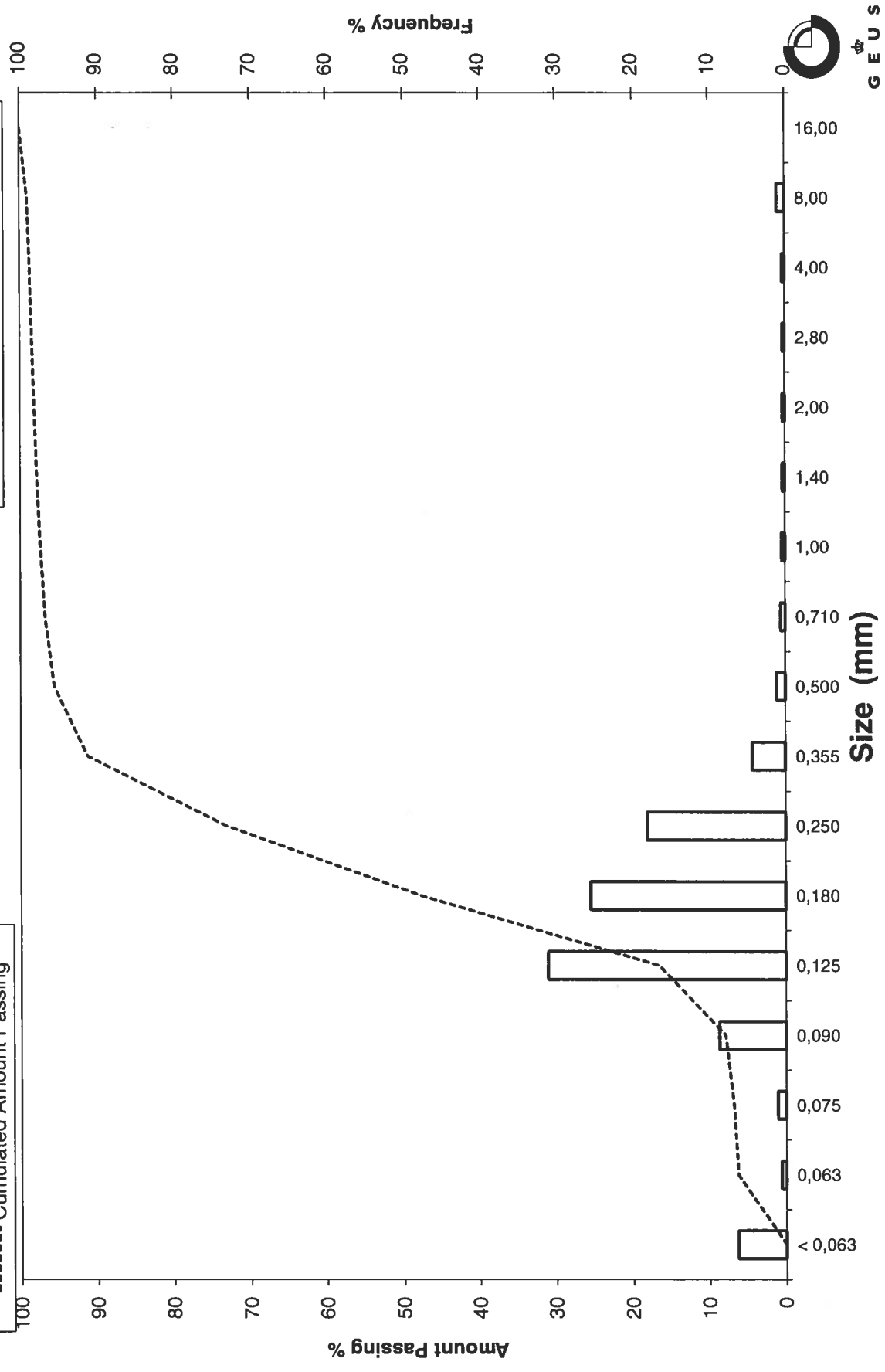
Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Sample Id: HD-02, 0-290

Grain Size Distribution

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-04, 0-200
Lab. Id: 210098
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 106,09 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,00	0,00	100,00
	4,00	-2,00	0,96	0,90	99,10
	2,80	-1,49	0,12	0,11	98,98
	2,00	-1,00	0,15	0,14	98,84
	1,40	-0,49	0,22	0,21	98,63
	1,00	0,00	0,56	0,53	98,11
	0,710	0,49	0,57	0,54	97,57
	0,500	1,00	2,11	1,99	95,58
	0,355	1,49	11,13	10,49	85,09
Sand	0,250	2,00	19,59	18,47	66,62
	0,180	2,47	15,77	14,86	51,76
	0,125	3,00	31,33	29,53	22,23
	0,090	3,47	17,60	16,59	5,64
	0,075	3,74	2,44	2,30	3,34
	0,063	3,99	1,04	0,98	2,36
	< 0,063	> 3,99	2,50	2,36	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	2,36
Sand, fine (0,063 mm - 0,200 mm):	53,65
Sand, medium (0,2 mm - 0,6 mm):	40,52
Sand, coarse (0,6 mm - 2 mm):	2,31
Gravel (> 2 mm):	1,16
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,49	1,02
16%	84%	0,35	1,52
25%	75%	0,30	1,75
40%	60%	0,22	2,19
Median 50%	50%	0,18	2,50
75%	25%	0,13	2,94
84%	16%	0,11	3,16
90%	10%	0,10	3,33
95%	5%	0,09	3,54

Moments Statistics

Mean	2,39
Sorting	0,79
Skewness	-0,18
Kurtosis	0,87
Uniformity Coefficient	2,21

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

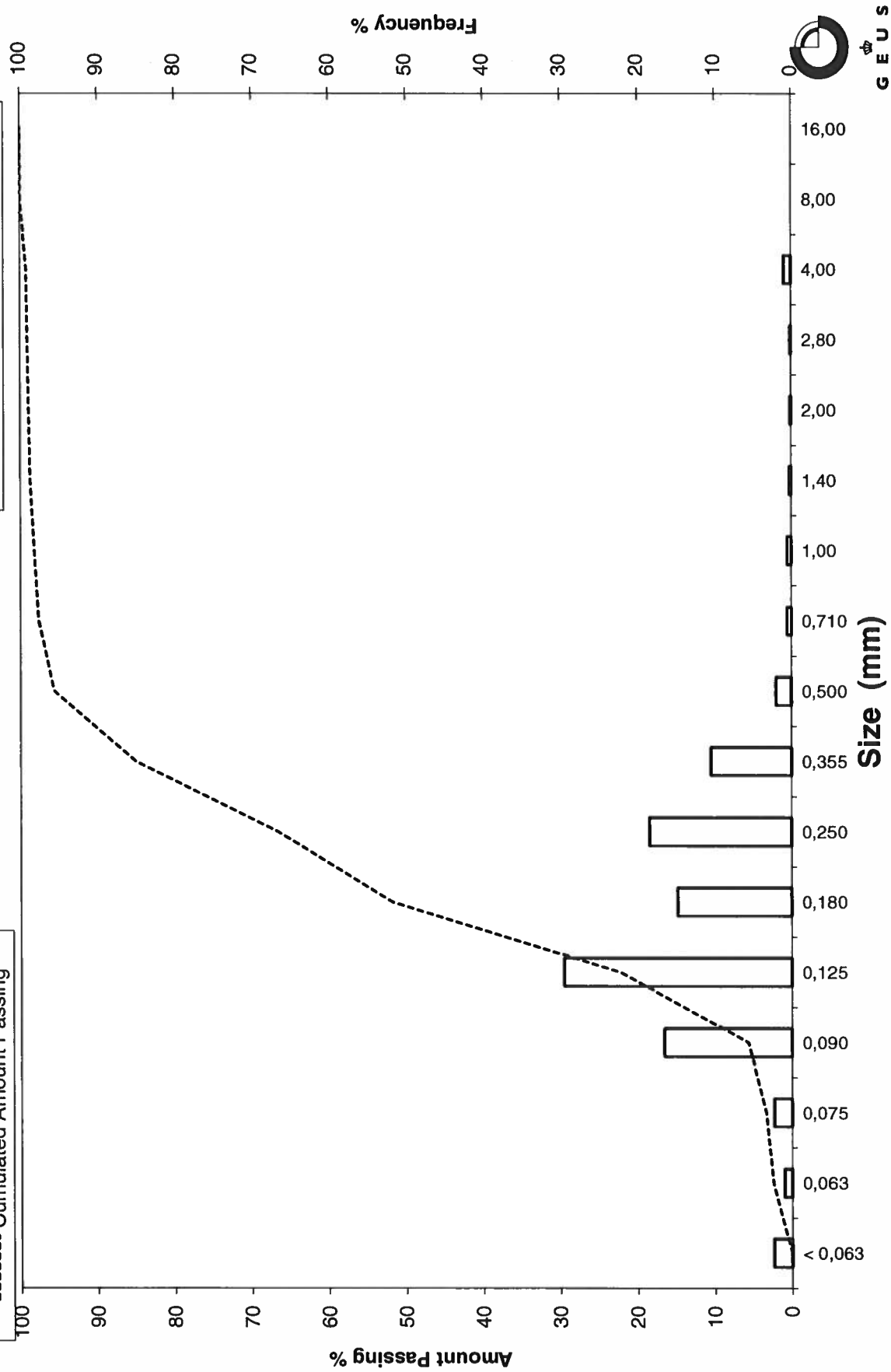
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: HD-04, 0-200

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-06, 0-100
Lab. Id: 210099
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 107,71 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	9,76	9,06	90,94
	4,00	-2,00	1,41	1,31	89,63
	2,80	-1,49	1,26	1,17	88,46
	2,00	-1,00	0,76	0,71	87,75
	1,40	-0,49	1,22	1,13	86,62
	1,00	0,00	1,80	1,67	84,95
	0,710	0,49	3,21	2,98	81,97
	0,500	1,00	10,14	9,41	72,56
	0,355	1,49	18,48	17,16	55,40
Sand	0,250	2,00	27,08	25,14	30,26
	0,180	2,47	18,92	17,57	12,69
	0,125	3,00	9,40	8,73	3,96
	0,090	3,47	1,84	1,71	2,26
	0,075	3,74	0,38	0,35	1,90
	0,063	3,99	0,25	0,23	1,67
	< 0,063	> 3,99	1,80	1,67	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,67
Sand, fine (0,063 mm - 0,200 mm):	16,04
Sand, medium (0,2 mm - 0,6 mm):	59,33
Sand, coarse (0,6 mm - 2 mm):	10,72
Gravel (> 2 mm):	12,25
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	11,59	-3,53
16%	84%	0,91	0,14
25%	75%	0,55	0,85
40%	60%	0,39	1,34
Median 50%	50%	0,33	1,59
75%	25%	0,23	2,13
84%	16%	0,19	2,37
90%	10%	0,16	2,62
95%	5%	0,13	2,93

Moments Statistics

Mean	1,37
Sorting	1,54
Skewness	-0,44
Kurtosis	2,08
Uniformity Coefficient	2,42

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgi-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

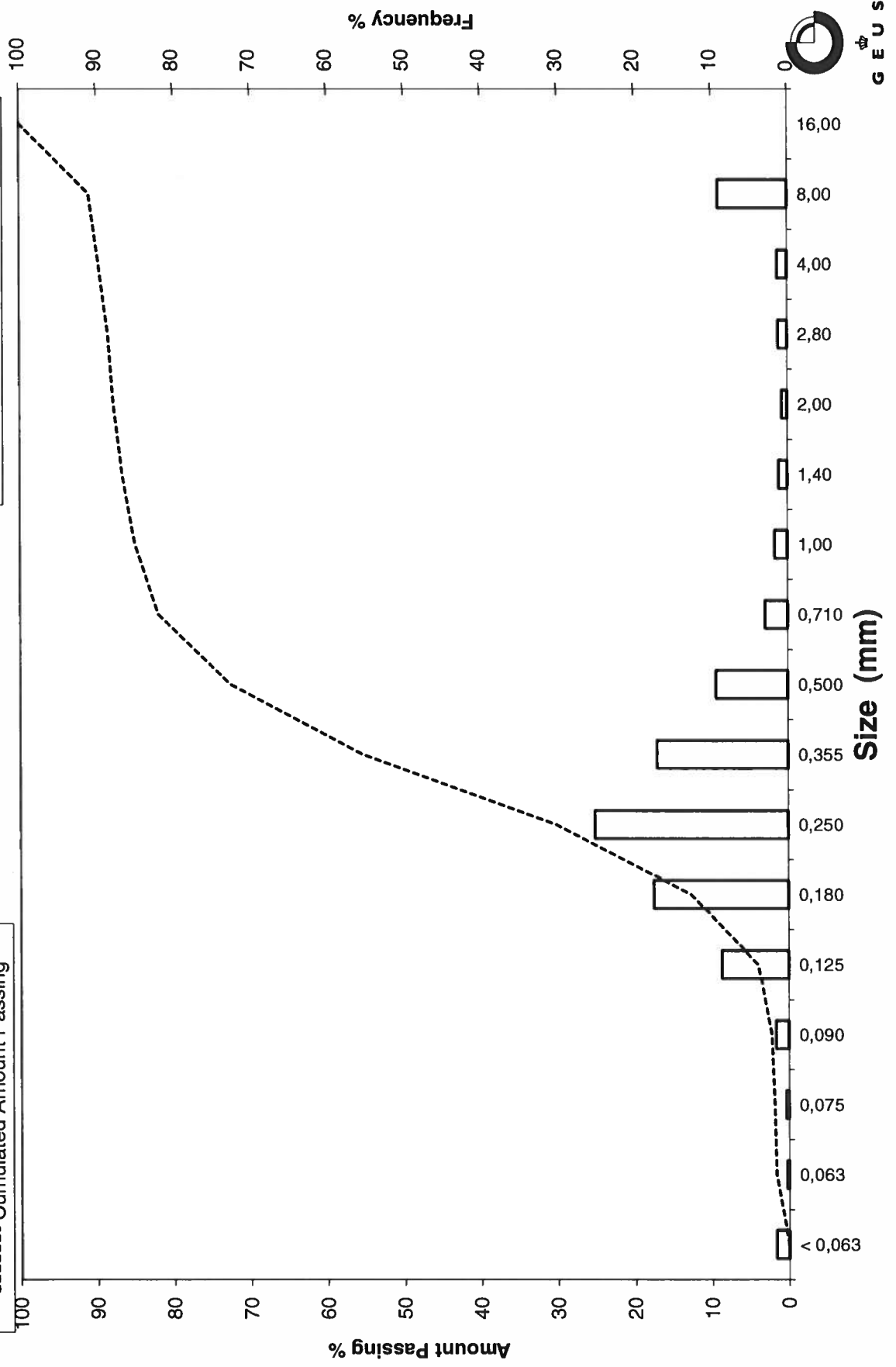
Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: HD-06, 0-100

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-06, 200-300
Lab. Id: 210100
Projekt: MST Råstøfkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 105,75 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,06	0,06	99,94
2,00	-1,00	0,08	0,08	99,87
1,40	-0,49	0,15	0,14	99,73
1,00	0,00	0,63	0,60	99,13
0,710	0,49	1,64	1,55	97,58
0,500	1,00	8,48	8,02	89,56
0,355	1,49	19,92	18,84	70,72
0,250	2,00	29,26	27,67	43,05
0,180	2,47	30,82	29,14	13,91
0,125	3,00	12,23	11,57	2,35
0,090	3,47	1,10	1,04	1,30
0,075	3,74	0,11	0,10	1,20
0,063	3,99	0,05	0,05	1,15
< 0,063	> 3,99	1,22	1,15	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,15
Sand, fine (0,063 mm - 0,200 mm):	21,08
Sand, medium (0,2 mm - 0,6 mm):	71,14
Sand, coarse (0,6 mm - 2 mm):	6,49
Gravel (> 2 mm):	0,13
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,64	0,64
16%	84%	0,46	1,13
25%	75%	0,39	1,37
40%	60%	0,31	1,67
Median 50%	50%	0,28	1,86
75%	25%	0,21	2,27
84%	16%	0,19	2,43
90%	10%	0,16	2,63
95%	5%	0,14	2,86

Moments Statistics

Mean	1,81
Sorting	0,66
Skewness	-0,10
Kurtosis	1,00
Uniformity Coefficient	1,95

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

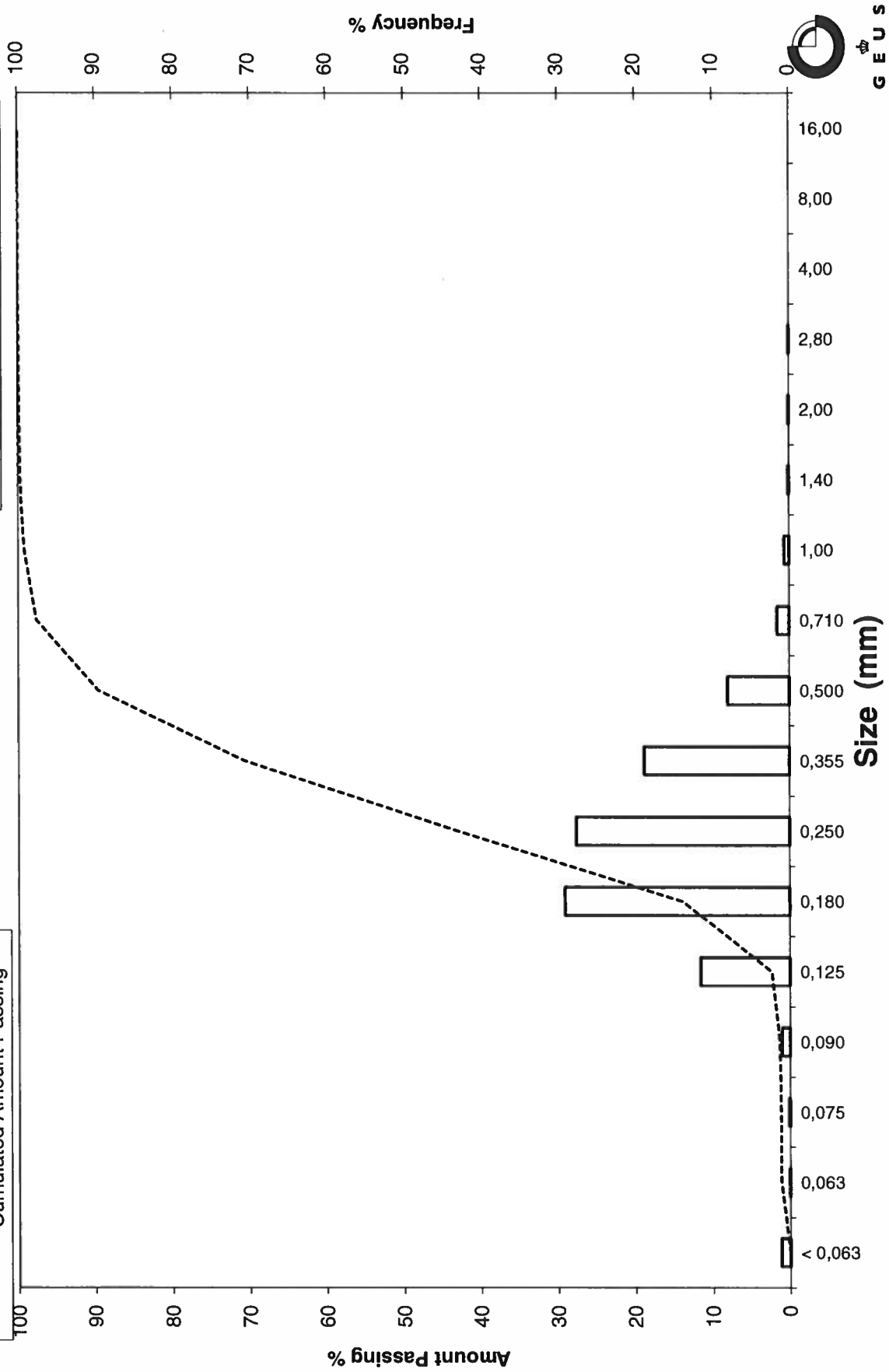
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Sample Id: HD-06, 200-300

Grain Size Distribution

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-06, 300-400
Lab. Id: 210101
Projekt: MST Råstøfkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 108,99 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Sieve Analysis	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,00	0,00	100,00
	4,00	-2,00	0,00	0,00	100,00
	2,80	-1,49	0,26	0,24	99,76
	2,00	-1,00	0,23	0,21	99,55
	1,40	-0,49	0,49	0,45	99,10
	1,00	0,00	1,24	1,14	97,96
	0,710	0,49	3,04	2,79	95,17
	0,500	1,00	12,42	11,40	83,78
	0,355	1,49	23,29	21,37	62,41
	0,250	2,00	30,21	27,72	34,69
	0,180	2,47	24,64	22,61	12,08
	0,125	3,00	10,64	9,76	2,32
	0,090	3,47	1,21	1,11	1,21
	0,075	3,74	0,12	0,11	1,10
	0,063	3,99	0,04	0,04	1,06
	< 0,063	> 3,99	1,16	1,06	0,00
Gravel					
Sand					

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,06
Sand, fine (0,063 mm - 0,200 mm):	17,48
Sand, medium (0,2 mm - 0,6 mm):	70,66
Sand, coarse (0,6 mm - 2 mm):	10,35
Gravel (> 2 mm):	0,45
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,71	0,50
16%	84%	0,50	0,99
25%	75%	0,44	1,18
40%	60%	0,35	1,53
Median 50%	50%	0,31	1,70
75%	25%	0,22	2,18
84%	16%	0,19	2,38
90%	10%	0,17	2,57
95%	5%	0,14	2,84

Moments Statistics

Mean	1,69
Sorting	0,70
Skewness	-0,02
Kurtosis	0,96
Uniformity Coefficient	2,06

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

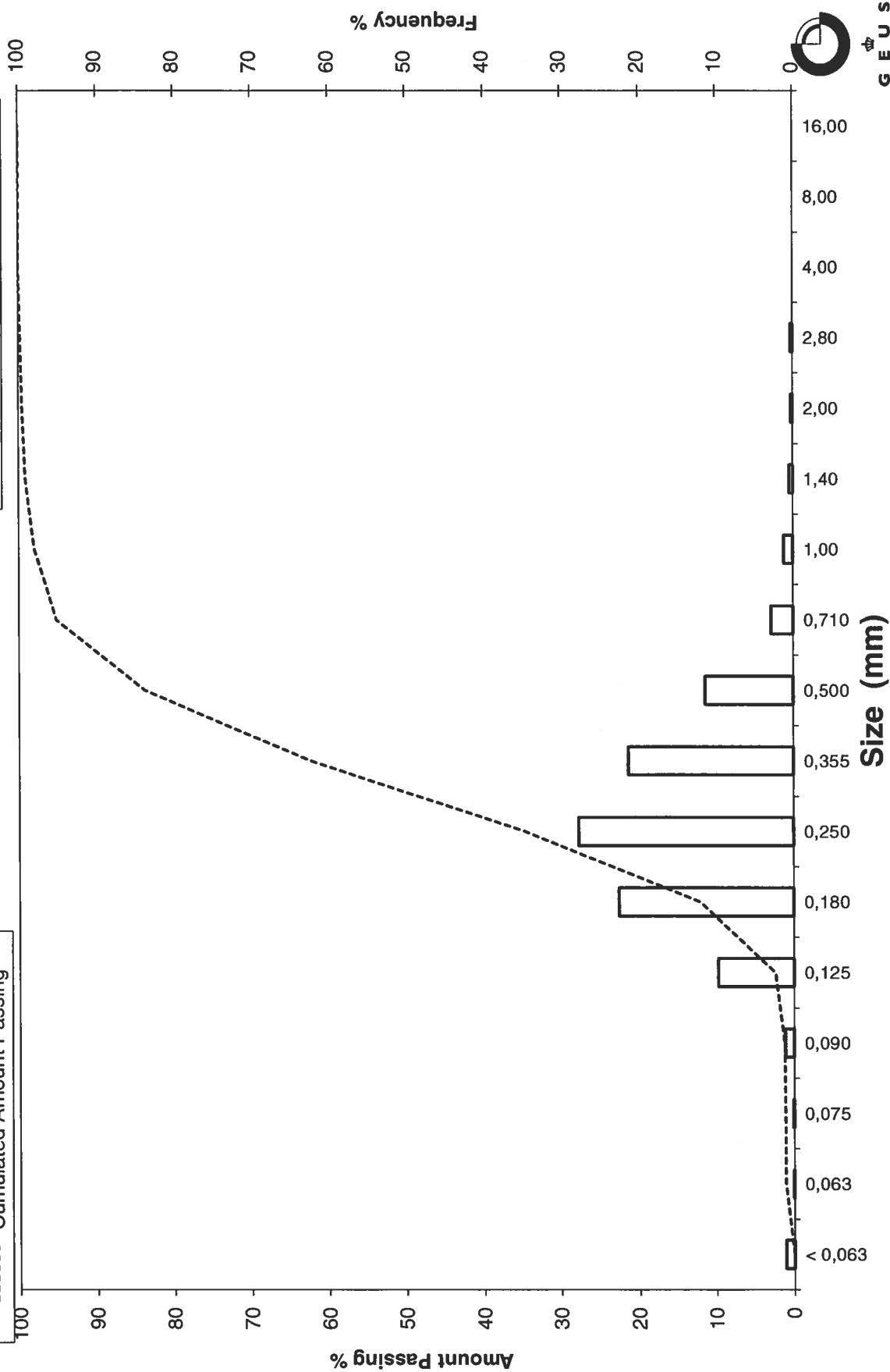
Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Sample Id: HD-06, 300-400

Grain Size Distribution

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-12, 0-65
Lab. Id: 210102
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >4mm heraf 1,5 g skaller



Total Weight 241,35 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	
Gravel	16,00	-4,00	7,93	3,29	96,71
	8,00	-3,00	21,53	8,92	87,79
	4,00	-2,00	17,24	7,14	80,65
	2,80	-1,49	18,09	7,50	73,16
	2,00	-1,00	12,69	5,26	67,90
	1,40	-0,49	11,72	4,86	63,04
	1,00	0,00	18,31	7,59	55,45
	0,710	0,49	19,76	8,19	47,27
	0,500	1,00	30,60	12,68	34,59
	0,355	1,49	36,66	15,19	19,40
Sand	0,250	2,00	23,79	9,86	9,54
	0,180	2,47	10,44	4,33	5,22
	0,125	3,00	6,61	2,74	2,48
	0,090	3,47	2,54	1,05	1,43
	0,075	3,74	0,60	0,25	1,18
	0,063	3,99	0,32	0,13	1,04
	< 0,063	> 3,99	2,52	1,04	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,04
Sand, fine (0,063 mm - 0,200 mm):	5,41
Sand, medium (0,2 mm - 0,6 mm):	34,17
Sand, coarse (0,6 mm - 2 mm):	27,27
Gravel (> 2 mm):	32,10
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	14,46	-3,85
16%	84%	5,88	-2,55
25%	75%	3,10	-1,63
40%	60%	1,24	-0,31
Median 50%	50%	0,81	0,31
75%	25%	0,41	1,29
84%	16%	0,32	1,65
90%	10%	0,25	1,97
95%	5%	0,18	2,51

Moments Statistics

Mean	-0,20
Sorting	2,02
Skewness	-0,34
Kurtosis	0,89
Uniformity Coefficient	4,86

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

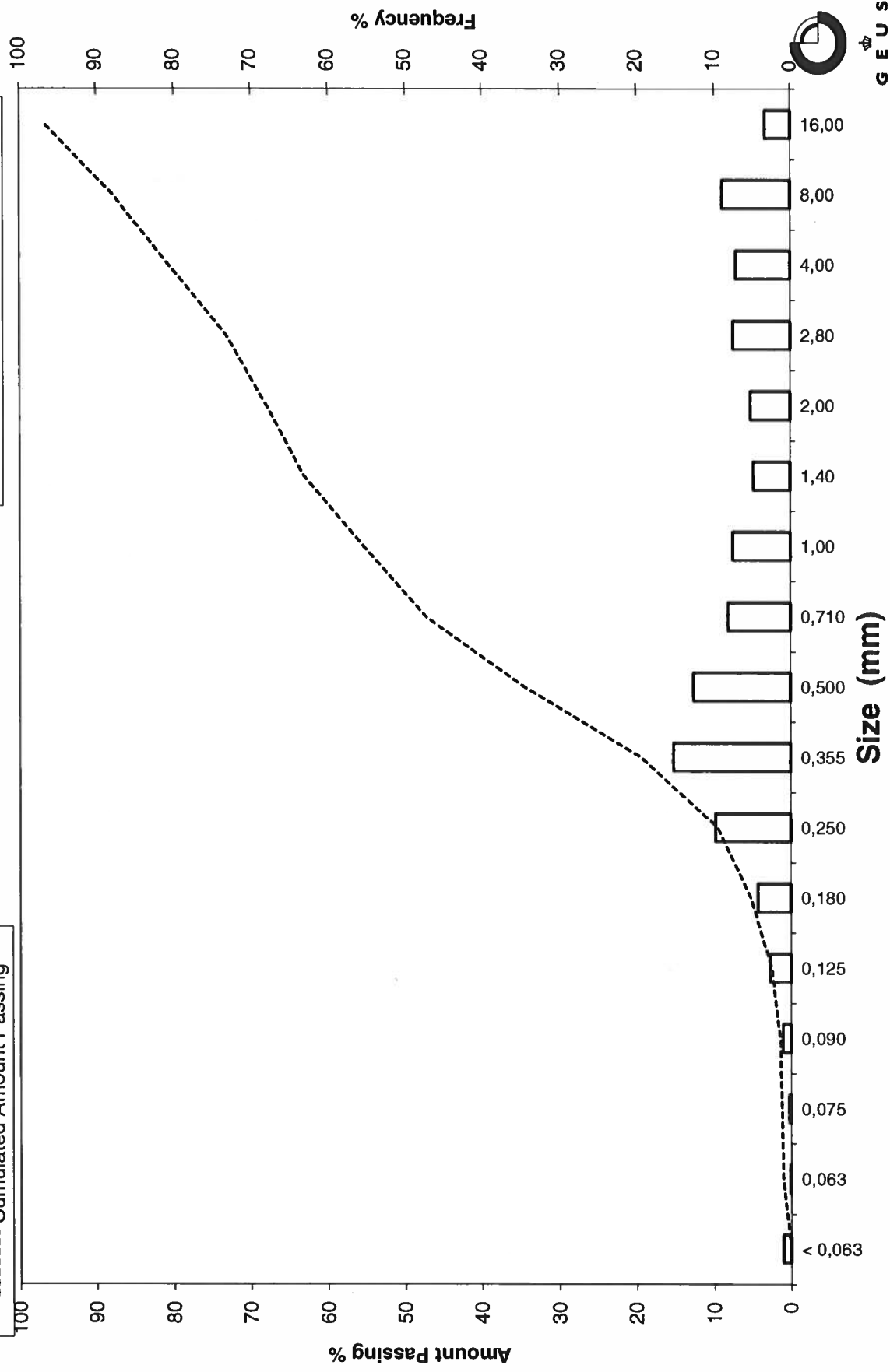
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: HD-12, 0-65

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-12, 65-150
Lab. Id: 210103
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >2,8mm heraf 0,5 g skaller



Total Weight 138,23 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	9,64	6,97	93,03
4,00	-2,00	1,57	1,14	91,89
2,80	-1,49	1,79	1,29	90,60
2,00	-1,00	2,30	1,66	88,93
1,40	-0,49	1,63	1,18	87,75
1,00	0,00	2,46	1,78	85,97
0,710	0,49	1,94	1,40	84,57
0,500	1,00	3,55	2,57	82,00
0,355	1,49	10,84	7,84	74,16
0,250	2,00	30,79	22,27	51,88
0,180	2,47	33,95	24,56	27,32
0,125	3,00	24,50	17,72	9,60
0,090	3,47	7,15	5,17	4,43
0,075	3,74	1,37	0,99	3,44
0,063	3,99	0,78	0,56	2,87
< 0,063	> 3,99	3,97	2,87	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	2,87
Sand, fine (0,063 mm - 0,200 mm):	31,47
Sand, medium (0,2 mm - 0,6 mm):	48,88
Sand, coarse (0,6 mm - 2 mm):	5,71
Gravel (> 2 mm):	11,07
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	10,26	-3,36
16%	84%	0,66	0,59
25%	75%	0,37	1,43
40%	60%	0,29	1,79
Median 50%	50%	0,24	2,03
75%	25%	0,17	2,53
84%	16%	0,14	2,79
90%	10%	0,13	2,99
95%	5%	0,09	3,41

Moments Statistics

Mean	1,80
Sorting	1,58
Skewness	-0,45
Kurtosis	2,52
Uniformity Coefficient	2,28

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

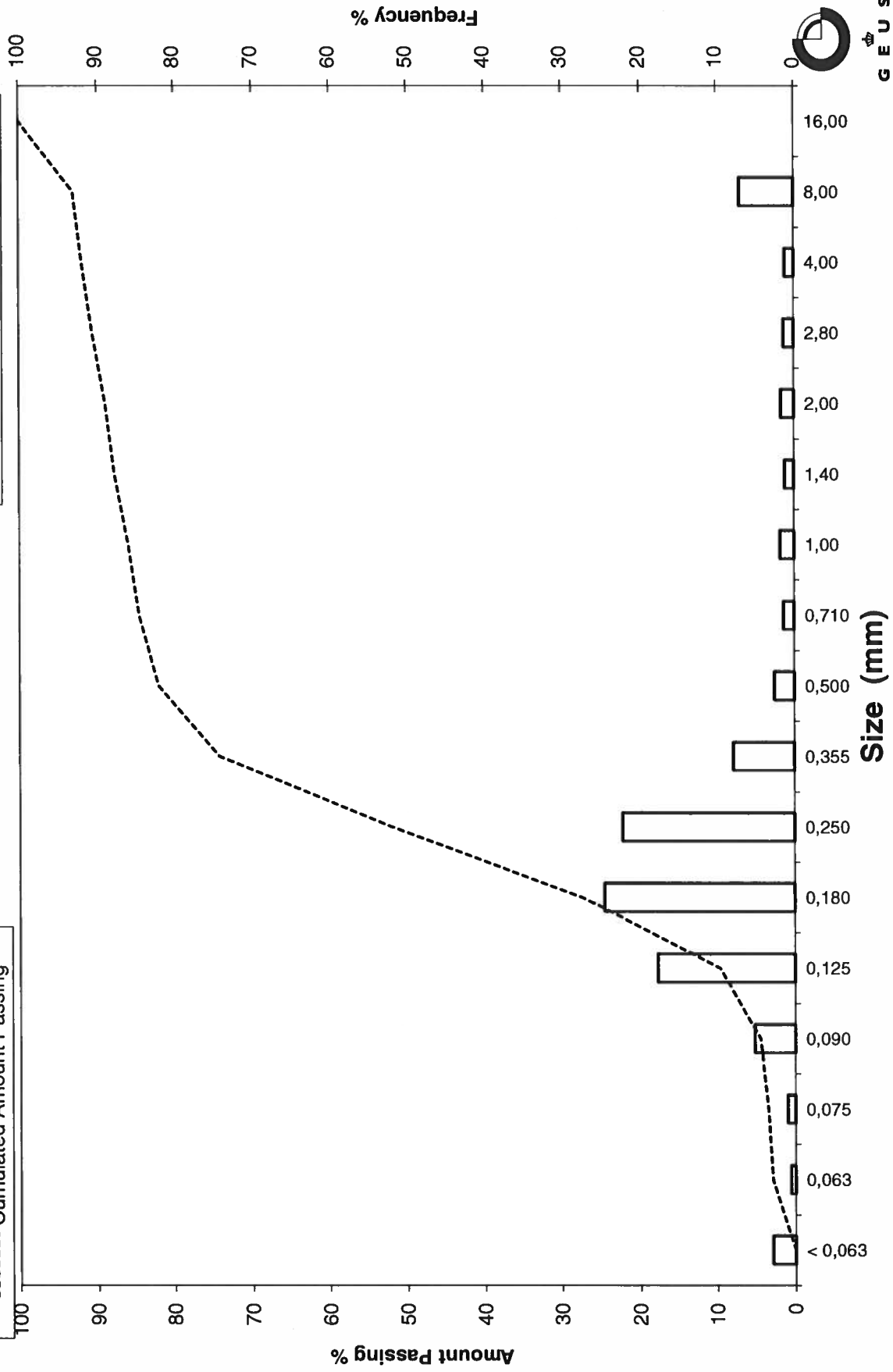
Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: HD-12, 65-150

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-12, 160-430
Lab. Id: 210104
Projekt: MST Råstoftkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >8mm heraf 0,5 g skaller



Total Weight 334,08 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	13,37	4,00	96,00
8,00	-3,00	4,28	1,28	94,72
4,00	-2,00	16,82	5,03	89,68
2,80	-1,49	8,08	2,42	87,26
2,00	-1,00	6,25	1,87	85,39
1,40	-0,49	6,46	1,93	83,46
1,00	0,00	7,75	2,32	81,14
0,710	0,49	8,18	2,45	78,69
0,500	1,00	14,49	4,34	74,35
0,355	1,49	22,89	6,85	67,50
0,250	2,00	36,14	10,82	56,68
0,180	2,47	37,38	11,19	45,50
0,125	3,00	70,87	21,21	24,28
0,090	3,47	39,28	11,76	12,52
0,075	3,74	8,55	2,56	9,96
0,063	3,99	6,18	1,85	8,11
< 0,063	> 3,99	27,11	8,11	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	8,11
Sand, fine (0,063 mm - 0,200 mm):	40,58
Sand, medium (0,2 mm - 0,6 mm):	27,73
Sand, coarse (0,6 mm - 2 mm):	8,97
Gravel (> 2 mm):	14,61
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	9,77	-3,29
16%	84%	1,57	-0,65
25%	75%	0,53	0,91
40%	60%	0,28	1,83
Median 50%	50%	0,21	2,26
75%	25%	0,13	2,98
84%	16%	0,10	3,32
90%	10%	0,08	3,73
95%	5%	-----	-----

Moments Statistics

Mean	1,64
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	3,75

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

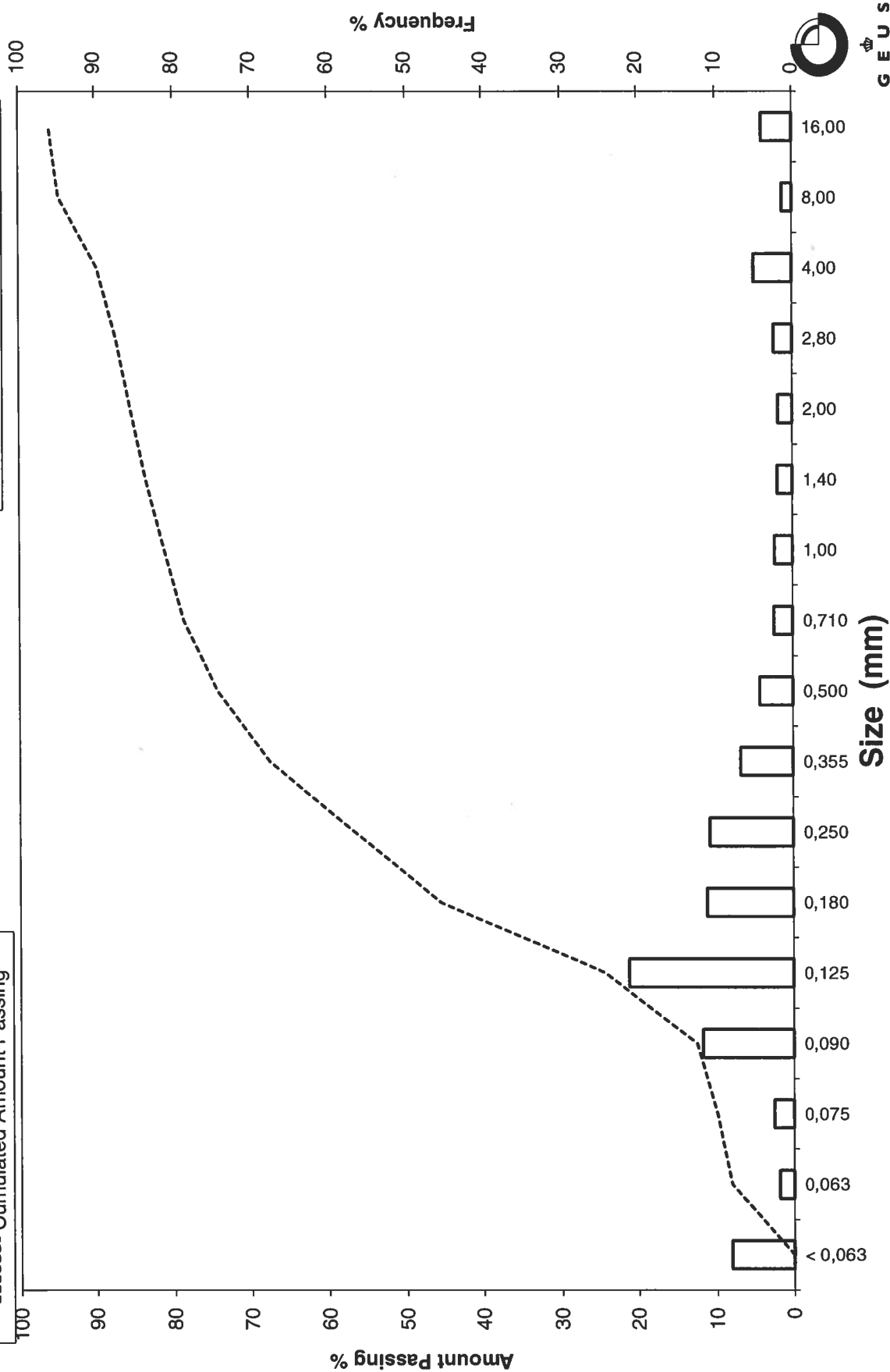
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Sample Id: HD-12, 160-430

Grain Size Distribution

Frequency Percent
Cumulated Amount Passing



GEUS

Grain Size Distribution

Geotechnical

Sample Id: HD-12, 430-600
Lab. Id: 210105
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >8 mm heraf 0,2g skaller



Total Weight 347,35 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	41,32	11,90	88,10
8,00	-3,00	7,89	2,27	85,83
4,00	-2,00	10,92	3,14	82,69
2,80	-1,49	8,38	2,41	80,28
2,00	-1,00	10,30	2,97	77,31
1,40	-0,49	8,06	2,32	74,99
1,00	0,00	15,18	4,37	70,62
0,710	0,49	19,47	5,61	65,02
0,500	1,00	45,01	12,96	52,06
0,355	1,49	93,82	27,01	25,05
0,250	2,00	67,68	19,48	5,56
0,180	2,47	8,81	2,54	3,03
0,125	3,00	3,45	0,99	2,03
0,090	3,47	1,59	0,46	1,57
0,075	3,74	0,34	0,10	1,48
0,063	3,99	0,20	0,06	1,42
< 0,063	> 3,99	4,93	1,42	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,42
Sand, fine (0,063 mm - 0,200 mm):	2,33
Sand, medium (0,2 mm - 0,6 mm):	54,48
Sand, coarse (0,6 mm - 2 mm):	19,08
Gravel (> 2 mm):	22,69
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	-----	-----
16%	84%	5,67	-2,50
25%	75%	1,40	-0,49
40%	60%	0,63	0,67
Median 50%	50%	0,49	1,03
75%	25%	0,35	1,50
84%	16%	0,31	1,71
90%	10%	0,27	1,87
95%	5%	0,23	2,09

Moments Statistics

Mean	0,08
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	2,30

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

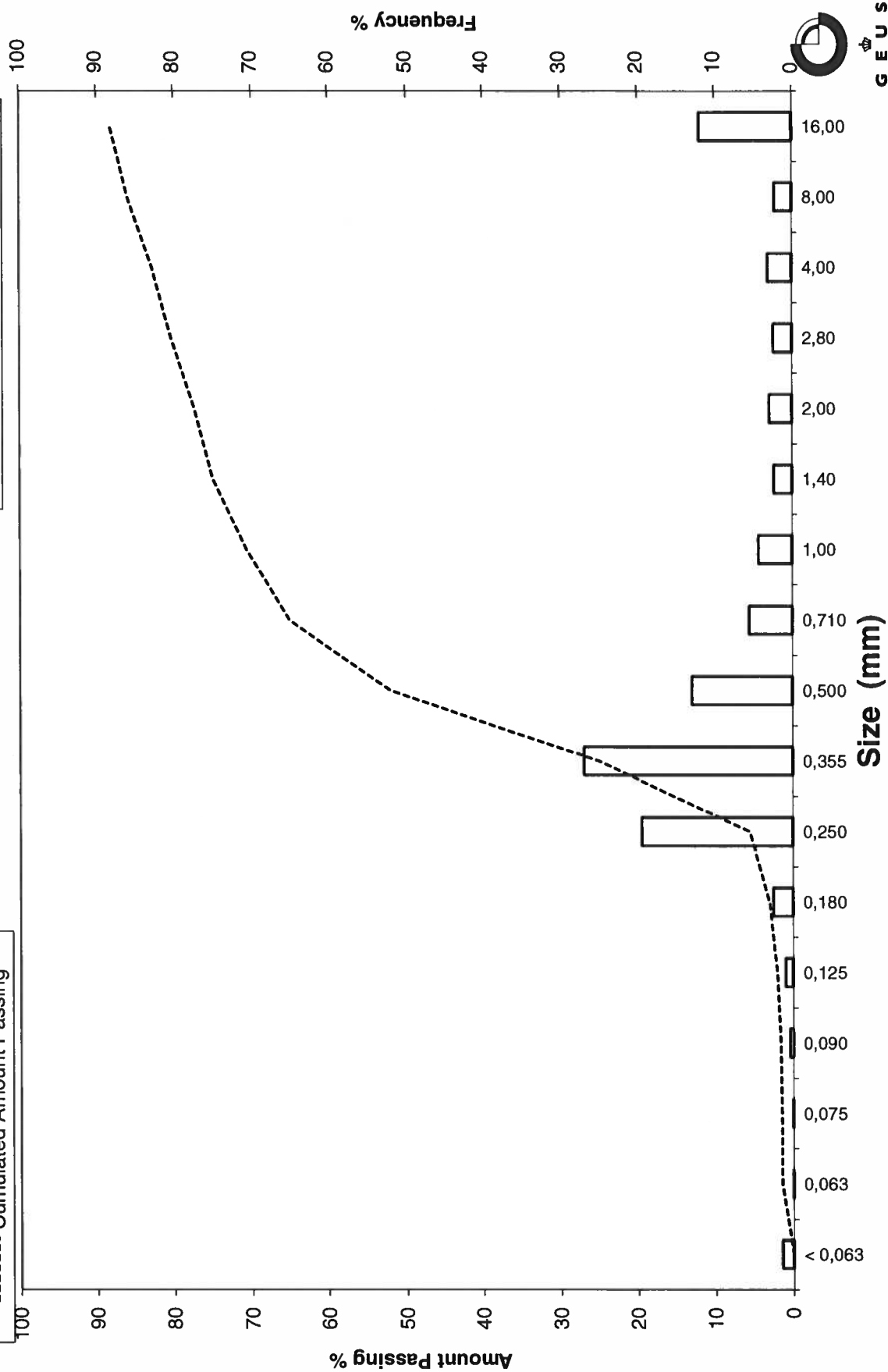
Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Sample Id: HD-12, 430-600

Grain Size Distribution

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-13, 0-200
Lab. Id: 210106
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >4 mm heraf 0,1 g skaller



Total Weight 112,61 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,22	0,20	99,80
2,80	-1,49	0,68	0,60	99,20
2,00	-1,00	1,21	1,07	98,13
1,40	-0,49	2,61	2,32	95,81
1,00	0,00	5,65	5,02	90,79
0,710	0,49	10,17	9,03	81,76
0,500	1,00	25,03	22,23	59,53
0,355	1,49	32,48	28,84	30,69
0,250	2,00	19,04	16,91	13,78
0,180	2,47	5,98	5,31	8,47
0,125	3,00	4,66	4,14	4,33
0,090	3,47	1,51	1,34	2,99
0,075	3,74	0,35	0,31	2,68
0,063	3,99	0,23	0,20	2,48
< 0,063	> 3,99	2,79	2,48	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	2,48
Sand, fine (0,063 mm - 0,200 mm):	7,51
Sand, medium (0,2 mm - 0,6 mm):	60,13
Sand, coarse (0,6 mm - 2 mm):	28,01
Gravel (> 2 mm):	1,87
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,34	-0,42
16%	84%	0,78	0,35
25%	75%	0,65	0,63
40%	60%	0,50	0,99
Median 50%	50%	0,45	1,15
75%	25%	0,32	1,65
84%	16%	0,26	1,92
90%	10%	0,20	2,32
95%	5%	0,13	2,90

Moments Statistics

Mean	1,14
Sorting	0,89
Skewness	0,02
Kurtosis	1,34
Uniformity Coefficient	2,52

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgt-Bulletin 1988)

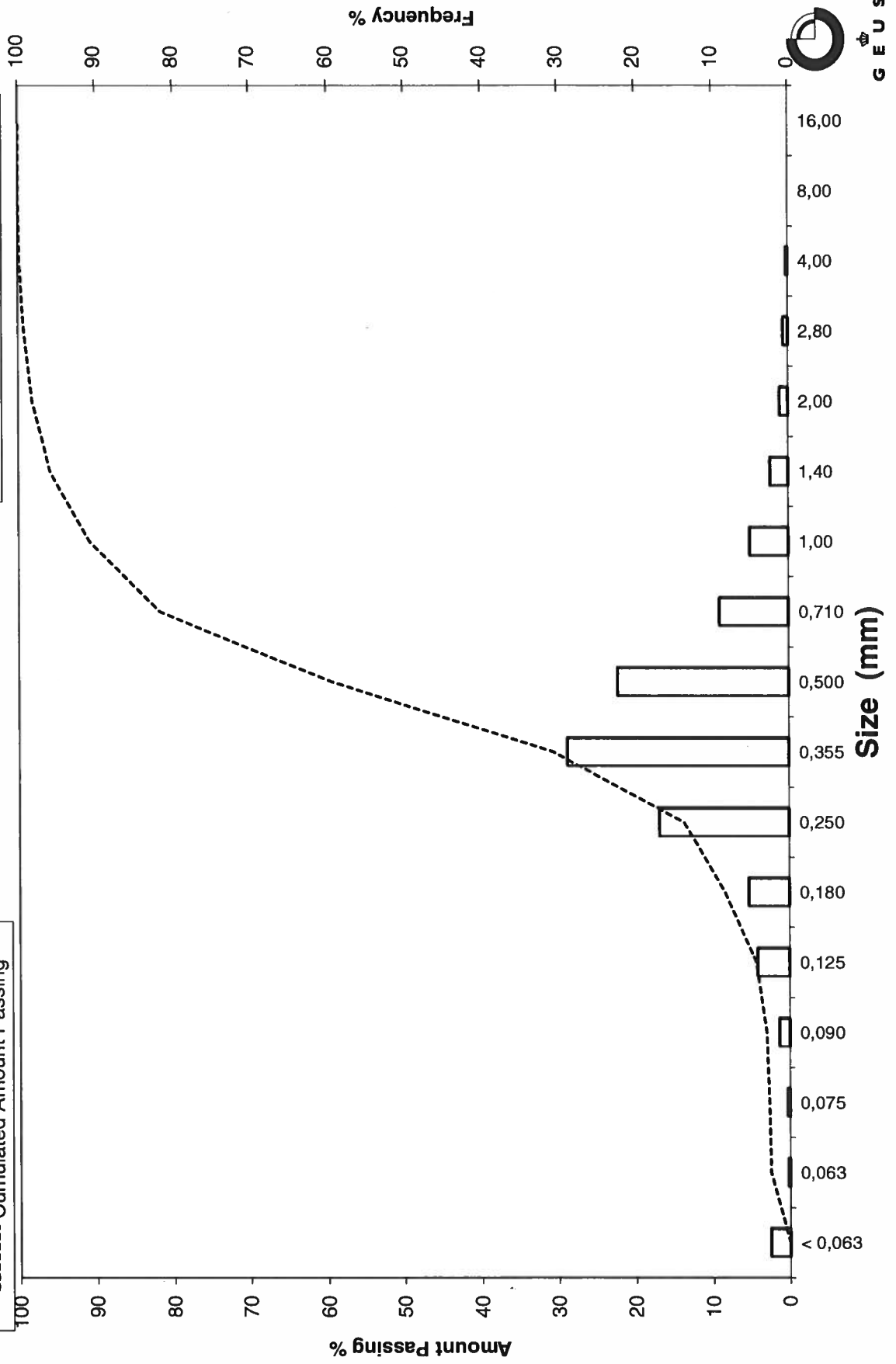
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Sample Id: HD-13, 0-200

Grain Size Distribution

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-13, 200-400
Lab. Id: 210107
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >8 mm heraf 1 g skaller



Total Weight 146,5 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	4,36	2,98	97,02
4,00	-2,00	7,96	5,43	91,59
2,80	-1,49	3,67	2,51	89,09
2,00	-1,00	3,64	2,48	86,60
1,40	-0,49	4,06	2,77	83,83
1,00	0,00	9,44	6,44	77,39
0,710	0,49	13,20	9,01	68,38
0,500	1,00	28,82	19,67	48,70
0,355	1,49	36,66	25,02	23,68
0,250	2,00	18,60	12,70	10,98
0,180	2,47	6,38	4,35	6,63
0,125	3,00	5,17	3,53	3,10
0,090	3,47	1,57	1,07	2,03
0,075	3,74	0,39	0,27	1,76
0,063	3,99	0,25	0,17	1,59
< 0,063	> 3,99	2,33	1,59	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,59
Sand, fine (0,063 mm - 0,200 mm):	6,28
Sand, medium (0,2 mm - 0,6 mm):	50,20
Sand, coarse (0,6 mm - 2 mm):	28,53
Gravel (> 2 mm):	13,40
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	6,51	-2,70
16%	84%	1,44	-0,52
25%	75%	0,92	0,12
40%	60%	0,62	0,69
Median 50%	50%	0,51	0,96
75%	25%	0,36	1,46
84%	16%	0,29	1,78
90%	10%	0,23	2,09
95%	5%	0,15	2,69

Moments Statistics

Mean	0,74
Sorting	1,39
Skewness	-0,32
Kurtosis	1,64
Uniformity Coefficient	2,65

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

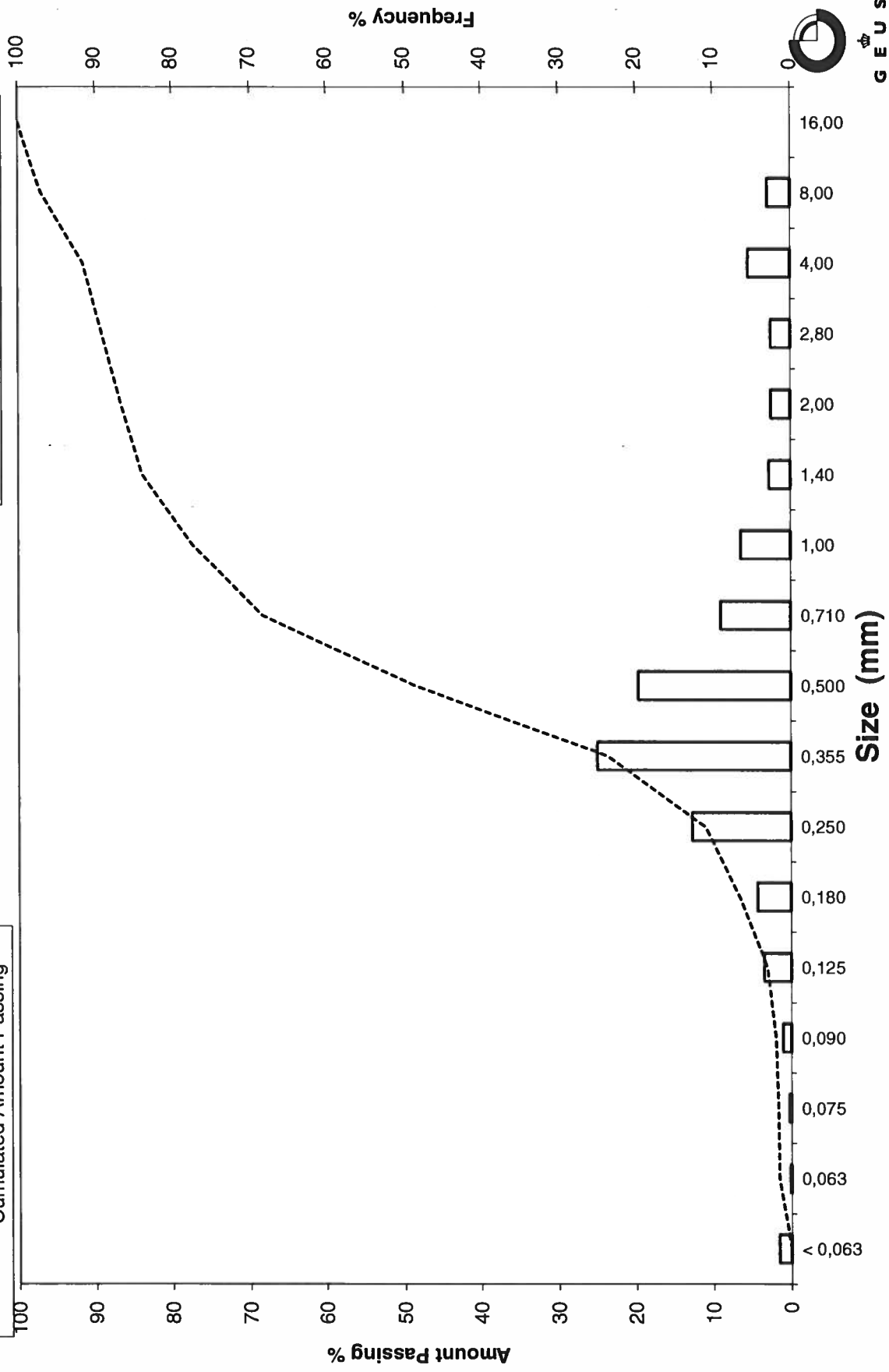
Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: HD-13, 200-400

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-14, 80-160
Lab. Id: 210108
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 1300,22 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	55,39	4,26	95,74
8,00	-3,00	210,61	16,20	79,54
4,00	-2,00	269,03	20,69	58,85
2,80	-1,49	127,71	9,82	49,03
2,00	-1,00	85,83	6,60	42,43
1,40	-0,49	57,88	4,45	37,98
1,00	0,00	37,51	2,88	35,09
0,710	0,49	22,76	1,75	33,34
0,500	1,00	24,65	1,90	31,44
0,355	1,49	39,24	3,02	28,43
0,250	2,00	102,73	7,90	20,53
0,180	2,47	106,03	8,15	12,37
0,125	3,00	85,25	6,56	5,81
0,090	3,47	30,26	2,33	3,49
0,075	3,74	7,17	0,55	2,94
0,063	3,99	5,94	0,46	2,48
< 0,063	> 3,99	32,23	2,48	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	2,48
Sand, fine (0,063 mm - 0,200 mm):	12,22
Sand, medium (0,2 mm - 0,6 mm):	17,65
Sand, coarse (0,6 mm - 2 mm):	10,08
Gravel (> 2 mm):	57,57
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	15,63	-3,97
16%	84%	10,20	-3,35
25%	75%	7,12	-2,83
40%	60%	4,22	-2,08
Median 50%	50%	2,92	-1,55
75%	25%	0,31	1,69
84%	16%	0,21	2,24
90%	10%	0,16	2,64
95%	5%	0,11	3,15

Moments Statistics

Mean	-0,88
Sorting	2,48
Skewness	0,34
Kurtosis	0,64
Uniformity Coefficient	26,37

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

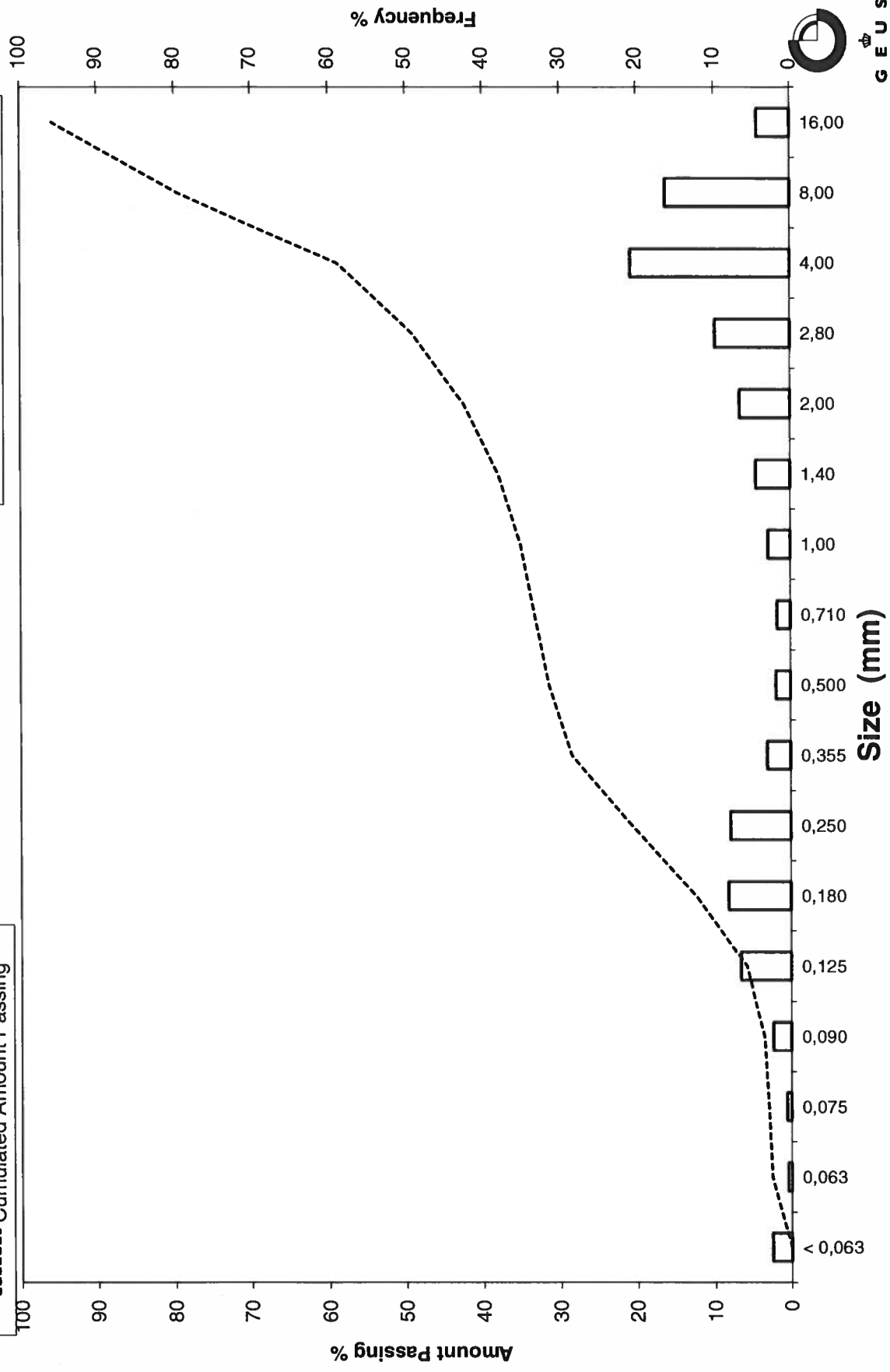
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: HD-14, 80-160

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-14, 160-280
Lab. Id: 210109
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: > 16 mm heraf 293 g >32mm



Total Weight 1609,22 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	551,05	34,24	65,76
8,00	-3,00	185,55	11,53	54,23
4,00	-2,00	183,24	11,39	42,84
2,80	-1,49	96,58	6,00	36,84
2,00	-1,00	68,82	4,28	32,56
1,40	-0,49	44,50	2,77	29,80
1,00	0,00	30,89	1,92	27,88
0,710	0,49	18,38	1,14	26,73
0,500	1,00	21,12	1,31	25,42
0,355	1,49	36,29	2,26	23,17
0,250	2,00	99,79	6,20	16,97
0,180	2,47	111,60	6,94	10,03
0,125	3,00	92,60	5,75	4,28
0,090	3,47	29,25	1,82	2,46
0,075	3,74	6,26	0,39	2,07
0,063	3,99	4,93	0,31	1,76
< 0,063	> 3,99	28,37	1,76	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,76
Sand, fine (0,063 mm - 0,200 mm):	10,25
Sand, medium (0,2 mm - 0,6 mm):	14,03
Sand, coarse (0,6 mm - 2 mm):	6,51
Gravel (> 2 mm):	67,44
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	-----	-----
16%	84%	-----	-----
25%	75%	-----	-----
40%	60%	12,01	-3,59
Median 50%	50%	6,52	-2,70
75%	25%	0,47	1,08
84%	16%	0,24	2,06
90%	10%	0,18	2,48
95%	5%	0,13	2,92

Moments Statistics

Mean	-0,32
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	66,81

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

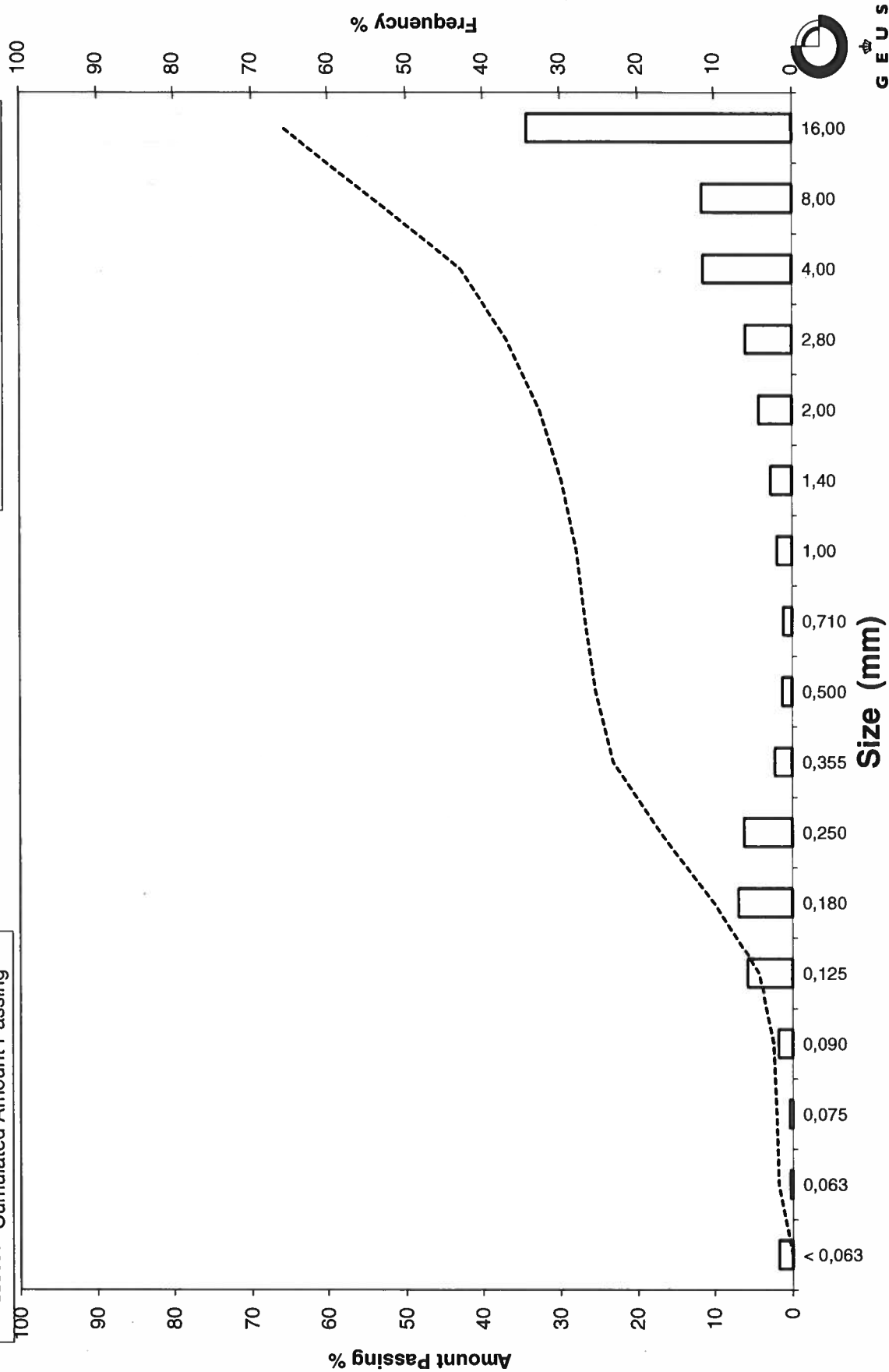
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Sample Id: HD-14, 160-280

Grain Size Distribution

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-15, 0-65
Lab. Id: 210110
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 199,35 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,87	0,44	99,56
	4,00	-2,00	4,31	2,16	97,40
	2,80	-1,49	6,00	3,01	94,39
	2,00	-1,00	8,76	4,39	90,00
	1,40	-0,49	14,99	7,52	82,48
	1,00	0,00	29,14	14,62	67,86
	0,710	0,49	46,05	23,10	44,76
	0,500	1,00	37,23	18,68	26,08
	0,355	1,49	10,43	5,23	20,85
Sand	0,250	2,00	4,66	2,34	18,52
	0,180	2,47	8,66	4,34	14,17
	0,125	3,00	14,39	7,22	6,95
	0,090	3,47	4,05	2,03	4,92
	0,075	3,74	1,61	0,81	4,11
	0,063	3,99	1,25	0,63	3,49
	< 0,063	> 3,99	6,95	3,49	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	3,49
Sand, fine (0,063 mm - 0,200 mm):	11,93
Sand, medium (0,2 mm - 0,6 mm):	19,57
Sand, coarse (0,6 mm - 2 mm):	55,02
Gravel (> 2 mm):	10,00
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	3,04	-1,61
16%	84%	1,52	-0,61
25%	75%	1,20	-0,26
40%	60%	0,90	0,15
Median 50%	50%	0,78	0,37
75%	25%	0,47	1,09
84%	16%	0,21	2,26
90%	10%	0,15	2,75
95%	5%	0,09	3,45

Moments Statistics

Mean	0,67
Sorting	1,48
Skewness	0,27
Kurtosis	1,54
Uniformity Coefficient	6,08

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

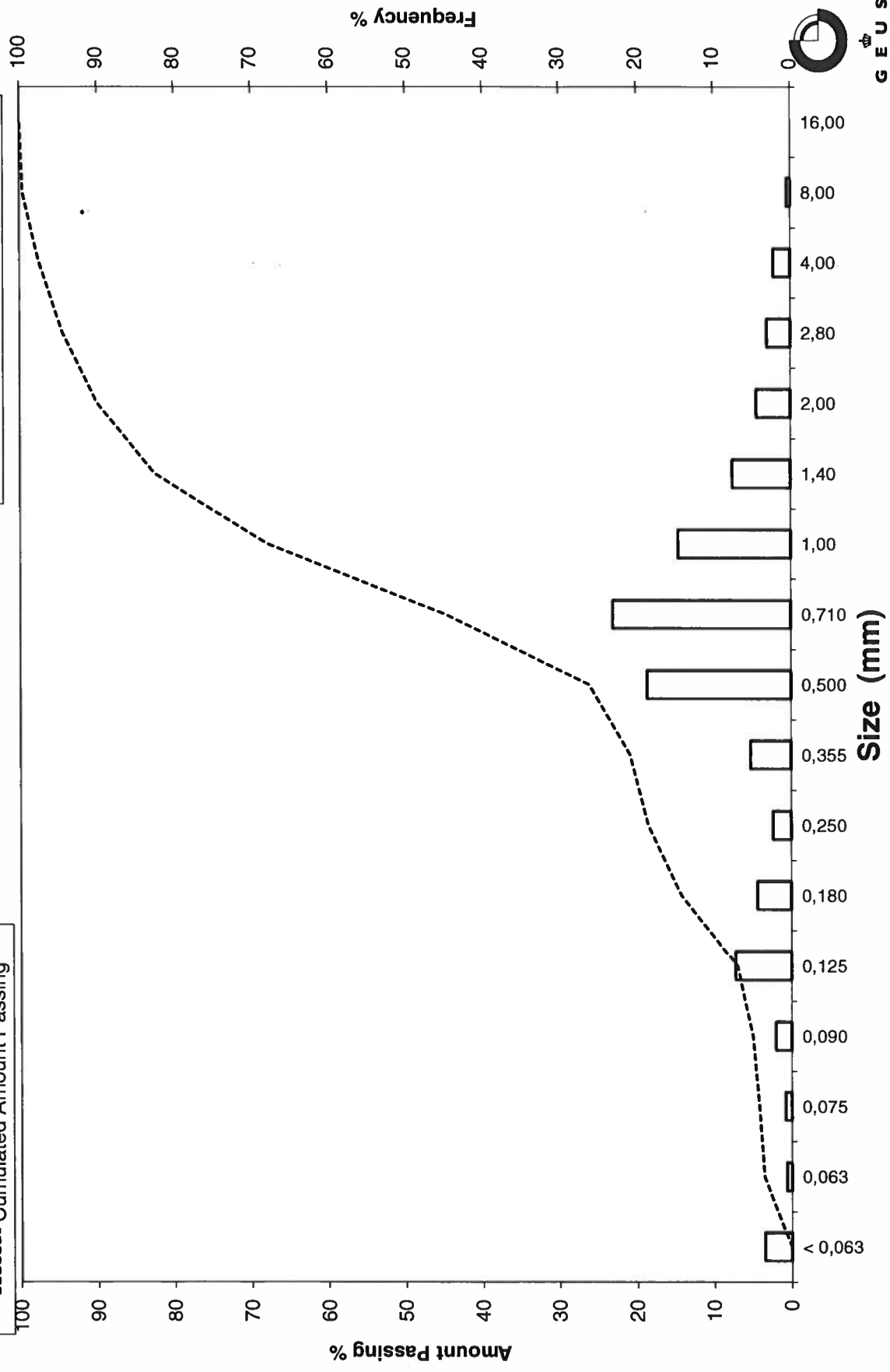
Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: HD-15, 0-65

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-15, 80-180
Lab. Id: 210111
Projekt: MST Råstoftkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 106,8 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,00	0,00	100,00
	4,00	-2,00	0,01	0,01	99,99
	2,80	-1,49	0,44	0,41	99,58
	2,00	-1,00	1,10	1,03	98,55
	1,40	-0,49	1,48	1,39	97,16
	1,00	0,00	3,81	3,57	93,60
	0,710	0,49	5,32	4,98	88,61
	0,500	1,00	20,35	19,05	69,56
	0,355	1,49	25,99	24,34	45,22
Sand	0,250	2,00	10,50	9,83	35,39
	0,180	2,47	11,10	10,39	25,00
	0,125	3,00	15,92	14,91	10,09
	0,090	3,47	2,35	2,20	7,89
	0,075	3,74	0,93	0,87	7,02
	0,063	3,99	0,88	0,82	6,20
	< 0,063	> 3,99	6,62	6,20	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	6,20
Sand, fine (0,063 mm - 0,200 mm):	21,77
Sand, medium (0,2 mm - 0,6 mm):	50,66
Sand, coarse (0,6 mm - 2 mm):	19,92
Gravel (> 2 mm):	1,45
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,16	-0,21
16%	84%	0,66	0,60
25%	75%	0,56	0,84
40%	60%	0,44	1,17
Median 50%	50%	0,38	1,38
75%	25%	0,18	2,47
84%	16%	0,15	2,77
90%	10%	0,12	3,02
95%	5%	-----	-----

Moments Statistics

Mean	1,58
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	3,59

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

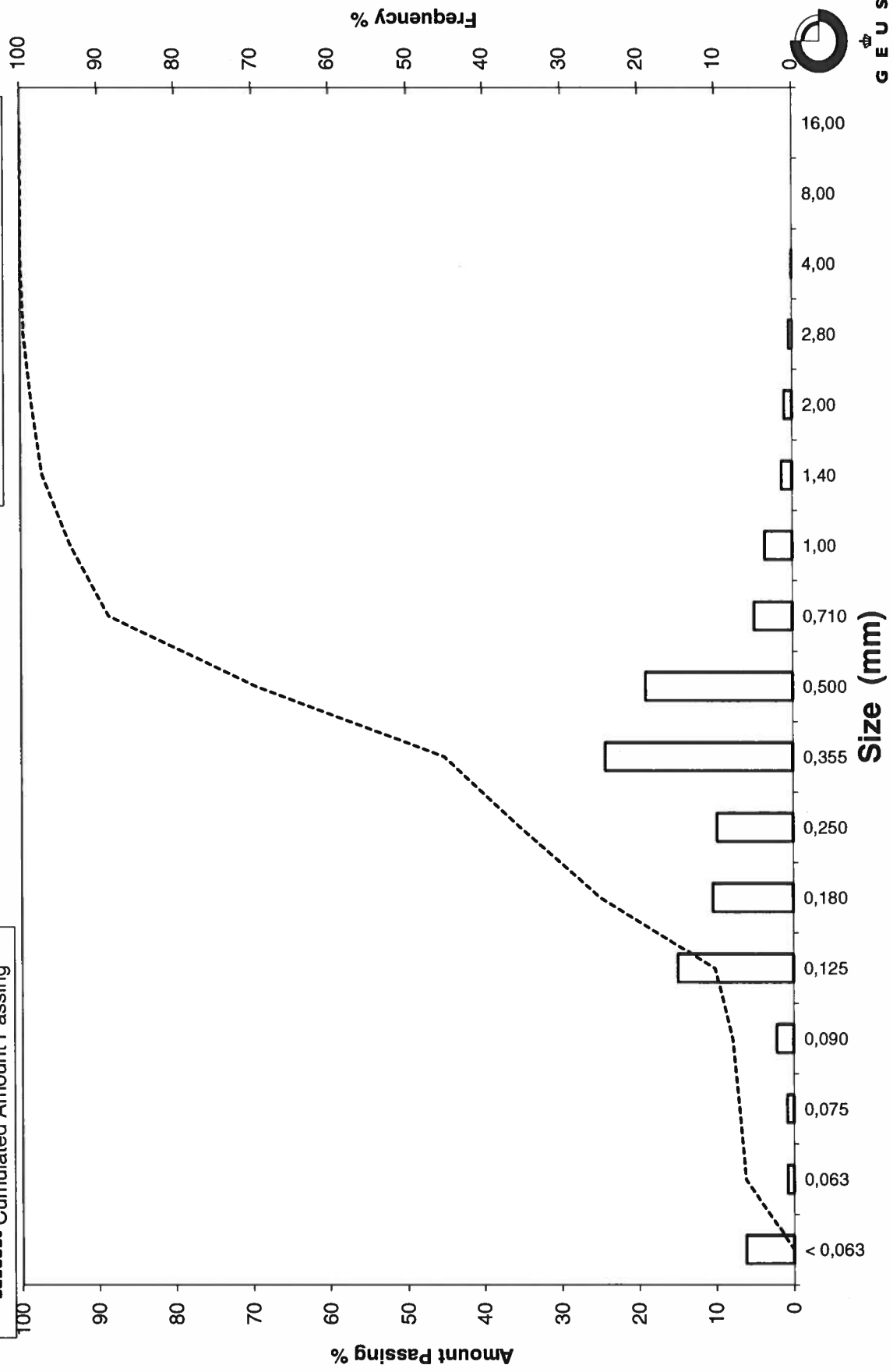
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: HD-15, 80-180

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-16, 0-110
Lab. Id: 210112
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 269,46 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	11,25	4,18	95,82
4,00	-2,00	16,55	6,14	89,68
2,80	-1,49	6,73	2,50	87,19
2,00	-1,00	5,85	2,17	85,01
1,40	-0,49	6,39	2,37	82,64
1,00	0,00	13,68	5,08	77,57
0,710	0,49	20,49	7,60	69,96
0,500	1,00	36,18	13,43	56,54
0,355	1,49	48,66	18,06	38,48
0,250	2,00	39,88	14,80	23,68
0,180	2,47	26,07	9,67	14,00
0,125	3,00	18,75	6,96	7,04
0,090	3,47	6,14	2,28	4,77
0,075	3,74	1,66	0,62	4,15
0,063	3,99	1,39	0,52	3,63
< 0,063	> 3,99	9,79	3,63	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	3,63
Sand, fine (0,063 mm - 0,200 mm):	13,13
Sand, medium (0,2 mm - 0,6 mm):	46,16
Sand, coarse (0,6 mm - 2 mm):	22,09
Gravel (> 2 mm):	14,99
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	7,46	-2,90
16%	84%	1,74	-0,80
25%	75%	0,90	0,15
40%	60%	0,55	0,85
Median 50%	50%	0,45	1,16
75%	25%	0,26	1,95
84%	16%	0,19	2,36
90%	10%	0,15	2,75
95%	5%	0,09	3,42

Moments Statistics

Mean	0,91
Sorting	1,75
Skewness	-0,26
Kurtosis	1,44
Uniformity Coefficient	3,74

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

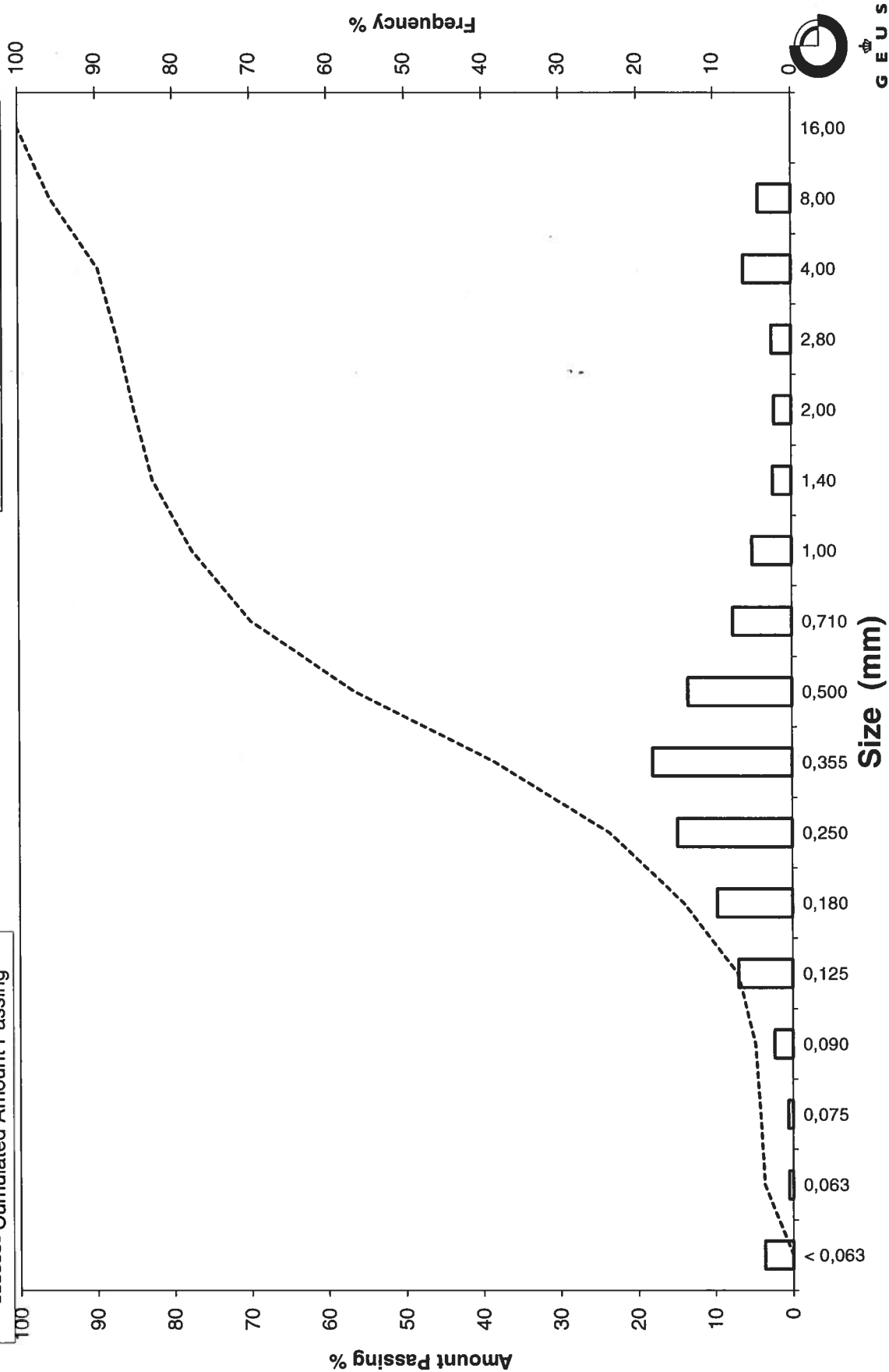
Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Sample Id: HD-16, 0-110

Grain Size Distribution

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-16, 110-160
Lab. Id: 210113
Projekt: MST Råstoftkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 629,01 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	177,44	28,21	71,79
8,00	-3,00	134,50	21,38	50,41
4,00	-2,00	45,07	7,17	43,24
2,80	-1,49	14,97	2,38	40,86
2,00	-1,00	10,82	1,72	39,14
1,40	-0,49	12,08	1,92	37,22
1,00	0,00	16,87	2,68	34,54
0,710	0,49	22,06	3,51	31,03
0,500	1,00	39,68	6,31	24,72
0,355	1,49	41,08	6,53	18,19
0,250	2,00	37,01	5,88	12,31
0,180	2,47	28,54	4,54	7,77
0,125	3,00	23,43	3,72	4,05
0,090	3,47	8,81	1,40	2,65
0,075	3,74	2,28	0,36	2,28
0,063	3,99	2,01	0,32	1,96
< 0,063	> 3,99	12,36	1,96	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,96
Sand, fine (0,063 mm - 0,200 mm):	7,10
Sand, medium (0,2 mm - 0,6 mm):	18,66
Sand, coarse (0,6 mm - 2 mm):	11,41
Gravel (> 2 mm):	60,86
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	-----	-----
16%	84%	-----	-----
25%	75%	-----	-----
40%	60%	11,59	-3,53
Median 50%	50%	7,77	-2,96
75%	25%	0,51	0,97
84%	16%	0,32	1,66
90%	10%	0,21	2,22
95%	5%	0,14	2,85

Moments Statistics

Mean	-0,65
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	54,06

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

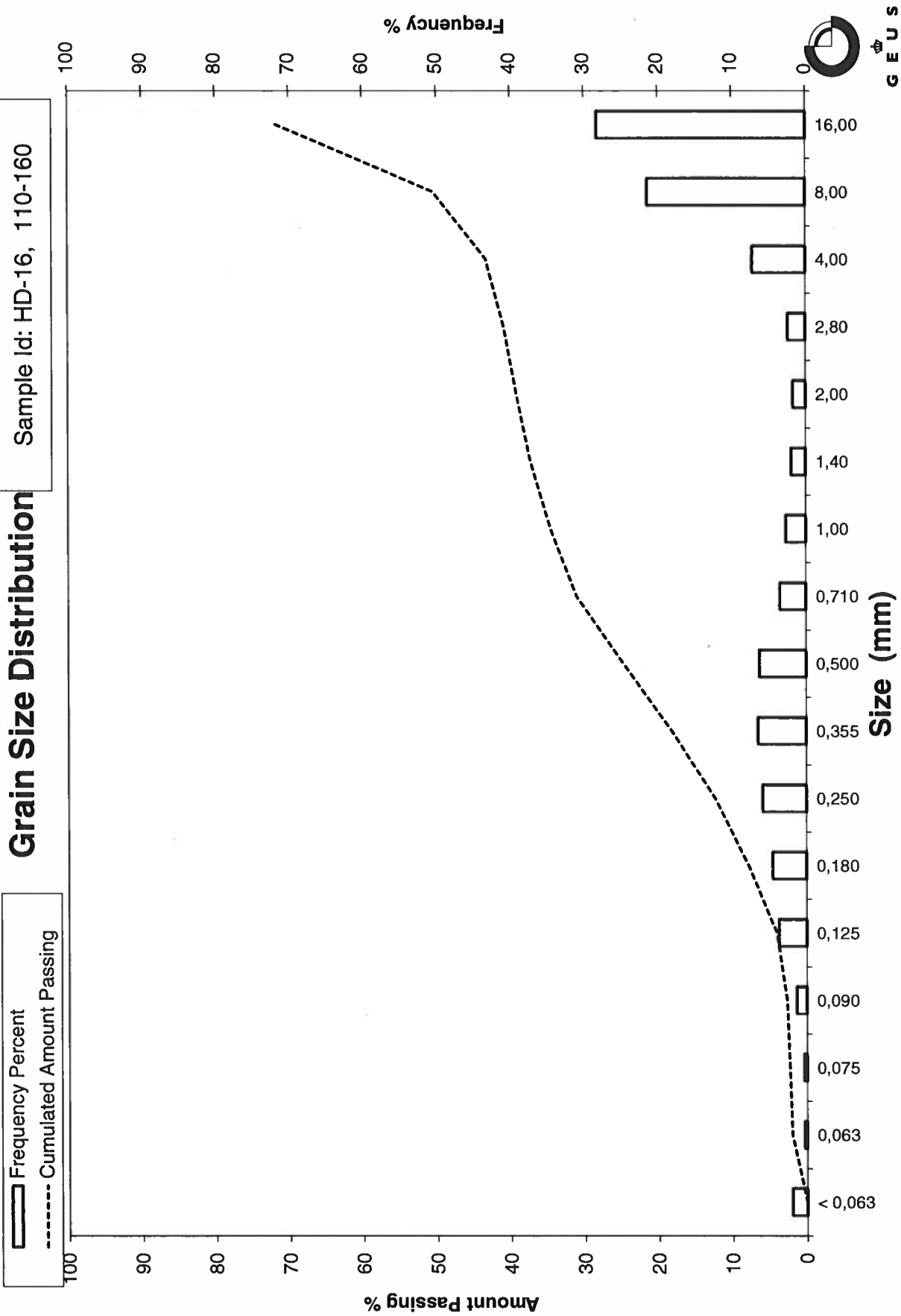
Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk



Grain Size Distribution

Geotechnical

Sample Id: HD-16, 160-325
Lab. Id: 210114
Projekt: MST Råstøfkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 117,49 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,90	0,77	99,23
2,80	-1,49	0,42	0,36	98,88
2,00	-1,00	0,79	0,67	98,20
1,40	-0,49	1,18	1,00	97,20
1,00	0,00	2,42	2,06	95,14
0,710	0,49	4,83	4,11	91,03
0,500	1,00	13,60	11,58	79,45
0,355	1,49	22,67	19,30	60,16
0,250	2,00	24,44	20,80	39,36
0,180	2,47	19,76	16,82	22,54
0,125	3,00	15,94	13,57	8,97
0,090	3,47	5,13	4,37	4,60
0,075	3,74	1,13	0,96	3,64
0,063	3,99	0,76	0,65	3,00
< 0,063	> 3,99	3,52	3,00	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	3,00
Sand, fine (0,063 mm - 0,200 mm):	24,35
Sand, medium (0,2 mm - 0,6 mm):	57,62
Sand, coarse (0,6 mm - 2 mm):	13,24
Gravel (> 2 mm):	1,80
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,99	0,01
16%	84%	0,58	0,78
25%	75%	0,47	1,10
40%	60%	0,35	1,50
Median 50%	50%	0,30	1,72
75%	25%	0,19	2,39
84%	16%	0,15	2,70
90%	10%	0,13	2,95
95%	5%	0,09	3,42

Moments Statistics

Mean	1,73
Sorting	1,00
Skewness	0,01
Kurtosis	1,08
Uniformity Coefficient	2,74

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

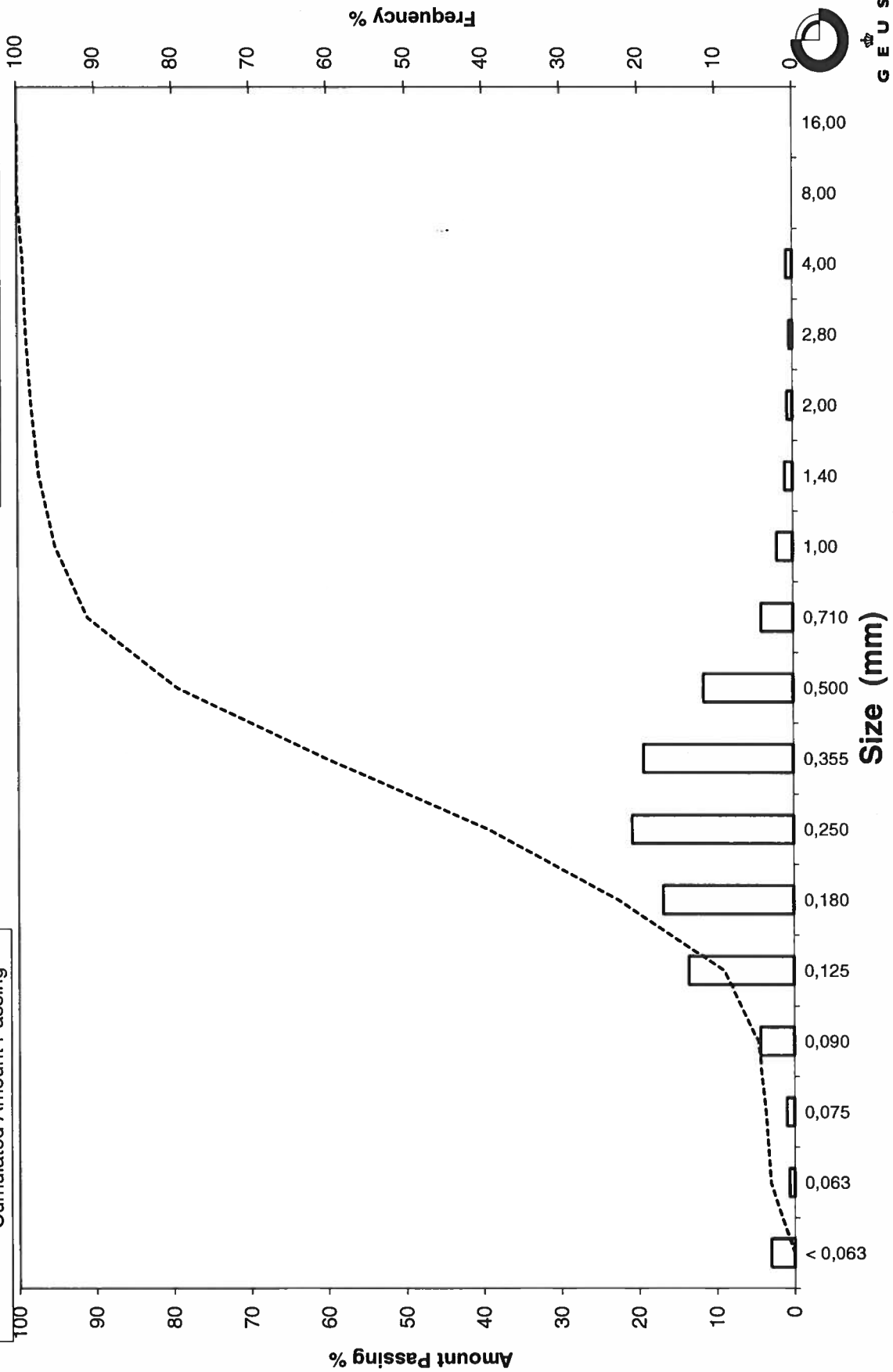
Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Sample Id: HD-16, 160-325

Grain Size Distribution

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-16, 325-489
Lab. Id: 210115
Projekt: MST Råstoftkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 1157,25 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	17,83	1,54	98,46
8,00	-3,00	25,21	2,18	96,28
4,00	-2,00	54,95	4,75	91,53
2,80	-1,49	64,32	5,56	85,97
2,00	-1,00	72,94	6,30	79,67
1,40	-0,49	72,41	6,26	73,41
1,00	0,00	121,97	10,54	62,87
0,710	0,49	131,02	11,32	51,55
0,500	1,00	203,10	17,55	34,00
0,355	1,49	228,64	19,76	14,25
0,250	2,00	114,86	9,93	4,32
0,180	2,47	30,49	2,63	1,69
0,125	3,00	8,84	0,76	0,92
0,090	3,47	2,91	0,25	0,67
0,075	3,74	0,75	0,06	0,61
0,063	3,99	0,65	0,06	0,55
< 0,063	> 3,99	6,36	0,55	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,55
Sand, fine (0,063 mm - 0,200 mm):	1,89
Sand, medium (0,2 mm - 0,6 mm):	39,92
Sand, coarse (0,6 mm - 2 mm):	37,31
Gravel (> 2 mm):	20,33
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	6,92	-2,79
16%	84%	2,55	-1,35
25%	75%	1,55	-0,63
40%	60%	0,93	0,11
Median 50%	50%	0,69	0,53
75%	25%	0,43	1,20
84%	16%	0,37	1,44
90%	10%	0,31	1,69
95%	5%	0,26	1,96

Moments Statistics

Mean	0,21
Sorting	1,42
Skewness	-0,37
Kurtosis	1,06
Uniformity Coefficient	2,99

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

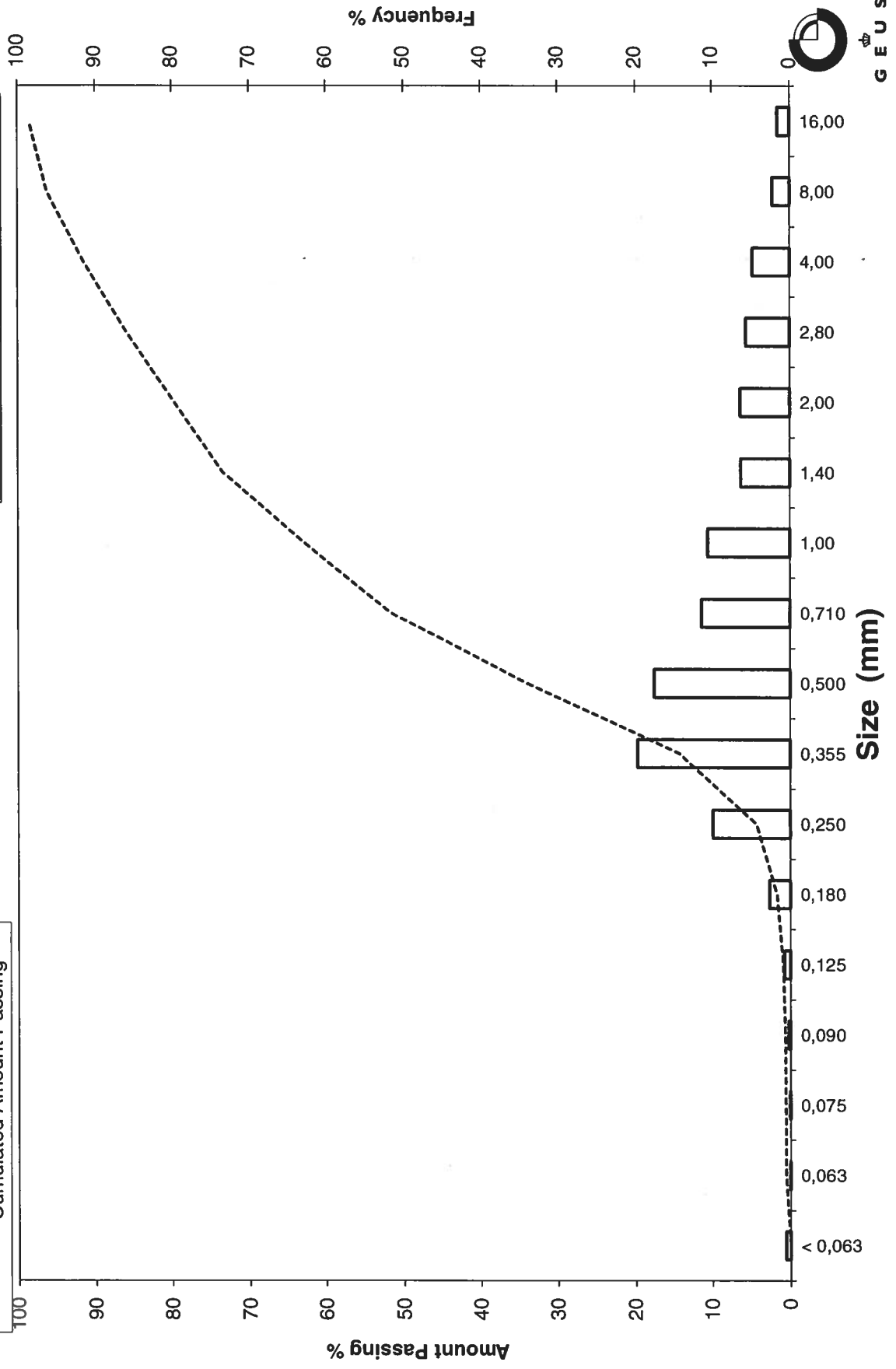
Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: HD-16, 325-489

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-20, 0-160
Lab. Id: 210116
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 110,57 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,08	0,07	99,93
2,00	-1,00	0,19	0,17	99,76
1,40	-0,49	0,21	0,19	99,57
1,00	0,00	1,10	0,99	98,57
0,710	0,49	1,90	1,72	96,85
0,500	1,00	7,37	6,67	90,19
0,355	1,49	22,89	20,70	69,49
0,250	2,00	32,46	29,36	40,13
0,180	2,47	24,69	22,33	17,80
0,125	3,00	14,56	13,17	4,63
0,090	3,47	2,55	2,31	2,32
0,075	3,74	0,39	0,35	1,97
0,063	3,99	0,24	0,22	1,75
< 0,063	> 3,99	1,94	1,75	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,75
Sand, fine (0,063 mm - 0,200 mm):	22,42
Sand, medium (0,2 mm - 0,6 mm):	69,18
Sand, coarse (0,6 mm - 2 mm):	6,39
Gravel (> 2 mm):	0,24
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,65	0,62
16%	84%	0,46	1,13
25%	75%	0,39	1,35
40%	60%	0,32	1,64
Median 50%	50%	0,29	1,81
75%	25%	0,20	2,30
84%	16%	0,17	2,54
90%	10%	0,15	2,76
95%	5%	0,13	2,98

Moments Statistics

Mean	1,83
Sorting	0,71
Skewness	0,01
Kurtosis	1,01
Uniformity Coefficient	2,18

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

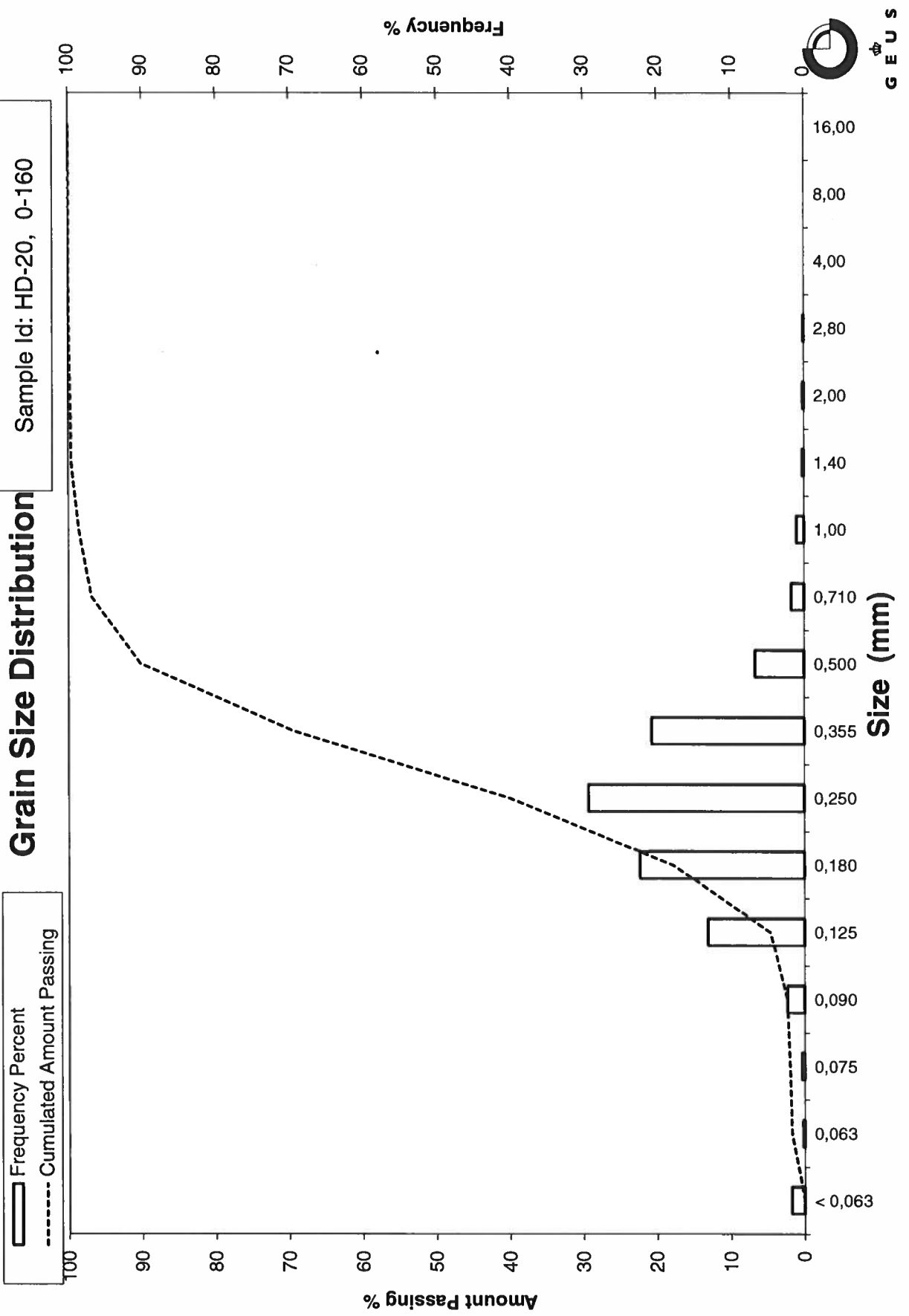
Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgt-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk



Grain Size Distribution

Geotechnical

Sample Id: HD-20, 180-210
Lab. Id: 210117
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 1395,9 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	42,50	3,04	96,96
8,00	-3,00	377,08	27,01	69,94
4,00	-2,00	377,24	27,02	42,92
2,80	-1,49	152,24	10,91	32,01
2,00	-1,00	61,44	4,40	27,61
1,40	-0,49	28,61	2,05	25,56
1,00	0,00	12,76	0,91	24,65
0,710	0,49	8,23	0,59	24,06
0,500	1,00	17,59	1,26	22,80
0,355	1,49	43,78	3,14	19,66
0,250	2,00	82,12	5,88	13,78
0,180	2,47	91,93	6,59	7,19
0,125	3,00	77,52	5,55	1,64
0,090	3,47	16,98	1,22	0,42
0,075	3,74	2,64	0,19	0,23
0,063	3,99	1,81	0,13	0,10
< 0,063	> 3,99	1,43	0,10	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,10
Sand, fine (0,063 mm - 0,200 mm):	8,97
Sand, medium (0,2 mm - 0,6 mm):	14,32
Sand, coarse (0,6 mm - 2 mm):	4,21
Gravel (> 2 mm):	72,39
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	15,42	-3,95
16%	84%	12,16	-3,60
25%	75%	9,50	-3,25
40%	60%	6,53	-2,71
Median 50%	50%	5,05	-2,34
75%	25%	1,16	-0,21
84%	16%	0,29	1,79
90%	10%	0,21	2,25
95%	5%	0,16	2,66

Moments Statistics

Mean	-1,38
Sorting	2,35
Skewness	0,52
Kurtosis	0,89
Uniformity Coefficient	31,11

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

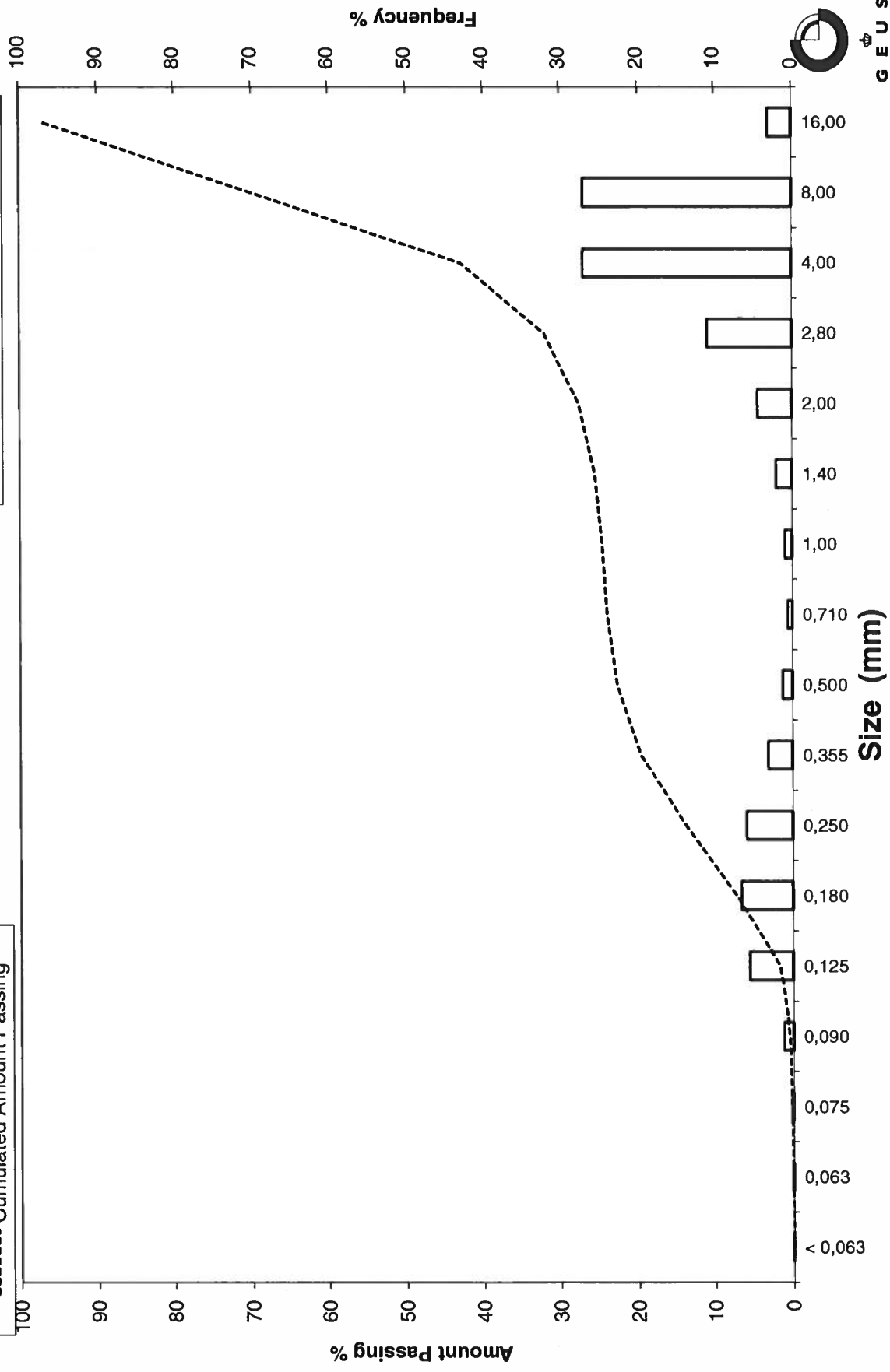
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: HD-20, 180-210

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-20, 210-270
Lab. Id: 210118
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >16mm heraf 1377 g >32 mm



Total Weight 4442,27 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	2753,53	61,98	38,02
8,00	-3,00	717,94	16,16	21,85
4,00	-2,00	211,01	4,75	17,10
2,80	-1,49	38,72	0,87	16,23
2,00	-1,00	13,43	0,30	15,93
1,40	-0,49	6,76	0,15	15,78
1,00	0,00	6,51	0,15	15,63
0,710	0,49	5,34	0,12	15,51
0,500	1,00	14,10	0,32	15,19
0,355	1,49	61,24	1,38	13,81
0,250	2,00	146,35	3,29	10,52
0,180	2,47	224,45	5,05	5,47
0,125	3,00	184,56	4,15	1,31
0,090	3,47	32,96	0,74	0,57
0,075	3,74	4,76	0,11	0,46
0,063	3,99	2,92	0,07	0,40
< 0,063	> 3,99	17,69	0,40	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,40
Sand, fine (0,063 mm - 0,200 mm):	6,51
Sand, medium (0,2 mm - 0,6 mm):	8,43
Sand, coarse (0,6 mm - 2 mm):	0,59
Gravel (> 2 mm):	84,07
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	-----	-----
16%	84%	-----	-----
25%	75%	-----	-----
40%	60%	-----	-----
Median 50%	50%	-----	-----
75%	25%	9,56	-3,26
84%	16%	2,19	-1,13
90%	10%	0,24	2,04
95%	5%	0,17	2,52

Moments Statistics

Mean	-1,13
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	-----

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

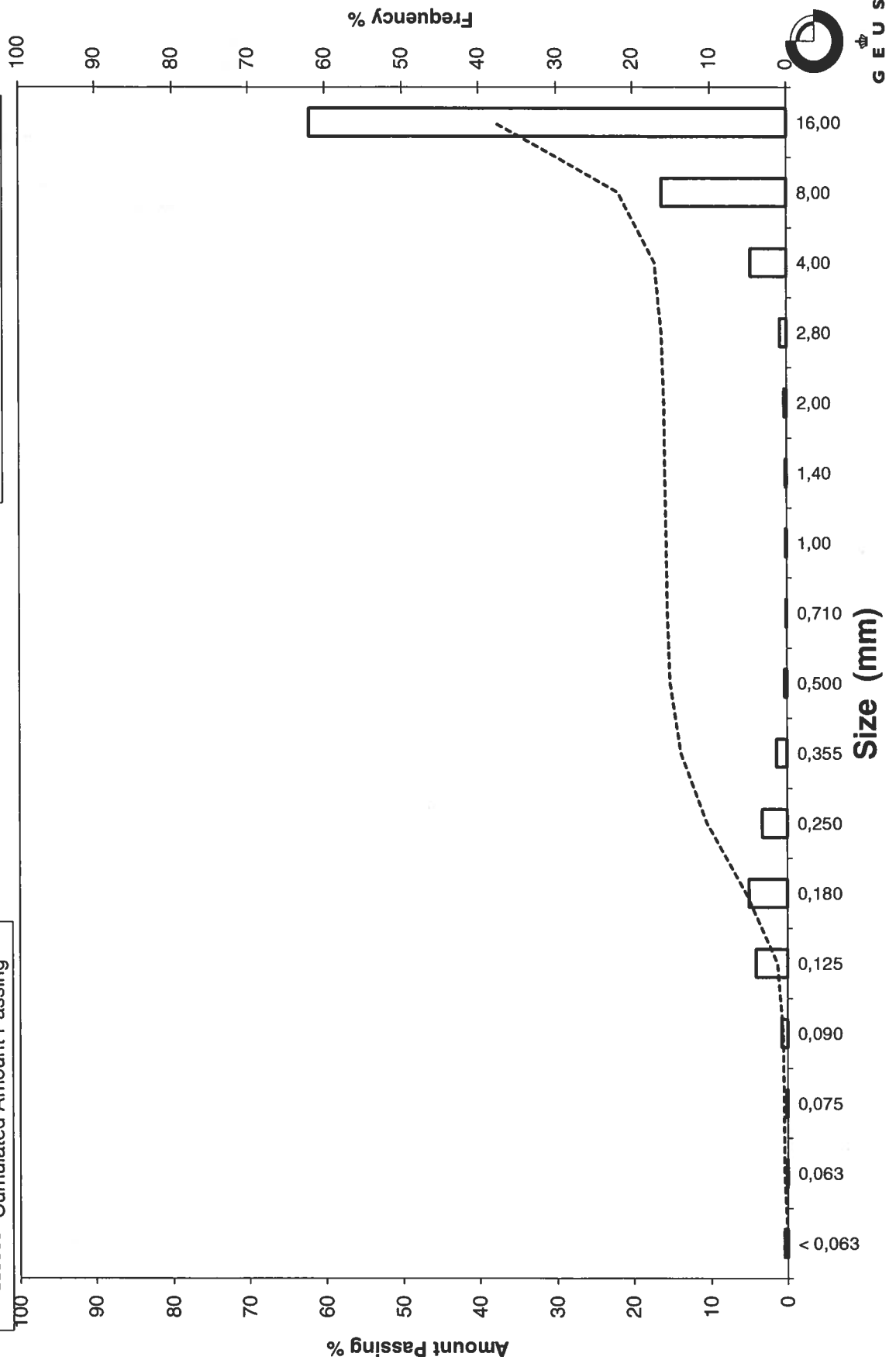
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: HD-20, 210-270

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: HD-20, 360-460
Lab. Id: 210119
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 109,2 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,00	0,00	100,00
2,00	-1,00	0,00	0,00	100,00
1,40	-0,49	0,05	0,05	99,95
1,00	0,00	0,20	0,18	99,77
0,710	0,49	0,41	0,38	99,40
0,500	1,00	2,45	2,24	97,15
0,355	1,49	13,02	11,92	85,23
0,250	2,00	38,61	35,36	49,87
0,180	2,47	35,26	32,29	17,58
0,125	3,00	15,87	14,53	3,05
0,090	3,47	1,48	1,36	1,69
0,075	3,74	0,12	0,11	1,58
0,063	3,99	0,05	0,05	1,54
< 0,063	> 3,99	1,68	1,54	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,54
Sand, fine (0,063 mm - 0,200 mm):	25,27
Sand, medium (0,2 mm - 0,6 mm):	71,41
Sand, coarse (0,6 mm - 2 mm):	1,78
Gravel (> 2 mm):	0,00
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,47	1,08
16%	84%	0,35	1,51
25%	75%	0,32	1,62
40%	60%	0,28	1,84
Median 50%	50%	0,25	2,00
75%	25%	0,20	2,35
84%	16%	0,17	2,52
90%	10%	0,15	2,72
95%	5%	0,13	2,92

Moments Statistics

Mean	2,01
Sorting	0,53
Skewness	0,02
Kurtosis	1,04
Uniformity Coefficient	1,85

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

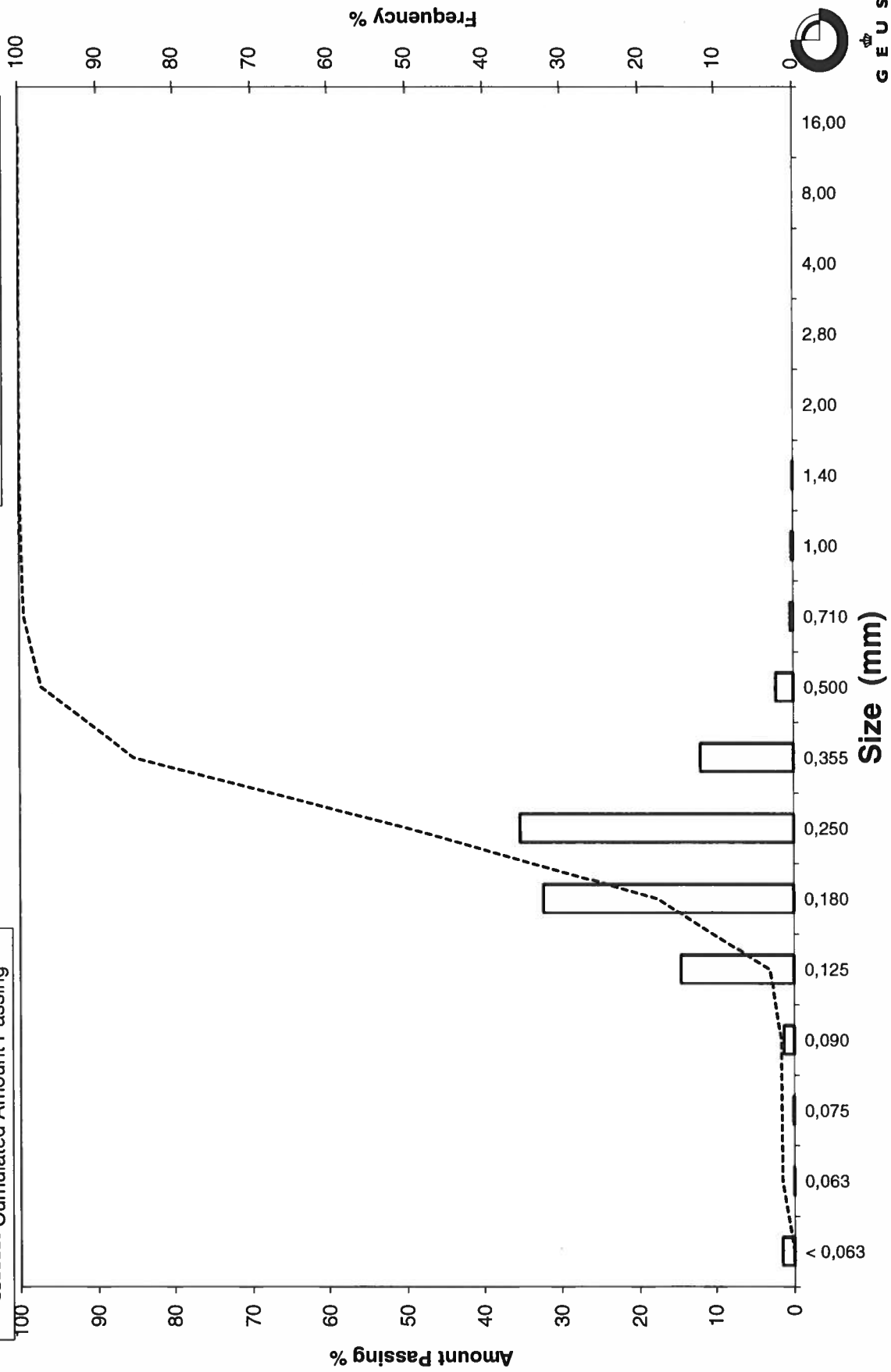
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Sample Id: HD-20, 360-460

Grain Size Distribution

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: BF-01, 0-80
Lab. Id: 210120
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >2,8 mm heraf 0,1 g skaller



Total Weight 111,37 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,24	0,22	99,78
2,00	-1,00	0,21	0,19	99,60
1,40	-0,49	0,21	0,19	99,41
1,00	0,00	0,79	0,71	98,70
0,710	0,49	0,96	0,86	97,84
0,500	1,00	2,11	1,89	95,94
0,355	1,49	8,59	7,71	88,23
0,250	2,00	46,81	42,03	46,20
0,180	2,47	41,20	36,99	9,20
0,125	3,00	9,13	8,20	1,01
0,090	3,47	0,79	0,71	0,30
0,075	3,74	0,04	0,04	0,26
0,063	3,99	0,00	0,00	0,26
< 0,063	> 3,99	0,29	0,26	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,26
Sand, fine (0,063 mm - 0,200 mm):	19,51
Sand, medium (0,2 mm - 0,6 mm):	77,07
Sand, coarse (0,6 mm - 2 mm):	2,75
Gravel (> 2 mm):	0,40
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,48	1,05
16%	84%	0,34	1,54
25%	75%	0,32	1,64
40%	60%	0,28	1,81
Median 50%	50%	0,26	1,95
75%	25%	0,21	2,25
84%	16%	0,19	2,37
90%	10%	0,18	2,46
95%	5%	0,15	2,72

Moments Statistics

Mean	1,95
Sorting	0,46
Skewness	-0,02
Kurtosis	1,11
Uniformity Coefficient	1,57

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

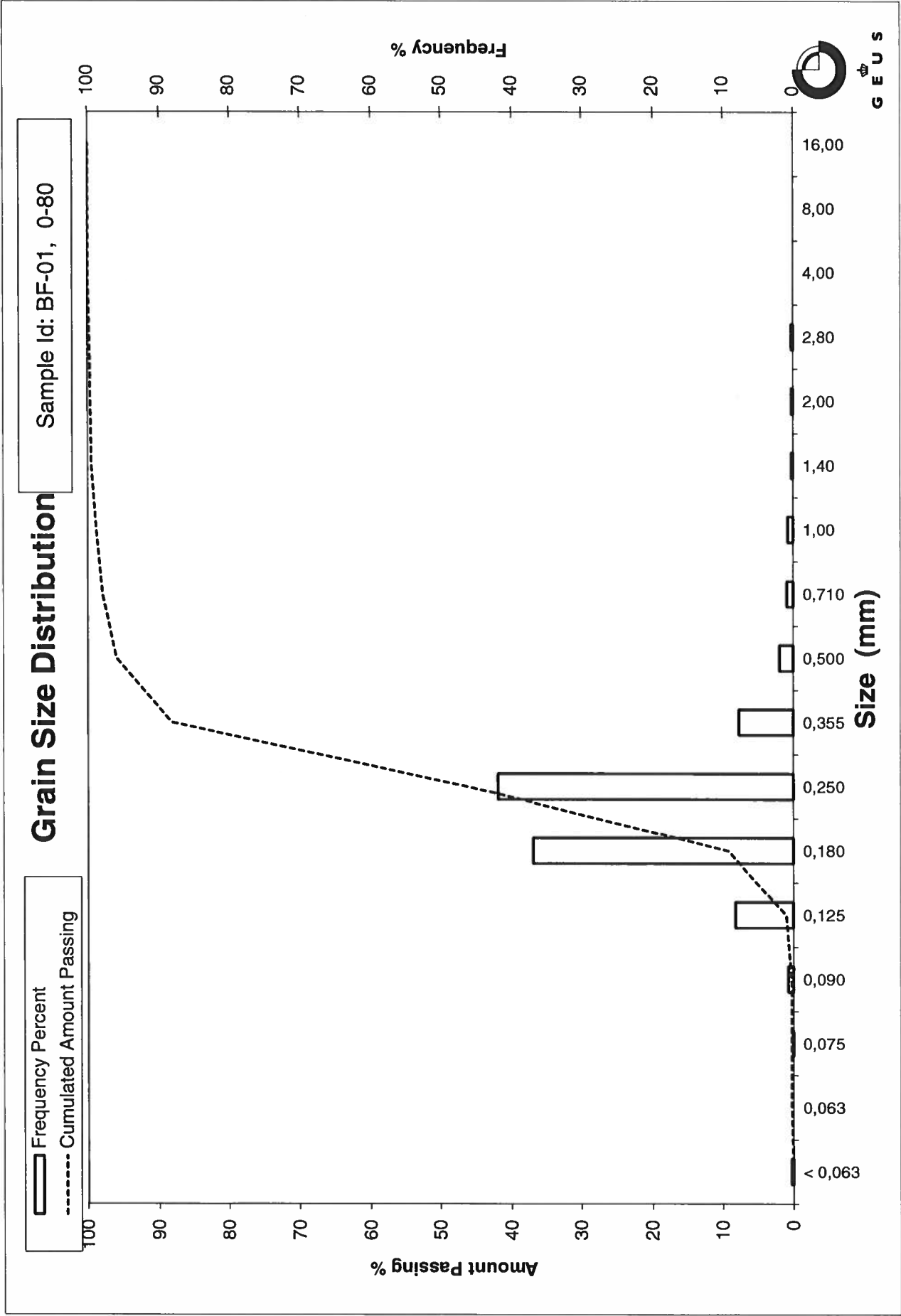
Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk



Grain Size Distribution

Geotechnical

Sample Id: BF-01, 80-120
Lab. Id: 210121
Projekt: MST Råstoftkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 119,88 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	1,46	1,22	98,78
2,80	-1,49	3,97	3,31	95,47
2,00	-1,00	4,74	3,95	91,52
1,40	-0,49	5,11	4,26	87,25
1,00	0,00	6,20	5,17	82,08
0,710	0,49	6,32	5,27	76,81
0,500	1,00	10,63	8,87	67,94
0,355	1,49	21,09	17,59	50,35
0,250	2,00	37,30	31,11	19,24
0,180	2,47	18,20	15,18	4,05
0,125	3,00	4,02	3,35	0,70
0,090	3,47	0,35	0,29	0,41
0,075	3,74	0,03	0,03	0,38
0,063	3,99	0,03	0,03	0,36
< 0,063	> 3,99	0,43	0,36	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,36
Sand, fine (0,063 mm - 0,200 mm):	8,03
Sand, medium (0,2 mm - 0,6 mm):	63,77
Sand, coarse (0,6 mm - 2 mm):	19,35
Gravel (> 2 mm):	8,48
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	2,70	-1,44
16%	84%	1,15	-0,20
25%	75%	0,67	0,58
40%	60%	0,43	1,20
Median 50%	50%	0,35	1,50
75%	25%	0,27	1,89
84%	16%	0,24	2,09
90%	10%	0,21	2,27
95%	5%	0,18	2,44

Moments Statistics

Mean	1,13
Sorting	1,16
Skewness	-0,50
Kurtosis	1,21
Uniformity Coefficient	2,09

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

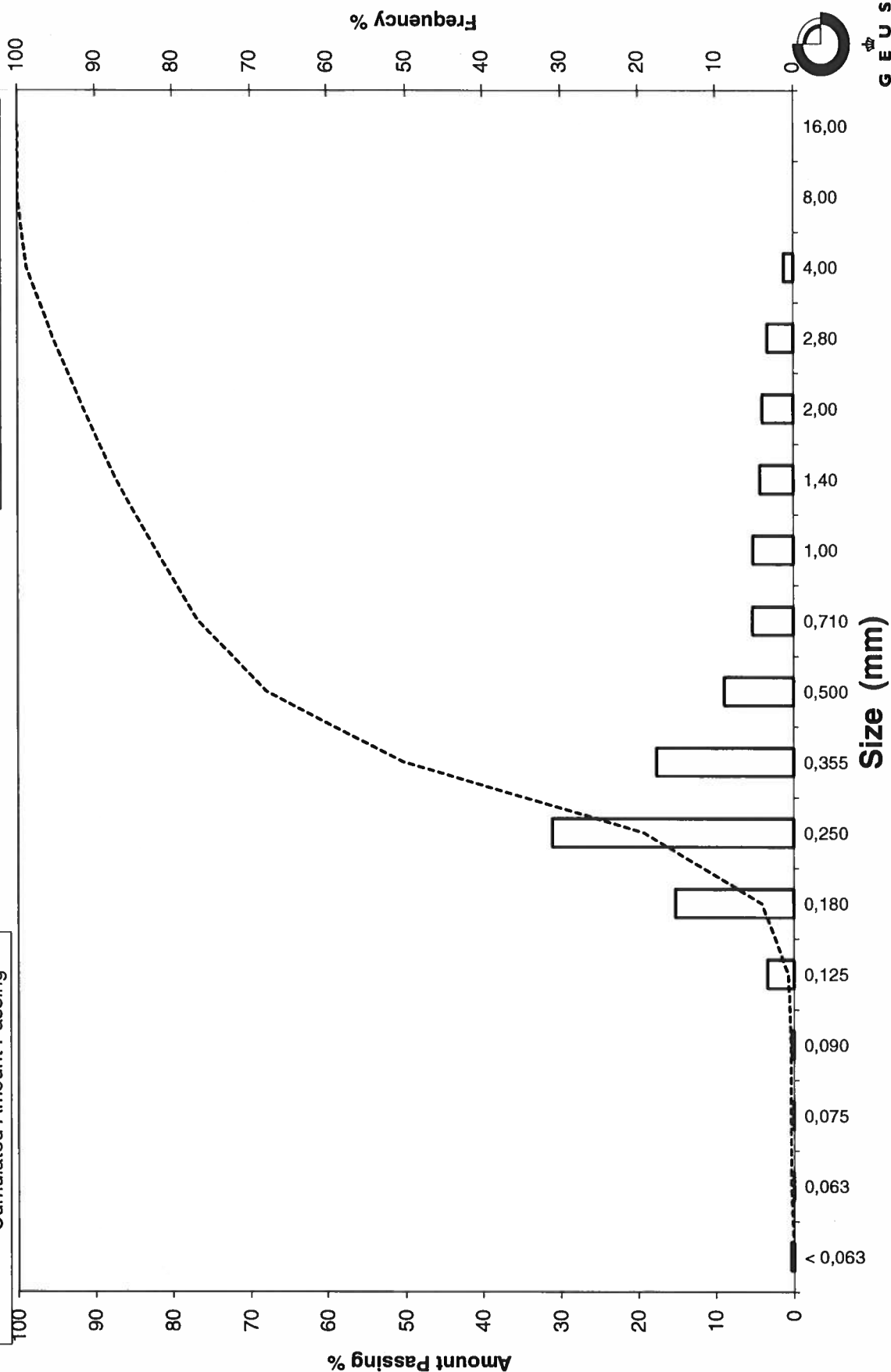
Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: BF-01, 80-120

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: BF-02, 0-100
Lab. Id: 210122
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >4 mm består af skaller



Total Weight 110,06 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,08	0,07	99,93
	4,00	-2,00	0,12	0,11	99,82
	2,80	-1,49	1,60	1,45	98,36
	2,00	-1,00	2,21	2,01	96,36
	1,40	-0,49	2,84	2,58	93,78
	1,00	0,00	6,03	5,48	88,30
	0,710	0,49	7,68	6,98	81,32
	0,500	1,00	10,62	9,65	71,67
	0,355	1,49	14,91	13,55	58,12
Sand	0,250	2,00	26,21	23,81	34,31
	0,180	2,47	28,52	25,91	8,40
	0,125	3,00	8,11	7,37	1,03
	0,090	3,47	0,47	0,43	0,60
	0,075	3,74	0,01	0,01	0,59
	0,063	3,99	0,00	0,00	0,59
	< 0,063	> 3,99	0,65	0,59	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,59
Sand, fine (0,063 mm - 0,200 mm):	15,21
Sand, medium (0,2 mm - 0,6 mm):	60,47
Sand, coarse (0,6 mm - 2 mm):	20,09
Gravel (> 2 mm):	3,64
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,68	-0,75
16%	84%	0,82	0,28
25%	75%	0,57	0,80
40%	60%	0,38	1,41
Median 50%	50%	0,32	1,65
75%	25%	0,22	2,15
84%	16%	0,20	2,32
90%	10%	0,18	2,44
95%	5%	0,15	2,69

Moments Statistics

Mean	1,42
Sorting	1,03
Skewness	-0,37
Kurtosis	1,05
Uniformity Coefficient	2,03

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

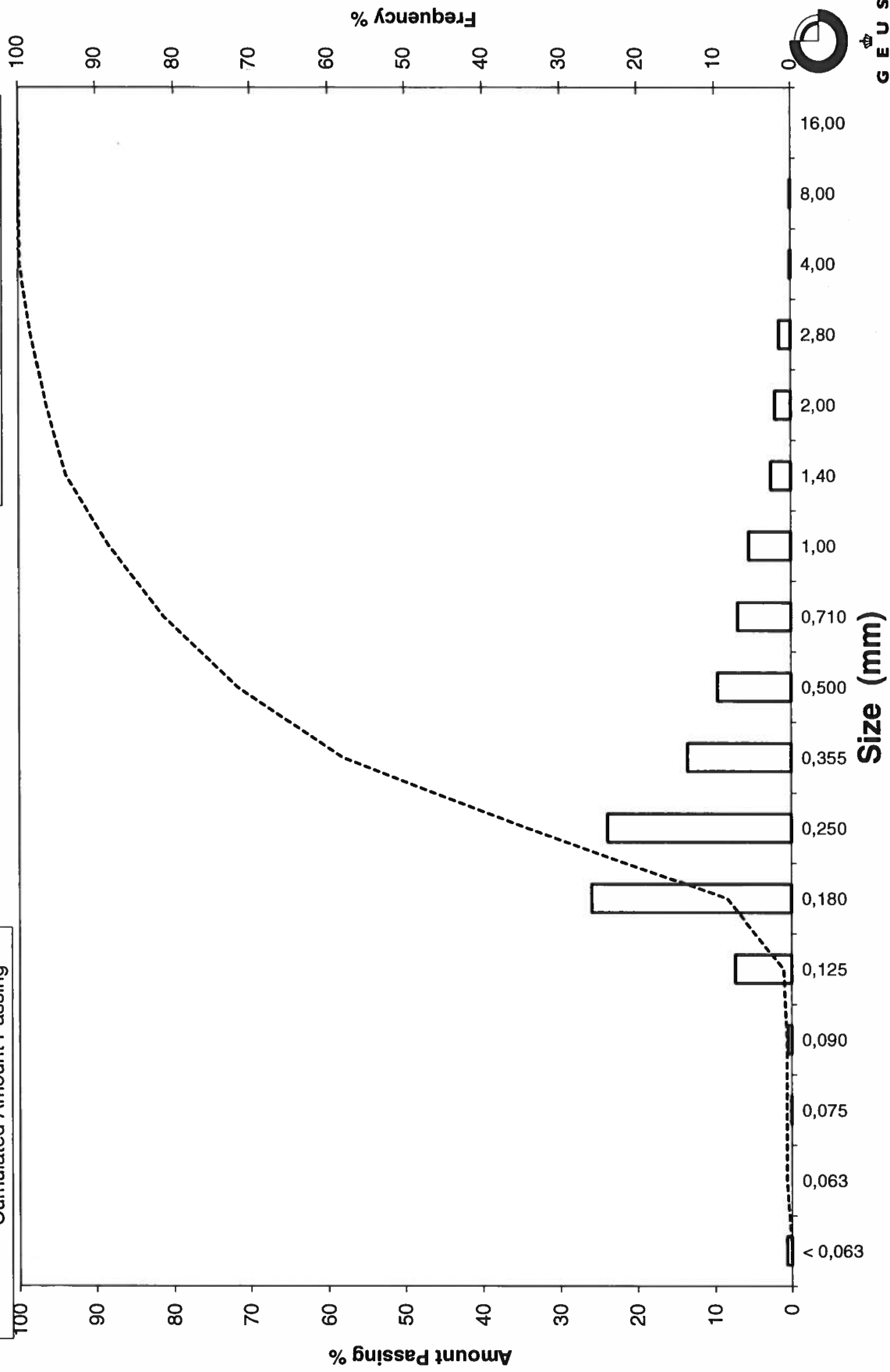
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: BF-02, 0-100

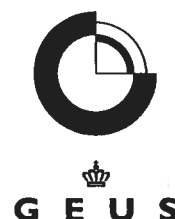
Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: BF-02, 110-350
Lab. Id: 210123
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 108,21 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,18	0,17	99,83
2,00	-1,00	0,23	0,21	99,62
1,40	-0,49	0,56	0,52	99,10
1,00	0,00	1,27	1,17	97,93
0,710	0,49	1,88	1,74	96,19
0,500	1,00	4,39	4,06	92,14
0,355	1,49	10,35	9,56	82,57
0,250	2,00	31,40	29,02	53,55
0,180	2,47	39,00	36,04	17,51
0,125	3,00	17,15	15,85	1,66
0,090	3,47	1,35	1,25	0,42
0,075	3,74	0,06	0,06	0,36
0,063	3,99	0,01	0,01	0,35
< 0,063	> 3,99	0,38	0,35	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,35
Sand, fine (0,063 mm - 0,200 mm):	27,46
Sand, medium (0,2 mm - 0,6 mm):	66,26
Sand, coarse (0,6 mm - 2 mm):	5,55
Gravel (> 2 mm):	0,38
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,65	0,63
16%	84%	0,38	1,41
25%	75%	0,33	1,61
40%	60%	0,27	1,87
Median 50%	50%	0,24	2,04
75%	25%	0,19	2,36
84%	16%	0,17	2,52
90%	10%	0,15	2,70
95%	5%	0,14	2,87

Moments Statistics

Mean	1,99
Sorting	0,62
Skewness	-0,20
Kurtosis	1,22
Uniformity Coefficient	1,78

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

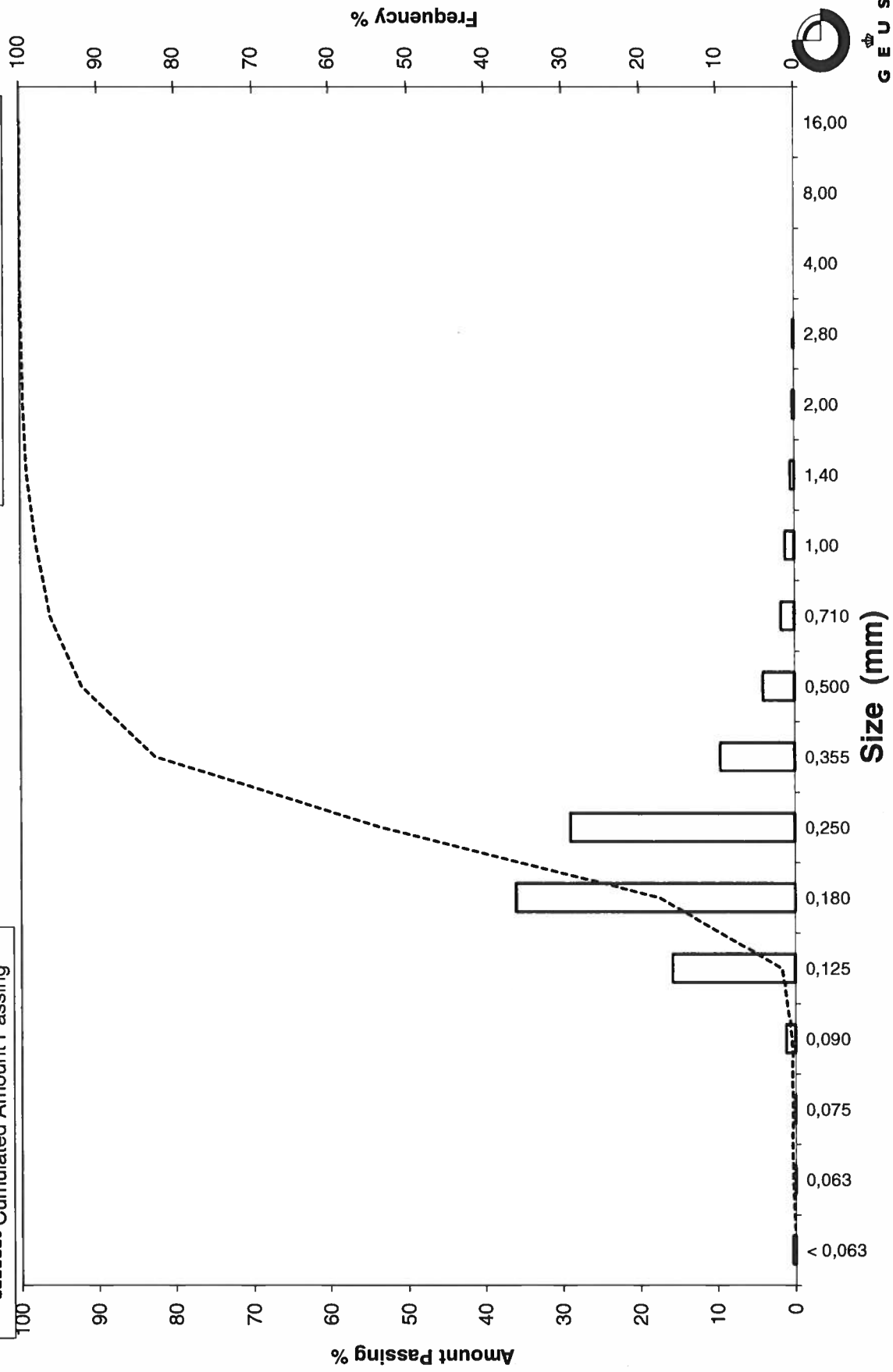
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Sample Id: BF-02, 110-350

Grain Size Distribution

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: BF-03, 0-200
Lab. Id: 210124
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 101,15 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,21	0,21	99,79
2,00	-1,00	0,17	0,17	99,62
1,40	-0,49	0,07	0,07	99,56
1,00	0,00	0,20	0,20	99,36
0,710	0,49	0,24	0,24	99,12
0,500	1,00	0,64	0,63	98,49
0,355	1,49	4,01	3,96	94,52
0,250	2,00	28,67	28,34	66,18
0,180	2,47	49,25	48,69	17,49
0,125	3,00	13,50	13,35	4,14
0,090	3,47	1,72	1,70	2,44
0,075	3,74	0,44	0,43	2,01
0,063	3,99	0,24	0,24	1,77
< 0,063	> 3,99	1,79	1,77	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,77
Sand, fine (0,063 mm - 0,200 mm):	29,63
Sand, medium (0,2 mm - 0,6 mm):	67,39
Sand, coarse (0,6 mm - 2 mm):	0,84
Gravel (> 2 mm):	0,38
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,37	1,42
16%	84%	0,32	1,66
25%	75%	0,28	1,82
40%	60%	0,24	2,05
Median 50%	50%	0,23	2,14
75%	25%	0,19	2,39
84%	16%	0,17	2,52
90%	10%	0,15	2,75
95%	5%	0,13	2,96

Moments Statistics

Mean	2,11
Sorting	0,45
Skewness	-0,02
Kurtosis	1,11
Uniformity Coefficient	1,62

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

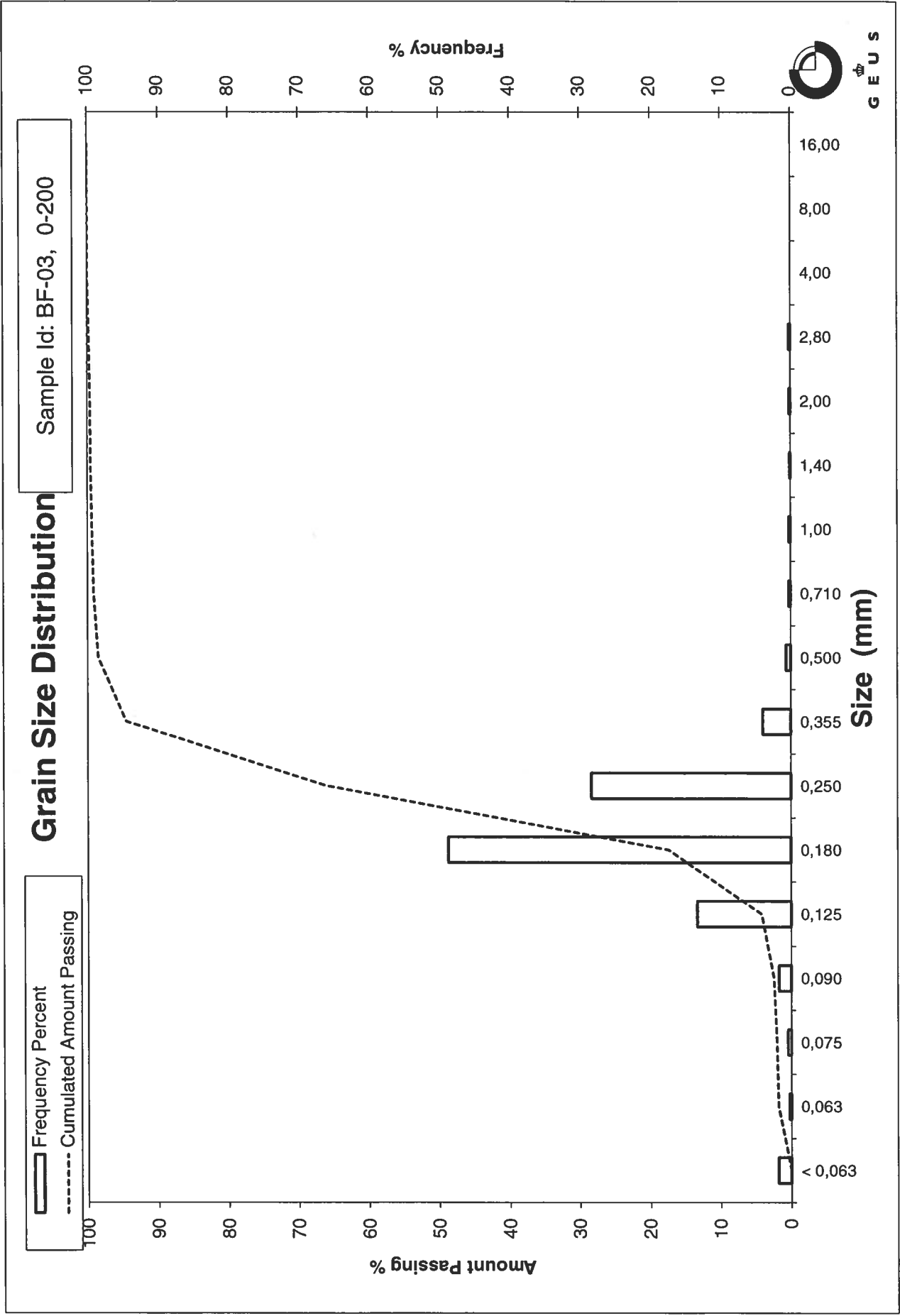
Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Size Classes and Percentiles are found by linear interpolation

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk



Grain Size Distribution

Geotechnical

Sample Id: BF-04, 0-25
Lab. Id: 210125
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 109,24 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,66	0,60	99,40
2,80	-1,49	1,10	1,01	98,39
2,00	-1,00	1,47	1,35	97,04
1,40	-0,49	1,81	1,66	95,39
1,00	0,00	3,46	3,17	92,22
0,710	0,49	4,62	4,23	87,99
0,500	1,00	6,99	6,40	81,59
0,355	1,49	9,18	8,40	73,19
0,250	2,00	25,47	23,32	49,87
0,180	2,47	35,20	32,22	17,65
0,125	3,00	15,94	14,59	3,06
0,090	3,47	2,43	2,22	0,83
0,075	3,74	0,29	0,27	0,57
0,063	3,99	0,17	0,16	0,41
< 0,063	> 3,99	0,45	0,41	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,41
Sand, fine (0,063 mm - 0,200 mm):	26,44
Sand, medium (0,2 mm - 0,6 mm):	57,78
Sand, coarse (0,6 mm - 2 mm):	12,41
Gravel (> 2 mm):	2,96
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,35	-0,43
16%	84%	0,58	0,79
25%	75%	0,39	1,37
40%	60%	0,30	1,76
Median 50%	50%	0,25	2,00
75%	25%	0,20	2,35
84%	16%	0,17	2,52
90%	10%	0,15	2,73
95%	5%	0,13	2,92

Moments Statistics

Mean	1,77
Sorting	0,94
Skewness	-0,42
Kurtosis	1,40
Uniformity Coefficient	1,96

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

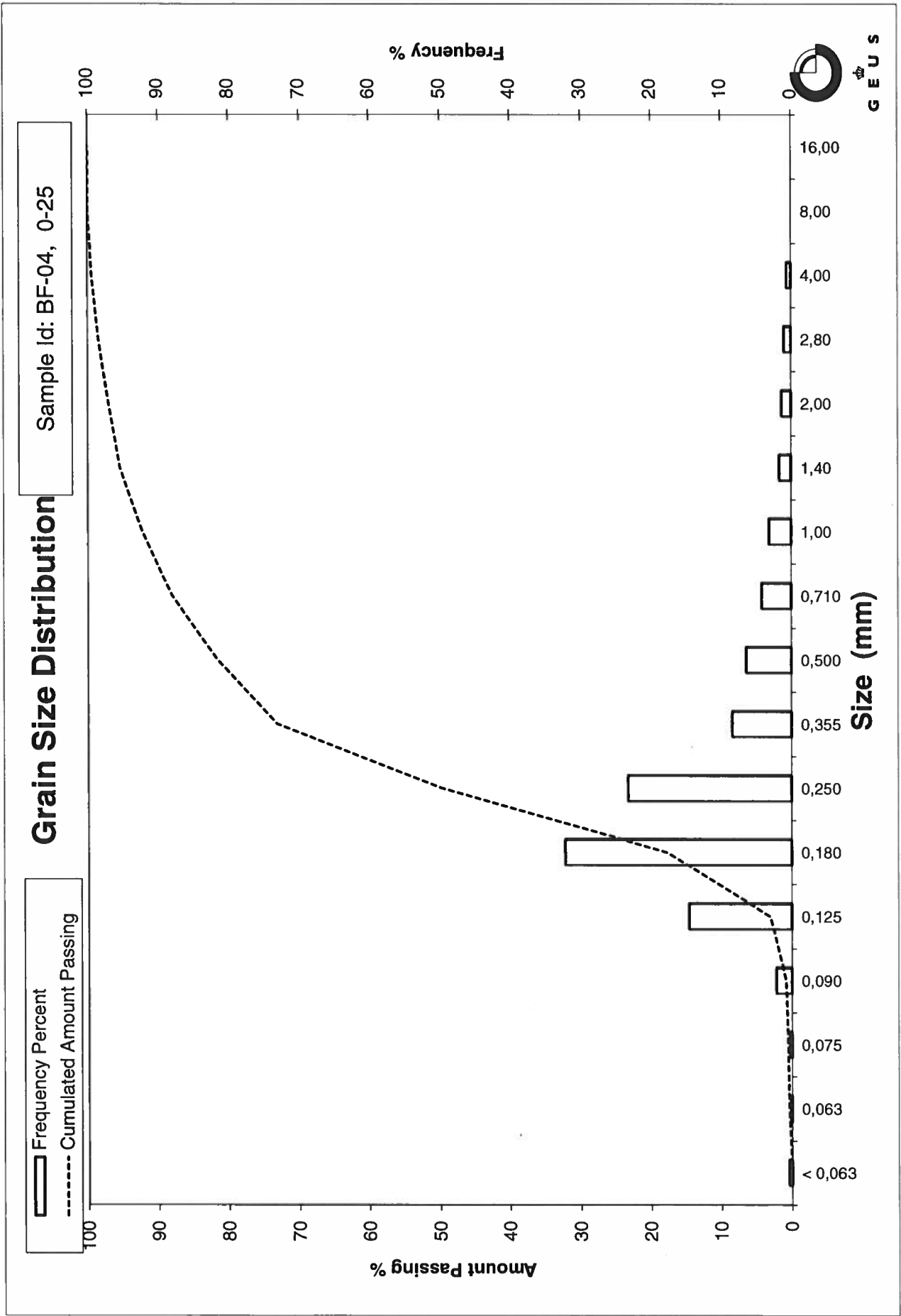
Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk



Grain Size Distribution

Geotechnical

Sample Id: BF-04, 25-100
Lab. Id: 210126
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 97,93 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,00	0,00	100,00
2,00	-1,00	0,00	0,00	100,00
1,40	-0,49	0,00	0,00	100,00
1,00	0,00	0,04	0,04	99,96
0,710	0,49	0,05	0,05	99,91
0,500	1,00	0,39	0,40	99,51
0,355	1,49	4,66	4,76	94,75
0,250	2,00	34,36	35,09	59,67
0,180	2,47	42,36	43,26	16,41
0,125	3,00	10,79	11,02	5,39
0,090	3,47	2,67	2,73	2,67
0,075	3,74	0,81	0,83	1,84
0,063	3,99	0,34	0,35	1,49
< 0,063	> 3,99	1,46	1,49	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,49
Sand, fine (0,063 mm - 0,200 mm):	27,28
Sand, medium (0,2 mm - 0,6 mm):	70,93
Sand, coarse (0,6 mm - 2 mm):	0,30
Gravel (> 2 mm):	0,00
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,36	1,46
16%	84%	0,32	1,63
25%	75%	0,30	1,76
40%	60%	0,25	1,99
Median 50%	50%	0,23	2,09
75%	25%	0,19	2,37
84%	16%	0,18	2,49
90%	10%	0,15	2,76
95%	5%	0,12	3,06

Moments Statistics

Mean	2,07
Sorting	0,46
Skewness	0,07
Kurtosis	1,07
Uniformity Coefficient	1,70

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

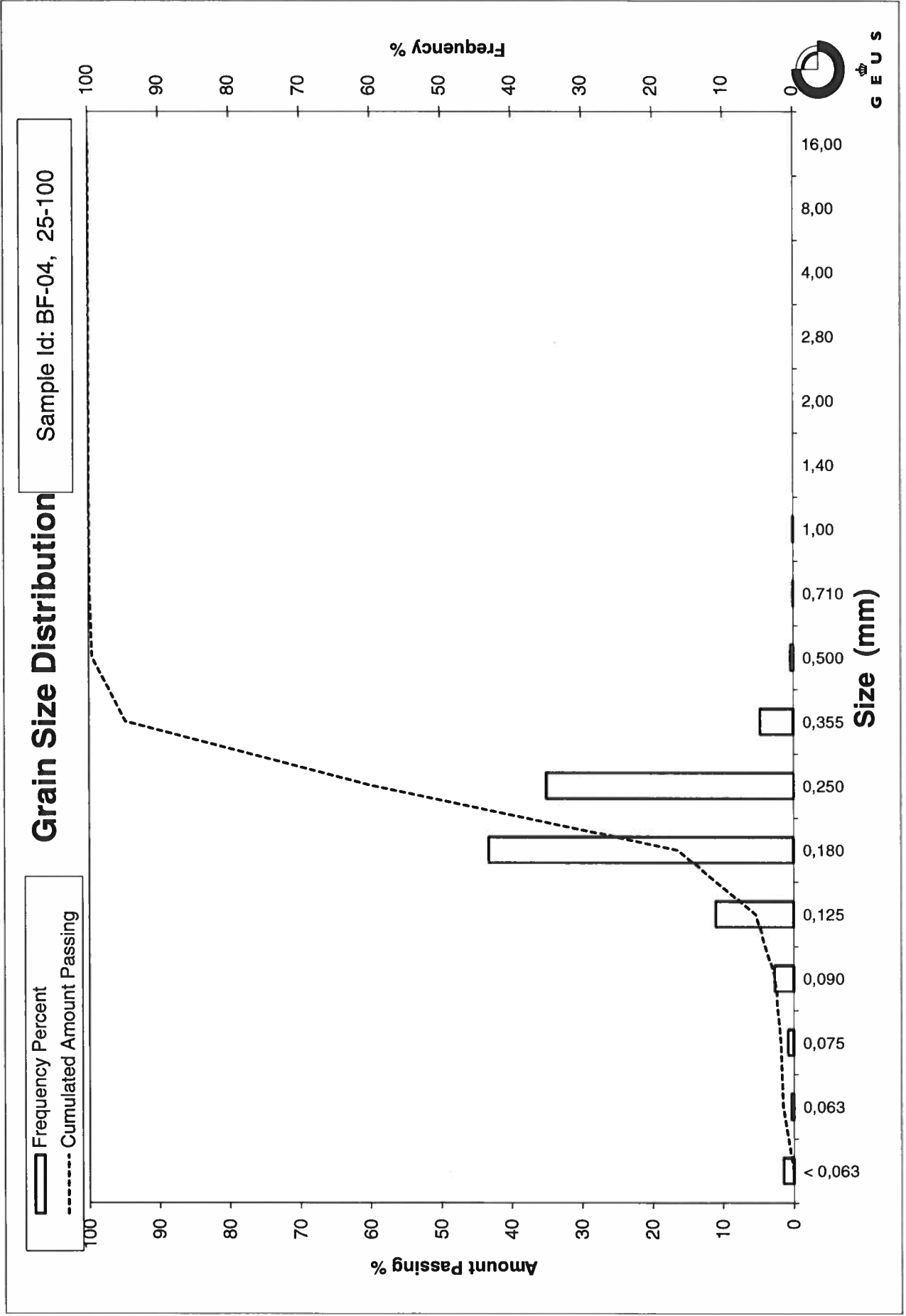
Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk



Grain Size Distribution

Geotechnical

Sample Id: BF-05, 0-85
Lab. Id: 210127
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 261,07 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	8,30	3,18	96,82
4,00	-2,00	3,22	1,23	95,59
2,80	-1,49	1,82	0,70	94,89
2,00	-1,00	2,26	0,87	94,02
1,40	-0,49	3,72	1,42	92,60
1,00	0,00	3,56	1,36	91,24
0,710	0,49	2,58	0,99	90,25
0,500	1,00	9,14	3,50	86,75
0,355	1,49	38,20	14,63	72,11
0,250	2,00	80,03	30,65	41,46
0,180	2,47	60,42	23,14	18,32
0,125	3,00	32,16	12,32	6,00
0,090	3,47	9,61	3,68	2,32
0,075	3,74	1,46	0,56	1,76
0,063	3,99	0,74	0,28	1,47
< 0,063	> 3,99	3,85	1,47	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,47
Sand, fine (0,063 mm - 0,200 mm):	23,45
Sand, medium (0,2 mm - 0,6 mm):	63,48
Sand, coarse (0,6 mm - 2 mm):	5,61
Gravel (> 2 mm):	5,98
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	2,99	-1,58
16%	84%	0,47	1,08
25%	75%	0,38	1,38
40%	60%	0,31	1,67
Median 50%	50%	0,28	1,84
75%	25%	0,20	2,32
84%	16%	0,17	2,56
90%	10%	0,14	2,81
95%	5%	0,12	3,11

Moments Statistics

Mean	1,83
Sorting	1,08
Skewness	-0,24
Kurtosis	2,05
Uniformity Coefficient	2,19

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

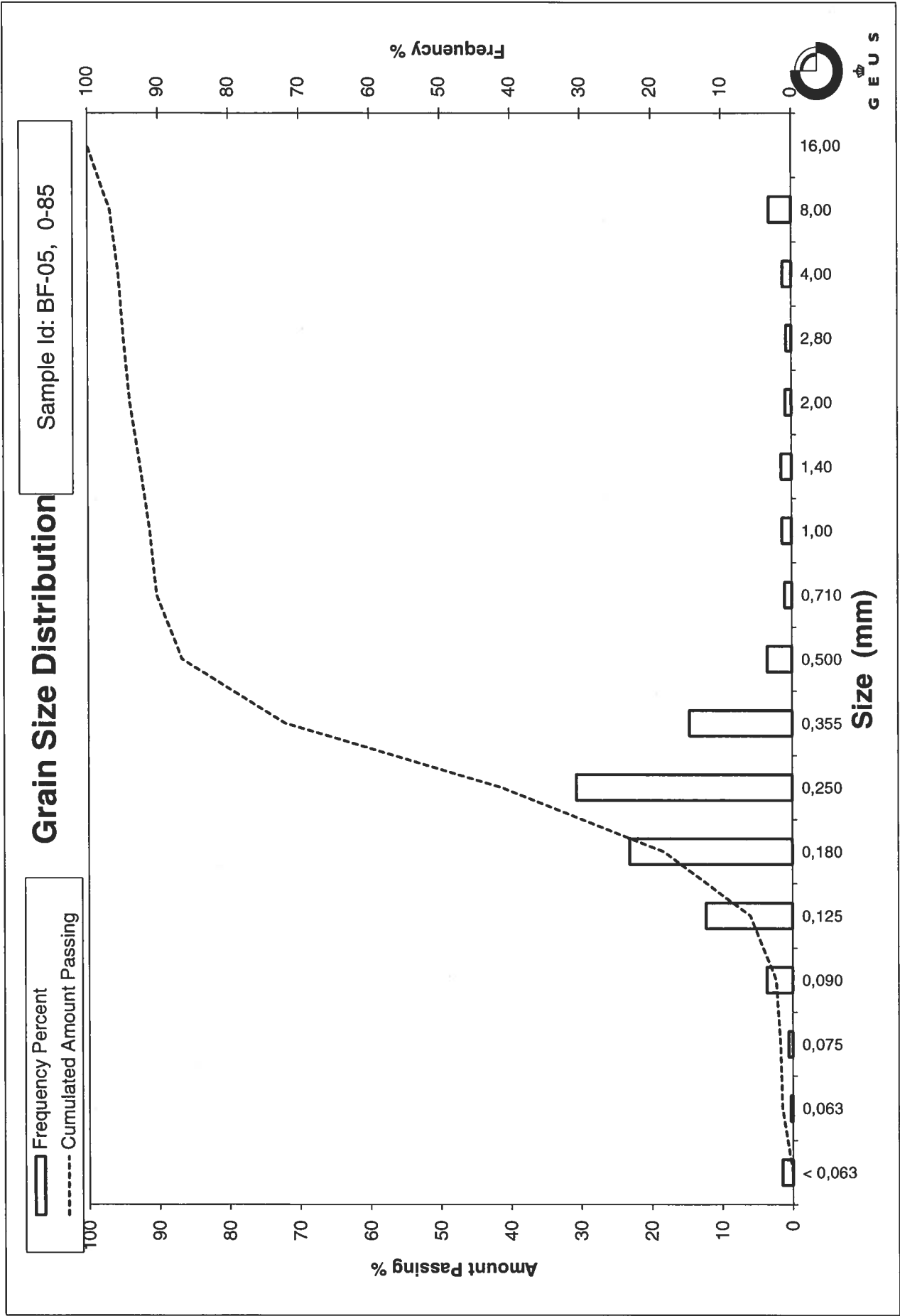
Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk



Grain Size Distribution

Geotechnical

Sample Id: BF-05, 100-200
Lab. Id: 210128
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 102,59 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Sieve Analysis	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,00	0,00	100,00
	4,00	-2,00	0,00	0,00	100,00
	2,80	-1,49	0,09	0,09	99,91
	2,00	-1,00	0,14	0,14	99,78
	1,40	-0,49	0,14	0,14	99,64
	1,00	0,00	0,32	0,31	99,33
	0,710	0,49	0,53	0,52	98,81
	0,500	1,00	3,79	3,69	95,12
	0,355	1,49	18,93	18,45	76,66
	0,250	2,00	37,61	36,66	40,00
	0,180	2,47	19,69	19,19	20,81
	0,125	3,00	14,34	13,98	6,83
	0,090	3,47	5,31	5,18	1,66
	0,075	3,74	0,53	0,52	1,14
	0,063	3,99	0,21	0,20	0,94
	< 0,063	> 3,99	0,96	0,94	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,94
Sand, fine (0,063 mm - 0,200 mm):	25,36
Sand, medium (0,2 mm - 0,6 mm):	70,58
Sand, coarse (0,6 mm - 2 mm):	2,90
Gravel (> 2 mm):	0,22
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,50	1,00
16%	84%	0,41	1,28
25%	75%	0,35	1,51
40%	60%	0,31	1,70
Median 50%	50%	0,28	1,84
75%	25%	0,20	2,36
84%	16%	0,16	2,63
90%	10%	0,14	2,86
95%	5%	0,11	3,15

Moments Statistics

Mean	1,92
Sorting	0,66
Skewness	0,19
Kurtosis	1,04
Uniformity Coefficient	2,24

The analysis is executed according to DS 405.9 extended by sieves to the 1/2 phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

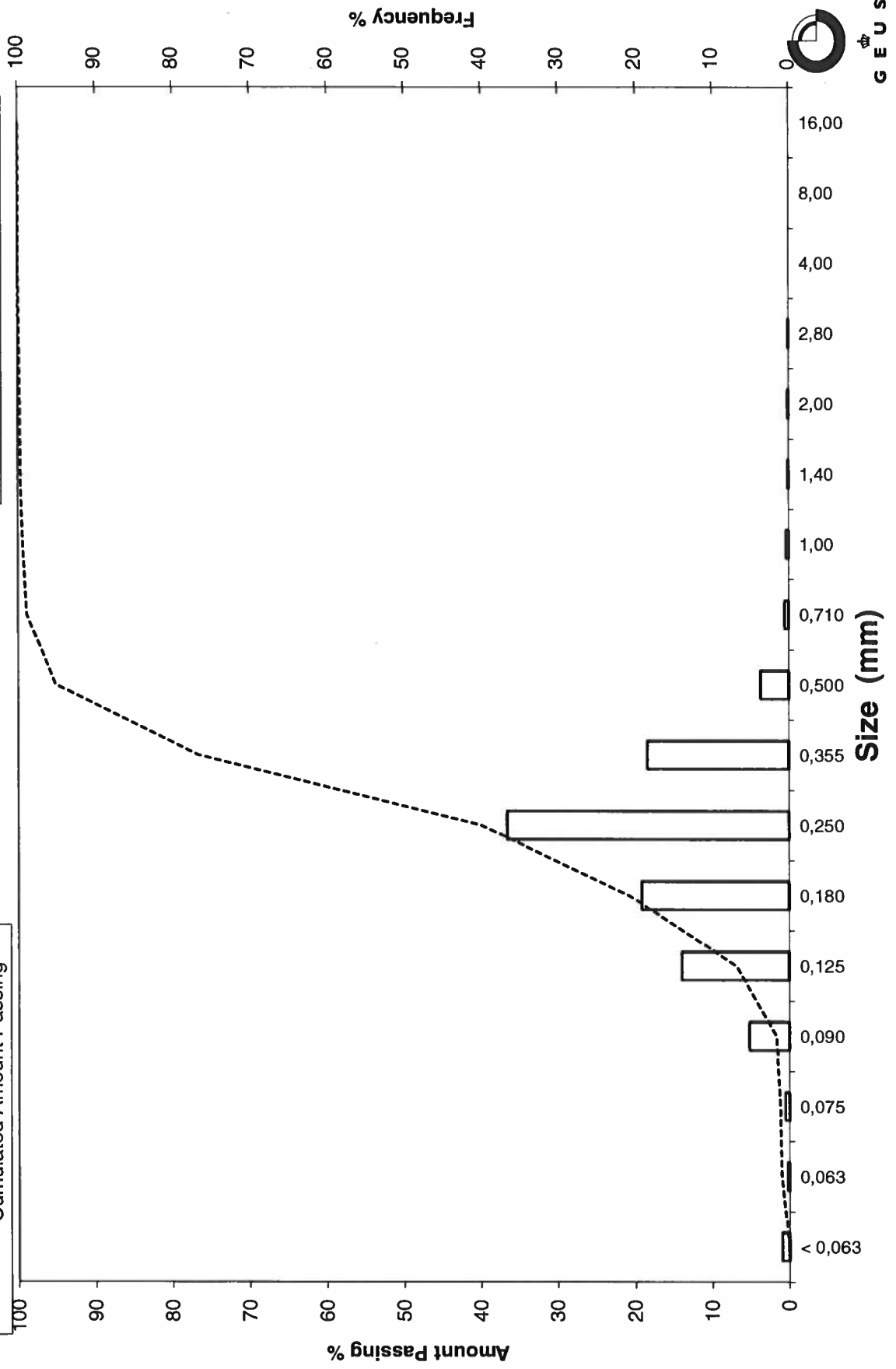
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: BF-05, 100-200

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: BF-06, 0-145
Lab. Id: 210129
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 247,79 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	26,64	10,75	89,25
	8,00	-3,00	12,38	5,00	84,25
	4,00	-2,00	1,26	0,51	83,74
	2,80	-1,49	0,93	0,38	83,37
	2,00	-1,00	0,76	0,31	83,06
	1,40	-0,49	0,68	0,27	82,79
	1,00	0,00	0,87	0,35	82,44
	0,710	0,49	1,03	0,42	82,02
	0,500	1,00	2,72	1,10	80,92
	0,355	1,49	17,20	6,94	73,98
Sand	0,250	2,00	57,31	23,13	50,85
	0,180	2,47	78,36	31,62	19,23
	0,125	3,00	38,54	15,55	3,68
	0,090	3,47	5,36	2,16	1,51
	0,075	3,74	0,64	0,26	1,26
	0,063	3,99	0,31	0,13	1,13
	< 0,063	> 3,99	2,80	1,13	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,13
Sand, fine (0,063 mm - 0,200 mm):	27,14
Sand, medium (0,2 mm - 0,6 mm):	53,18
Sand, coarse (0,6 mm - 2 mm):	1,62
Gravel (> 2 mm):	16,94
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	-----	-----
16%	84%	6,01	-2,59
25%	75%	0,38	1,41
40%	60%	0,29	1,78
Median 50%	50%	0,25	2,01
75%	25%	0,19	2,38
84%	16%	0,17	2,57
90%	10%	0,15	2,76
95%	5%	0,13	2,95

Moments Statistics

Mean	0,66
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	1,98

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

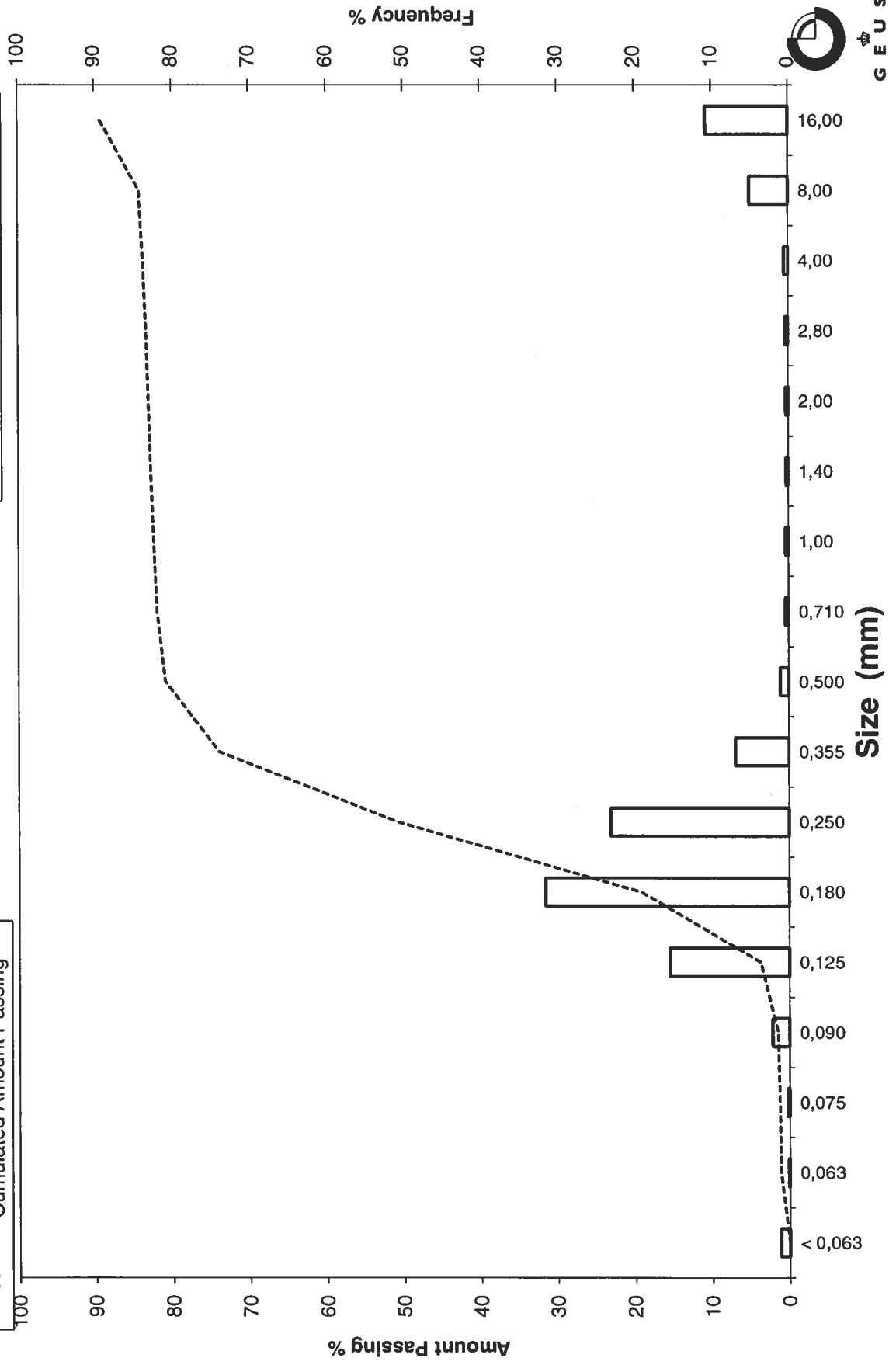
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: BF-06, 0-145

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: BF-06, 145-300
Lab. Id: 210130
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 103,08 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,00	0,00	100,00
2,00	-1,00	0,00	0,00	100,00
1,40	-0,49	0,00	0,00	100,00
1,00	0,00	0,10	0,10	99,90
0,710	0,49	0,06	0,06	99,84
0,500	1,00	0,29	0,28	99,56
0,355	1,49	2,46	2,39	97,18
0,250	2,00	21,76	21,11	76,07
0,180	2,47	48,78	47,32	28,74
0,125	3,00	23,46	22,76	5,99
0,090	3,47	3,75	3,64	2,35
0,075	3,74	0,52	0,50	1,84
0,063	3,99	0,24	0,23	1,61
< 0,063	> 3,99	1,66	1,61	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,61
Sand, fine (0,063 mm - 0,200 mm):	40,65
Sand, medium (0,2 mm - 0,6 mm):	57,43
Sand, coarse (0,6 mm - 2 mm):	0,30
Gravel (> 2 mm):	0,00
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,34	1,54
16%	84%	0,29	1,79
25%	75%	0,25	2,01
40%	60%	0,23	2,14
Median 50%	50%	0,21	2,24
75%	25%	0,17	2,55
84%	16%	0,15	2,74
90%	10%	0,13	2,89
95%	5%	0,12	3,11

Moments Statistics

Mean	2,26
Sorting	0,48
Skewness	0,08
Kurtosis	1,20
Uniformity Coefficient	1,68

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

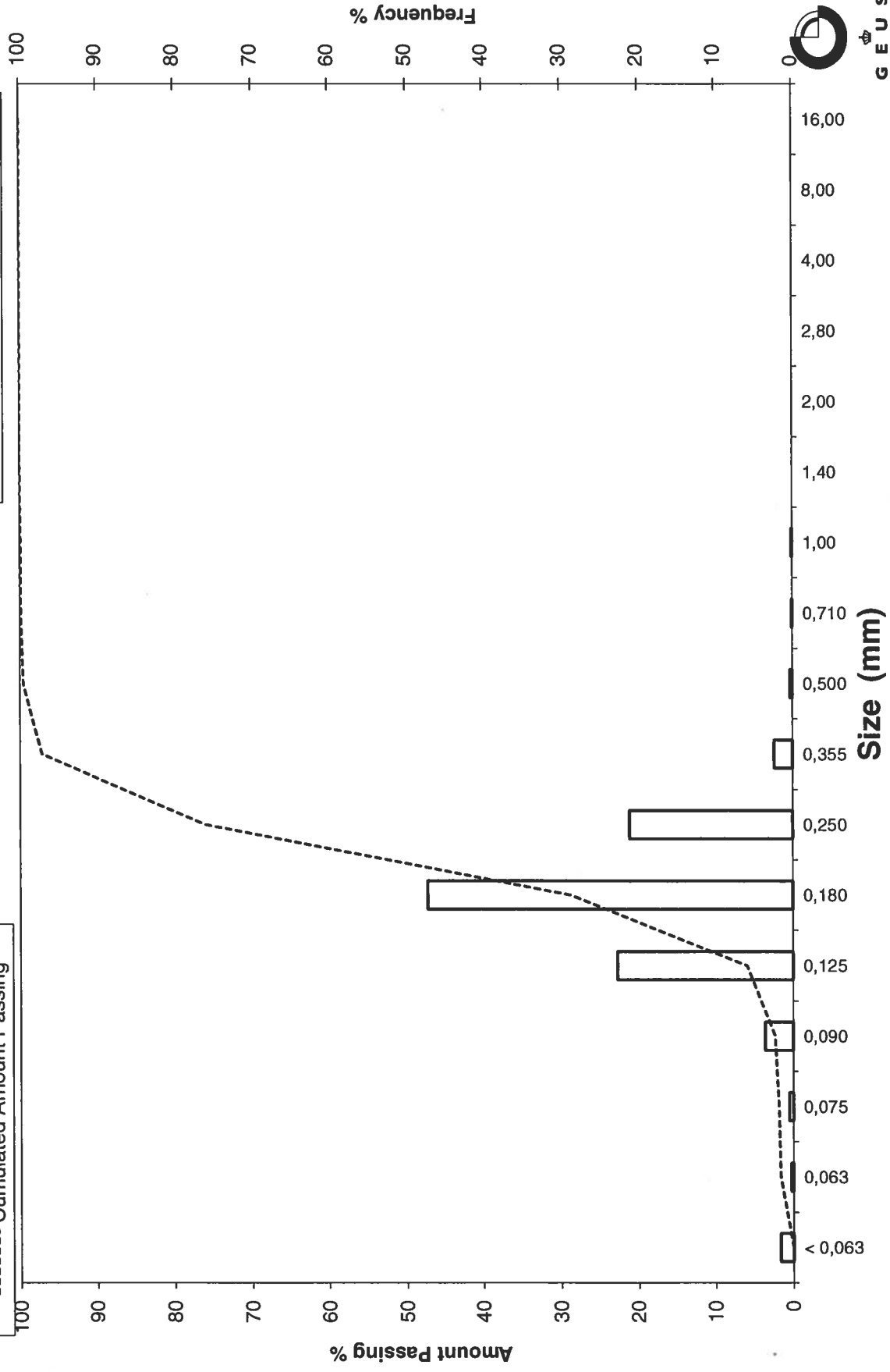
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: BF-06, 145-300

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: GR-05, 0-200
Lab. Id: 210131
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >8 mm består af skaller



Total Weight 107,25 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,19	0,18	99,82
	4,00	-2,00	0,00	0,00	99,82
	2,80	-1,49	0,09	0,08	99,74
	2,00	-1,00	0,16	0,15	99,59
	1,40	-0,49	0,05	0,05	99,54
	1,00	0,00	0,22	0,21	99,34
	0,710	0,49	0,16	0,15	99,19
	0,500	1,00	0,27	0,25	98,94
	0,355	1,49	0,57	0,53	98,41
Sand	0,250	2,00	1,58	1,47	96,93
	0,180	2,47	28,64	26,70	70,23
	0,125	3,00	61,80	57,62	12,61
	0,090	3,47	8,68	8,09	4,51
	0,075	3,74	1,15	1,07	3,44
	0,063	3,99	0,62	0,58	2,86
	< 0,063	> 3,99	3,07	2,86	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	2,86
Sand, fine (0,063 mm - 0,200 mm):	75,00
Sand, medium (0,2 mm - 0,6 mm):	21,20
Sand, coarse (0,6 mm - 2 mm):	0,53
Gravel (> 2 mm):	0,41
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,24	2,03
16%	84%	0,22	2,21
25%	75%	0,19	2,38
40%	60%	0,17	2,55
Median 50%	50%	0,16	2,64
75%	25%	0,14	2,87
84%	16%	0,13	2,96
90%	10%	0,11	3,14
95%	5%	0,09	3,44

Moments Statistics

Mean	2,60
Sorting	0,40
Skewness	0,00
Kurtosis	1,17
Uniformity Coefficient	1,50

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

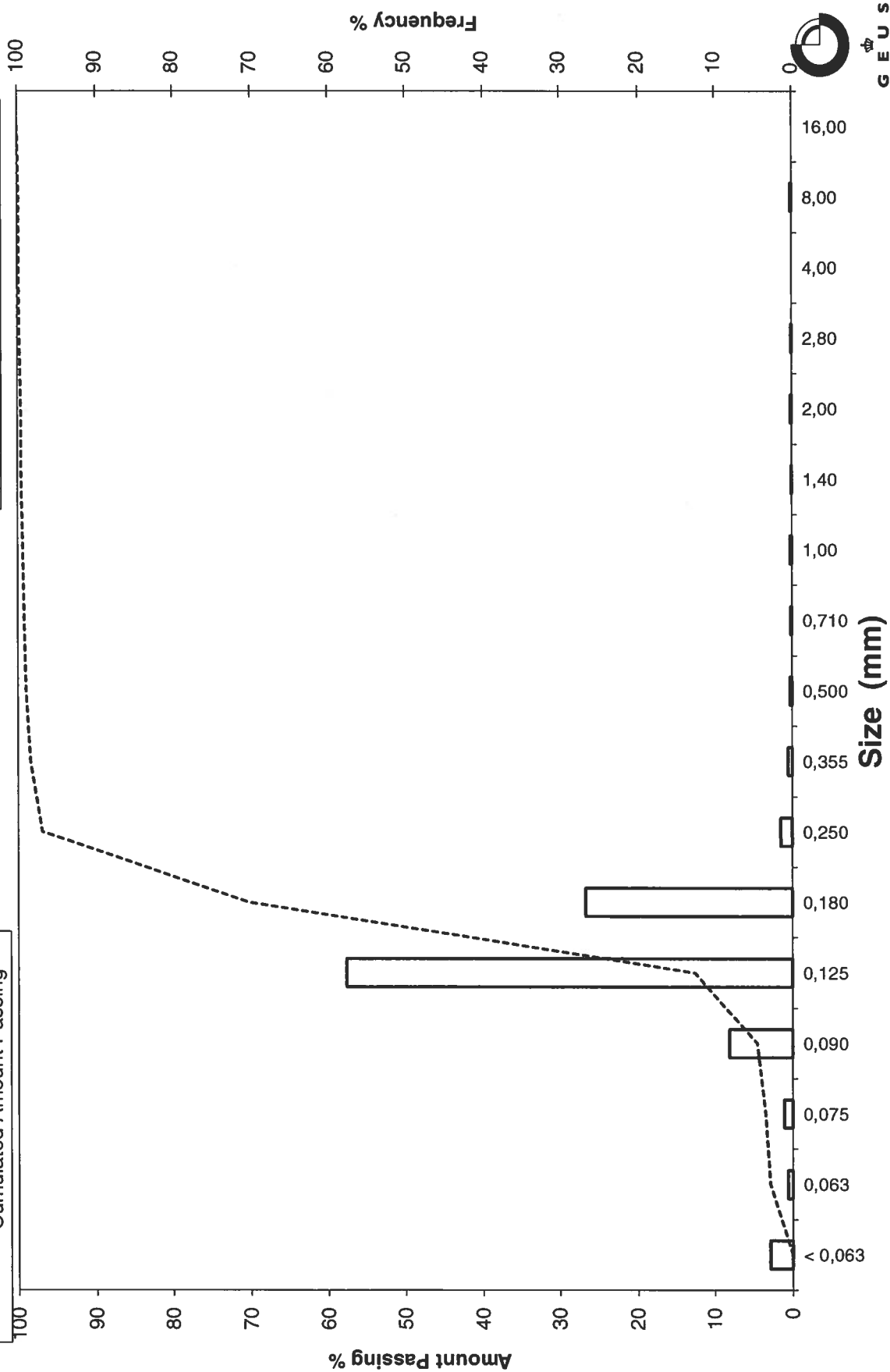
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Sample Id: GR-05, 0-200

Grain Size Distribution

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: GR-06, 0-300
Lab. Id: 210132
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 108,1 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,18	0,17	99,83
2,80	-1,49	0,61	0,56	99,27
2,00	-1,00	0,75	0,69	98,58
1,40	-0,49	1,33	1,23	97,35
1,00	0,00	3,92	3,63	93,72
0,710	0,49	10,26	9,49	84,23
0,500	1,00	29,70	27,47	56,75
0,355	1,49	37,86	35,02	21,73
0,250	2,00	17,75	16,42	5,31
0,180	2,47	2,90	2,68	2,63
0,125	3,00	1,21	1,12	1,51
0,090	3,47	0,49	0,45	1,05
0,075	3,74	0,13	0,12	0,93
0,063	3,99	0,09	0,08	0,85
< 0,063	> 3,99	0,92	0,85	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,85
Sand, fine (0,063 mm - 0,200 mm):	2,54
Sand, medium (0,2 mm - 0,6 mm):	66,44
Sand, coarse (0,6 mm - 2 mm):	28,74
Gravel (> 2 mm):	1,42
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,14	-0,19
16%	84%	0,71	0,50
25%	75%	0,64	0,65
40%	60%	0,52	0,93
Median 50%	50%	0,47	1,08
75%	25%	0,37	1,44
84%	16%	0,32	1,65
90%	10%	0,28	1,84
95%	5%	0,24	2,05

Moments Statistics

Mean	1,08
Sorting	0,63
Skewness	-0,08
Kurtosis	1,15
Uniformity Coefficient	1,87

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

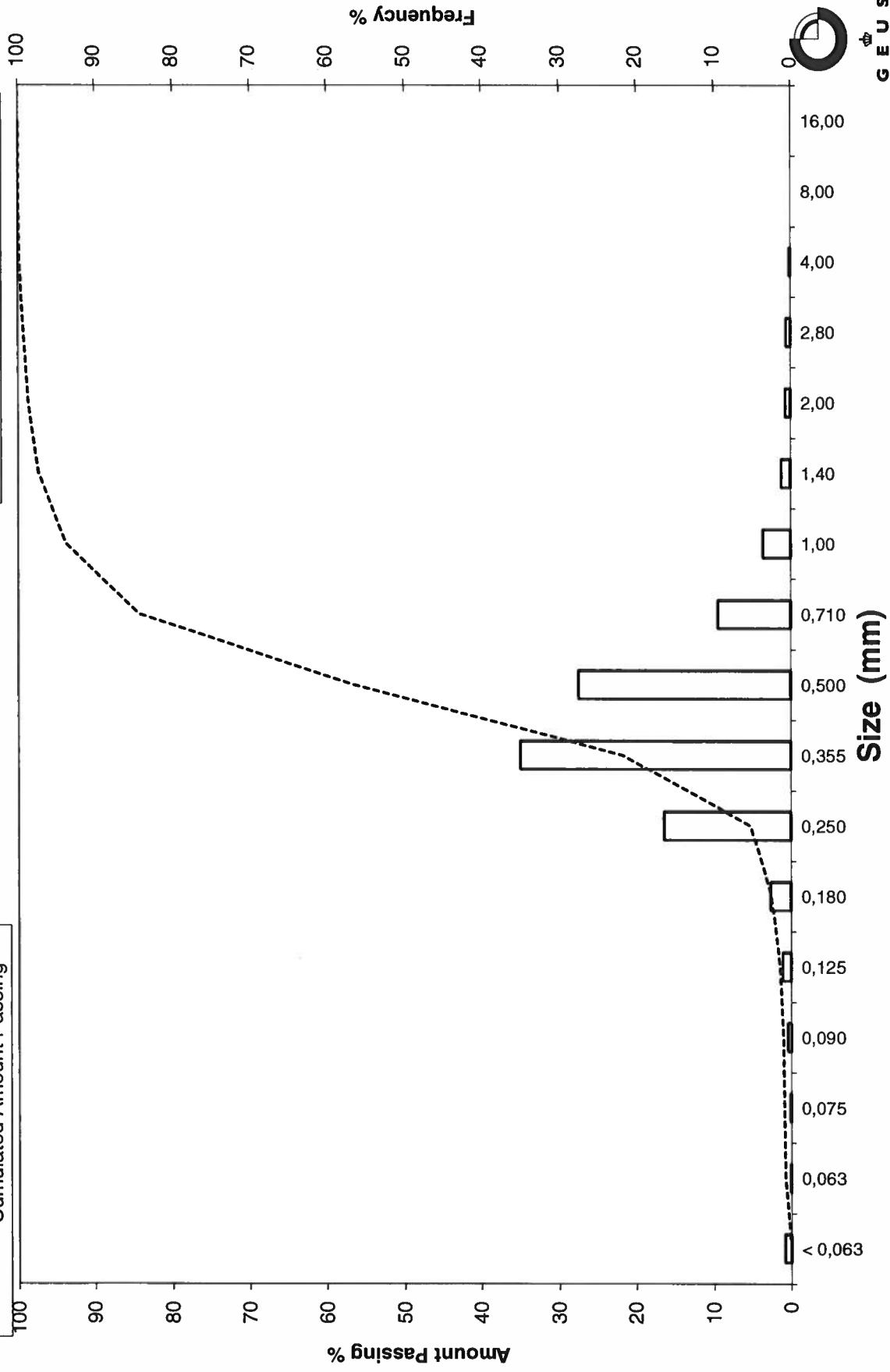
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: GR-06, 0-300

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: GR-06, 380-510
Lab. Id: 210133
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >16mm heraf 82g > 32mm



Total Weight 641,17 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	
Gravel	16,00	-4,00	140,71	21,95	78,05
	8,00	-3,00	66,14	10,32	67,74
	4,00	-2,00	95,34	14,87	52,87
	2,80	-1,49	60,42	9,42	43,45
	2,00	-1,00	43,29	6,75	36,69
Sand	1,40	-0,49	31,66	4,94	31,76
	1,00	0,00	20,74	3,23	28,52
	0,710	0,49	13,00	2,03	26,49
	0,500	1,00	13,44	2,10	24,40
	0,355	1,49	21,61	3,37	21,03
	0,250	2,00	55,23	8,61	12,41
	0,180	2,47	38,34	5,98	6,43
	0,125	3,00	14,06	2,19	4,24
	0,090	3,47	4,06	0,63	3,61
	0,075	3,74	1,22	0,19	3,42
	0,063	3,99	0,98	0,15	3,26
	< 0,063	> 3,99	20,93	3,26	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	3,26
Sand, fine (0,063 mm - 0,200 mm):	4,88
Sand, medium (0,2 mm - 0,6 mm):	17,25
Sand, coarse (0,6 mm - 2 mm):	11,30
Gravel (> 2 mm):	63,31
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	-----	-----
16%	84%	-----	-----
25%	75%	13,63	-3,77
40%	60%	5,92	-2,57
Median 50%	50%	3,63	-1,86
75%	25%	0,56	0,84
84%	16%	0,29	1,77
90%	10%	0,22	2,17
95%	5%	0,14	2,80

Moments Statistics

Mean	-0,05
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	26,69

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

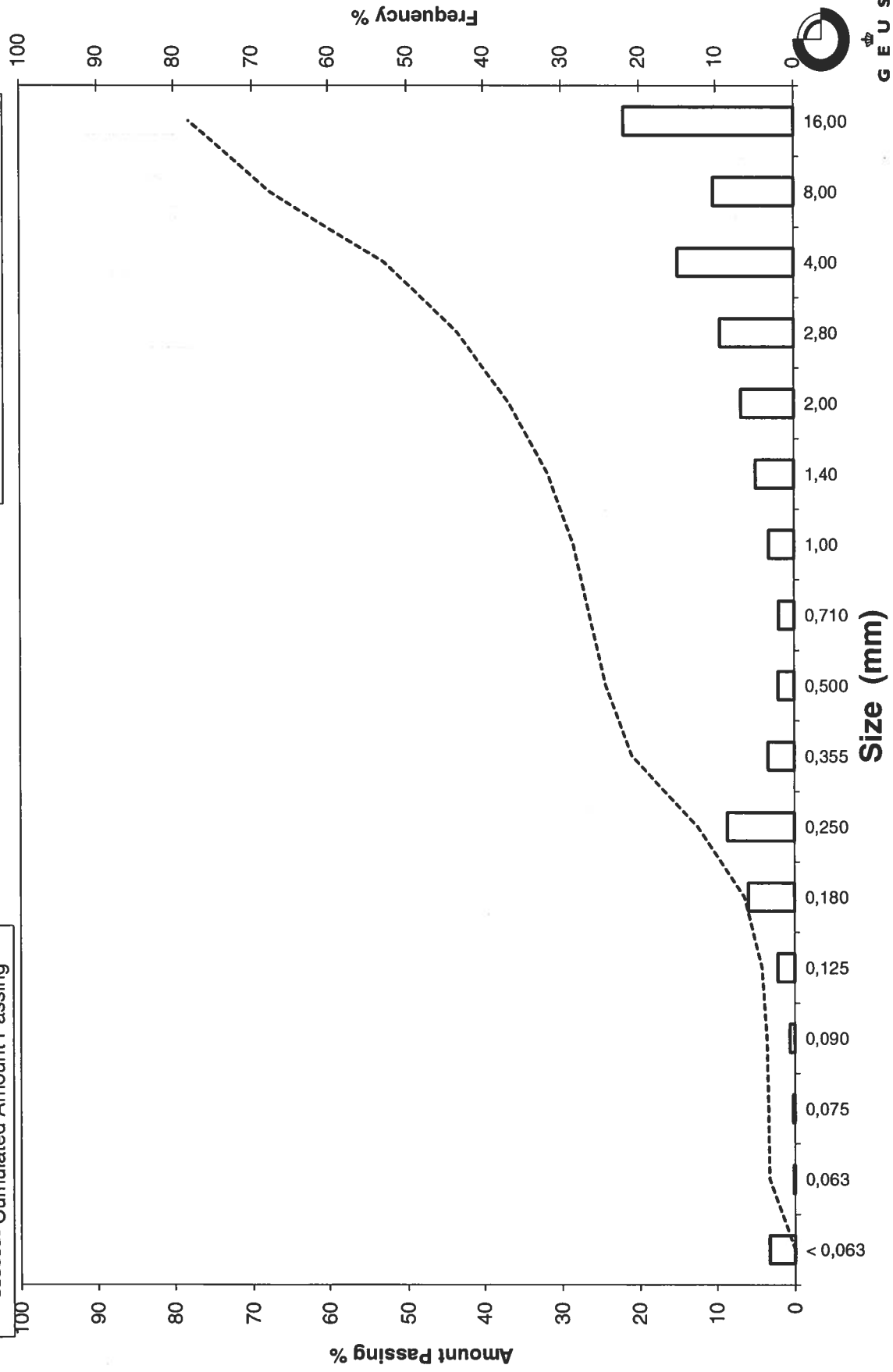
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: GR-06, 380-510

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: GR-08, 0-300
Lab. Id: 210134
Projekt MST Råstøfkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 140,57 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	4,27	3,04	96,96
4,00	-2,00	5,39	3,83	93,13
2,80	-1,49	6,45	4,59	88,54
2,00	-1,00	7,98	5,68	82,86
1,40	-0,49	11,13	7,92	74,94
1,00	0,00	16,51	11,75	63,20
0,710	0,49	20,10	14,30	48,90
0,500	1,00	27,79	19,77	29,13
0,355	1,49	22,68	16,13	13,00
0,250	2,00	13,54	9,63	3,36
0,180	2,47	2,53	1,80	1,57
0,125	3,00	0,61	0,43	1,13
0,090	3,47	0,25	0,18	0,95
0,075	3,74	0,07	0,05	0,90
0,063	3,99	0,04	0,03	0,88
< 0,063	> 3,99	1,23	0,88	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,88
Sand, fine (0,063 mm - 0,200 mm):	1,20
Sand, medium (0,2 mm - 0,6 mm):	36,47
Sand, coarse (0,6 mm - 2 mm):	44,32
Gravel (> 2 mm):	17,14
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	5,95	-2,57
16%	84%	2,16	-1,11
25%	75%	1,40	-0,49
40%	60%	0,94	0,10
Median 50%	50%	0,73	0,45
75%	25%	0,46	1,11
84%	16%	0,38	1,39
90%	10%	0,32	1,63
95%	5%	0,27	1,90

Moments Statistics

Mean	0,24
Sorting	1,30
Skewness	-0,30
Kurtosis	1,15
Uniformity Coefficient	2,90

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

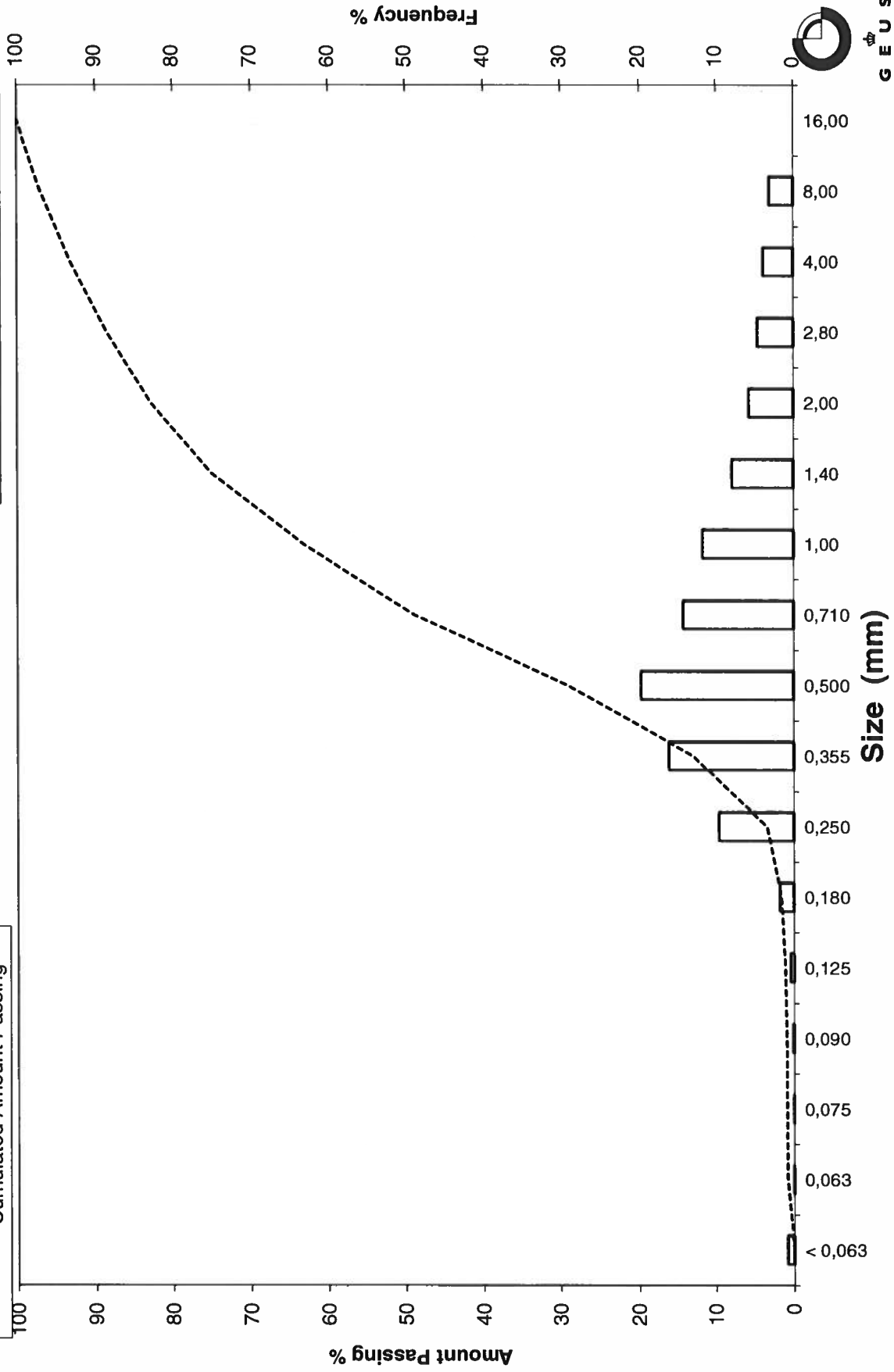
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: GR-08, 0-300

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: GR-11, 0-300
Lab. Id: 210135
Projekt: MST Råstoftkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >4mm består af skaller



Total Weight 110,76 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,07	0,06	99,94
4,00	-2,00	0,21	0,19	99,75
2,80	-1,49	0,90	0,81	98,93
2,00	-1,00	1,37	1,24	97,70
1,40	-0,49	1,36	1,23	96,47
1,00	0,00	3,46	3,12	93,35
0,710	0,49	5,65	5,10	88,24
0,500	1,00	9,80	8,85	79,40
0,355	1,49	24,22	21,87	57,53
0,250	2,00	37,02	33,42	24,11
0,180	2,47	17,80	16,07	8,04
0,125	3,00	5,27	4,76	3,28
0,090	3,47	0,78	0,70	2,57
0,075	3,74	0,24	0,22	2,36
0,063	3,99	0,14	0,13	2,23
< 0,063	> 3,99	2,47	2,23	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	2,23
Sand, fine (0,063 mm - 0,200 mm):	10,40
Sand, medium (0,2 mm - 0,6 mm):	70,98
Sand, coarse (0,6 mm - 2 mm):	14,09
Gravel (> 2 mm):	2,30
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,21	-0,28
16%	84%	0,61	0,71
25%	75%	0,47	1,09
40%	60%	0,37	1,43
Median 50%	50%	0,33	1,59
75%	25%	0,25	1,98
84%	16%	0,21	2,22
90%	10%	0,19	2,41
95%	5%	0,14	2,79

Moments Statistics

Mean	1,51
Sorting	0,84
Skewness	-0,19
Kurtosis	1,40
Uniformity Coefficient	1,97

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

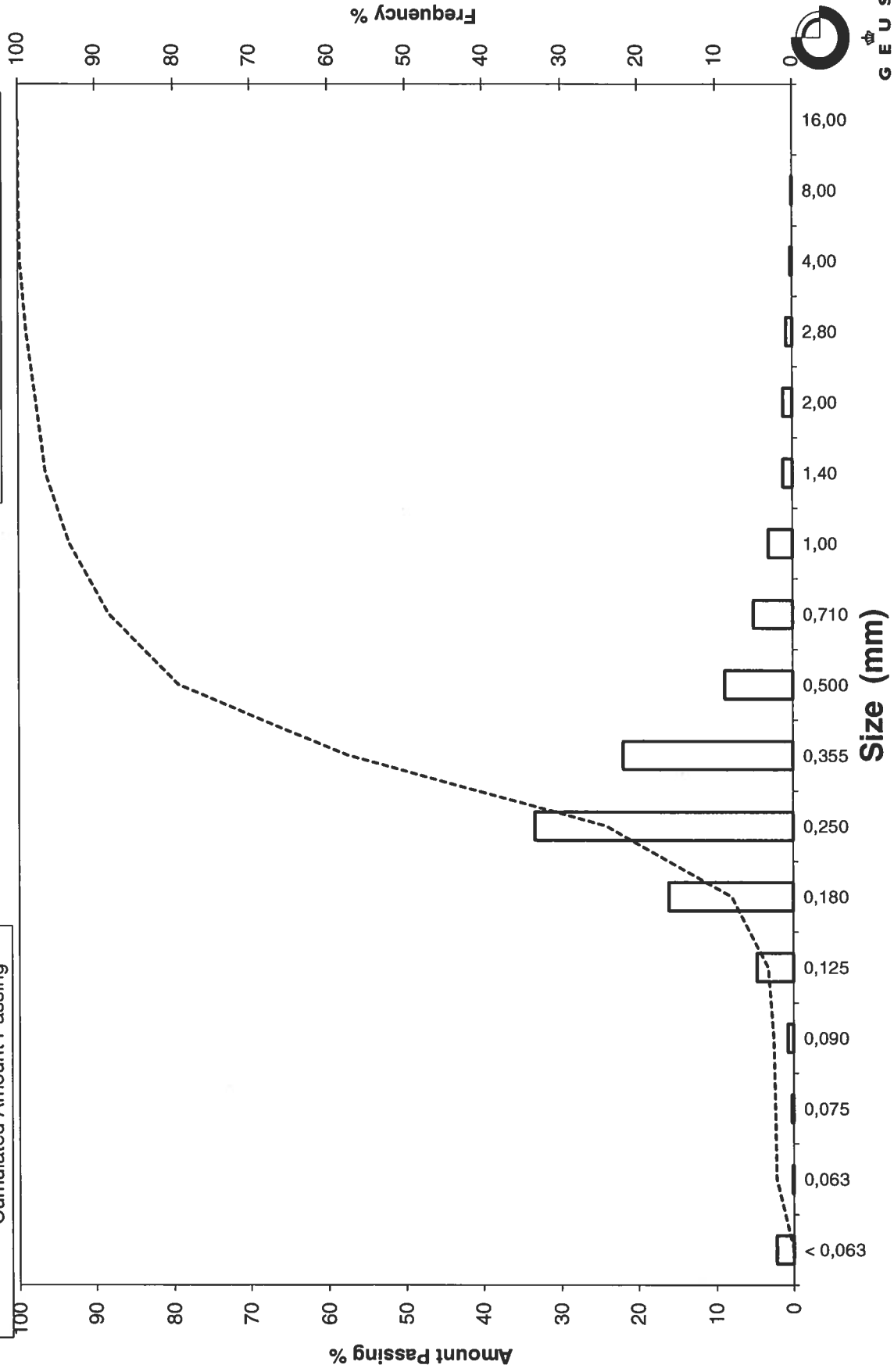
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: GR-11, 0-300

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: VF-01, 0-25
Lab. Id: 210136
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >8mm heraf 7g skaller



Total Weight 472,78 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	105,40	22,29	77,71
8,00	-3,00	75,36	15,94	61,77
4,00	-2,00	22,43	4,74	57,02
2,80	-1,49	8,59	1,82	55,21
2,00	-1,00	7,32	1,55	53,66
1,40	-0,49	8,74	1,85	51,81
1,00	0,00	10,44	2,21	49,60
0,710	0,49	7,77	1,64	47,96
0,500	1,00	10,15	2,15	45,81
0,355	1,49	18,27	3,86	41,95
0,250	2,00	61,35	12,98	28,97
0,180	2,47	97,96	20,72	8,25
0,125	3,00	31,82	6,73	1,52
0,090	3,47	2,07	0,44	1,08
0,075	3,74	0,23	0,05	1,03
0,063	3,99	0,11	0,02	1,01
< 0,063	> 3,99	4,77	1,01	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,01
Sand, fine (0,063 mm - 0,200 mm):	13,16
Sand, medium (0,2 mm - 0,6 mm):	32,66
Sand, coarse (0,6 mm - 2 mm):	6,82
Gravel (> 2 mm):	46,34
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	-----	-----
16%	84%	-----	-----
25%	75%	14,64	-3,87
40%	60%	6,51	-2,70
Median 50%	50%	1,07	-0,10
75%	25%	0,24	2,08
84%	16%	0,21	2,28
90%	10%	0,19	2,43
95%	5%	0,15	2,70

Moments Statistics

Mean	1,09
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	35,02

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

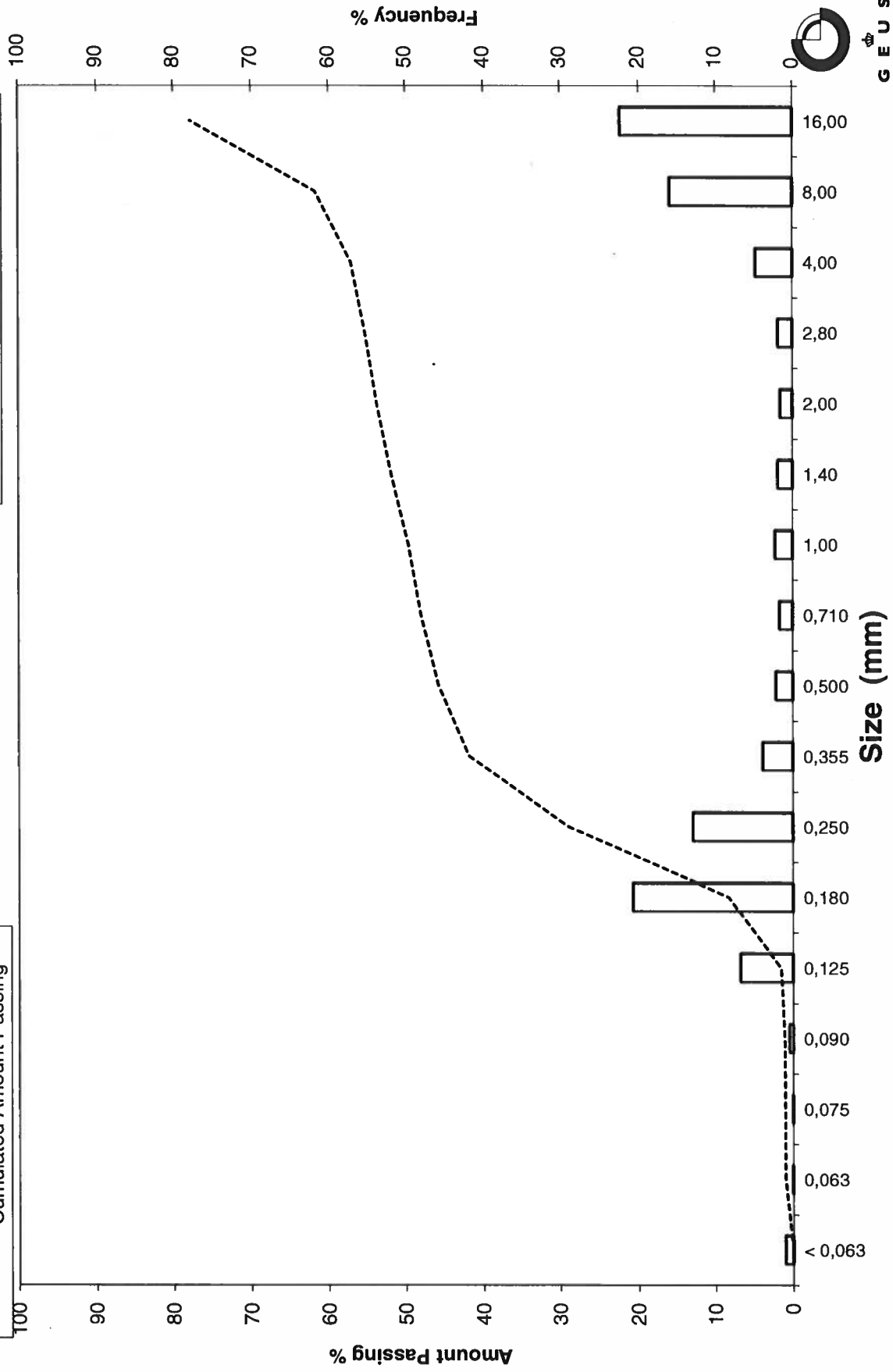
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: VF-01, 0-25

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: VF-01, 25-160
Lab. Id: 210137
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 100,67 g

Size Fractions

Sieve Analysis					
	Gravel		Sand		
Size	mm	Size	Φ	Weight	g
				Weight	%
	16,00	-4,00		0,00	0,00
	8,00	-3,00		0,00	0,00
	4,00	-2,00		0,00	0,00
	2,80	-1,49		0,18	0,18
	2,00	-1,00		0,30	0,30
	1,40	-0,49		0,33	0,33
	1,00	0,00		1,00	0,99
	0,710	0,49		1,25	1,24
	0,500	1,00		2,34	2,32
	0,355	1,49		7,44	7,39
	0,250	2,00		29,69	29,49
	0,180	2,47		36,24	36,00
	0,125	3,00		18,00	17,88
	0,090	3,47		1,98	1,97
	0,075	3,74		0,26	0,26
	0,063	3,99		0,12	0,12
	< 0,063	> 3,99		1,54	1,53
					0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,53
Sand, fine (0,063 mm - 0,200 mm):	30,51
Sand, medium (0,2 mm - 0,6 mm):	63,70
Sand, coarse (0,6 mm - 2 mm):	3,78
Gravel (> 2 mm):	0,48
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,53	0,91
16%	84%	0,34	1,54
25%	75%	0,31	1,68
40%	60%	0,26	1,95
Median 50%	50%	0,23	2,09
75%	25%	0,19	2,42
84%	16%	0,16	2,62
90%	10%	0,14	2,80
95%	5%	0,13	2,96

Moments Statistics

Mean	2,08
Sorting	0,58
Skewness	-0,08
Kurtosis	1,14
Uniformity Coefficient	1,79

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

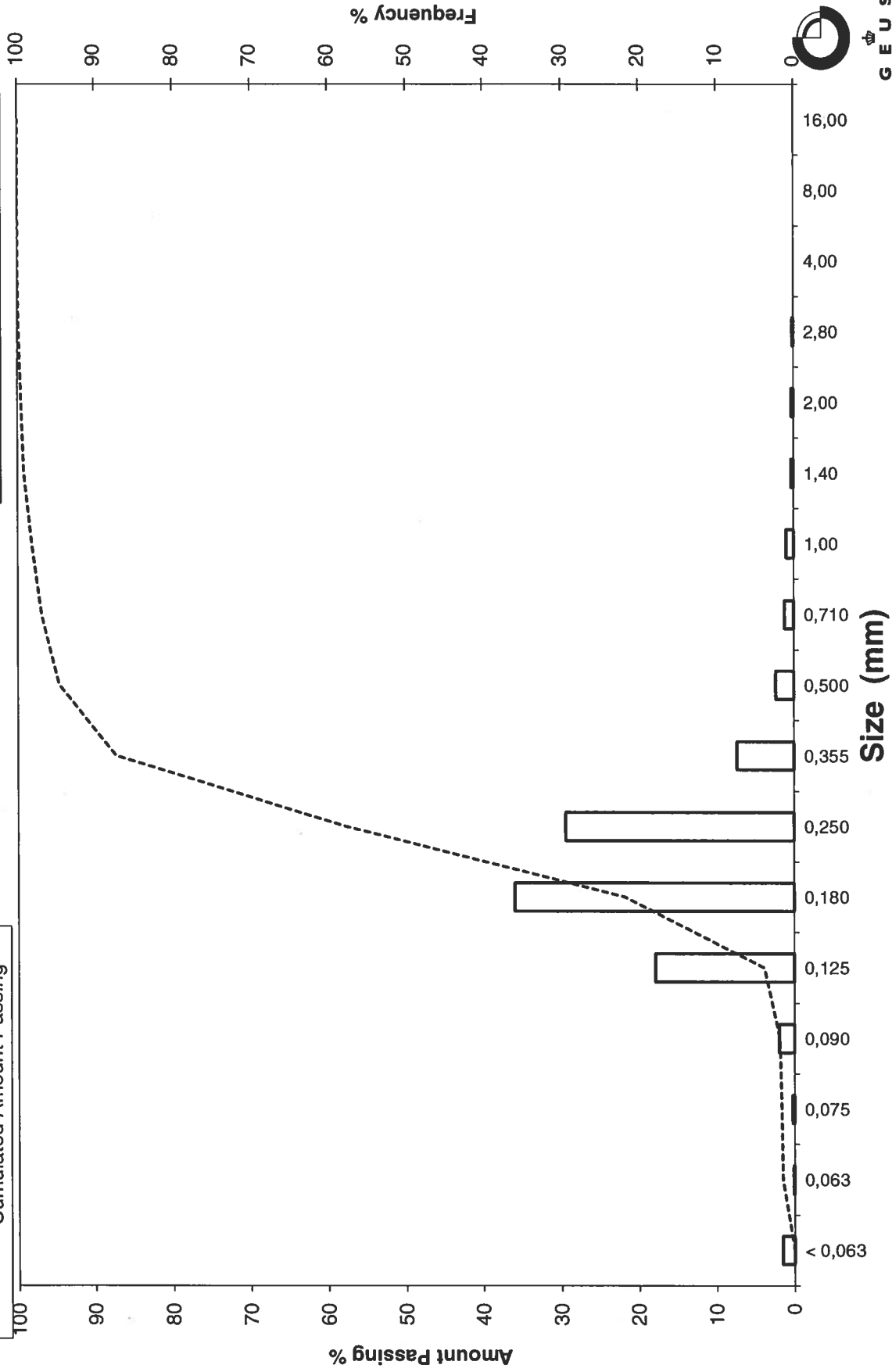
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: VF-01, 25-160

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: VF-06, 0-140
Lab. Id: 210138
Projekt: MST Råstoftkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >16mm består af skaller



Total Weight 413,06 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	7,50	1,82	98,18
8,00	-3,00	10,87	2,63	95,55
4,00	-2,00	32,76	7,93	87,62
2,80	-1,49	25,89	6,27	81,35
2,00	-1,00	21,26	5,15	76,21
1,40	-0,49	21,31	5,16	71,05
1,00	0,00	23,76	5,75	65,30
0,710	0,49	27,39	6,63	58,66
0,500	1,00	49,03	11,87	46,79
0,355	1,49	64,26	15,56	31,24
0,250	2,00	68,48	16,58	14,66
0,180	2,47	37,85	9,16	5,50
0,125	3,00	16,16	3,91	1,58
0,090	3,47	2,81	0,68	0,90
0,075	3,74	0,33	0,08	0,82
0,063	3,99	0,14	0,03	0,79
< 0,063	> 3,99	3,26	0,79	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	0,79
Sand, fine (0,063 mm - 0,200 mm):	7,32
Sand, medium (0,2 mm - 0,6 mm):	44,33
Sand, coarse (0,6 mm - 2 mm):	23,76
Gravel (> 2 mm):	23,79
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	7,72	-2,95
16%	84%	3,31	-1,73
25%	75%	1,86	-0,90
40%	60%	0,77	0,38
Median 50%	50%	0,56	0,85
75%	25%	0,32	1,66
84%	16%	0,26	1,95
90%	10%	0,21	2,22
95%	5%	0,17	2,53

Moments Statistics

Mean	0,36
Sorting	1,75
Skewness	-0,39
Kurtosis	0,88
Uniformity Coefficient	3,58

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean ($\phi_{16\%} + \phi_{84\%} + \phi_{50\%}$) / 3 (Folk and Ward 1957)

Sorting ($\phi_{84\%} - \phi_{16\%}$) / 4 + ($\phi_{95\%} - \phi_{5\%}$) / 6,6 (Folk and Ward 1957)

Kurtosis ($\phi_{95\%} - \phi_{5\%}$) / (2,44 * ($\phi_{75\%} - \phi_{25\%}$)) (Folk and Ward 1957)

Skewness ($\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}$) / (2 * ($\phi_{84\%} - \phi_{16\%}$)) + ($\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}$) / (2 * ($\phi_{95\%} - \phi_{5\%}$)) (Folk and Ward 1957)

Uniformity Coefficient ($d_{60\%} / d_{10\%}$) (dgf-Bulletin 1988)

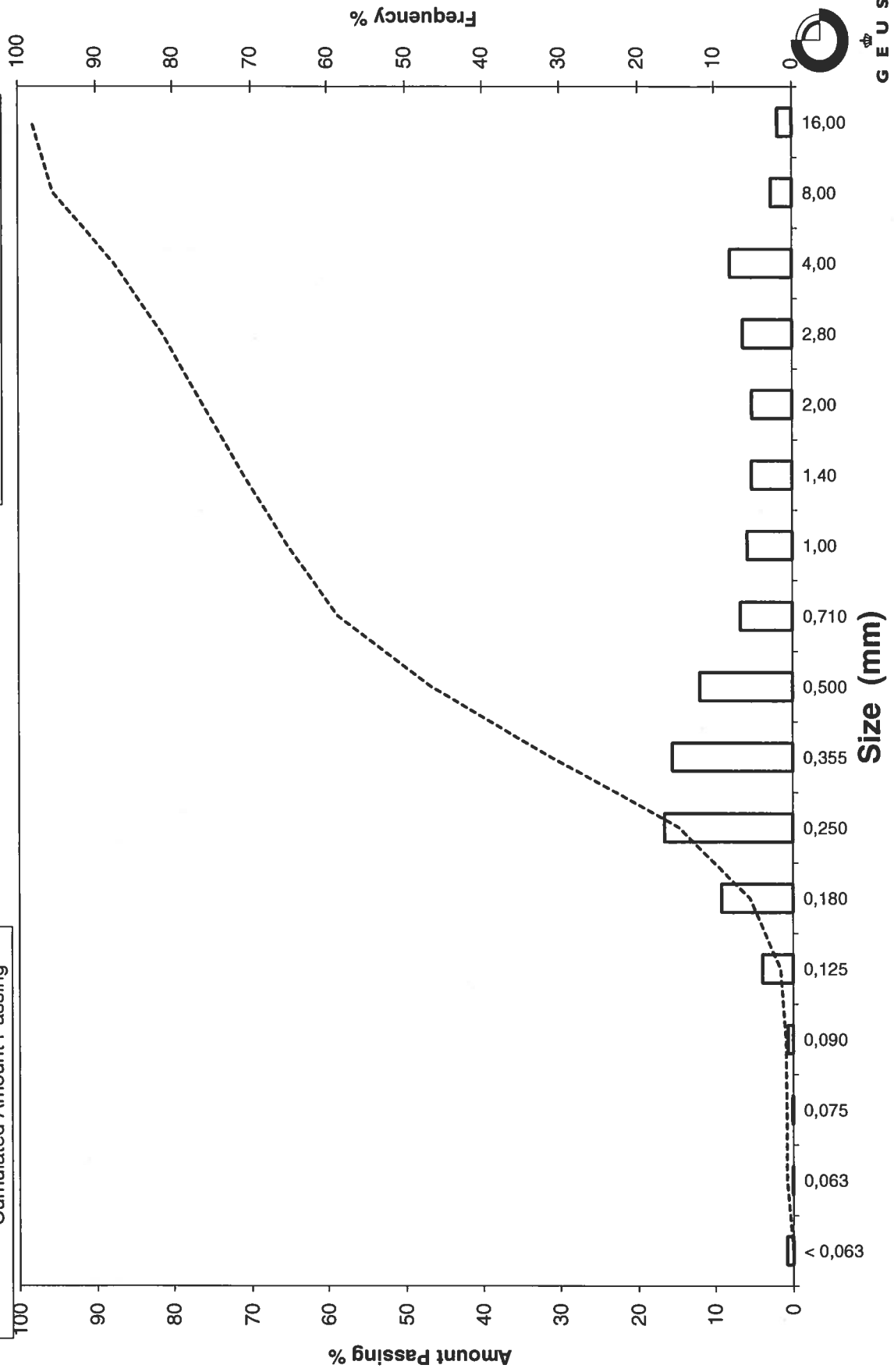
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: VF-06, 0-140

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: VF-06, 140-230
Lab. Id: 210139
Projekt: MST Råstoftkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 97,97 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,00	0,00	100,00
2,80	-1,49	0,00	0,00	100,00
2,00	-1,00	0,01	0,01	99,99
1,40	-0,49	0,03	0,03	99,96
1,00	0,00	0,04	0,04	99,92
0,710	0,49	0,11	0,11	99,81
0,500	1,00	0,23	0,23	99,57
0,355	1,49	0,43	0,44	99,13
0,250	2,00	2,73	2,79	96,35
0,180	2,47	18,99	19,38	76,96
0,125	3,00	54,38	55,51	21,46
0,090	3,47	17,18	17,54	3,92
0,075	3,74	1,33	1,36	2,56
0,063	3,99	0,52	0,53	2,03
< 0,063	> 3,99	1,99	2,03	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	2,03
Sand, fine (0,063 mm - 0,200 mm):	80,47
Sand, medium (0,2 mm - 0,6 mm):	17,18
Sand, coarse (0,6 mm - 2 mm):	0,31
Gravel (> 2 mm):	0,01
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,25	2,03
16%	84%	0,21	2,28
25%	75%	0,18	2,49
40%	60%	0,16	2,62
Median 50%	50%	0,15	2,71
75%	25%	0,13	2,96
84%	16%	0,11	3,13
90%	10%	0,10	3,29
95%	5%	0,09	3,44

Moments Statistics

Mean	2,71
Sorting	0,43
Skewness	0,02
Kurtosis	1,23
Uniformity Coefficient	1,60

The analysis is executed according to DS 405.9 extended by sieves to the 1/2 phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

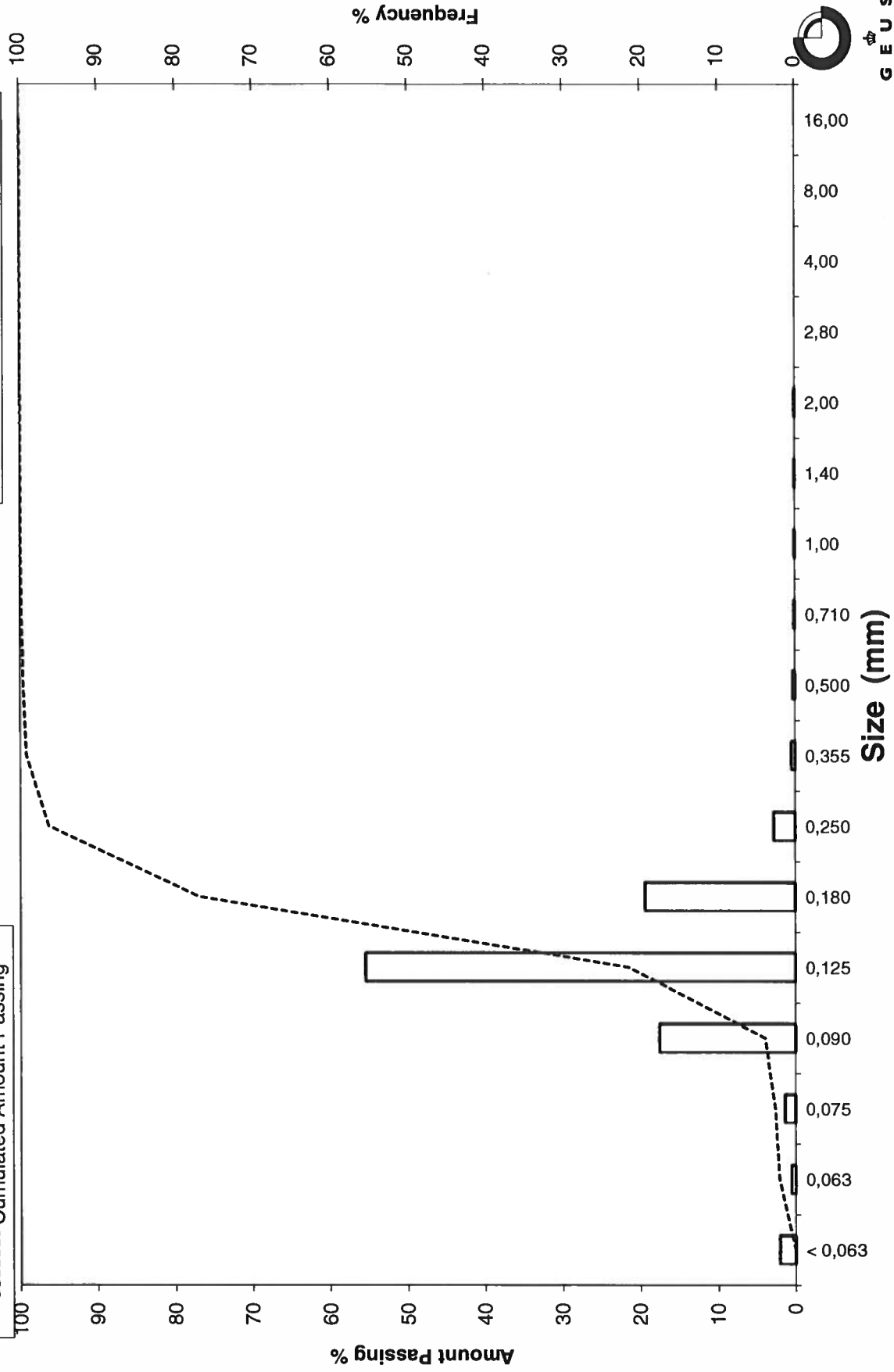
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: VF-06, 140-230

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: VF-07, 20-180
Lab. Id: 210140
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 88,42 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated
	mm	Φ	g	%	amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,00	0,00	100,00
	4,00	-2,00	0,00	0,00	100,00
	2,80	-1,49	0,00	0,00	100,00
	2,00	-1,00	0,00	0,00	100,00
	1,40	-0,49	0,00	0,00	100,00
	1,00	0,00	0,01	0,01	99,99
	0,710	0,49	0,01	0,01	99,98
	0,500	1,00	0,11	0,12	99,85
	0,355	1,49	1,75	1,98	97,87
Sand	0,250	2,00	13,69	15,48	82,39
	0,180	2,47	22,72	25,70	56,70
	0,125	3,00	32,37	36,61	20,09
	0,090	3,47	9,30	10,52	9,57
	0,075	3,74	1,49	1,69	7,88
	0,063	3,99	0,91	1,03	6,85
	< 0,063	> 3,99	6,06	6,85	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	6,85
Sand, fine (0,063 mm - 0,200 mm):	57,18
Sand, medium (0,2 mm - 0,6 mm):	35,88
Sand, coarse (0,6 mm - 2 mm):	0,09
Gravel (> 2 mm):	0,00
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,34	1,58
16%	84%	0,26	1,94
25%	75%	0,23	2,12
40%	60%	0,19	2,40
Median 50%	50%	0,17	2,56
75%	25%	0,13	2,92
84%	16%	0,11	3,17
90%	10%	0,09	3,45
95%	5%	-----	-----

Moments Statistics

Mean	2,55
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	2,07

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)
 Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)
 Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)
 Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)
 Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

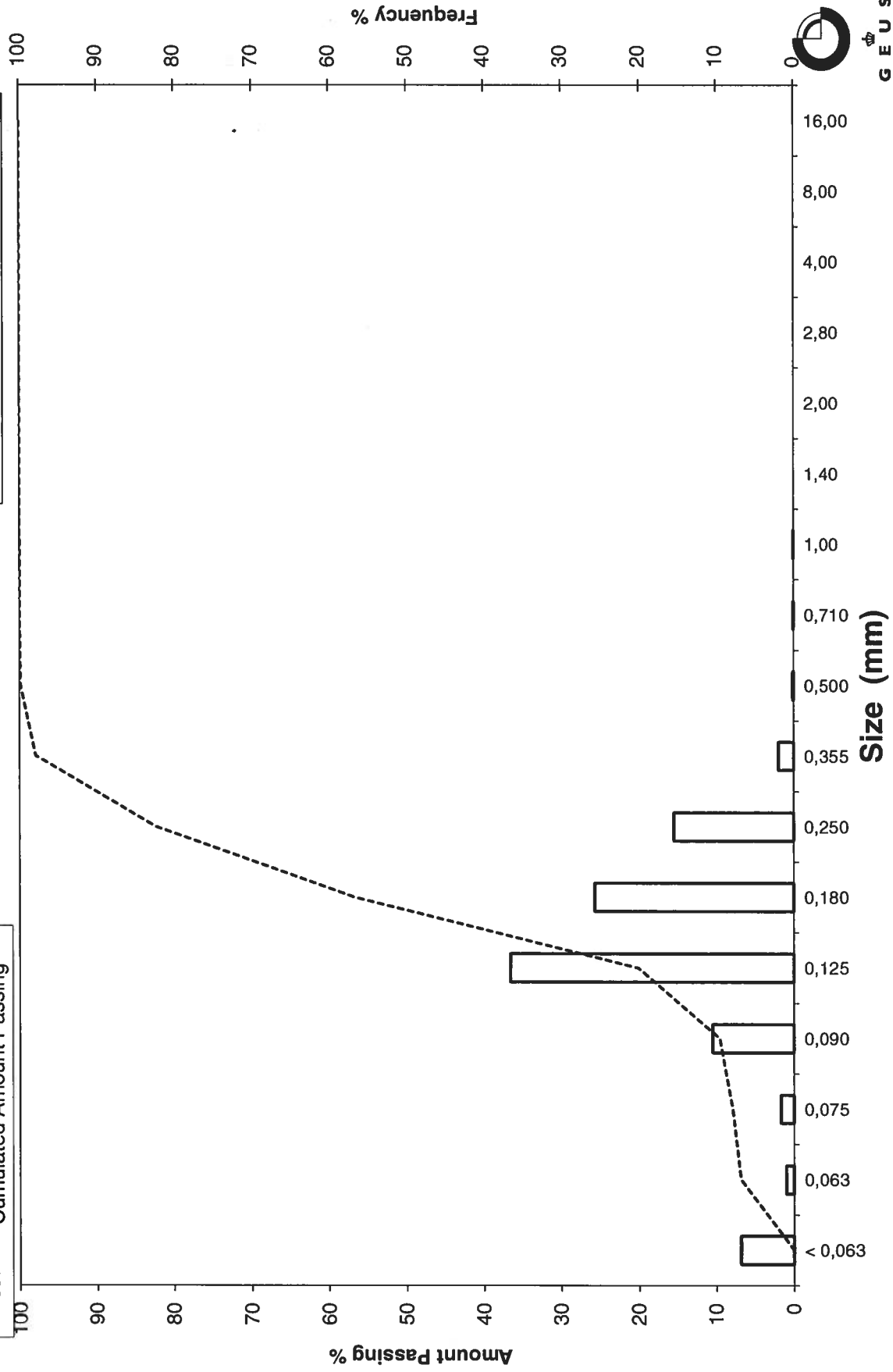
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: VF-07, 20-180

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: SN-02, 0-200
Lab. Id: 210141
Projekt: MST Råstoftkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >2 mm heraf 4 g skaller



Total Weight 113,83 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,34	0,30	99,70
	4,00	-2,00	3,79	3,33	96,37
	2,80	-1,49	1,96	1,72	94,65
	2,00	-1,00	2,77	2,43	92,22
	1,40	-0,49	2,61	2,29	89,92
	1,00	0,00	5,17	4,54	85,38
	0,710	0,49	6,44	5,66	79,72
	0,500	1,00	12,28	10,79	68,94
	0,355	1,49	22,64	19,89	49,05
Sand	0,250	2,00	22,31	19,60	29,45
	0,180	2,47	10,16	8,93	20,52
	0,125	3,00	3,40	2,99	17,53
	0,090	3,47	1,97	1,73	15,80
	0,075	3,74	1,20	1,05	14,75
	0,063	3,99	1,20	1,05	13,70
	< 0,063	> 3,99	15,59	13,70	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	13,70
Sand, fine (0,063 mm - 0,200 mm):	9,38
Sand, medium (0,2 mm - 0,6 mm):	51,00
Sand, coarse (0,6 mm - 2 mm):	18,14
Gravel (> 2 mm):	7,78
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	3,04	-1,61
16%	84%	0,93	0,11
25%	75%	0,62	0,69
40%	60%	0,43	1,20
Median 50%	50%	0,36	1,47
75%	25%	0,22	2,22
84%	16%	0,09	3,41
90%	10%	-----	-----
95%	5%	-----	-----

Moments Statistics

Mean	1,66
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	-----

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean ($\phi_{16\%} + \phi_{84\%} + \phi_{50\%}$) / 3 (Folk and Ward 1957)

Sorting ($\phi_{84\%} - \phi_{16\%}$) / 4 + ($\phi_{95\%} - \phi_{5\%}$) / 6,6 (Folk and Ward 1957)

Kurtosis ($\phi_{95\%} - \phi_{5\%}$) / (2,44 * ($\phi_{75\%} - \phi_{25\%}$)) (Folk and Ward 1957)

Skewness ($\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}$) / (2 * ($\phi_{84\%} - \phi_{16\%}$)) + ($\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}$) / (2 * ($\phi_{95\%} - \phi_{5\%}$)) (Folk and Ward 1957)

Uniformity Coefficient ($d_{60\%} / d_{10\%}$) (dgf-Bulletin 1988)

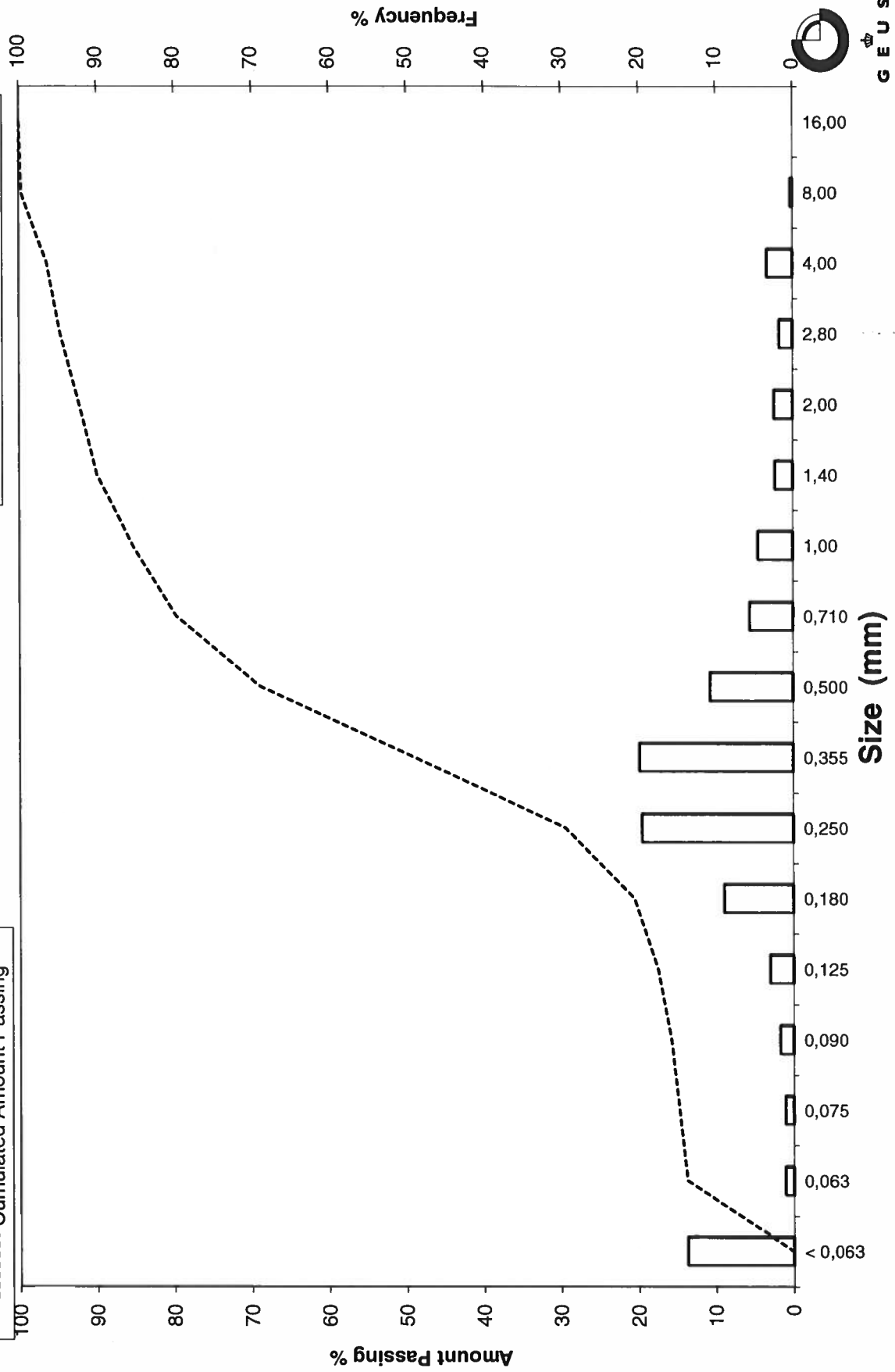
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: SN-02, 0-200

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: SN-02, 400-578
Lab. Id: 210142
Projekt: MST Råstofkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >1mm heraf 9 g skaller



Total Weight 119,59 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,22	0,18	99,82
	4,00	-2,00	1,08	0,90	98,91
	2,80	-1,49	2,70	2,26	96,66
	2,00	-1,00	3,90	3,26	93,39
	1,40	-0,49	3,89	3,25	90,14
	1,00	0,00	7,20	6,02	84,12
	0,710	0,49	9,13	7,63	76,49
	0,500	1,00	13,98	11,69	64,80
	0,355	1,49	17,62	14,73	50,06
Sand	0,250	2,00	25,79	21,57	28,50
	0,180	2,47	23,34	19,52	8,98
	0,125	3,00	5,71	4,77	4,21
	0,090	3,47	0,58	0,48	3,72
	0,075	3,74	0,13	0,11	3,61
	0,063	3,99	0,13	0,11	3,50
	< 0,063	> 3,99	4,19	3,50	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	3,50
Sand, fine (0,063 mm - 0,200 mm):	11,05
Sand, medium (0,2 mm - 0,6 mm):	55,81
Sand, coarse (0,6 mm - 2 mm):	23,03
Gravel (> 2 mm):	6,61
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	2,39	-1,26
16%	84%	1,00	0,01
25%	75%	0,68	0,55
40%	60%	0,45	1,14
Median 50%	50%	0,35	1,50
75%	25%	0,24	2,07
84%	16%	0,21	2,29
90%	10%	0,18	2,44
95%	5%	0,13	2,90

Moments Statistics

Mean	1,26
Sorting	1,20
Skewness	-0,32
Kurtosis	1,12
Uniformity Coefficient	2,47

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

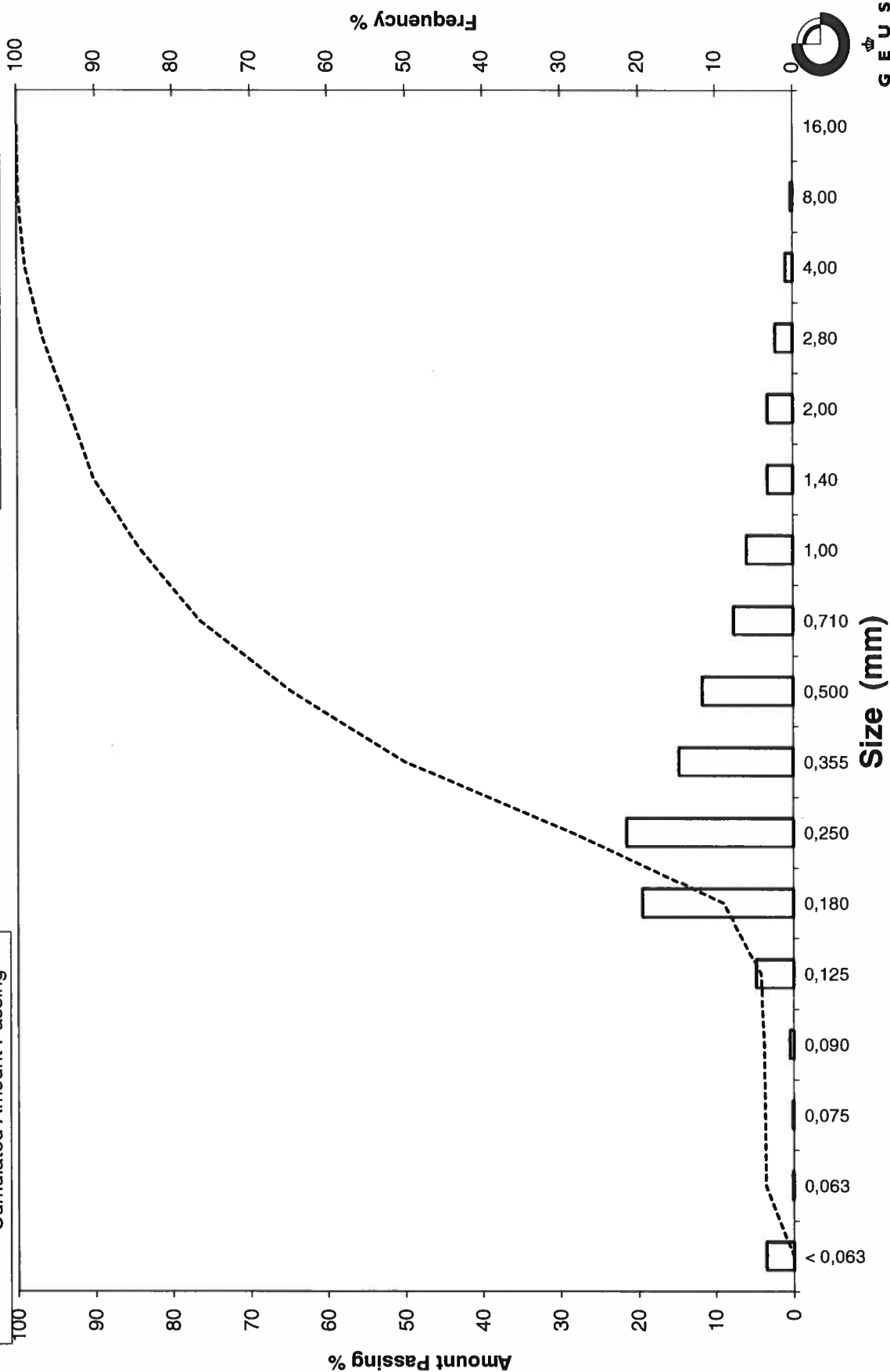
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: SN-02, 400-578

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: NB-01, 0-16
Lab. Id: 210143
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 100,96 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount
	mm	Φ	g	%	amount passing
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,00	0,00	100,00
	4,00	-2,00	1,54	1,53	98,47
	2,80	-1,49	1,33	1,32	97,16
	2,00	-1,00	2,05	2,03	95,13
	1,40	-0,49	3,49	3,46	91,67
	1,00	0,00	9,13	9,04	82,63
	0,710	0,49	19,52	19,33	63,29
	0,500	1,00	23,11	22,89	40,40
	0,355	1,49	13,42	13,29	27,11
Sand	0,250	2,00	7,92	7,84	19,27
	0,180	2,47	3,92	3,88	15,38
	0,125	3,00	3,84	3,80	11,58
	0,090	3,47	2,32	2,30	9,28
	0,075	3,74	0,71	0,70	8,58
	0,063	3,99	0,58	0,57	8,00
	< 0,063	> 3,99	8,08	8,00	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	8,00
Sand, fine (0,063 mm - 0,200 mm):	8,49
Sand, medium (0,2 mm - 0,6 mm):	34,81
Sand, coarse (0,6 mm - 2 mm):	43,82
Gravel (> 2 mm):	4,87
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,98	-0,98
16%	84%	1,06	-0,09
25%	75%	0,89	0,18
40%	60%	0,68	0,56
Median 50%	50%	0,59	0,77
75%	25%	0,33	1,61
84%	16%	0,19	2,39
90%	10%	0,10	3,31
95%	5%	-----	-----

Moments Statistics

Mean	1,02
Sorting	-----
Skewness	-----
Kurtosis	-----
Uniformity Coefficient	6,73

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean ($\phi_{16\%} + \phi_{84\%} + \phi_{50\%}$) / 3 (Folk and Ward 1957)

Sorting ($\phi_{84\%} - \phi_{16\%}$) / 4 + ($\phi_{95\%} - \phi_{5\%}$) / 6,6 (Folk and Ward 1957)

Kurtosis ($\phi_{95\%} - \phi_{5\%}$) / (2,44 * ($\phi_{75\%} - \phi_{25\%}$)) (Folk and Ward 1957)

Skewness ($\phi_{16\%} + \phi_{84\%} - 2\phi_{50\%}$) / (2 * ($\phi_{84\%} - \phi_{16\%}$)) + ($\phi_{5\%} + \phi_{95\%} - 2\phi_{50\%}$) / (2 * ($\phi_{95\%} - \phi_{5\%}$)) (Folk and Ward 1957)

Uniformity Coefficient ($d_{60\%} / d_{10\%}$) (dgf-Bulletin 1988)

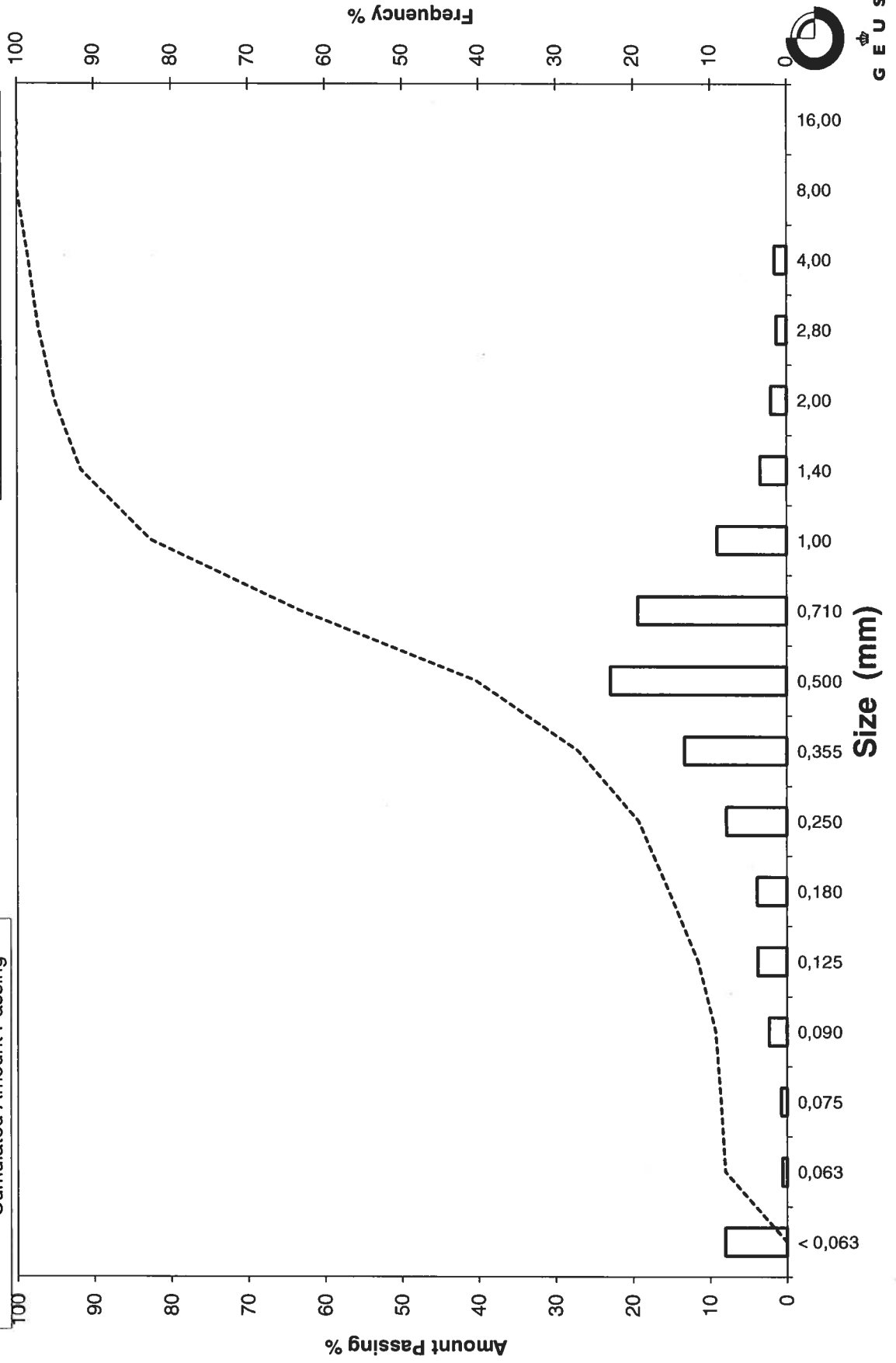
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: NB-01, 0-16

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: NB-01, 16-30
Lab. Id: 210144
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 297,17 g

Sieve Fractions

	Size	Size	Weight	Weight	Cumulated
	mm	Φ	g	%	amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	25,81	8,69	91,31
	4,00	-2,00	48,60	16,35	74,96
	2,80	-1,49	38,67	13,01	61,95
	2,00	-1,00	41,94	14,11	47,83
	1,40	-0,49	45,28	15,24	32,60
	1,00	0,00	44,15	14,86	17,74
	0,710	0,49	18,79	6,32	11,42
	0,500	1,00	6,44	2,17	9,25
	0,355	1,49	4,24	1,43	7,82
Sand	0,250	2,00	3,17	1,07	6,76
	0,180	2,47	2,27	0,76	5,99
	0,125	3,00	3,11	1,05	4,95
	0,090	3,47	2,14	0,72	4,23
	0,075	3,74	0,82	0,28	3,95
	0,063	3,99	0,71	0,24	3,71
	< 0,063	> 3,99	11,03	3,71	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	3,71
Sand, fine (0,063 mm - 0,200 mm):	2,50
Sand, medium (0,2 mm - 0,6 mm):	4,07
Sand, coarse (0,6 mm - 2 mm):	37,55
Gravel (> 2 mm):	52,17
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	11,39	-3,51
16%	84%	6,21	-2,63
25%	75%	4,01	-2,00
40%	60%	2,69	-1,43
Median 50%	50%	2,12	-1,09
75%	25%	1,20	-0,26
84%	16%	0,92	0,12
90%	10%	0,57	0,80
95%	5%	0,13	2,97

Moments Statistics

Mean	-1,20
Sorting	1,67
Skewness	0,06
Kurtosis	1,52
Uniformity Coefficient	4,70

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

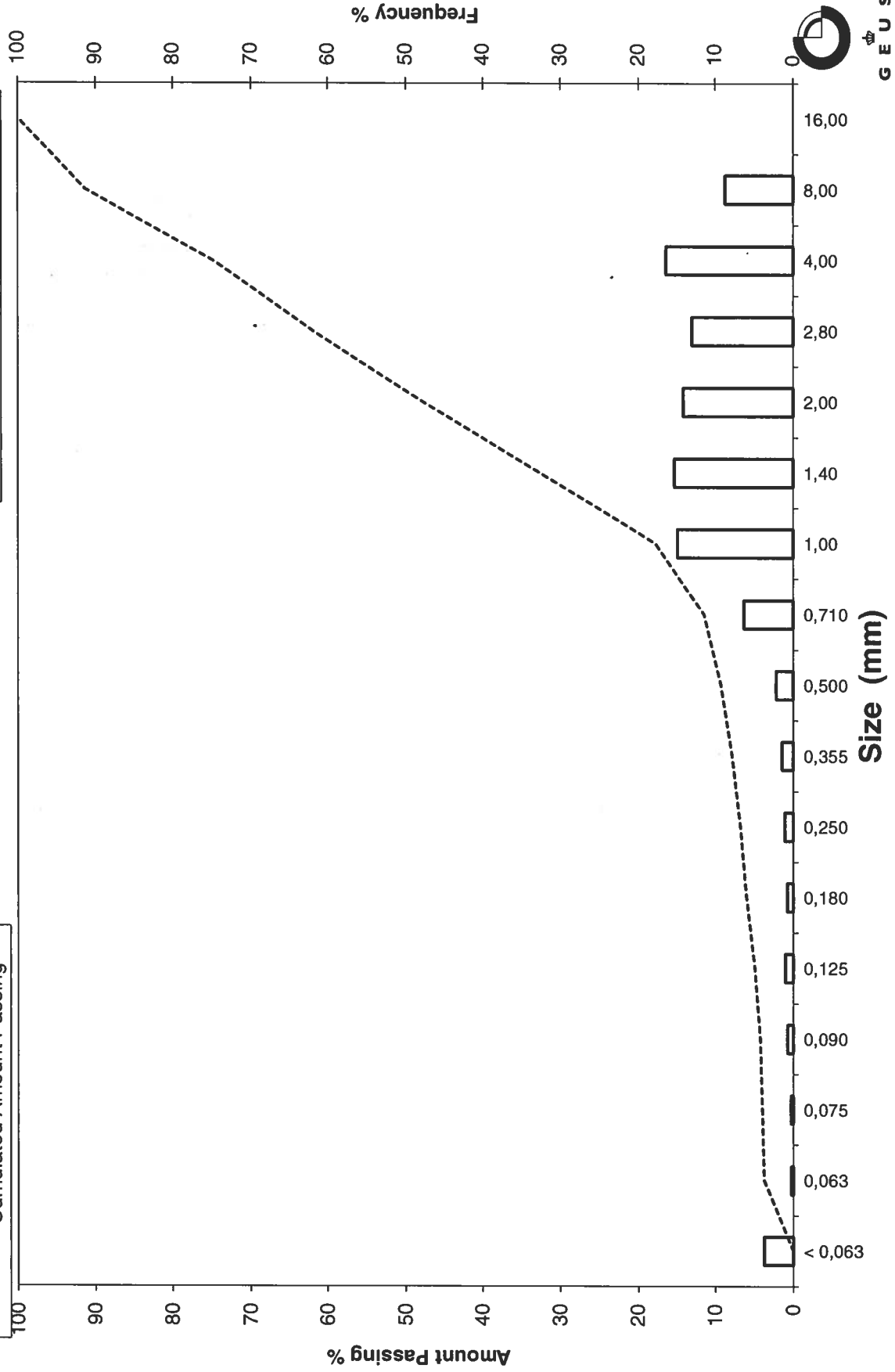
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: NB-01, 16-30

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: NB-01, 160-200
Lab. Id: 210145
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 1497,36 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	51,64	3,45	96,55
8,00	-3,00	316,26	21,12	75,43
4,00	-2,00	524,47	35,03	40,40
2,80	-1,49	253,06	16,90	23,50
2,00	-1,00	157,46	10,52	12,99
1,40	-0,49	99,04	6,61	6,37
1,00	0,00	41,22	2,75	3,62
0,710	0,49	14,38	0,96	2,66
0,500	1,00	7,42	0,50	2,16
0,355	1,49	3,98	0,27	1,90
0,250	2,00	2,45	0,16	1,74
0,180	2,47	2,14	0,14	1,59
0,125	3,00	1,99	0,13	1,46
0,090	3,47	1,76	0,12	1,34
0,075	3,74	0,69	0,05	1,30
0,063	3,99	0,69	0,05	1,25
< 0,063	> 3,99	18,71	1,25	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,25
Sand, fine (0,063 mm - 0,200 mm):	0,38
Sand, medium (0,2 mm - 0,6 mm):	0,77
Sand, coarse (0,6 mm - 2 mm):	10,59
Gravel (> 2 mm):	87,01
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	15,41	-3,95
16%	84%	11,25	-3,49
25%	75%	7,95	-2,99
40%	60%	6,24	-2,64
Median 50%	50%	5,10	-2,35
75%	25%	2,91	-1,54
84%	16%	2,23	-1,16
90%	10%	1,73	-0,79
95%	5%	1,20	-0,26

Moments Statistics

Mean	-2,33
Sorting	1,14
Skewness	0,08
Kurtosis	1,04
Uniformity Coefficient	3,61

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgt-Bulletin 1988)

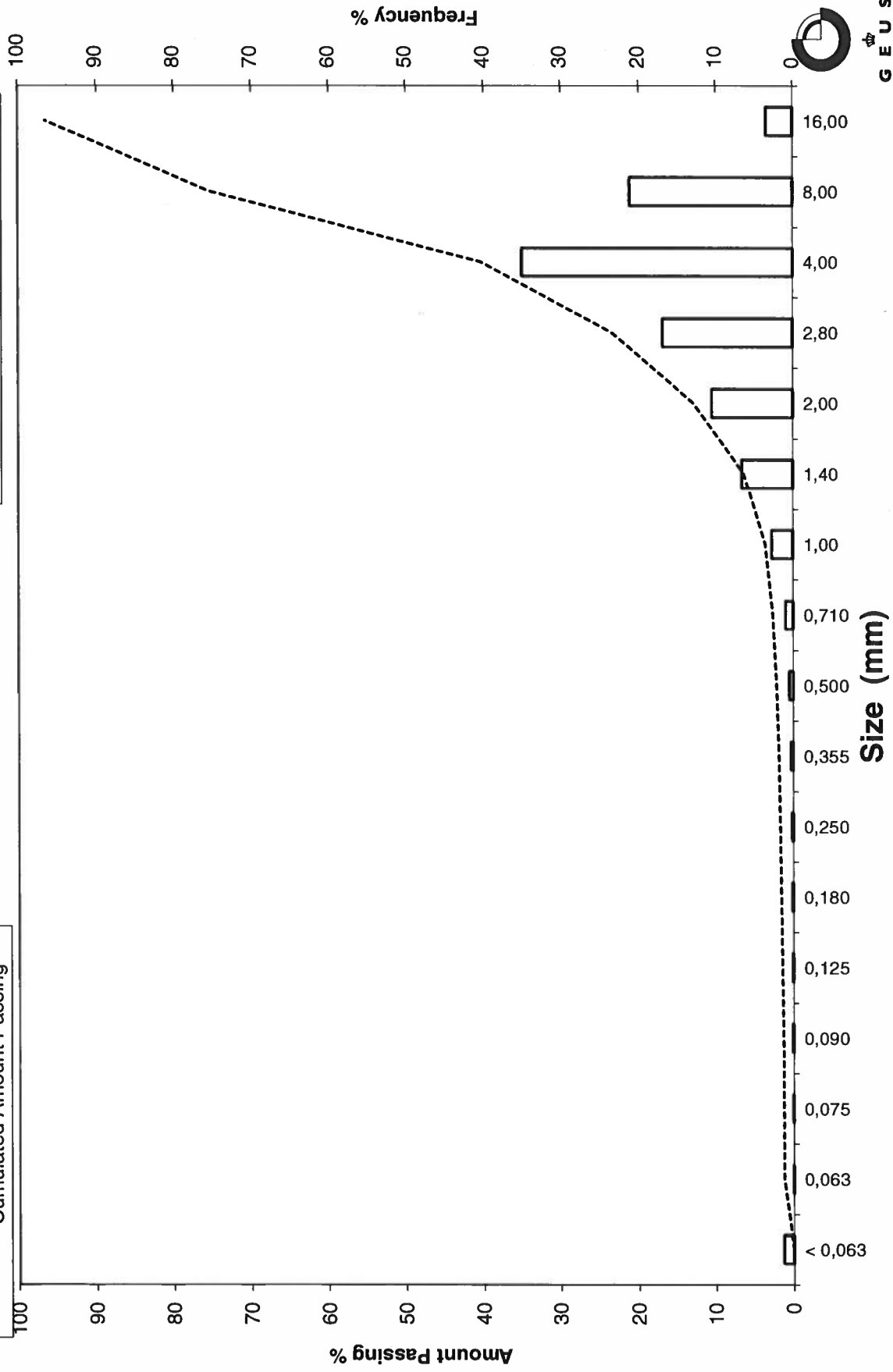
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: NB-01, 160-200

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: MF-01, 0-135
Lab. Id: 210146
Projekt: MST Råstoftkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 426,04 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	
Gravel	16,00	-4,00	20,75	4,87	95,13
	8,00	-3,00	30,50	7,16	87,97
	4,00	-2,00	36,46	8,56	79,41
	2,80	-1,49	27,39	6,43	72,98
	2,00	-1,00	17,76	4,17	68,82
	1,40	-0,49	16,24	3,81	65,00
	1,00	0,00	19,40	4,55	60,45
	0,710	0,49	19,69	4,62	55,83
	0,500	1,00	34,21	8,03	47,80
	0,355	1,49	64,46	15,13	32,67
Sand	0,250	2,00	81,35	19,09	13,57
	0,180	2,47	36,02	8,45	5,12
	0,125	3,00	12,09	2,84	2,28
	0,090	3,47	2,78	0,65	1,63
	0,075	3,74	0,56	0,13	1,50
	0,063	3,99	0,35	0,08	1,42
	< 0,063	> 3,99	6,03	1,42	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,42
Sand, fine (0,063 mm - 0,200 mm):	6,12
Sand, medium (0,2 mm - 0,6 mm):	44,09
Sand, coarse (0,6 mm - 2 mm):	17,19
Gravel (> 2 mm):	31,18
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	15,86	-3,99
16%	84%	6,14	-2,62
25%	75%	3,18	-1,67
40%	60%	0,97	0,04
Median 50%	50%	0,56	0,84
75%	25%	0,31	1,68
84%	16%	0,26	1,92
90%	10%	0,22	2,18
95%	5%	0,18	2,49

Moments Statistics

Mean	0,05
Sorting	2,12
Skewness	-0,51
Kurtosis	0,79
Uniformity Coefficient	4,41

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

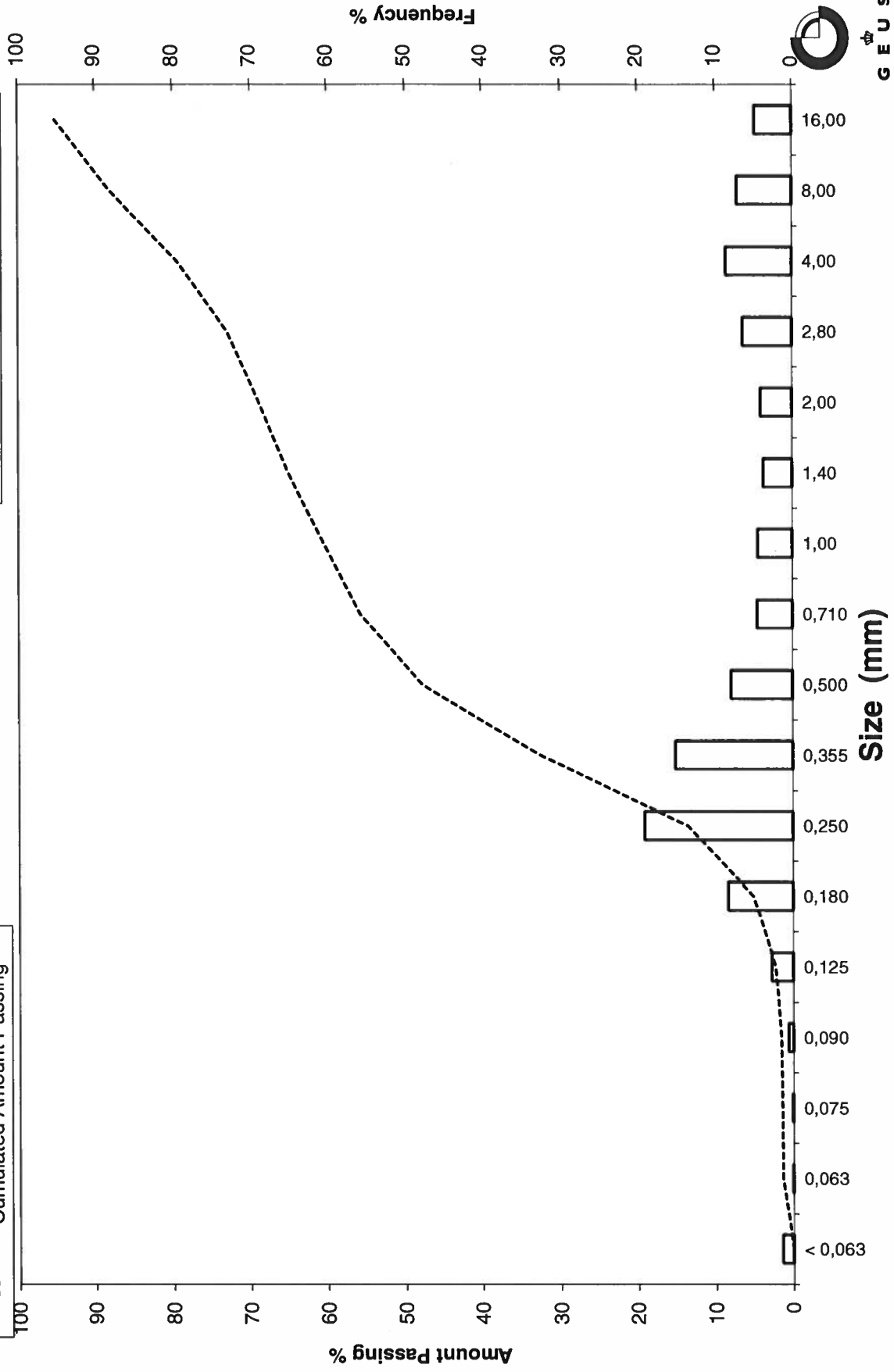
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: MF-01, 0-135

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: MF-01, 135-400
Lab. Id: 210147
Projekt: MST Råstøfkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: > 4 mm heraf 0,1g skaller



Total Weight 118,93 g

Size Fractions

Sieve Analysis					
	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	1,78	1,50	98,50
	4,00	-2,00	0,72	0,61	97,90
	2,80	-1,49	0,42	0,35	97,54
	2,00	-1,00	0,64	0,54	97,01
	1,40	-0,49	0,75	0,63	96,38
Sand	1,00	0,00	1,57	1,32	95,06
	0,710	0,49	1,58	1,33	93,73
	0,500	1,00	2,85	2,40	91,33
	0,355	1,49	10,58	8,90	82,44
	0,250	2,00	32,13	27,02	55,42
	0,180	2,47	39,52	33,23	22,19
	0,125	3,00	19,08	16,04	6,15
	0,090	3,47	3,27	2,75	3,40
	0,075	3,74	0,58	0,49	2,91
	0,063	3,99	0,38	0,32	2,59
	< 0,063	> 3,99	3,08	2,59	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	2,59
Sand, fine (0,063 mm - 0,200 mm):	29,09
Sand, medium (0,2 mm - 0,6 mm):	60,79
Sand, coarse (0,6 mm - 2 mm):	4,53
Gravel (> 2 mm):	2,99
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,99	0,02
16%	84%	0,38	1,39
25%	75%	0,33	1,62
40%	60%	0,27	1,90
Median 50%	50%	0,24	2,07
75%	25%	0,19	2,43
84%	16%	0,16	2,65
90%	10%	0,14	2,86
95%	5%	0,11	3,18

Moments Statistics

Mean	2,04
Sorting	0,79
Skewness	-0,18
Kurtosis	1,60
Uniformity Coefficient	1,94

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgt-Bulletin 1988)

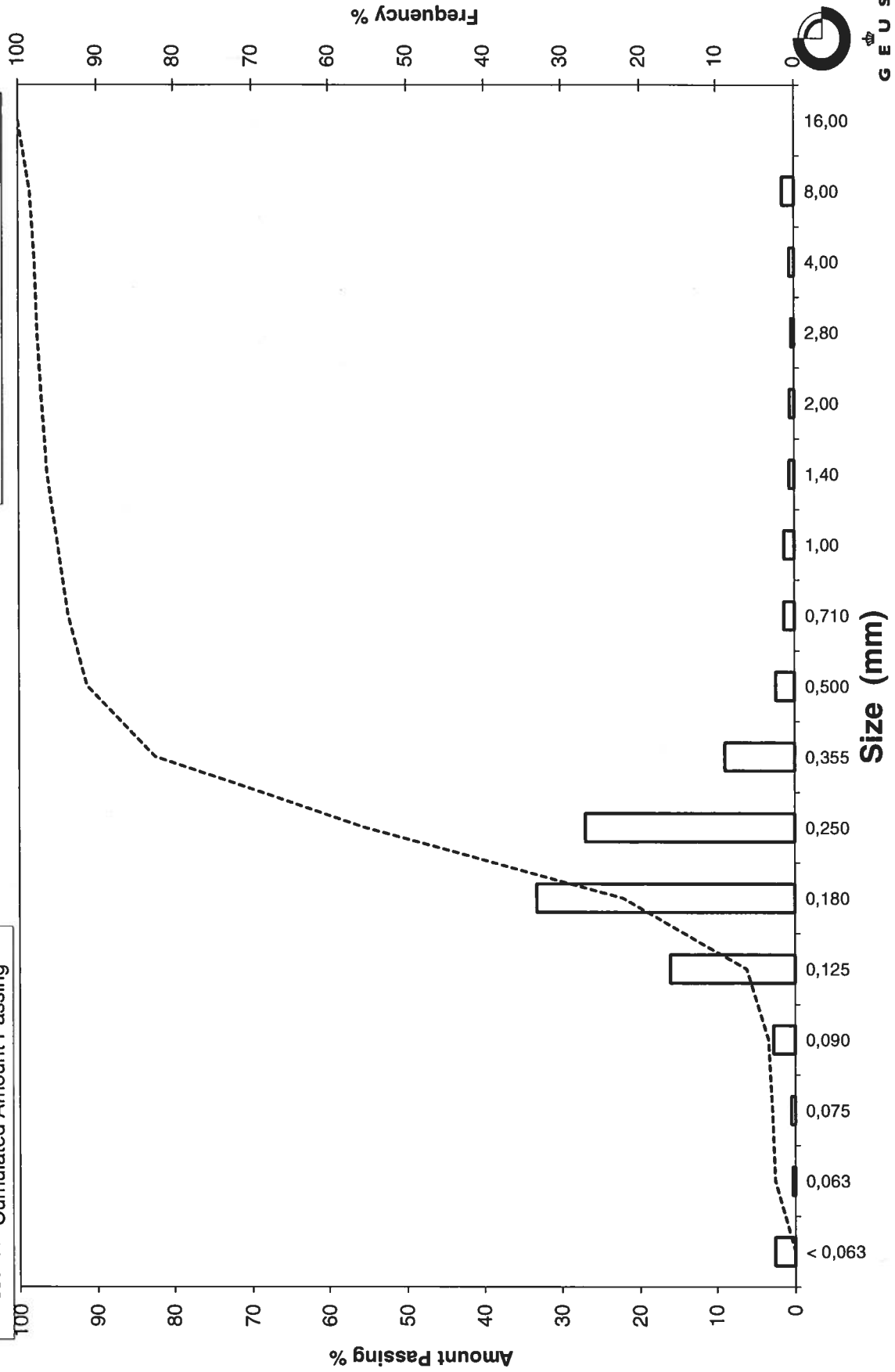
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: MF-01, 135-400

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: LG-01, 0-150
Lab. Id: 210148
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: > 4 mm heraf 0,1g skaller



Total Weight 99,5 g

Size Fractions

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,00	0,00	100,00
	4,00	-2,00	0,13	0,13	99,87
	2,80	-1,49	0,16	0,16	99,71
	2,00	-1,00	0,45	0,45	99,26
	1,40	-0,49	1,14	1,15	98,11
	1,00	0,00	1,87	1,88	96,23
	0,710	0,49	2,63	2,64	93,59
	0,500	1,00	6,05	6,08	87,51
	0,355	1,49	12,29	12,35	75,16
Sand	0,250	2,00	28,49	28,63	46,52
	0,180	2,47	29,52	29,67	16,85
	0,125	3,00	13,19	13,26	3,60
	0,090	3,47	2,05	2,06	1,54
	0,075	3,74	0,28	0,28	1,26
	0,063	3,99	0,20	0,20	1,06
	< 0,063	> 3,99	1,05	1,06	0,00

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,06
Sand, fine (0,063 mm - 0,200 mm):	24,28
Sand, medium (0,2 mm - 0,6 mm):	65,07
Sand, coarse (0,6 mm - 2 mm):	8,85
Gravel (> 2 mm):	0,74
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	0,86	0,21
16%	84%	0,46	1,12
25%	75%	0,35	1,50
40%	60%	0,30	1,74
Median 50%	50%	0,26	1,93
75%	25%	0,20	2,33
84%	16%	0,18	2,50
90%	10%	0,15	2,72
95%	5%	0,13	2,93

Moments Statistics

Mean	1,85
Sorting	0,76
Skewness	-0,21
Kurtosis	1,34
Uniformity Coefficient	1,98

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

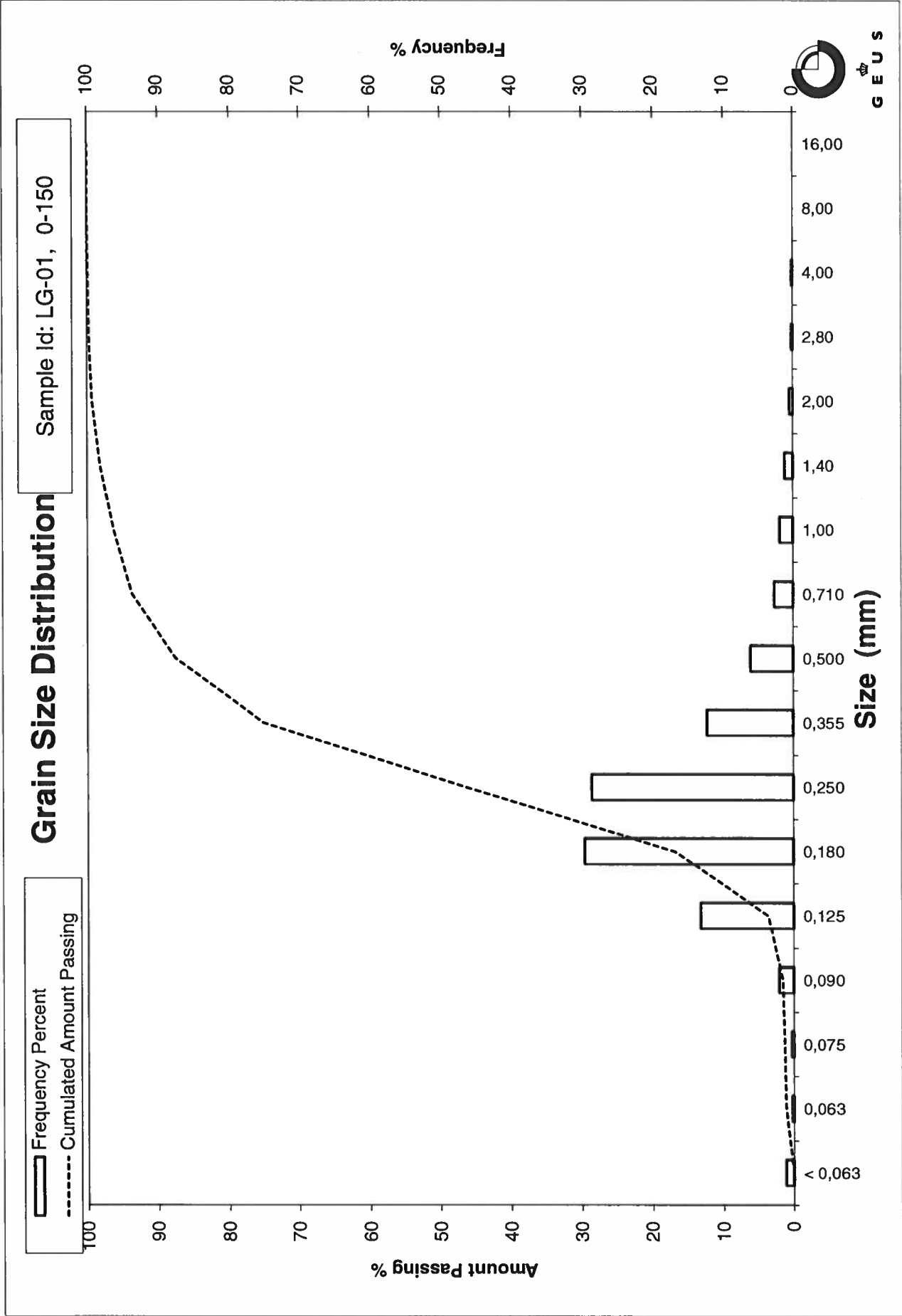
Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk



Grain Size Distribution

Geotechnical

Sample Id: RS-01, 0-200
Lab. Id: 210149
Projekt: MST Råstoftkortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks: >4mm heraf 5 g skaller



Total Weight 113,33 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	4,68	4,13	95,87
8,00	-3,00	0,32	0,28	95,59
4,00	-2,00	0,41	0,36	95,23
2,80	-1,49	0,43	0,38	94,85
2,00	-1,00	0,90	0,79	94,05
1,40	-0,49	1,68	1,48	92,57
1,00	0,00	2,83	2,50	90,07
0,710	0,49	4,06	3,58	86,49
0,500	1,00	9,55	8,43	78,06
0,355	1,49	22,99	20,29	57,78
0,250	2,00	42,47	37,47	20,30
0,180	2,47	13,84	12,21	8,09
0,125	3,00	3,88	3,42	4,67
0,090	3,47	0,96	0,85	3,82
0,075	3,74	0,27	0,24	3,58
0,063	3,99	0,23	0,20	3,38
< 0,063	> 3,99	3,83	3,38	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	3,38
Sand, fine (0,063 mm - 0,200 mm):	8,20
Sand, medium (0,2 mm - 0,6 mm):	70,50
Sand, coarse (0,6 mm - 2 mm):	11,98
Gravel (> 2 mm):	5,95
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	3,28	-1,72
16%	84%	0,65	0,63
25%	75%	0,48	1,06
40%	60%	0,37	1,43
Median 50%	50%	0,33	1,59
75%	25%	0,26	1,93
84%	16%	0,23	2,15
90%	10%	0,19	2,39
95%	5%	0,13	2,94

Moments Statistics

Mean	1,45
Sorting	1,09
Skewness	-0,34
Kurtosis	2,21
Uniformity Coefficient	1,94

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

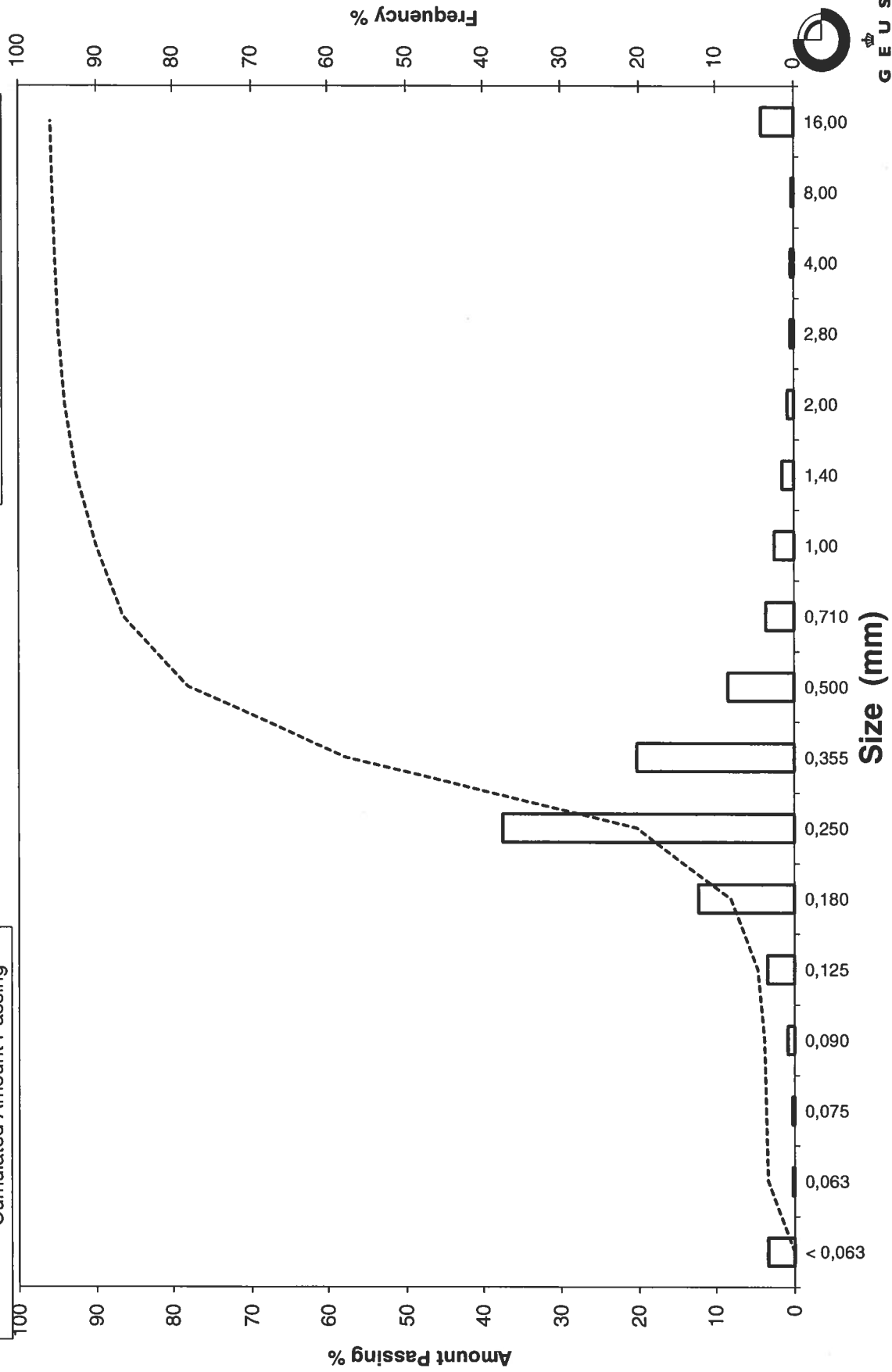
Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: RS-01, 0-200

Frequency Percent
Cumulated Amount Passing



Grain Size Distribution

Geotechnical

Sample Id: KN-01, 0-300
Lab. Id: 210150
Projekt: MST Råstokortlægning 2020
Subject: 0
Date: 14-10-2021
Executed: PS
Remarks:



Total Weight 96,79 g

Size Fractions

Size	Size	Weight	Weight	Cumulated amount passing
mm	Φ	g	%	%
16,00	-4,00	0,00	0,00	100,00
8,00	-3,00	0,00	0,00	100,00
4,00	-2,00	0,12	0,12	99,88
2,80	-1,49	0,96	0,99	98,88
2,00	-1,00	1,04	1,07	97,81
1,40	-0,49	1,19	1,23	96,58
1,00	0,00	2,19	2,26	94,32
0,710	0,49	2,36	2,44	91,88
0,500	1,00	4,19	4,33	87,55
0,355	1,49	13,08	13,51	74,04
0,250	2,00	25,33	26,17	47,87
0,180	2,47	25,29	26,13	21,74
0,125	3,00	15,83	16,35	5,38
0,090	3,47	2,84	2,93	2,45
0,075	3,74	0,45	0,46	1,98
0,063	3,99	0,25	0,26	1,73
< 0,063	> 3,99	1,67	1,73	0,00

Sieve Analysis

Gravel

Sand

Size Classes (DGF-Bulletin 1 1988)

	Weight %
Silt and clay (< 0,063 mm):	1,73
Sand, fine (0,063 mm - 0,200 mm):	27,48
Sand, medium (0,2 mm - 0,6 mm):	60,41
Sand, coarse (0,6 mm - 2 mm):	8,20
Gravel (> 2 mm):	2,19
Sum:	100,00

Moments Measures (Folk and Wards)

Percentile	Percentile	d(mm)	Φ
Amount in sieve	Amount passing		
5%	95%	1,12	-0,16
16%	84%	0,46	1,11
25%	75%	0,37	1,45
40%	60%	0,30	1,74
Median 50%	50%	0,26	1,95
75%	25%	0,19	2,41
84%	16%	0,16	2,64
90%	10%	0,14	2,83
95%	5%	0,12	3,05

Moments Statistics

Mean	1,90
Sorting	0,87
Skewness	-0,21
Kurtosis	1,38
Uniformity Coefficient	2,13

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi_{16\%} + \phi_{84\%} + \phi_{50\%}) / 3$ (Folk and Ward 1957)

Sorting $(\phi_{84\%} - \phi_{16\%}) / 4 + (\phi_{95\%} - \phi_{5\%}) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi_{95\%} - \phi_{5\%}) / (2,44 * (\phi_{75\%} - \phi_{25\%}))$ (Folk and Ward 1957)

Skewness $(\phi_{16\%} + \phi_{84\%} - 2 * \phi_{50\%}) / (2 * (\phi_{84\%} - \phi_{16\%})) + (\phi_{5\%} + \phi_{95\%} - 2 * \phi_{50\%}) / (2 * (\phi_{95\%} - \phi_{5\%}))$ (Folk and Ward 1957)

Uniformity Coefficient $(d_{60\%} / d_{10\%})$ (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

Øster Voldgade 10 1350 København K
 Tel.: +45 38 14 20 00 Telefax: +45 38 14 20 50
 Email: GEUS@geus.dk
 www.geus.dk

Grain Size Distribution

Sample Id: KN-01, 0-300

Frequency Percent
Cumulated Amount Passing

