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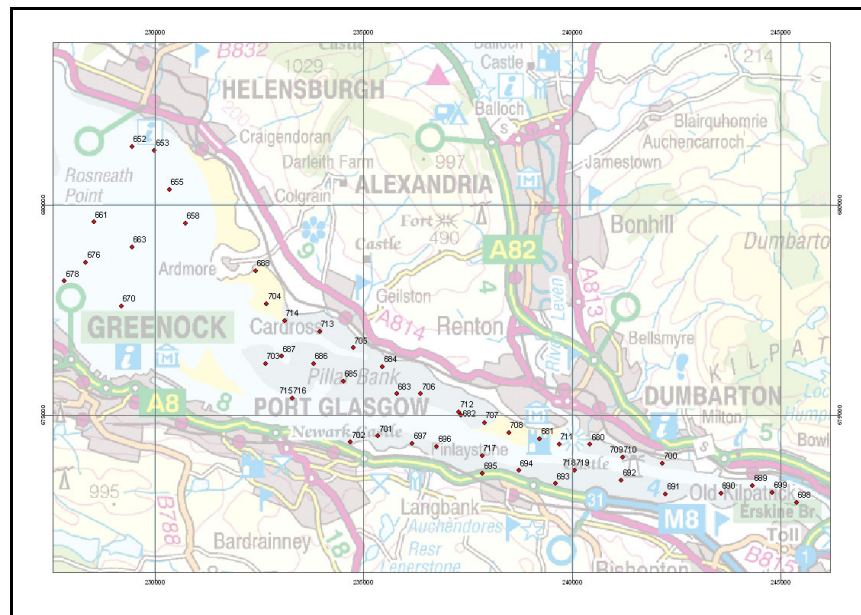
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Particle Size Analysis of Ninety-nine Samples from the Clyde Estuary: Laboratory Report

Marine, Coastal and Hydrocarbons Programme

Internal Report IR/05/124



BRITISH GEOLOGICAL SURVEY

MARINE, COASTAL AND HYDROCARBONS PROGRAMME

INTERNAL REPORT IR/05/124

Particle Size Analysis of Ninety-nine Samples from the Clyde Estuary: Laboratory Report

K. Freeborough and D. Wagner

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British Geological Survey offices

Keyworth, Nottingham NG12 5GG

☎ 0115-936 3241 Fax 0115-936 3488

e-mail: sales@bgs.ac.uk

www.bgs.ac.uk

Shop online at: www.geologyshop.com

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☎ 020-7942 5344/45 email: bgs london@bgs.ac.uk

Forde House, Park Five Business Centre, Harrier Way, Sowton, Exeter, Devon EX2 7HU

☎ 01392-445271 Fax 01392-445371

Geological Survey of Northern Ireland, Colby House, Stranmillis Court, Belfast BT9 5BF

☎ 028-9038 8462 Fax 028-9038 8461

Maclean Building, Crowmarsh Gifford, Wallingford, Oxfordshire OX10 8BB

☎ 01491-838800 Fax 01491-692345

Columbus House, Greenmeadow Springs, Tongwynlais, Cardiff, CF15 7NE

☎ 029-2052 1962 Fax 029-2052 1963

Parent Body

Natural Environment Research Council, Polaris House, North Star Avenue, Swindon, Wiltshire SN2 1EU

☎ 01793-411500 Fax 01793-411501

www.nerc.ac.uk

Foreword

This report is a published product of a study by the British Geological Survey (BGS) into the physical and chemical properties of the Clyde Estuary by the Estuarine Contamination Project under the leadership of Dave Jones. This report presents the Particle Size analysis undertaken by the BGS jointly on behalf of Glasgow City Council and the Estuarine Contamination project. The results of particle-size analysis of 99 samples of the estuarine deposits are presented.

The geological fieldwork was undertaken with the direction of D. Jones (Project Leader). Laboratory analyses were conducted at BGS Keyworth by K Freeborough and D. Wagner. Quality Assurance (QA) procedures (BS ISO EN 9001: 1994) were followed.

All samples were taken from National Grid Square NS, Sheet 55/-05, and sampling locations can be located on the 1:50K geological map 30W & 30E (Greenock District and Glasgow District).

Contents

Foreword	i
Contents	i
Summary	ii
1 Introduction	1
2 Organic Removal	1
3 Particle Size Distribution	1
3.1 Wet sieving method.....	1
3.2 Micrometrics Sedigraph analysis of the fine fraction.....	1
4 Particle Size Distribution Results	1
4.1 Folk Classification.....	2
5 References	7
Appendix 1 Summary Sheets for Particle Size Analysis	9
Appendix 2 Particle Size Distribution Curves	115

TABLES

Table 1 - Particle Size Distributions of Gravity Core Samples.....	3
Table 2 - Particle Size Distributions of Surface Grab Samples.....	4

FIGURES

Figure 1 - Folk Classification (after Folk 1974).....	2
Figure 2 - Folk Map of the Clyde Estuary compiled from surface grab sample PSA data.....	6

Summary

This is a factual laboratory report presenting the results of the particle size analysis carried out on ninety-nine samples from the Estuary in February 2005. The work forms part of an overall study into the Estuary with Glasgow City Council.

1 Introduction

The British Geological Survey (BGS) is undertaking a study of sediments in the Clyde estuary as part of a continuing study into estuarine contamination. Glasgow City Council GCC and BGS to have developed a joint sampling and testing programme to supplement the BGS study, in order to meet both BGS and GCC data requirements.

A total of ninety-nine samples were sub sampled from a collection of gravity cores and grab samples, collected from the Clyde Estuary in June 2004. Samples were frozen upon collection and thus were preserved in their natural state.

All testing has been carried out using methods provided by BS 1377: Part 2: 1990 (Anon 1990b).

2 Organic Removal

All samples were treated with 75 ml Hydrogen Peroxide in accordance with Head (1994) before testing in order to remove the organic content.

3 Particle Size Distribution

The particle size analysis shows the percentages of the various grain sizes within the soil as determined by sieving and sedimentation. The samples were taken at their natural moisture content from the sub samples collected from each sample. Fine fraction analysis in this project is undertaken using the Micrometrics Sedigraph; therefore there are two main procedures in determining the particle size distribution:

3.1 WET SIEVING METHOD

The procedure followed was identical to that described in Anon 1990b, Test 9.2, the wet sieving method. After oven drying, the sieve spacing used for analysis of the coarse fraction retained on the 0.063 mm sieve was 1 Φ up to 2.00 mm (-1.00 Φ). Larger particles were also measured and weighed in lab notes but the need in this study was more for percentage classifications.

3.2 MICROMETRICS SEDIGRAPH ANALYSIS OF THE FINE FRACTION

A 5 g, oven dried, sub-sample was selected from the <0.063 mm washings of the whole sample and mixed with a 0.15 % solution of sodium hexametaphosphate to form a suspension. The suspension was then analysed by the X-ray Sedigraph, the results of which were then integrated with the coarse analysis. The X-ray Sedigraph system was calibrated with a garnet standard prior to testing.

4 Particle Size Distribution Results

The particle size distribution results shown in table 1 and 2 were all determined from an initial mass. The results from the coarse fraction sieving analysis and the fine fraction Sedigraph

analysis have been combined to produce percentages of gravel, sand, silt and clay, and full distribution curves for each of the thirty-four samples (Appendix 2).

4.1 FOLK CLASSIFICATION.

Samples were given a Folk (1966, 1974) classification, based on the proportions of gravel (>2mm), sand (> 0.063mm) and mud (where the silt and clay proportions are added together) within each sample. The scheme was adapted slightly to not include the “slightly” classification given when there is between 1% and 5% gravel within a sample. The data from the grab samples, and further interpolation using sedimentological knowledge, was used to produce a “Folk map” of the distribution and grain size of the estuary surface sediments (See Figure 2). The map was only produced using the data from the inner estuary as the sample spacing for the outer estuary was considered to be too sparse to correlate with any confidence, even after combining the data with that from the seismic survey. It is suggested that further sampling analyses are carried out in this area at a future date.

Figure 1 – The Folk Classification Scheme (after Folk 1974)

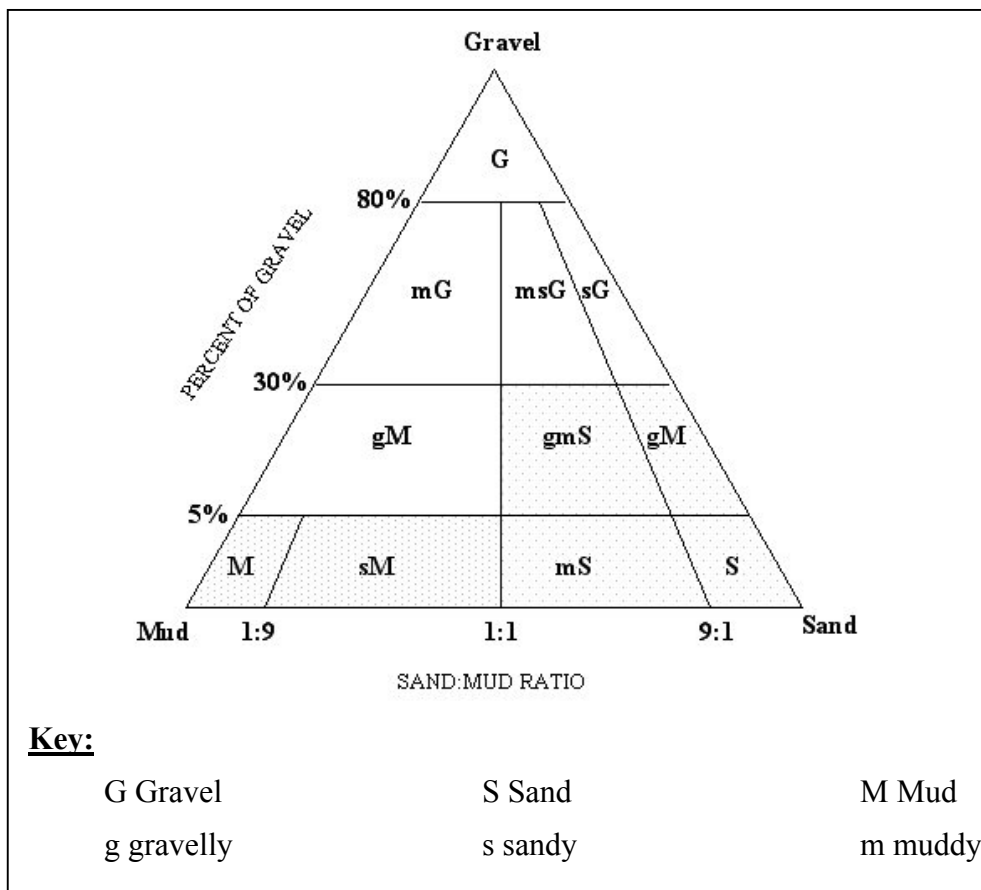


Table 1 - Particle Size Distributions of Gravity Core Samples (All samples are for sheet 55/-05/)

Sample	Depth	Lat	Long	Gravel	Sand	Silt	Clay	Folk
619	0-0.15	55.9607	-4.7358	0.68	57.91	36.52	4.90	mS
619	0.15-0.29	55.9607	-4.7358	0.56	50.46	43.58	5.40	mS
619	0.29-0.60	55.9607	-4.7358	0.00	30.44	59.66	9.90	sM
619	0.60-0.92	55.9607	-4.7358	0.12	50.02	42.27	7.60	mS
619	0.92-1.29	55.9607	-4.7358	0.00	36.99	53.71	9.30	sM
643	0.00-0.24	55.9947	-4.7268	2.57	61.24	32.09	4.10	mS
643	0.26-0.46	55.9947	-4.7268	0.65	40.99	50.96	7.40	sM
643	0.46-0.66	55.9947	-4.7268	1.87	24.34	66.29	7.50	sM
643	0.69-0.99	55.9947	-4.7268	0.00	1.80	87.00	11.20	M
643	0.99-1.29	55.9947	-4.7268	0.00	0.91	82.59	16.50	M
680	0.00-0.17	55.9352	-4.5548	4.29	89.47	3.94	2.30	S
680	0.17-0.44	55.9352	-4.5548	2.49	70.89	25.72	0.90	mS
680	0.44-0.71	55.9352	-4.5548	0.03	97.19	2.08	0.70	S
680	0.71-0.87	55.9352	-4.5548	0.26	95.15	3.48	1.10	S
680	0.87-1.10	55.9352	-4.5548	0.19	30.44	52.07	17.30	sM
683	0.00-0.17	55.9445	-4.6297	0.61	96.31	1.68	1.40	S
683	0.17-0.34	55.9445	-4.6297	3.54	93.50	2.56	0.40	S
683	0.34-0.56	55.9445	-4.6297	0.69	94.16	3.75	1.40	S
683	0.56-0.70	55.9445	-4.6297	2.34	73.43	18.73	5.50	mS
683	0.70-0.90	55.9445	-4.6297	1.34	92.79	4.17	1.70	S
688	0.0-0.15	55.9696	-4.6855	0.00	95.75	1.65	2.60	S
688	0.15-0.30	55.9696	-4.6855	0.34	97.57	1.10	1.00	S
688	0.30-0.60	55.9696	-4.6855	0.00	1.68	91.92	6.40	M
688	0.60-0.90	55.9696	-4.6855	0.00	0.68	76.12	23.20	M
688	0.90-1.70	55.9696	-4.6855	0.03	0.75	65.01	34.20	M
691	0.05-0.25	55.9252	-4.5252	2.58	81.18	12.24	4.00	mS
691	0.25-0.41	55.9252	-4.5252	0.12	70.99	2.99	25.90	mS
691	0.41-0.56	55.9252	-4.5252	0.03	29.57	67.70	2.70	sM
691	0.56-0.76	55.9252	-4.5252	0.08	97.71	1.71	0.50	S
691	0.76-0.95	55.9252	-4.5252	2.00	70.73	25.47	1.80	mS
695	0.10-0.32	55.9282	-4.5957	10.77	72.99	14.84	1.40	gmS
695	0.32-0.54	55.9282	-4.5957	21.47	64.00	13.23	1.30	gmS
695	0.54-0.76	55.9282	-4.5957	10.76	70.55	17.49	1.20	gmS
695	0.76-0.97	55.9282	-4.5957	18.17	53.08	24.45	4.30	gmS
695	0.97-1.17	55.9282	-4.5957	18.80	59.45	16.75	5.00	gmS
699	0.00-0.20	55.9264	-4.4843	0.22	89.88	8.20	1.70	S
699	0.20-0.40	55.9264	-4.4843	0.94	84.45	11.11	3.50	mS
699	0.40-0.61	55.9264	-4.4843	0.55	88.45	8.20	2.80	mS

Contd...

Sample	Depth	Lat	Long	Gravel	Sand	Silt	Clay	Folk
699	0.61-0.81	55.9264	-4.4843	4.09	76.49	16.22	3.20	mS
699	0.81-1.01	55.9264	-4.4843	1.90	89.57	7.13	1.40	S
707	0.00-0.22	55.9391	-4.5957	2.17	95.07	1.25	1.50	S
707	0.22-0.43	55.9391	-4.5957	7.79	86.29	4.52	1.40	gS
707	0.43-0.66	55.9391	-4.5957	0.28	25.97	50.35	23.40	sM
707	0.66-0.90	55.9391	-4.5957	0.00	8.98	64.42	26.60	S
707	0.90-1.15	55.9391	-4.5957	0.00	12.14	64.76	23.10	sM
715	0.00-0.20	55.9427	-4.6697	0.10	99.34	0.55	-	S
715	0.20-0.42	55.9427	-4.6697	17.80	80.12	1.58	0.50	gS
715	0.42-0.66	55.9427	-4.6697	0.22	97.96	1.12	0.70	S
715	0.66-0.90	55.9427	-4.6697	0.00	98.56	0.74	0.70	S
715	0.84-1.03	55.9427	-4.6697	0.00	98.30	1.00	0.70	S

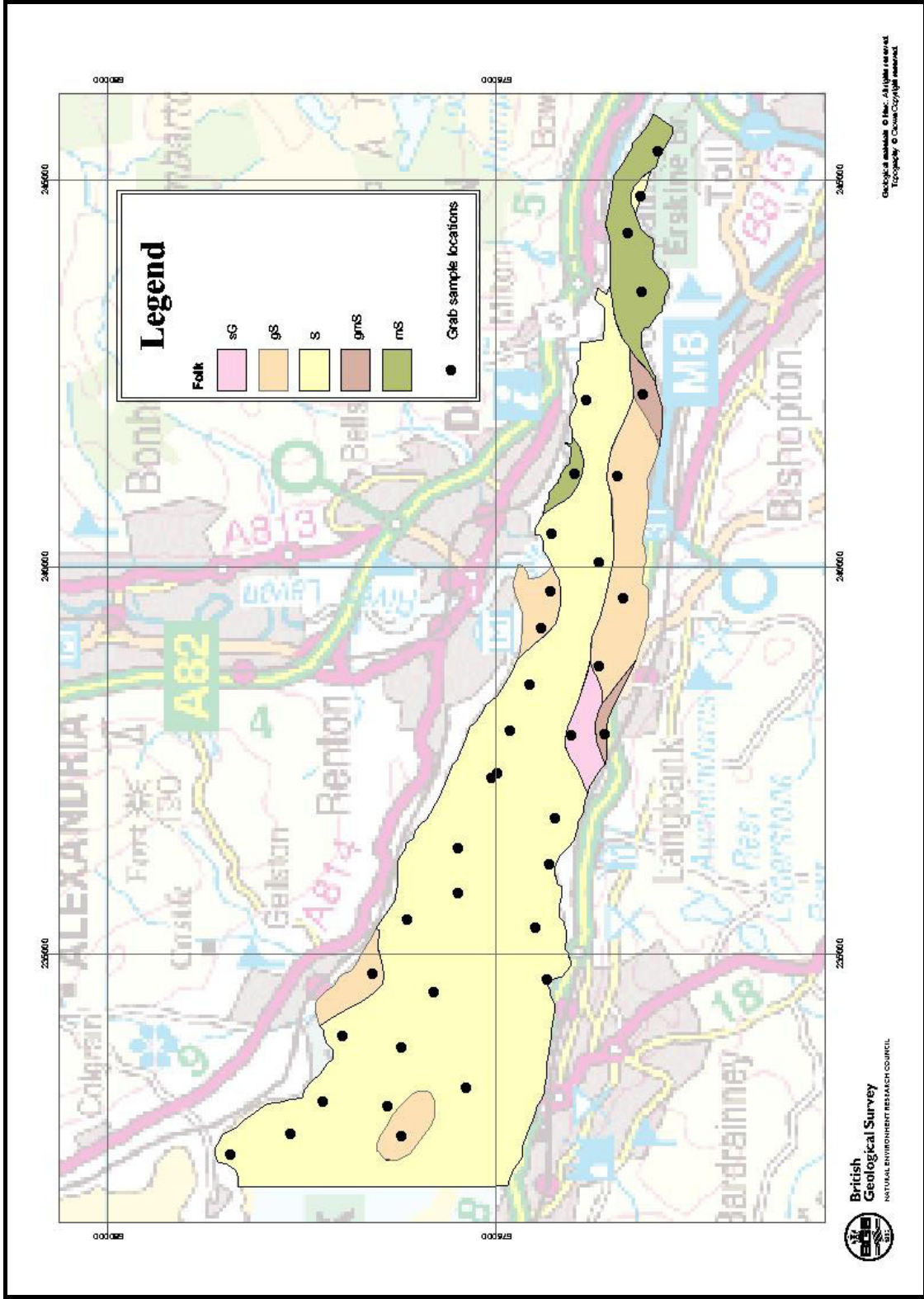
Table 2 - Particle Size Distributions of Surface Grab Samples (All samples are for sheet 55/-05/)

Sample	Lat	Long	Gravel	Sand	Silt	Clay	Folk
652	55.9952	-4.7348	0.27	35.48	57.54	6.70	sM
653	55.9945	-4.7262	14.75	65.25	16.39	3.60	gmS
655	55.9863	-4.7198	1.87	42.06	50.28	5.80	sM
658	55.9792	-4.7132	2.47	69.23	24.00	4.30	mS
661	55.9787	-4.7483	1.02	35.64	59.04	4.30	sM
663	55.9737	-4.7333	2.76	46.36	41.38	9.50	sM
670	55.9610	-4.7365	0.14	49.55	43.11	7.20	sM
676	55.9700	-4.7507	0.49	25.55	65.96	8.00	sM
678	55.9658	-4.7587	0.00	28.17	62.73	9.10	sM
680	55.9352	-4.5548	2.75	93.74	2.61	0.90	S
681	55.9360	-4.5743	12.28	83.20	3.43	1.10	gS
682	55.9404	-4.6046	0.08	98.01	1.02	0.90	S
683	55.9445	-4.6297	0.41	98.29	0.40	0.90	S
684	55.9502	-4.6355	0.00	99.03	0.47	0.50	S
685	55.9468	-4.6503	0.06	98.53	0.61	0.80	S
686	55.9503	-4.6620	4.63	92.26	1.81	1.30	S
687	55.9516	-4.6743	0.00	99.44	0.56	0.00	S
688	55.9696	-4.6855	0.00	98.45	0.95	0.60	S
689	55.9277	-4.4921	0.50	89.03	9.97	0.50	mS
690	55.9258	-4.5041	0.73	84.91	13.26	1.10	mS
691	55.9252	-4.5252	11.45	75.09	11.17	2.30	gmS
692	55.9278	-4.5424	10.26	86.13	2.41	1.20	gS

Contd...

Sample	Lat	Long	Gravel	Sand	Silt	Clay	Folk
693	55.9266	-4.5676	6.45	84.55	8.10	0.90	gS
694	55.9291	-4.5818	17.00	74.70	7.30	1.00	gS
695	55.9282	-4.5957	8.50	77.85	10.95	2.70	gmS
696	55.9336	-4.6135	1.62	96.81	1.47	0.10	S
697	55.9340	-4.6229	1.54	96.26	1.40	0.80	S
698	55.9245	-4.4750	3.03	85.71	8.47	2.80	mS
699	55.9264	-4.4843	1.84	93.12	3.54	1.50	S
700	55.9318	-4.5268	0.43	92.50	4.67	2.40	S
701	55.9353	-4.6363	2.66	94.44	1.70	1.20	S
702	55.9338	-4.6467	3.30	92.93	2.47	1.30	S
703	55.9499	-4.6804	11.02	84.89	2.49	1.60	gS
704	55.9627	-4.6808	0.78	94.57	3.15	1.50	S
705	55.9540	-4.6470	12.54	79.41	6.96	1.10	gS
706	55.9447	-4.6205	0.00	98.76	0.54	0.70	S
707	55.9391	-4.5957	0.47	95.02	0.41	4.10	S
708	55.9371	-4.5861	1.63	94.96	2.31	1.10	S
709	55.9328	-4.5423	1.83	78.24	17.03	2.90	mS
710	55.9328	-4.5423	1.25	59.71	35.64	3.40	mS
711	55.9351	-4.5667	17.38	78.26	3.55	0.80	gS
712	55.9411	-4.6056	0.00	98.89	0.81	0.30	S
713	55.9572	-4.6601	0.80	96.46	1.73	1.00	S
714	55.9592	-4.6737	0.07	98.39	0.84	0.70	S
715	55.9427	-4.6697	0.00	98.76	0.44	0.80	S
716	55.9427	-4.6697	0.06	99.06	0.87	0.00	S
717	55.9320	-4.5961	48.56	46.85	3.59	1.00	sG
718	55.9296	-4.5603	1.01	92.32	4.67	2.00	S
719	55.9296	-4.5603	0.74	92.53	4.83	1.90	S

Figure 2 - Folk Map of the Clyde Estuary compiled from surface grab sample PSA data.



5 References

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FOLK R. L. 1966. A review of grain-size parameters. *Sedimentology*. **6**: 73-93.

FOLK, R. L. 1974. *Petrology of Sedimentary Rocks*. Hemphill Publishing Co. Texas.

HEAD, K. H. 1994 Manual of Soil Laboratory Testing. Volume 1. Soil Classification and Compaction Tests. *Pentech Press, London*.

Appendix 1
Summary Sheets for Particle Size Analysis

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/652**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 129.022 g <0.063mm 82.89 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.352	0.3	0.3	99.7
1.00	0.00	0.306	0.2	0.5	99.5
0.50	1.00	0.541	0.4	0.9	99.1
0.425	1.25	0.2	0.2	1.1	98.9
0.25	2.00	1.25	1.0	2.1	97.9
0.125	3.00	5.31	4.1	6.2	93.8
0.063	4.00	38.173	29.6	35.8	64.2

Fine fraction analysis

Sample **+55/-05/652**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	129.02	100
+2	0.35	0.272821689
-2.0 + 0.063	45.78	35.5
- 0.063 (back calc)	82.89	64.2
Total	129.02	100

Particle size	Percentage
Gravel	0.3
Sand	35.5
Silt	57.5
Clay	6.7

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	97.9	62.9
0.050	97.9	62.9
0.040	98.0	63.0
0.030	97.8	62.8
0.025	97.2	62.4
0.020	95.4	61.3
0.015	91.6	58.8
0.010	84.7	54.4
0.0080	75.8	48.7
0.0060	34.3	22.0
0.0050	13.7	8.8
0.0040	10.5	6.7
0.0030	10.4	6.7
0.0020	10.5	6.7
0.0015	10.6	6.8
0.0010	10.4	6.7

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/653**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 179.867 g <0.063mm 35.96 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	26.535	14.8	14.8	85.2
1.00	0.00	7.583	4.2	19.0	81.0
0.50	1.00	3.708	2.1	21.0	79.0
0.425	1.25	0.848	0.5	21.5	78.5
0.25	2.00	4.386	2.4	23.9	76.1
0.125	3.00	37.85	21.0	45.0	55.0
0.063	4.00	62.995	35.0	80.0	20.0

Fine fraction analysis

Sample **+55/-05/653**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	179.87	100
+2	26.54	14.75256717
-2.0 + 0.063	117.37	65.3
- 0.063 (back calc)	35.96	20.0
Total	179.87	100

Particle size	Percentage
Gravel	14.8
Sand	65.3
Silt	16.4
Clay	3.6

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.5	19.9
0.050	98.8	19.8
0.040	97.2	19.4
0.030	94.6	18.9
0.025	92.9	18.6
0.020	90.3	18.1
0.015	85.2	17.0
0.010	76.7	15.3
0.0080	68.2	13.6
0.0060	35.5	7.1
0.0050	21.4	4.3
0.0040	19.1	3.8
0.0030	18.8	3.8
0.0020	18.2	3.6
0.0015	17.8	3.6
0.0010	16.9	3.4

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/655**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 107.876 g <0.063mm 60.50 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	2.012	1.9	1.9	98.1
1.00	0.00	1.248	1.2	3.0	97.0
0.50	1.00	1.102	1.0	4.0	96.0
0.425	1.25	0.351	0.3	4.4	95.6
0.25	2.00	2.527	2.3	6.7	93.3
0.125	3.00	9.028	8.4	15.1	84.9
0.063	4.00	31.113	28.8	43.9	56.1

Fine fraction analysis

Sample **+55/-05/655**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	107.88	100
+2	2.01	1.865104379
-2.0 + 0.063	45.37	42.1
- 0.063 (back calc)	60.50	56.1
Total	107.88	100

Particle size	Percentage
Gravel	1.9
Sand	42.1
Silt	50.3
Clay	5.8

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	100.7	56.5
0.050	100.0	56.1
0.040	99.5	55.8
0.030	98.5	55.2
0.025	97.6	54.7
0.020	96.3	54.0
0.015	93.2	52.3
0.010	87.7	49.2
0.0080	83.9	47.0
0.0060	67.2	37.7
0.0050	37.2	20.9
0.0040	12.8	7.2
0.0030	10.8	6.1
0.0020	10.4	5.8
0.0015	10.4	5.8
0.0010	9.8	5.5

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/658**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 55.984 g <0.063mm 15.84 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	1.385	2.5	2.5	97.5
1.00	0.00	1.215	2.2	4.6	95.4
0.50	1.00	0.852	1.5	6.2	93.8
0.425	1.25	0.437	0.8	6.9	93.1
0.25	2.00	2.448	4.4	11.3	88.7
0.125	3.00	9.943	17.8	29.1	70.9
0.063	4.00	23.861	42.6	71.7	28.3

Fine fraction analysis

Sample **+55/-05/658**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	55.98	100
+2	1.39	2.47392112
-2.0 + 0.063	38.76	69.2
- 0.063 (back calc)	15.84	28.3
Total	55.98	100

Particle size	Percentage
Gravel	2.5
Sand	69.2
Silt	24.0
Clay	4.3

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.3	28.1
0.050	99.6	28.2
0.040	100.0	28.3
0.030	99.8	28.2
0.025	99.7	28.2
0.020	98.9	28.0
0.015	94.3	26.7
0.010	90.5	25.6
0.0080	88.1	24.9
0.0060	77.3	21.9
0.0050	54.3	15.4
0.0040	21.8	6.2
0.0030	15.2	4.3
0.0020	15.2	4.3
0.0015	15.3	4.3
0.0010	14.7	4.2

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/661**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 86.23 g <0.063mm 54.62 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.881	1.0	1.0	99.0
1.00	0.00	0.533	0.6	1.6	98.4
0.50	1.00	0.454	0.5	2.2	97.8
0.425	1.25	0.153	0.2	2.3	97.7
0.25	2.00	0.606	0.7	3.0	97.0
0.125	3.00	2.725	3.2	6.2	93.8
0.063	4.00	26.263	30.5	36.7	63.3

Fine fraction analysis

Sample **+55/-05/661**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	86.23	100
+2	0.88	1.021686188
-2.0 + 0.063	30.73	35.6
- 0.063 (back calc)	54.62	63.3
Total	86.23	100

Particle size	Percentage
Gravel	1.0
Sand	35.6
Silt	59.0
Clay	4.3

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.6	62.4
0.050	97.7	61.9
0.040	96.2	60.9
0.030	94.0	59.5
0.025	91.8	58.1
0.020	89.4	56.6
0.015	85.0	53.8
0.010	78.7	49.8
0.0080	63.0	39.9
0.0060	21.1	13.4
0.0050	13.8	8.7
0.0040	11.9	7.5
0.0030	7.4	4.7
0.0020	6.8	4.3
0.0015	7.8	4.9
0.0010	8.1	5.1

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/663**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 99.107 g **<0.063mm** 50.43 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	2.735	2.8	2.8	97.2
1.00	0.00	2.003	2.0	4.8	95.2
0.50	1.00	1.085	1.1	5.9	94.1
0.425	1.25	0.275	0.3	6.2	93.8
0.25	2.00	0.61	0.6	6.8	93.2
0.125	3.00	18.798	19.0	25.7	74.3
0.063	4.00	23.176	23.4	49.1	50.9

Fine fraction analysis

Sample **+55/-05/663**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	99.11	100
+2	2.74	2.759643618
-2.0 + 0.063	45.95	46.4
- 0.063 (back calc)	50.43	50.9
Total	99.11	100

Particle size	Percentage
Gravel	2.8
Sand	46.4
Silt	41.4
Clay	9.5

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.2	50.0
0.050	98.5	50.1
0.040	99.0	50.4
0.030	99.4	50.6
0.025	99.4	50.6
0.020	98.9	50.3
0.015	97.6	49.7
0.010	96.1	48.9
0.0080	95.7	48.7
0.0060	90.4	46.0
0.0050	80.6	41.0
0.0040	47.4	24.1
0.0030	19.2	9.8
0.0020	18.7	9.5
0.0015	18.9	9.6
0.0010	19.2	9.8

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/670**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 114.355 g <0.063mm 57.54 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.158	0.1	0.1	99.9
1.00	0.00	0.165	0.1	0.3	99.7
0.50	1.00	0.269	0.2	0.5	99.5
0.425	1.25	0.109	0.1	0.6	99.4
0.25	2.00	0.51	0.4	1.1	98.9
0.125	3.00	13.184	11.5	12.6	87.4
0.063	4.00	42.425	37.1	49.7	50.3

Fine fraction analysis

Sample **+55/-05/670**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	114.36	100
+2	0.16	0.138166237
-2.0 + 0.063	56.66	49.5
- 0.063 (back calc)	57.54	50.3
Total	114.36	100

Particle size	Percentage
Gravel	0.1
Sand	49.5
Silt	43.1
Clay	7.2

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.9	50.3
0.050	100.4	50.5
0.040	100.8	50.7
0.030	99.5	50.1
0.025	98.3	49.5
0.020	96.5	48.6
0.015	94.3	47.4
0.010	89.8	45.2
0.0080	86.4	43.5
0.0060	70.7	35.6
0.0050	40.1	20.2
0.0040	17.2	8.7
0.0030	15.4	7.7
0.0020	14.3	7.2
0.0015	14.0	7.0
0.0010	15.2	7.6

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/676**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 94.118 g <0.063mm 69.61 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.461	0.5	0.5	99.5
1.00	0.00	0.499	0.5	1.0	99.0
0.50	1.00	0.422	0.4	1.5	98.5
0.425	1.25	0.102	0.1	1.6	98.4
0.25	2.00	0.55	0.6	2.2	97.8
0.125	3.00	2.946	3.1	5.3	94.7
0.063	4.00	19.53	20.8	26.0	74.0

Fine fraction analysis

Sample **+55/-05/676**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	94.12	100
+2	0.46	0.489810663
-2.0 + 0.063	24.05	25.6
- 0.063 (back calc)	69.61	74.0
Total	94.12	100

Particle size	Percentage
Gravel	0.5
Sand	25.6
Silt	66.0
Clay	8.0

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.5	72.8
0.050	98.0	72.5
0.040	97.2	71.9
0.030	96.5	71.4
0.025	95.6	70.7
0.020	93.3	69.0
0.015	90.3	66.8
0.010	84.5	62.5
0.0080	75.8	56.1
0.0060	34.4	25.4
0.0050	13.7	10.1
0.0040	10.8	8.0
0.0030	10.6	7.8
0.0020	10.8	8.0
0.0015	10.6	7.8
0.0010	9.5	7.0

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/678**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 96.498 g <0.063mm 69.32 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0	0.0	0.0	100.0
0.50	1.00	0.082	0.1	0.1	99.9
0.425	1.25	0.142	0.1	0.2	99.8
0.25	2.00	0.626	0.6	0.9	99.1
0.125	3.00	3.636	3.8	4.6	95.4
0.063	4.00	22.695	23.5	28.2	71.8

Fine fraction analysis

Sample **+55/-05/678**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	96.50	100
+2	0.00	0
-2.0 + 0.063	27.18	28.2
- 0.063 (back calc)	69.32	71.8
Total	96.50	100

Particle size	Percentage
Gravel	0.0
Sand	28.2
Silt	62.7
Clay	9.1

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.0	71.1
0.050	99.2	71.3
0.040	99.3	71.3
0.030	99.0	71.1
0.025	99.2	71.3
0.020	99.0	71.1
0.015	97.6	70.1
0.010	96.0	69.0
0.0080	96.1	69.0
0.0060	95.3	68.5
0.0050	94.4	67.8
0.0040	86.7	62.3
0.0030	43.7	31.4
0.0020	12.7	9.1
0.0015	12.7	9.1
0.0010	12.6	9.1

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/680**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 146.002 g <0.063mm 5.13 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	4.01	2.7	2.7	97.3
1.00	0.00	1.186	0.8	3.6	96.4
0.50	1.00	3.984	2.7	6.3	93.7
0.425	1.25	2.971	2.0	8.3	91.7
0.25	2.00	60.905	41.7	50.0	50.0
0.125	3.00	64.405	44.1	94.2	5.8
0.063	4.00	3.41	2.3	96.5	3.5

Fine fraction analysis

Sample **+55/-05/680**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	146.00	100
+2	4.01	2.746537719
-2.0 + 0.063	136.86	93.7
- 0.063 (back calc)	5.13	3.5
Total	146.00	100

Particle size	Percentage
Gravel	2.7
Sand	93.7
Silt	2.6
Clay	0.9

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.6	3.5
0.050	98.7	3.5
0.040	98.7	3.5
0.030	98.6	3.5
0.025	98.3	3.5
0.020	97.3	3.4
0.015	95.0	3.3
0.010	91.6	3.2
0.0080	88.6	3.1
0.0060	82.8	2.9
0.0050	75.3	2.6
0.0040	50.5	1.8
0.0030	27.3	1.0
0.0020	26.8	0.9
0.0015	26.6	0.9
0.0010	26.4	0.9

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/681**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 245.884 g <0.063mm 11.13 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	30.186	12.3	12.3	87.7
1.00	0.00	8.59	3.5	15.8	84.2
0.50	1.00	13.425	5.5	21.2	78.8
0.425	1.25	4.335	1.8	23.0	77.0
0.25	2.00	27.638	11.2	34.2	65.8
0.125	3.00	137.573	56.0	90.2	9.8
0.063	4.00	13.005	5.3	95.5	4.5

Fine fraction analysis

Sample **+55/-05/681**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	245.88	100.00
+2	30.19	12.28
-2.0 + 0.063	204.57	83.20
- 0.063 (back calc)	11.13	4.53
Total	245.88	100.00

Particle size	Percentage
Gravel	12.3
Sand	83.2
Silt	3.4
Clay	1.1

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.1	4.5
0.050	98.6	4.5
0.040	98.3	4.5
0.030	98.7	4.5
0.025	98.4	4.5
0.020	97.6	4.4
0.015	96.7	4.4
0.010	93.0	4.2
0.0080	89.6	4.1
0.0060	84.3	3.8
0.0050	80.9	3.7
0.0040	70.5	3.2
0.0030	35.2	1.6
0.0020	24.6	1.1
0.0015	22.6	1.0
0.0010	20.6	0.9

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-55/682**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 148.925 g <0.063mm 2.85 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.117	0.1	0.1	99.9
1.00	0.00	1.14	0.8	0.8	99.2
0.50	1.00	7.745	5.2	6.0	94.0
0.425	1.25	6.543	4.4	10.4	89.6
0.25	2.00	61.723	41.4	51.9	48.1
0.125	3.00	66.318	44.5	96.4	3.6
0.063	4.00	2.486	1.7	98.1	1.9

Fine fraction analysis

Sample **+55/-55/682**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	148.93	100
+2	0.12	0.078563035
-2.0 + 0.063	145.96	98.0
- 0.063 (back calc)	2.85	1.9
Total	148.93	100

Particle size	Percentage
Gravel	0.1
Sand	98.0
Silt	1.0
Clay	0.9

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.3	1.9
0.050	98.2	1.9
0.040	98.0	1.9
0.030	98.1	1.9
0.025	98.5	1.9
0.020	98.9	1.9
0.015	98.7	1.9
0.010	97.7	1.9
0.0080	97.4	1.9
0.0060	95.5	1.8
0.0050	93.6	1.8
0.0040	91.1	1.7
0.0030	80.0	1.5
0.0020	47.2	0.9
0.0015	46.0	0.9
0.0010	46.6	0.9

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/683**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 162.681 g <0.063mm 2.11 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.672	0.4	0.4	99.6
1.00	0.00	0.711	0.4	0.9	99.1
0.50	1.00	16.588	10.2	11.0	89.0
0.425	1.25	14.405	8.9	19.9	80.1
0.25	2.00	69.575	42.8	62.7	37.3
0.125	3.00	57.477	35.3	98.0	2.0
0.063	4.00	1.141	0.7	98.7	1.3

Fine fraction analysis

Sample **+55/-05/683**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	162.68	100
+2	0.67	0.413078356
-2.0 + 0.063	159.90	98.3
- 0.063 (back calc)	2.11	1.3
Total	162.68	100

Particle size	Percentage
Gravel	0.4
Sand	98.3
Silt	0.4
Clay	0.9

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.8	1.3
0.050	99.7	1.3
0.040	99.8	1.3
0.030	100.0	1.3
0.025	99.5	1.3
0.020	98.6	1.3
0.015	93.8	1.2
0.010	71.9	0.9
0.0080	68.1	0.9
0.0060	67.4	0.9
0.0050	66.9	0.9
0.0040	66.7	0.9
0.0030	66.2	0.9
0.0020	66.1	0.9
0.0015	65.7	0.9
0.0010	65.4	0.8

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/684**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 177.691 g <0.063mm 1.72 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0.035	0.0	0.0	100.0
0.50	1.00	2.098	1.2	1.2	98.8
0.425	1.25	4.459	2.5	3.7	96.3
0.25	2.00	90.479	50.9	54.6	45.4
0.125	3.00	78.359	44.1	98.7	1.3
0.063	4.00	0.54	0.3	99.0	1.0

Fine fraction analysis

Sample **+55/-05/684**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	177.69	100.00
+2	0.00	0.00
-2.0 + 0.063	175.97	99.03
- 0.063 (back calc)	1.72	0.97
Total	177.69	100

Particle size	Percentage
Gravel	0.0
Sand	99.0
Silt	0.5
Clay	0.5

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.1	1.0
0.050	98.1	1.0
0.040	97.7	0.9
0.030	96.6	0.9
0.025	96.3	0.9
0.020	95.7	0.9
0.015	93.8	0.9
0.010	88.1	0.9
0.0080	80.6	0.8
0.0060	65.7	0.6
0.0050	60.4	0.6
0.0040	58.2	0.6
0.0030	56.8	0.6
0.0020	55.5	0.5
0.0015	55.1	0.5
0.0010	54.8	0.5

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/685**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 240.667 g <0.063mm 3.40 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.147	0.1	0.1	99.9
1.00	0.00	1.043	0.4	0.5	99.5
0.50	1.00	14.474	6.0	6.5	93.5
0.425	1.25	11.858	4.9	11.4	88.6
0.25	2.00	146.613	60.9	72.4	27.6
0.125	3.00	60.922	25.3	97.7	2.3
0.063	4.00	2.21	0.9	98.6	1.4

Fine fraction analysis

Sample **+55/-05/685**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	240.67	100.00
+2	0.15	0.06
-2.0 + 0.063	237.12	98.53
- 0.063 (back calc)	3.40	1.41
Total	240.67	100

Particle size	Percentage
Gravel	0.1
Sand	98.5
Silt	0.6
Clay	0.8

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	97.8	1.4
0.050	97.8	1.4
0.040	97.6	1.4
0.030	96.7	1.4
0.025	95.6	1.4
0.020	94.4	1.3
0.015	92.4	1.3
0.010	84.8	1.2
0.0080	71.5	1.0
0.0060	58.2	0.8
0.0050	57.2	0.8
0.0040	56.6	0.8
0.0030	55.6	0.8
0.0020	55.0	0.8
0.0015	55.1	0.8
0.0010	55.2	0.8

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/686**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 126.177 g <0.063mm 3.92 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	5.842	4.6	4.6	95.4
1.00	0.00	1.953	1.5	6.2	93.8
0.50	1.00	9.429	7.5	13.7	86.3
0.425	1.25	7.369	5.8	19.5	80.5
0.25	2.00	62.514	49.5	69.0	31.0
0.125	3.00	34.627	27.4	96.5	3.5
0.063	4.00	0.52	0.4	96.9	3.1

Fine fraction analysis

Sample **+55/-05/686**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	126.18	100
+2	5.84	4.630003883
-2.0 + 0.063	116.41	92.3
- 0.063 (back calc)	3.92	3.1
Total	126.18	100

Particle size	Percentage
Gravel	4.6
Sand	92.3
Silt	1.8
Clay	1.3

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.8	3.1
0.050	99.8	3.1
0.040	99.8	3.1
0.030	99.4	3.1
0.025	99.2	3.1
0.020	98.6	3.1
0.015	97.4	3.0
0.010	96.0	3.0
0.0080	92.3	2.9
0.0060	69.9	2.2
0.0050	55.5	1.7
0.0040	51.4	1.6
0.0030	46.2	1.4
0.0020	42.4	1.3
0.0015	41.8	1.3
0.0010	42.5	1.3

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/687**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 130.652 g <0.063mm 0.74 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0.096	0.1	0.1	99.9
0.50	1.00	5.102	3.9	4.0	96.0
0.425	1.25	9.53	7.3	11.3	88.7
0.25	2.00	86.522	66.2	77.5	22.5
0.125	3.00	28.559	21.9	99.4	0.6
0.063	4.00	0.105	0.1	99.4	0.6

Fine fraction analysis

Sample **+55/-05/687**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	130.65	100
+2	0.00	0
-2.0 + 0.063	129.91	99.4
- 0.063 (back calc)	0.74	0.6
Total	130.65	100

Particle size	Percentage
Gravel	0.0
Sand	99.4
Silt	0.6
Clay	

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	0.0	
0.050	0.0	
0.040	0.0	
0.030	0.0	
0.025	0.0	
0.020	0.0	
0.015	0.0	
0.010	0.0	
0.0080	0.0	
0.0060	0.0	
0.0050	0.0	
0.0040	0.0	
0.0030	0.0	
0.0020	0.0	
0.0015	0.0	
0.0010	0.0	

No sedigraph analysis

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/688**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 166.126 g **<0.063mm** 2.57 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0	0.0	0.0	100.0
0.50	1.00	0.171	0.1	0.1	99.9
0.425	1.25	0.234	0.1	0.2	99.8
0.25	2.00	5.909	3.6	3.8	96.2
0.125	3.00	148.5	89.4	93.2	6.8
0.063	4.00	8.738	5.3	98.5	1.5

Fine fraction analysis

Sample **+55/-05/688**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	166.13	100
+2	0.00	0
-2.0 + 0.063	163.55	98.5
- 0.063 (back calc)	2.57	1.5
Total	166.13	100

Particle size	Percentage
Gravel	0.0
Sand	98.5
Silt	0.9
Clay	0.6

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.1	1.5
0.050	99.3	1.5
0.040	99.4	1.5
0.030	99.3	1.5
0.025	99.2	1.5
0.020	99.0	1.5
0.015	98.0	1.5
0.010	86.8	1.3
0.0080	75.3	1.2
0.0060	71.4	1.1
0.0050	69.8	1.1
0.0040	59.4	0.9
0.0030	41.8	0.6
0.0020	38.3	0.6
0.0015	40.6	0.6
0.0010	46.1	0.7

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/689**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 182.136 g <0.063mm 19.06 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.918	0.5	0.5	99.5
1.00	0.00	0.734	0.4	0.9	99.1
0.50	1.00	1.108	0.6	1.5	98.5
0.425	1.25	0.59	0.3	1.8	98.2
0.25	2.00	9.86	5.4	7.3	92.7
0.125	3.00	121.4	66.7	73.9	26.1
0.063	4.00	28.465	15.6	89.5	10.5

Fine fraction analysis

Sample **+55/-05/689**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	182.14	100.00
+2	0.92	0.50
-2.0 + 0.063	162.16	89.03
- 0.063 (back calc)	19.06	10.47
Total	182.14	100

Particle size	Percentage
Gravel	0.5
Sand	89.0
Silt	10.0
Clay	0.5

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	94.7	9.91
0.050	93.2	9.75
0.040	89.8	9.40
0.030	85.1	8.91
0.025	82.6	8.64
0.020	79.0	8.27
0.015	75.7	7.92
0.010	65.5	6.85
0.0080	43.5	4.55
0.0060	15.0	1.57
0.0050	12.2	1.28
0.0040	11.6	1.21
0.0030	8.7	0.91
0.0020	4.4	0.46
0.0015	0.5	0.05
0.0010	-0.3	-0.03

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/690**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 212.618 g <0.063mm 30.53 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	1.547	0.7	0.7	99.3
1.00	0.00	1.845	0.9	1.6	98.4
0.50	1.00	5.53	2.6	4.2	95.8
0.425	1.25	3.267	1.5	5.7	94.3
0.25	2.00	16.307	7.7	13.4	86.6
0.125	3.00	111.093	52.3	65.7	34.3
0.063	4.00	42.498	20.0	85.6	14.4

Fine fraction analysis

Sample **+55/-05/690**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	212.62	100.00
+2	1.55	0.73
-2.0 + 0.063	180.54	84.91
- 0.063 (back calc)	30.53	14.36
Total	212.62	100

Particle size	Percentage
Gravel	0.7
Sand	84.9
Silt	13.3
Clay	1.1

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	95.6	13.7
0.050	95.1	13.7
0.040	92.6	13.3
0.030	87.5	12.6
0.025	84.2	12.1
0.020	79.9	11.5
0.015	74.2	10.7
0.010	60.3	8.7
0.0080	35.3	5.1
0.0060	14.5	2.1
0.0050	13.5	1.9
0.0040	12.9	1.9
0.0030	12.2	1.8
0.0020	7.5	1.1
0.0015	4.5	0.6
0.0010	3.9	0.6

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/691**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 110.405 g <0.063mm 14.87 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	12.638	11.4	11.4	88.6
1.00	0.00	1.153	1.0	12.5	87.5
0.50	1.00	1.958	1.8	14.3	85.7
0.425	1.25	1.955	1.8	16.0	84.0
0.25	2.00	21.95	19.9	35.9	64.1
0.125	3.00	37.91	34.3	70.3	29.7
0.063	4.00	17.972	16.3	86.5	13.5

Fine fraction analysis

Sample **+55/-05/691**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	110.41	100
+2	12.64	11.44694534
-2.0 + 0.063	82.90	75.1
- 0.063 (back calc)	14.87	13.5
Total	110.41	100

Particle size	Percentage
Gravel	11.4
Sand	75.1
Silt	11.2
Clay	2.3

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.0	13.2
0.050	97.4	13.1
0.040	96.1	12.9
0.030	92.9	12.5
0.025	89.9	12.1
0.020	85.8	11.6
0.015	80.2	10.8
0.010	68.0	9.2
0.0080	47.8	6.4
0.0060	24.5	3.3
0.0050	22.0	3.0
0.0040	21.4	2.9
0.0030	19.9	2.7
0.0020	17.3	2.3
0.0015	17.2	2.3
0.0010	17.2	2.3

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/692**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 213.767 g <0.063mm 7.72 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	21.924	10.3	10.3	89.7
1.00	0.00	4.564	2.1	12.4	87.6
0.50	1.00	3.884	1.8	14.2	85.8
0.425	1.25	1.959	0.9	15.1	84.9
0.25	2.00	30.414	14.2	29.4	70.6
0.125	3.00	131.016	61.3	90.6	9.4
0.063	4.00	12.284	5.7	96.4	3.6

Fine fraction analysis

Sample **+55/-05/692**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	213.77	100.00
+2	21.92	10.26
-2.0 + 0.063	184.12	86.13
- 0.063 (back calc)	7.72	3.61
Total	213.77	100

Particle size	Percentage
Gravel	10.3
Sand	86.1
Silt	2.4
Clay	1.2

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.9	3.6
0.050	98.7	3.6
0.040	98.5	3.6
0.030	98.5	3.6
0.025	98.3	3.6
0.020	98.2	3.5
0.015	97.5	3.5
0.010	96.5	3.5
0.0080	95.8	3.5
0.0060	94.0	3.4
0.0050	91.7	3.3
0.0040	88.6	3.2
0.0030	79.1	2.9
0.0020	32.1	1.2
0.0015	22.7	0.8
0.0010	19.4	0.7

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/693**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 229.517 g <0.063mm 20.66 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	14.805	6.5	6.5	93.5
1.00	0.00	11.465	5.0	11.4	88.6
0.50	1.00	21.46	9.4	20.8	79.2
0.425	1.25	8.011	3.5	24.3	75.7
0.25	2.00	48.359	21.1	45.4	54.6
0.125	3.00	86.262	37.6	82.9	17.1
0.063	4.00	18.494	8.1	91.0	9.0

Fine fraction analysis

Sample **+55/-05/693**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	229.52	100.00
+2	14.81	6.45
-2.0 + 0.063	194.05	84.55
- 0.063 (back calc)	20.66	9.00
Total	229.52	100

Particle size	Percentage
Gravel	6.5
Sand	84.5
Silt	8.1
Clay	0.9

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	97.1	8.7
0.050	96.8	8.7
0.040	93.9	8.5
0.030	87.5	7.9
0.025	83.6	7.5
0.020	79.6	7.2
0.015	75.2	6.8
0.010	66.5	6.0
0.0080	47.1	4.2
0.0060	15.7	1.4
0.0050	13.0	1.2
0.0040	12.8	1.2
0.0030	12.5	1.1
0.0020	10.4	0.9
0.0015	8.5	0.8
0.0010	7.0	0.6

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/694**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 120.538 g **<0.063mm** 10.00 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	20.493	17.0	17.0	83.0
1.00	0.00	4.542	3.8	20.8	79.2
0.50	1.00	5.621	4.7	25.4	74.6
0.425	1.25	2.706	2.2	27.7	72.3
0.25	2.00	16.113	13.4	41.0	59.0
0.125	3.00	45.897	38.1	79.1	20.9
0.063	4.00	15.167	12.6	91.7	8.3

Fine fraction analysis

Sample **+55/-05/694**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	120.54	100
+2	20.49	17.00127761
-2.0 + 0.063	90.05	74.7
- 0.063 (back calc)	10.00	8.3
Total	120.54	100

Particle size	Percentage
Gravel	17.0
Sand	74.7
Silt	7.3
Clay	1.0

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.3	8.2
0.050	98.7	8.2
0.040	97.2	8.1
0.030	94.9	7.9
0.025	93.0	7.7
0.020	90.3	7.5
0.015	87.8	7.3
0.010	81.6	6.8
0.0080	76.7	6.4
0.0060	67.7	5.6
0.0050	50.5	4.2
0.0040	20.6	1.7
0.0030	12.3	1.0
0.0020	11.9	1.0
0.0015	11.6	1.0
0.0010	13.1	1.1

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/695**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 129.226 g <0.063mm 17.64 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	10.978	8.5	8.5	91.5
1.00	0.00	7.498	5.8	14.3	85.7
0.50	1.00	6.368	4.9	19.2	80.8
0.425	1.25	1.886	1.5	20.7	79.3
0.25	2.00	13.161	10.2	30.9	69.1
0.125	3.00	39.657	30.7	61.6	38.4
0.063	4.00	32.038	24.8	86.3	13.7

Fine fraction analysis

Sample **+55/-05/695**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	129.23	100
+2	10.98	8.495194466
-2.0 + 0.063	100.61	77.9
- 0.063 (back calc)	17.64	13.7
Total	129.23	100

Particle size	Percentage
Gravel	8.5
Sand	77.9
Silt	11.0
Clay	2.7

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.3	13.6
0.050	99.1	13.5
0.040	97.3	13.3
0.030	92.1	12.6
0.025	88.9	12.1
0.020	85.6	11.7
0.015	82.9	11.3
0.010	76.1	10.4
0.0080	61.9	8.4
0.0060	27.4	3.7
0.0050	20.7	2.8
0.0040	20.2	2.8
0.0030	20.0	2.7
0.0020	19.8	2.7
0.0015	19.7	2.7
0.0010	19.5	2.7

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/696**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 156.014 g **<0.063mm** 2.46 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	2.523	1.6	1.6	98.4
1.00	0.00	4.876	3.1	4.7	95.3
0.50	1.00	37.414	24.0	28.7	71.3
0.425	1.25	20.134	12.9	41.6	58.4
0.25	2.00	60.982	39.1	80.7	19.3
0.125	3.00	25.53	16.4	97.1	2.9
0.063	4.00	2.098	1.3	98.4	1.6

Fine fraction analysis

Sample **+55/-05/696**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	156.01	100
+2	2.52	1.617162562
-2.0 + 0.063	151.03	96.8
- 0.063 (back calc)	2.46	1.6
Total	156.01	100

Particle size	Percentage
Gravel	1.6
Sand	96.8
Silt	1.5
Clay	0.1

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.1	1.5
0.050	98.3	1.5
0.040	98.5	1.6
0.030	97.9	1.5
0.025	97.5	1.5
0.020	96.9	1.5
0.015	94.7	1.5
0.010	86.1	1.4
0.0080	66.4	1.0
0.0060	47.2	0.7
0.0050	46.1	0.7
0.0040	44.3	0.7
0.0030	24.3	0.4
0.0020	3.2	0.1
0.0015	7.1	0.1
0.0010	16.9	0.3

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/697**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 187.681 g <0.063mm 4.13 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	2.892	1.5	1.5	98.5
1.00	0.00	1.244	0.7	2.2	97.8
0.50	1.00	11.465	6.1	8.3	91.7
0.425	1.25	7.418	4.0	12.3	87.7
0.25	2.00	51.87	27.6	39.9	60.1
0.125	3.00	100.452	53.5	93.4	6.6
0.063	4.00	8.208	4.4	97.8	2.2

Fine fraction analysis

Sample **+55/-05/697**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	187.68	100.00
+2	2.89	1.54
-2.0 + 0.063	180.66	96.26
- 0.063 (back calc)	4.13	2.20
Total	187.68	100

Particle size	Percentage
Gravel	1.5
Sand	96.3
Silt	1.4
Clay	0.8

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.3	2.2
0.050	97.5	2.1
0.040	95.8	2.1
0.030	93.1	2.0
0.025	91.6	2.0
0.020	89.7	2.0
0.015	87.6	1.9
0.010	83.6	1.8
0.0080	80.3	1.8
0.0060	71.2	1.6
0.0050	56.2	1.2
0.0040	40.8	0.9
0.0030	38.0	0.8
0.0020	37.9	0.8
0.0015	37.8	0.8
0.0010	36.9	0.8

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/698**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 178.04 g **<0.063mm** 20.06 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	5.386	3.0	3.0	97.0
1.00	0.00	2.98	1.7	4.7	95.3
0.50	1.00	6.037	3.4	8.1	91.9
0.425	1.25	3.121	1.8	9.8	90.2
0.25	2.00	33.28	18.7	28.5	71.5
0.125	3.00	73.39	41.2	69.8	30.2
0.063	4.00	33.783	19.0	88.7	11.3

Fine fraction analysis

Sample **+55/-05/698**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	178.04	100
+2	5.39	3.025162885
-2.0 + 0.063	152.59	85.7
- 0.063 (back calc)	20.06	11.3
Total	178.04	100

Particle size	Percentage
Gravel	3.0
Sand	85.7
Silt	8.5
Clay	2.8

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.8	11.1
0.050	98.7	11.1
0.040	97.8	11.0
0.030	95.3	10.7
0.025	92.5	10.4
0.020	89.1	10.0
0.015	85.2	9.6
0.010	76.0	8.6
0.0080	51.2	5.8
0.0060	25.8	2.9
0.0050	24.8	2.8
0.0040	24.7	2.8
0.0030	24.5	2.8
0.0020	24.6	2.8
0.0015	24.5	2.8
0.0010	24.6	2.8

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/009**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 129.887 g <0.063mm 16.98 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.323	0.8	0.8	99.2
1.00	0.00	0.692	0.6	2.5	97.6
0.50	1.00	1.897	0.9	2.6	97.4
0.425	1.25	0.697	0.5	3.8	96.2
0.25	2.00	16.099	6.6	9.0	91.0
0.125	3.00	190.467	62.2	84.2	26.9
0.063	4.00	37.795	18.9	92.9	7.0

Fine fraction analysis

Sample **+55/-05/009**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	129.88	100
+2	0.32	0.326948348
-2.0 + 0.063	158.68	92.5
- 0.063 (back calc)	16.98	7.0
Total	129.88	100

Particle size	Percentage
Gravel	0.8
Sand	92.5
Silt	3.3
Clay	2.6

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.7	7.0
0.050	99.9	7.0
0.040	99.9	6.9
0.030	97.9	6.9
0.025	96.2	6.9
0.020	92.0	6.7
0.015	89.0	6.6
0.010	80.2	6.7
0.0080	65.9	3.2
0.0060	37.6	2.9
0.0050	68.8	2.6
0.0040	33.7	2.2
0.0030	29.5	2.5
0.0020	29.2	2.5
0.0015	29.3	2.5
0.0010	29.9	2.5

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/700**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 169.381 g <0.063mm 11.98 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.723	0.4	0.4	99.6
1.00	0.00	1.782	1.1	1.5	98.5
0.50	1.00	1.894	1.1	2.6	97.4
0.425	1.25	0.696	0.4	3.0	97.0
0.25	2.00	10.094	6.0	9.0	91.0
0.125	3.00	110.416	65.2	74.2	25.8
0.063	4.00	31.795	18.8	92.9	7.1

Fine fraction analysis

Sample **+55/-05/700**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	169.38	100
+2	0.72	0.426848348
-2.0 + 0.063	156.68	92.5
- 0.063 (back calc)	11.98	7.1
Total	169.38	100

Particle size	Percentage
Gravel	0.4
Sand	92.5
Silt	4.7
Clay	2.4

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.4	7.0
0.050	98.9	7.0
0.040	97.9	6.9
0.030	95.9	6.8
0.025	94.2	6.7
0.020	92.1	6.5
0.015	89.2	6.3
0.010	80.2	5.7
0.0080	55.8	3.9
0.0060	34.6	2.4
0.0050	33.9	2.4
0.0040	33.7	2.4
0.0030	33.5	2.4
0.0020	33.3	2.4
0.0015	33.3	2.4
0.0010	33.3	2.4

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/701**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 156.101 g <0.063mm 4.53 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	4.155	2.7	2.7	97.3
1.00	0.00	3.537	2.3	4.9	95.1
0.50	1.00	15.194	9.7	14.7	85.3
0.425	1.25	8.515	5.5	20.1	79.9
0.25	2.00	69.099	44.3	64.4	35.6
0.125	3.00	47.598	30.5	94.9	5.1
0.063	4.00	3.473	2.2	97.1	2.9

Fine fraction analysis

Sample **+55/-05/701**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	156.10	100
+2	4.16	2.661738234
-2.0 + 0.063	147.42	94.4
- 0.063 (back calc)	4.53	2.9
Total	156.10	100

Particle size	Percentage
Gravel	2.7
Sand	94.4
Silt	1.7
Clay	1.2

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.5	2.9
0.050	98.6	2.9
0.040	97.4	2.8
0.030	95.9	2.8
0.025	95.0	2.8
0.020	94.3	2.7
0.015	92.2	2.7
0.010	87.3	2.5
0.0080	78.9	2.3
0.0060	53.9	1.6
0.0050	44.8	1.3
0.0040	43.1	1.3
0.0030	42.4	1.2
0.0020	41.9	1.2
0.0015	41.8	1.2
0.0010	42.4	1.2

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/702**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 170.36 g <0.063mm 6.42 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	5.627	3.3	3.3	96.7
1.00	0.00	4.406	2.6	5.9	94.1
0.50	1.00	17.222	10.1	16.0	84.0
0.425	1.25	12.62	7.4	23.4	76.6
0.25	2.00	91.353	53.6	77.0	23.0
0.125	3.00	30.15	17.7	94.7	5.3
0.063	4.00	2.561	1.5	96.2	3.8

Fine fraction analysis

Sample **+55/-05/702**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	170.36	100
+2	5.63	3.3030054
-2.0 + 0.063	158.31	92.9
- 0.063 (back calc)	6.42	3.8
Total	170.36	100

Particle size	Percentage
Gravel	3.3
Sand	92.9
Silt	2.5
Clay	1.3

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.9	3.7
0.050	98.8	3.7
0.040	98.1	3.7
0.030	96.0	3.6
0.025	94.1	3.5
0.020	91.5	3.4
0.015	88.5	3.3
0.010	93.0	3.5
0.0080	70.0	2.6
0.0060	40.5	1.5
0.0050	36.2	1.4
0.0040	35.7	1.3
0.0030	35.2	1.3
0.0020	35.1	1.3
0.0015	34.8	1.3
0.0010	35.0	1.3

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/703**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 146.111 g <0.063mm 5.97 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	16.107	11.0	11.0	89.0
1.00	0.00	3.1	2.1	13.1	86.9
0.50	1.00	2.498	1.7	14.9	85.1
0.425	1.25	1.582	1.1	15.9	84.1
0.25	2.00	71.002	48.6	64.5	35.5
0.125	3.00	45.143	30.9	95.4	4.6
0.063	4.00	0.708	0.5	95.9	4.1

Fine fraction analysis

Sample **+55/-05/703**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	146.11	100
+2	16.11	11.02381066
-2.0 + 0.063	124.03	84.9
- 0.063 (back calc)	5.97	4.1
Total	146.11	100

Particle size	Percentage
Gravel	11.0
Sand	84.9
Silt	2.5
Clay	1.6

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	101.1	4.1
0.050	101.0	4.1
0.040	100.6	4.1
0.030	100.2	4.1
0.025	100.1	4.1
0.020	100.0	4.1
0.015	99.9	4.1
0.010	99.3	4.1
0.0080	99.2	4.1
0.0060	98.8	4.0
0.0050	97.9	4.0
0.0040	97.3	4.0
0.0030	90.0	3.7
0.0020	39.1	1.6
0.0015	35.6	1.5
0.0010	35.6	1.5

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/704**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 127.179 g <0.063mm 5.92 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.993	0.8	0.8	99.2
1.00	0.00	1.145	0.9	1.7	98.3
0.50	1.00	3.202	2.5	4.2	95.8
0.425	1.25	2.904	2.3	6.5	93.5
0.25	2.00	72.496	57.0	63.5	36.5
0.125	3.00	39.636	31.2	94.7	5.3
0.063	4.00	0.884	0.7	95.3	4.7

Fine fraction analysis

Sample **+55/-05/704**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	127.18	100
+2	0.99	0.780789281
-2.0 + 0.063	120.27	94.6
- 0.063 (back calc)	5.92	4.7
Total	127.18	100

Particle size	Percentage
Gravel	0.8
Sand	94.6
Silt	3.2
Clay	1.5

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.5	4.6
0.050	99.7	4.6
0.040	99.9	4.6
0.030	99.8	4.6
0.025	99.7	4.6
0.020	99.5	4.6
0.015	99.5	4.6
0.010	98.9	4.6
0.0080	98.6	4.6
0.0060	97.6	4.5
0.0050	96.8	4.5
0.0040	95.6	4.4
0.0030	88.3	4.1
0.0020	31.5	1.5
0.0015	25.6	1.2
0.0010	25.5	1.2

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/705**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 134.043 g <0.063mm 10.80 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	16.804	12.5	12.5	87.5
1.00	0.00	4.592	3.4	16.0	84.0
0.50	1.00	7.901	5.9	21.9	78.1
0.425	1.25	2.808	2.1	24.0	76.0
0.25	2.00	22.084	16.5	40.4	59.6
0.125	3.00	61.602	46.0	86.4	13.6
0.063	4.00	7.452	5.6	91.9	8.1

Fine fraction analysis

Sample **+55/-05/705**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	134.04	100
+2	16.80	12.53627567
-2.0 + 0.063	106.44	79.4
- 0.063 (back calc)	10.80	8.1
Total	134.04	100

Particle size	Percentage
Gravel	12.5
Sand	79.4
Silt	7.0
Clay	1.1

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.1	7.9
0.050	98.3	7.9
0.040	99.0	8.0
0.030	99.9	8.0
0.025	99.3	8.0
0.020	97.7	7.9
0.015	96.3	7.8
0.010	93.0	7.5
0.0080	90.6	7.3
0.0060	86.7	7.0
0.0050	83.6	6.7
0.0040	75.9	6.1
0.0030	40.4	3.3
0.0020	14.2	1.1
0.0015	13.8	1.1
0.0010	13.7	1.1

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/706**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 181.881 g <0.063mm 2.26 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0.851	0.5	0.5	99.5
0.50	1.00	23.138	12.7	13.2	86.8
0.425	1.25	17.428	9.6	22.8	77.2
0.25	2.00	80.362	44.2	67.0	33.0
0.125	3.00	56.852	31.3	98.2	1.8
0.063	4.00	0.991	0.5	98.8	1.2

Fine fraction analysis

Sample **+55/-05/706**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	181.88	100
+2	0.00	0
-2.0 + 0.063	179.62	98.8
- 0.063 (back calc)	2.26	1.2
Total	181.88	100

Particle size	Percentage
Gravel	0.0
Sand	98.8
Silt	0.5
Clay	0.7

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.0	1.2
0.050	99.1	1.2
0.040	99.0	1.2
0.030	98.1	1.2
0.025	97.5	1.2
0.020	96.5	1.2
0.015	93.9	1.2
0.010	74.4	0.9
0.0080	61.5	0.8
0.0060	58.3	0.7
0.0050	58.0	0.7
0.0040	57.8	0.7
0.0030	57.5	0.7
0.0020	56.9	0.7
0.0015	56.7	0.7
0.0010	56.4	0.7

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/707**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 145.937 g <0.063mm 6.58 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.684	0.5	0.5	99.5
1.00	0.00	0.636	0.4	0.9	99.1
0.50	1.00	2.201	1.5	2.4	97.6
0.425	1.25	1.54	1.1	3.5	96.5
0.25	2.00	21.643	14.8	18.3	81.7
0.125	3.00	107.259	73.5	91.8	8.2
0.063	4.00	5.394	3.7	95.5	4.5

Fine fraction analysis

Sample **+55/-05/707**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	145.94	100
+2	0.68	0.468695396
-2.0 + 0.063	138.67	95.0
- 0.063 (back calc)	6.58	4.5
Total	145.94	100

Particle size	Percentage
Gravel	0.5
Sand	95.0
Silt	0.4
Clay	4.1

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.0	4.5
0.050	99.1	4.5
0.040	99.5	4.5
0.030	99.5	4.5
0.025	99.0	4.5
0.020	99.0	4.5
0.015	99.0	4.5
0.010	99.1	4.5
0.0080	99.1	4.5
0.0060	98.5	4.4
0.0050	98.4	4.4
0.0040	97.6	4.4
0.0030	95.6	4.3
0.0020	90.9	4.1
0.0015	61.3	2.8
0.0010	43.8	2.0

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/708**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 159.297 g <0.063mm 5.44 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	2.589	1.6	1.6	98.4
1.00	0.00	0.944	0.6	2.2	97.8
0.50	1.00	3.386	2.1	4.3	95.7
0.425	1.25	2.909	1.8	6.2	93.8
0.25	2.00	40.209	25.2	31.4	68.6
0.125	3.00	97.993	61.5	92.9	7.1
0.063	4.00	5.829	3.7	96.6	3.4

Fine fraction analysis

Sample **+55/-05/708**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	159.30	100
+2	2.59	1.625266013
-2.0 + 0.063	151.27	95.0
- 0.063 (back calc)	5.44	3.4
Total	159.30	100

Particle size	Percentage
Gravel	1.6
Sand	95.0
Silt	2.3
Clay	1.1

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	100.4	3.4
0.050	100.4	3.4
0.040	100.2	3.4
0.030	99.2	3.4
0.025	98.5	3.4
0.020	97.3	3.3
0.015	96.0	3.3
0.010	91.3	3.1
0.0080	89.5	3.1
0.0060	85.5	2.9
0.0050	82.4	2.8
0.0040	70.8	2.4
0.0030	37.4	1.3
0.0020	31.5	1.1
0.0015	31.4	1.1
0.0010	31.4	1.1

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/709**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 150.114 g <0.063mm 29.91 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	2.75	1.8	1.8	98.2
1.00	0.00	0.351	0.2	2.1	97.9
0.50	1.00	0.75	0.5	2.6	97.4
0.425	1.25	0.358	0.2	2.8	97.2
0.25	2.00	2.555	1.7	4.5	95.5
0.125	3.00	65.993	44.0	48.5	51.5
0.063	4.00	47.446	31.6	80.1	19.9

Fine fraction analysis

Sample **+55/-05/709**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	150.11	100
+2	2.75	1.831941058
-2.0 + 0.063	117.45	78.2
- 0.063 (back calc)	29.91	19.9
Total	150.11	100

Particle size	Percentage
Gravel	1.8
Sand	78.2
Silt	17.0
Clay	2.9

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.9	19.7
0.050	98.6	19.6
0.040	97.5	19.4
0.030	93.7	18.7
0.025	90.5	18.0
0.020	86.7	17.3
0.015	82.0	16.3
0.010	75.0	14.9
0.0080	66.9	13.3
0.0060	33.1	6.6
0.0050	17.7	3.5
0.0040	15.2	3.0
0.0030	14.6	2.9
0.0020	14.6	2.9
0.0015	14.4	2.9
0.0010	14.4	2.9

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/710**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 315.83 g <0.063mm 123.30 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	3.95	1.3	1.3	98.7
1.00	0.00	0.54	0.2	1.4	98.6
0.50	1.00	0.86	0.3	1.7	98.3
0.425	1.25	0.51	0.2	1.9	98.1
0.25	2.00	3.84	1.2	3.1	96.9
0.125	3.00	86.92	27.5	30.6	69.4
0.063	4.00	95.91	30.4	61.0	39.0

Fine fraction analysis

Sample **+55/-05/710**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	315.83	100.00
+2	3.95	1.25
-2.0 + 0.063	188.58	59.71
- 0.063 (back calc)	123.30	39.04
Total	315.83	100

Particle size	Percentage
Gravel	1.3
Sand	59.7
Silt	35.6
Clay	3.4

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.3	38.8
0.050	98.9	38.6
0.040	97.6	38.1
0.030	96.0	37.5
0.025	94.8	37.0
0.020	90.2	35.2
0.015	84.7	33.1
0.010	81.3	31.7
0.0080	76.5	29.9
0.0060	65.3	25.5
0.0050	55.9	21.8
0.0040	30.0	11.7
0.0030	9.1	3.6
0.0020	8.8	3.4
0.0015	8.9	3.5

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/711**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 151.967 g <0.063mm 6.61 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	26.418	17.4	17.4	82.6
1.00	0.00	12.031	7.9	25.3	74.7
0.50	1.00	27.656	18.2	43.5	56.5
0.425	1.25	13.748	9.0	52.5	47.5
0.25	2.00	41.91	27.6	80.1	19.9
0.125	3.00	18.728	12.3	92.4	7.6
0.063	4.00	4.863	3.2	95.6	4.4

Fine fraction analysis

Sample **+55/-05/711**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	151.97	100
+2	26.42	17.38403732
-2.0 + 0.063	118.94	78.3
- 0.063 (back calc)	6.61	4.4
Total	151.97	100

Particle size	Percentage
Gravel	17.4
Sand	78.3
Silt	3.6
Clay	0.8

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	97.8	4.3
0.050	97.2	4.2
0.040	95.8	4.2
0.030	92.2	4.0
0.025	88.9	3.9
0.020	84.9	3.7
0.015	81.2	3.5
0.010	76.1	3.3
0.0080	72.1	3.1
0.0060	50.9	2.2
0.0050	28.2	1.2
0.0040	19.0	0.8
0.0030	18.5	0.8
0.0020	18.0	0.8
0.0015	18.0	0.8
0.0010	18.2	0.8

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/712**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 177.283 g <0.063mm 1.97 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0.721	0.4	0.4	99.6
0.50	1.00	11.463	6.5	6.9	93.1
0.425	1.25	10.765	6.1	12.9	87.1
0.25	2.00	71.596	40.4	53.3	46.7
0.125	3.00	78.883	44.5	97.8	2.2
0.063	4.00	1.887	1.1	98.9	1.1

Fine fraction analysis

Sample **+55/-05/712**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	177.28	100
+2	0.00	0
-2.0 + 0.063	175.32	98.9
- 0.063 (back calc)	1.97	1.1
Total	177.28	100

Particle size	Percentage
Gravel	0.0
Sand	98.9
Silt	0.8
Clay	0.3

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	100.4	1.1
0.050	100.4	1.1
0.040	100.2	1.1
0.030	99.2	1.1
0.025	98.5	1.1
0.020	97.3	1.1
0.015	96.0	1.1
0.010	91.3	1.0
0.0080	89.5	1.0
0.0060	85.5	0.9
0.0050	82.4	0.9
0.0040	70.8	0.8
0.0030	37.4	0.4
0.0020	31.5	0.3
0.0015	31.4	0.3
0.0010	31.4	0.3

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/713**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 142.891 g <0.063mm 3.91 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	1.15	0.8	0.8	99.2
1.00	0.00	0.331	0.2	1.0	99.0
0.50	1.00	3.007	2.1	3.1	96.9
0.425	1.25	3.462	2.4	5.6	94.4
0.25	2.00	25.864	18.1	23.7	76.3
0.125	3.00	90.583	63.4	87.1	12.9
0.063	4.00	14.586	10.2	97.3	2.7

Fine fraction analysis

Sample **+55/-05/713**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	142.89	100
+2	1.15	0.80480926
-2.0 + 0.063	137.83	96.5
- 0.063 (back calc)	3.91	2.7
Total	142.89	100

Particle size	Percentage
Gravel	0.8
Sand	96.5
Silt	1.7
Clay	1.0

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.6	2.7
0.050	99.3	2.7
0.040	98.7	2.7
0.030	97.5	2.7
0.025	97.0	2.7
0.020	96.3	2.6
0.015	94.0	2.6
0.010	90.1	2.5
0.0080	87.0	2.4
0.0060	76.7	2.1
0.0050	58.8	1.6
0.0040	39.2	1.1
0.0030	36.1	1.0
0.0020	35.6	1.0
0.0015	35.7	1.0
0.0010	36.9	1.0

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/714**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 143.281 g <0.063mm 2.20 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.099	0.1	0.1	99.9
1.00	0.00	0.21	0.1	0.2	99.8
0.50	1.00	2.86	2.0	2.2	97.8
0.425	1.25	2.61	1.8	4.0	96.0
0.25	2.00	65.933	46.0	50.0	50.0
0.125	3.00	66.913	46.7	96.8	3.2
0.063	4.00	2.452	1.7	98.5	1.5

Fine fraction analysis

Sample **+55/-05/714**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	143.28	100
+2	0.10	0.069094995
-2.0 + 0.063	140.98	98.4
- 0.063 (back calc)	2.20	1.5
Total	143.28	100

Particle size	Percentage
Gravel	0.1
Sand	98.4
Silt	0.8
Clay	0.7

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.3	1.5
0.050	99.2	1.5
0.040	99.0	1.5
0.030	98.7	1.5
0.025	98.2	1.5
0.020	97.5	1.5
0.015	95.2	1.5
0.010	89.4	1.4
0.0080	80.1	1.2
0.0060	61.6	0.9
0.0050	56.7	0.9
0.0040	54.8	0.8
0.0030	49.7	0.8
0.0020	45.7	0.7
0.0015	43.2	0.7
0.0010	45.8	0.7

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/715**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 155.748 g <0.063mm 1.92 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	2.459	1.6	1.6	98.4
0.50	1.00	35.289	22.7	24.2	75.8
0.425	1.25	22.56	14.5	38.7	61.3
0.25	2.00	70.944	45.6	84.3	15.7
0.125	3.00	22.367	14.4	98.6	1.4
0.063	4.00	0.205	0.1	98.8	1.2

Fine fraction analysis

Sample **+55/-05/715**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	155.75	100
+2	0.00	0
-2.0 + 0.063	153.82	98.8
- 0.063 (back calc)	1.92	1.2
Total	155.75	100

Particle size	Percentage
Gravel	0.0
Sand	98.8
Silt	0.4
Clay	0.8

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.3	1.2
0.050	98.8	1.2
0.040	97.2	1.2
0.030	94.8	1.2
0.025	93.6	1.2
0.020	92.0	1.1
0.015	89.4	1.1
0.010	82.8	1.0
0.0080	79.6	1.0
0.0060	76.1	0.9
0.0050	74.4	0.9
0.0040	71.5	0.9
0.0030	67.9	0.8
0.0020	63.8	0.8
0.0015	62.0	0.8
0.0010	60.4	0.7

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/716**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab Sample
 Date:

Coarse fraction sieving

Starting wt/g 149.797 g <0.063mm 1.31 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.097	0.1	0.1	99.9
1.00	0.00	3.095	2.1	2.1	97.9
0.50	1.00	37.67	25.1	27.3	72.7
0.425	1.25	23.848	15.9	43.2	56.8
0.25	2.00	63.107	42.1	85.3	14.7
0.125	3.00	20.531	13.7	99.0	1.0
0.063	4.00	0.142	0.1	99.1	0.9

Fine fraction analysis

Sample **+55/-05/716**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	149.80	100
+2	0.10	0.064754301
-2.0 + 0.063	148.39	99.1
- 0.063 (back calc)	1.31	0.9
Total	149.80	100

Particle size	Percentage
Gravel	0.1
Sand	99.1
Silt	0.9
Clay	

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	0.0	
0.050	0.0	
0.040	0.0	
0.030	0.0	
0.025	0.0	
0.020	0.0	
0.015	0.0	
0.010	0.0	
0.0080	0.0	
0.0060	0.0	
0.0050	0.0	
0.0040	0.0	
0.0030	0.0	
0.0020	0.0	
0.0015	0.0	
0.0010	0.0	

No Sedigraph analysis

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/717**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 295.301 g <0.063mm 13.56 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	143.386	48.6	48.6	51.4
1.00	0.00	20.11	6.8	55.4	44.6
0.50	1.00	20.93	7.1	62.5	37.5
0.425	1.25	8.48	2.9	65.3	34.7
0.25	2.00	33.069	11.2	76.5	23.5
0.125	3.00	42.715	14.5	91.0	9.0
0.063	4.00	13.047	4.4	95.4	4.6

Fine fraction analysis

Sample **+55/-05/717**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	295.30	100
+2	143.39	48.5588027
-2.0 + 0.063	138.35	46.9
- 0.063 (back calc)	13.56	4.6
Total	295.30	100

Particle size	Percentage
Gravel	48.6
Sand	46.9
Silt	3.6
Clay	1.0

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.6	4.6
0.050	99.5	4.6
0.040	99.0	4.5
0.030	97.5	4.5
0.025	96.3	4.4
0.020	94.4	4.3
0.015	91.8	4.2
0.010	86.0	4.0
0.0080	74.0	3.4
0.0060	33.3	1.5
0.0050	22.6	1.0
0.0040	21.6	1.0
0.0030	21.4	1.0
0.0020	21.1	1.0
0.0015	21.1	1.0
0.0010	20.6	0.9

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/718**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 160.733 g <0.063mm 10.73 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	1.624	1.0	1.0	99.0
1.00	0.00	0.837	0.5	1.5	98.5
0.50	1.00	1.699	1.1	2.6	97.4
0.425	1.25	0.898	0.6	3.1	96.9
0.25	2.00	12.263	7.6	10.8	89.2
0.125	3.00	117.491	73.1	83.9	16.1
0.063	4.00	15.195	9.5	93.3	6.7

Fine fraction analysis

Sample **+55/-05/718**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	160.73	100
+2	1.62	1.010371237
-2.0 + 0.063	148.38	92.3
- 0.063 (back calc)	10.73	6.7
Total	160.73	100

Particle size	Percentage
Gravel	1.0
Sand	92.3
Silt	4.7
Clay	2.0

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.6	6.6
0.050	99.4	6.6
0.040	99.5	6.6
0.030	99.9	6.7
0.025	100.2	6.7
0.020	99.7	6.7
0.015	97.6	6.5
0.010	97.0	6.5
0.0080	95.6	6.4
0.0060	91.6	6.1
0.0050	85.8	5.7
0.0040	62.4	4.2
0.0030	31.7	2.1
0.0020	29.9	2.0
0.0015	29.9	2.0
0.0010	29.8	2.0

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/719**
 Description:

Country: UK
 O/S Ref:
 Depth: Grab sample
 Date:

Coarse fraction sieving

Starting wt/g 195.276 g <0.063mm 13.14 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	1.449	0.7	0.7	99.3
1.00	0.00	1.273	0.7	1.4	98.6
0.50	1.00	1.748	0.9	2.3	97.7
0.425	1.25	0.965	0.5	2.8	97.2
0.25	2.00	14.166	7.3	10.0	90.0
0.125	3.00	138.911	71.1	81.2	18.8
0.063	4.00	23.627	12.1	93.3	6.7

Fine fraction analysis

Sample **+55/-05/719**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	195.28	100
+2	1.45	0.74202667
-2.0 + 0.063	180.69	92.5
- 0.063 (back calc)	13.14	6.7
Total	195.28	100

Particle size	Percentage
Gravel	0.7
Sand	92.5
Silt	4.8
Clay	1.9

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.5	6.7
0.050	99.6	6.7
0.040	99.6	6.7
0.030	99.3	6.7
0.025	98.3	6.6
0.020	96.5	6.5
0.015	92.6	6.2
0.010	87.2	5.9
0.0080	83.5	5.6
0.0060	69.9	4.7
0.0050	46.7	3.1
0.0040	29.9	2.0
0.0030	28.5	1.9
0.0020	28.6	1.9
0.0015	28.6	1.9
0.0010	28.8	1.9

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/619C/1**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.00-0.15m
 Date:

Coarse fraction sieving

Starting wt/g 58.606 g **<0.063mm** 24.27 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.396	0.7	0.7	99.3
1.00	0.00	0.598	1.0	1.7	98.3
0.50	1.00	0.517	0.9	2.6	97.4
0.425	1.25	0.146	0.2	2.8	97.2
0.25	2.00	0.383	0.7	3.5	96.5
0.125	3.00	7.927	13.5	17.0	83.0
0.063	4.00	24.367	41.6	58.6	41.4

Fine fraction analysis

Sample **+55/-05/619C/1**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	58.61	100
+2	0.40	0.675698734
-2.0 + 0.063	33.94	57.9
- 0.063 (back calc)	24.27	41.4
Total	58.61	100

Particle size	Percentage
Gravel	0.7
Sand	57.9
Silt	36.5
Clay	4.9

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	97.8	40.5
0.050	97.5	40.4
0.040	96.9	40.1
0.030	94.5	39.1
0.025	91.8	38.0
0.020	87.8	36.4
0.015	83.9	34.7
0.010	79.7	33.0
0.0080	74.3	30.8
0.0060	47.8	19.8
0.0050	23.6	9.8
0.0040	15.4	6.4
0.0030	13.0	5.4
0.0020	11.8	4.9
0.0015	11.8	4.9
0.0010	11.7	4.8

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/619C/2**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.15-0.29m
 Date:

Coarse fraction sieving

Starting wt/g 53.548 g **<0.063mm** 26.23 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.299	0.6	0.6	99.4
1.00	0.00	0.081	0.2	0.7	99.3
0.50	1.00	0.3	0.6	1.3	98.7
0.425	1.25	0.12	0.2	1.5	98.5
0.25	2.00	0.316	0.6	2.1	97.9
0.125	3.00	6.904	12.9	15.0	85.0
0.063	4.00	19.3	36.0	51.0	49.0

Fine fraction analysis

Sample **+55/-05/619C/2**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	53.55	100.00
+2	0.30	0.56
-2.0 + 0.063	27.02	50.46
- 0.063 (back calc)	26.23	48.98
Total	53.55	100

Particle size	Percentage
Gravel	0.6
Sand	50.5
Silt	43.6
Clay	5.4

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.6	48.3
0.050	98.5	48.2
0.040	97.8	47.9
0.030	94.8	46.4
0.025	92.5	45.3
0.020	90.0	44.1
0.015	87.6	42.9
0.010	82.7	40.5
0.0080	78.3	38.4
0.0060	70.7	34.6
0.0050	62.8	30.8
0.0040	37.9	18.6
0.0030	12.1	5.9
0.0020	11.0	5.4
0.0015	11.5	5.6
0.0010	14.0	6.9

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/619C/3**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.29-0.60m
 Date:

Coarse fraction sieving

Starting wt/g 118.604 g <0.063mm 82.50 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0	0.0	0.0	100.0
0.50	1.00	0	0.0	0.0	100.0
0.425	1.25	0	0.0	0.0	100.0
0.25	2.00	0.67	0.6	0.6	99.4
0.125	3.00	11.692	9.9	10.4	89.6
0.063	4.00	23.746	20.0	30.4	69.6

Fine fraction analysis

Sample **+55/-05/619C/3**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	118.60	100
+2	0.00	0
-2.0 + 0.063	36.11	30.4
- 0.063 (back calc)	82.50	69.6
Total	118.60	100

Particle size	Percentage
Gravel	0.0
Sand	30.4
Silt	59.7
Clay	9.9

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	97.1	67.5
0.050	97.0	67.5
0.040	96.5	67.1
0.030	94.3	65.6
0.025	92.4	64.3
0.020	90.0	62.6
0.015	86.7	60.3
0.010	80.6	56.1
0.0080	63.0	43.8
0.0060	21.1	14.7
0.0050	14.9	10.4
0.0040	14.4	10.0
0.0030	14.5	10.1
0.0020	14.2	9.9
0.0015	14.2	9.9
0.0010	14.2	9.9

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/619C/4**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.60-0.92m
 Date:

Coarse fraction sieving

Starting wt/g 114.551 g <0.063mm 57.12 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.132	0.1	0.1	99.9
1.00	0.00	0	0.0	0.1	99.9
0.50	1.00	0.175	0.2	0.3	99.7
0.425	1.25	0.119	0.1	0.4	99.6
0.25	2.00	0.497	0.4	0.8	99.2
0.125	3.00	24.181	21.1	21.9	78.1
0.063	4.00	32.324	28.2	50.1	49.9

Fine fraction analysis

Sample **+55/-05/619C/4**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	114.55	100
+2	0.13	0.115232517
-2.0 + 0.063	57.30	50.0
- 0.063 (back calc)	57.12	49.9
Total	114.55	100

Particle size	Percentage
Gravel	0.1
Sand	50.0
Silt	42.3
Clay	7.6

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.1	48.9
0.050	97.9	48.8
0.040	97.5	48.6
0.030	95.7	47.7
0.025	93.9	46.8
0.020	91.3	45.5
0.015	88.2	44.0
0.010	85.3	42.5
0.0080	81.9	40.8
0.0060	65.4	32.6
0.0050	38.5	19.2
0.0040	17.5	8.7
0.0030	15.5	7.7
0.0020	15.2	7.6
0.0015	15.3	7.6
0.0010	15.1	7.5

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/619C/5**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.92-1.29m
 Date:

Coarse fraction sieving

Starting wt/g 104.378 g <0.063mm 65.77 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0	0.0	0.0	100.0
0.50	1.00	0.02	0.0	0.0	100.0
0.425	1.25	0.15	0.1	0.2	99.8
0.25	2.00	0.302	0.3	0.5	99.5
0.125	3.00	7.137	6.8	7.3	92.7
0.063	4.00	31.002	29.7	37.0	63.0

Fine fraction analysis

Sample **+55/-05/619C/5**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	104.38	100
+2	0.00	0
-2.0 + 0.063	38.61	37.0
- 0.063 (back calc)	65.77	63.0
Total	104.38	100

Particle size	Percentage
Gravel	0.0
Sand	37.0
Silt	53.7
Clay	9.3

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	97.6	61.5
0.050	96.8	61.0
0.040	95.2	60.0
0.030	92.1	58.0
0.025	90.0	56.7
0.020	88.1	55.5
0.015	85.1	53.6
0.010	80.3	50.6
0.0080	76.4	48.1
0.0060	65.5	41.3
0.0050	45.5	28.7
0.0040	20.1	12.7
0.0030	15.1	9.5
0.0020	14.7	9.3
0.0015	14.7	9.3
0.0010	14.5	9.1

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/643C/1**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.00-0.24m
 Date:

Coarse fraction sieving

Starting wt/g 91.54 g <0.063mm 33.13 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	2.355	2.6	2.6	97.4
1.00	0.00	0.848	0.9	3.5	96.5
0.50	1.00	0.98	1.1	4.6	95.4
0.425	1.25	0.295	0.3	4.9	95.1
0.25	2.00	1.174	1.3	6.2	93.8
0.125	3.00	15.739	17.2	23.4	76.6
0.063	4.00	37.022	40.4	63.8	36.2

Fine fraction analysis

Sample **+55/-05/643C/1**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	91.54	100
+2	2.36	2.572645838
-2.0 + 0.063	56.06	61.2
- 0.063 (back calc)	33.13	36.2
Total	91.54	100

Particle size	Percentage
Gravel	2.6
Sand	61.2
Silt	32.1
Clay	4.1

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.4	36.0
0.050	99.5	36.0
0.040	99.4	36.0
0.030	99.3	35.9
0.025	99.3	35.9
0.020	98.5	35.6
0.015	95.5	34.6
0.010	91.1	33.0
0.0080	89.6	32.4
0.0060	84.0	30.4
0.0050	74.7	27.0
0.0040	43.8	15.9
0.0030	12.8	4.6
0.0020	11.4	4.1
0.0015	11.2	4.1
0.0010	11.2	4.1

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/643C/2**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.26-0.46m
 Date:

Coarse fraction sieving

Starting wt/g 64.878 g <0.063mm 37.86 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.419	0.6	0.6	99.4
1.00	0.00	0.11	0.2	0.8	99.2
0.50	1.00	0.168	0.3	1.1	98.9
0.425	1.25	0.14	0.2	1.3	98.7
0.25	2.00	0.843	1.3	2.6	97.4
0.125	3.00	2.118	3.3	5.9	94.1
0.063	4.00	23.216	35.8	41.6	58.4

Fine fraction analysis

Sample **+55/-05/643C/2**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	64.88	100.00
+2	0.42	0.65
-2.0 + 0.063	26.60	40.99
- 0.063 (back calc)	37.86	58.36
Total	64.88	100

Particle size	Percentage
Gravel	0.6
Sand	41.0
Silt	51.0
Clay	7.4

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.6	57.5
0.050	98.4	57.4
0.040	96.9	56.6
0.030	94.2	55.0
0.025	92.7	54.1
0.020	90.4	52.8
0.015	85.9	50.1
0.010	77.4	45.2
0.0080	71.0	41.4
0.0060	49.3	28.8
0.0050	26.7	15.6
0.0040	14.0	8.2
0.0030	13.1	7.6
0.0020	12.6	7.4
0.0015	12.1	7.1
0.0010	13.6	7.9

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/643C/3**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.46-066m
 Date:

Coarse fraction sieving

Starting wt/g 80.193 g **<0.063mm** 59.18 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	1.501	1.9	1.9	98.1
1.00	0.00	0.295	0.4	2.2	97.8
0.50	1.00	0.321	0.4	2.6	97.4
0.425	1.25	0.189	0.2	2.9	97.1
0.25	2.00	1.175	1.5	4.3	95.7
0.125	3.00	2.818	3.5	7.9	92.1
0.063	4.00	14.717	18.4	26.2	73.8

Fine fraction analysis

Sample **+55/-05/643C/3**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	80.19	100
+2	1.50	1.871734441
-2.0 + 0.063	19.52	24.3
- 0.063 (back calc)	59.18	73.8
Total	80.19	100

Particle size	Percentage
Gravel	1.9
Sand	24.3
Silt	66.3
Clay	7.5

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.8	73.6
0.050	99.4	73.4
0.040	98.7	72.8
0.030	97.0	71.6
0.025	94.9	70.0
0.020	91.9	67.8
0.015	87.9	64.9
0.010	81.2	59.9
0.0080	77.2	57.0
0.0060	68.8	50.8
0.0050	54.0	39.8
0.0040	23.2	17.1
0.0030	10.4	7.7
0.0020	10.1	7.5
0.0015	9.8	7.2
0.0010	9.9	7.3

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/643C/4**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.69-0.99m
 Date:

Coarse fraction sieving

Starting wt/g 66.414 g <0.063mm 65.22 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0	0.0	0.0	100.0
0.50	1.00	0	0.0	0.0	100.0
0.425	1.25	0	0.0	0.0	100.0
0.25	2.00	0.411	0.6	0.6	99.4
0.125	3.00	0.225	0.3	1.0	99.0
0.063	4.00	0.561	0.8	1.8	98.2

Fine fraction analysis

Sample **+55/-05/643C/4**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	66.41	100.00
+2	0.00	0.00
-2.0 + 0.063	1.20	1.80
- 0.063 (back calc)	65.22	98.20
Total	66.41	100

Particle size	Percentage
Gravel	0.0
Sand	1.8
Silt	87.0
Clay	11.2

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.5	96.7
0.050	98.3	96.5
0.040	96.9	95.2
0.030	93.6	91.9
0.025	91.1	89.5
0.020	87.2	85.6
0.015	82.0	80.5
0.010	73.6	72.3
0.0080	66.7	65.5
0.0060	51.6	50.7
0.0050	36.3	35.6
0.0040	19.2	18.9
0.0030	13.2	13.0
0.0020	11.4	11.2
0.0015	10.1	9.9
0.0010	6.4	6.3

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/643C/5**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.99-1.29m
 Date:

Coarse fraction sieving

Starting wt/g 51.833 g <0.063mm 51.36 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0	0.0	0.0	100.0
0.50	1.00	0	0.0	0.0	100.0
0.425	1.25	0	0.0	0.0	100.0
0.25	2.00	0	0.0	0.0	100.0
0.125	3.00	0.125	0.2	0.2	99.8
0.063	4.00	0.345	0.7	0.9	99.1

Fine fraction analysis

Sample **+55/-05/643C/5**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	51.83	100.00
+2	0.00	0.00
-2.0 + 0.063	0.47	0.91
- 0.063 (back calc)	51.36	99.09
Total	51.83	100

Particle size	Percentage
Gravel	0.0
Sand	0.9
Silt	82.6
Clay	16.5

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.8	98.9
0.050	99.5	98.6
0.040	98.9	98.0
0.030	97.3	96.4
0.025	95.7	94.8
0.020	93.1	92.3
0.015	88.7	87.9
0.010	82.4	81.7
0.0080	78.7	78.0
0.0060	71.0	70.4
0.0050	56.3	55.8
0.0040	27.7	27.4
0.0030	17.0	16.8
0.0020	16.7	16.5
0.0015	16.2	16.1
0.0010	13.7	13.6

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/680C/1**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.00-0.17m
 Date:

Coarse fraction sieving

Starting wt/g 78.704 g **<0.063mm** 4.91 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	3.379	4.3	4.3	95.7
1.00	0.00	0.478	0.6	4.9	95.1
0.50	1.00	1.929	2.5	7.4	92.6
0.425	1.25	1.746	2.2	9.6	90.4
0.25	2.00	26.101	33.2	42.7	57.3
0.125	3.00	36.056	45.8	88.5	11.5
0.063	4.00	4.106	5.2	93.8	6.2

Fine fraction analysis

Sample **+55/-05/680C/1**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	78.70	100.00
+2	3.38	4.29
-2.0 + 0.063	70.42	89.47
- 0.063 (back calc)	4.91	6.24
Total	78.70	100

Particle size	Percentage
Gravel	4.3
Sand	89.5
Silt	3.9
Clay	2.3

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	95.4	6.0
0.050	95.5	6.0
0.040	95.7	6.0
0.030	96.0	6.0
0.025	96.4	6.0
0.020	96.4	6.0
0.015	95.8	6.0
0.010	92.4	5.8
0.0080	88.0	5.5
0.0060	71.9	4.5
0.0050	53.2	3.3
0.0040	40.7	2.5
0.0030	38.4	2.4
0.0020	37.4	2.3
0.0015	37.4	2.3
0.0010	37.0	2.3

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/680C/2**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.17-0.44
 Date:

Coarse fraction sieving

Starting wt/g 123.252 g <0.063mm 32.81 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	3.072	2.5	2.5	97.5
1.00	0.00	0.172	0.1	2.6	97.4
0.50	1.00	0.833	0.7	3.3	96.7
0.425	1.25	0.719	0.6	3.9	96.1
0.25	2.00	17.02	13.8	17.7	82.3
0.125	3.00	39.364	31.9	49.6	50.4
0.063	4.00	29.26	23.7	73.4	26.6

Fine fraction analysis

Sample **+55/-05/680C/2**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	123.25	100
+2	3.07	2.492454483
-2.0 + 0.063	87.37	70.9
- 0.063 (back calc)	32.81	26.6
Total	123.25	100

Particle size	Percentage
Gravel	2.5
Sand	70.9
Silt	25.7
Clay	0.9

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	100.2	26.7
0.050	99.9	26.6
0.040	98.2	26.1
0.030	93.0	24.8
0.025	88.7	23.6
0.020	83.5	22.2
0.015	76.3	20.3
0.010	67.1	17.9
0.0080	56.2	15.0
0.0060	20.9	5.6
0.0050	6.1	1.6
0.0040	3.9	1.0
0.0030	3.8	1.0
0.0020	3.4	0.9
0.0015	3.6	1.0
0.0010	4.1	1.1

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/680C/3**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.44-0.71m
 Date:

Coarse fraction sieving

Starting wt/g 125.467 g <0.063mm 3.49 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.037	0.0	0.0	100.0
1.00	0.00	0.066	0.1	0.1	99.9
0.50	1.00	0.315	0.3	0.3	99.7
0.425	1.25	0.246	0.2	0.5	99.5
0.25	2.00	10.095	8.0	8.6	91.4
0.125	3.00	102.368	81.6	90.2	9.8
0.063	4.00	8.848	7.1	97.2	2.8

Fine fraction analysis

Sample **+55/-05/680C/3**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	125.47	100
+2	0.04	0.029489826
-2.0 + 0.063	121.94	97.2
- 0.063 (back calc)	3.49	2.8
Total	125.47	100

Particle size	Percentage
Gravel	0.0
Sand	97.2
Silt	2.1
Clay	0.7

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	96.8	2.7
0.050	96.3	2.7
0.040	95.1	2.6
0.030	92.5	2.6
0.025	90.7	2.5
0.020	88.7	2.5
0.015	86.5	2.4
0.010	81.6	2.3
0.0080	78.1	2.2
0.0060	70.4	2.0
0.0050	60.7	1.7
0.0040	40.9	1.1
0.0030	26.1	0.7
0.0020	24.3	0.7
0.0015	23.9	0.7
0.0010	23.7	0.7

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/680C/4**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.71-0.87m
 Date:

Coarse fraction sieving

Starting wt/g 128.127 g <0.063mm 5.87 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.337	0.3	0.3	99.7
1.00	0.00	0.805	0.6	0.9	99.1
0.50	1.00	3.442	2.7	3.6	96.4
0.425	1.25	1.546	1.2	4.8	95.2
0.25	2.00	12.735	9.9	14.7	85.3
0.125	3.00	91.781	71.6	86.4	13.6
0.063	4.00	11.61	9.1	95.4	4.6

Fine fraction analysis

Sample **+55/-05/680C/4**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	128.13	100
+2	0.34	0.263020285
-2.0 + 0.063	121.92	95.2
- 0.063 (back calc)	5.87	4.6
Total	128.13	100

Particle size	Percentage
Gravel	0.3
Sand	95.2
Silt	3.5
Clay	1.1

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	96.8	4.4
0.050	96.3	4.4
0.040	95.1	4.4
0.030	92.5	4.2
0.025	90.7	4.2
0.020	88.7	4.1
0.015	86.5	4.0
0.010	81.6	3.7
0.0080	78.1	3.6
0.0060	70.4	3.2
0.0050	60.7	2.8
0.0040	40.9	1.9
0.0030	26.1	1.2
0.0020	24.3	1.1
0.0015	23.9	1.1
0.0010	23.7	1.1

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/680C/5**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.87-1.10m
 Date:

Coarse fraction sieving

Starting wt/g 142.392 g <0.063mm 98.78 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.274	0.2	0.2	99.8
1.00	0.00	0.296	0.2	0.4	99.6
0.50	1.00	0.82	0.6	1.0	99.0
0.425	1.25	0.755	0.5	1.5	98.5
0.25	2.00	11.85	8.3	9.8	90.2
0.125	3.00	11.38	8.0	17.8	82.2
0.063	4.00	18.242	12.8	30.6	69.4

Fine fraction analysis

Sample **+55/-05/680C/5**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	142.39	100.00
+2	0.27	0.19
-2.0 + 0.063	43.34	30.44
- 0.063 (back calc)	98.78	69.37
Total	142.39	100

Particle size	Percentage
Gravel	0.2
Sand	30.4
Silt	52.1
Clay	17.3

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	95.6	66.3
0.050	93.8	65.1
0.040	89.8	62.3
0.030	82.3	57.1
0.025	76.6	53.1
0.020	69.2	48.0
0.015	60.2	41.8
0.010	50.1	34.8
0.0080	45.3	31.4
0.0060	40.2	27.9
0.0050	37.4	25.9
0.0040	33.8	23.4
0.0030	30.1	20.9
0.0020	25.0	17.3
0.0015	21.9	15.2
0.0010	19.6	13.6

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/683C/1**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.00-0.17m
 Date:

Coarse fraction sieving

Starting wt/g 122.204 g <0.063mm 3.76 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.751	0.6	0.6	99.4
1.00	0.00	2.182	1.8	2.4	97.6
0.50	1.00	13.11	10.7	13.1	86.9
0.425	1.25	9.928	8.1	21.3	78.7
0.25	2.00	44.125	36.1	57.4	42.6
0.125	3.00	47.086	38.5	95.9	4.1
0.063	4.00	1.261	1.0	96.9	3.1

Fine fraction analysis

Sample **+55/-05/683C/1**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	122.20	100
+2	0.75	0.614546169
-2.0 + 0.063	117.69	96.3
- 0.063 (back calc)	3.76	3.1
Total	122.20	100

Particle size	Percentage
Gravel	0.6
Sand	96.3
Silt	1.7
Clay	1.4

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.7	3.0
0.050	98.8	3.0
0.040	98.7	3.0
0.030	98.4	3.0
0.025	97.7	3.0
0.020	95.8	2.9
0.015	91.9	2.8
0.010	69.7	2.1
0.0080	51.4	1.6
0.0060	47.5	1.5
0.0050	47.3	1.5
0.0040	47.4	1.5
0.0030	47.2	1.5
0.0020	46.6	1.4
0.0015	46.6	1.4
0.0010	47.3	1.5

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/683C/2**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.17-0.34m
 Date:

Coarse fraction sieving

Starting wt/g 129.507 g <0.063mm 3.83 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	4.588	3.5	3.5	96.5
1.00	0.00	5.528	4.3	7.8	92.2
0.50	1.00	35.265	27.2	35.0	65.0
0.425	1.25	16.414	12.7	47.7	52.3
0.25	2.00	42.45	32.8	80.5	19.5
0.125	3.00	20.615	15.9	96.4	3.6
0.063	4.00	0.817	0.6	97.0	3.0

Fine fraction analysis

Sample **+55/-05/683C/2**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	129.51	100.00
+2	4.59	3.54
-2.0 + 0.063	121.09	93.50
- 0.063 (back calc)	3.83	2.96
Total	129.51	100

Particle size	Percentage
Gravel	3.5
Sand	93.5
Silt	2.6
Clay	0.4

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.8	3.0
0.050	99.5	2.9
0.040	96.8	2.9
0.030	97.2	2.9
0.025	96.3	2.8
0.020	94.6	2.8
0.015	91.1	2.7
0.010	85.9	2.5
0.0080	81.4	2.4
0.0060	63.2	1.9
0.0050	35.5	1.0
0.0040	15.1	0.4
0.0030	13.6	0.4
0.0020	13.1	0.4
0.0015	13.0	0.4
0.0010	13.8	0.4

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/683C/3**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.34-0.56m
 Date:

Coarse fraction sieving

Starting wt/g 128.656 g <0.063mm 6.63 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.882	0.7	0.7	99.3
1.00	0.00	1.635	1.3	2.0	98.0
0.50	1.00	12.281	9.5	11.5	88.5
0.425	1.25	7.67	6.0	17.5	82.5
0.25	2.00	32.463	25.2	42.7	57.3
0.125	3.00	62.699	48.7	91.4	8.6
0.063	4.00	4.394	3.4	94.8	5.2

Fine fraction analysis

Sample **+55/-05/683C/3**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	128.66	100.00
+2	0.88	0.69
-2.0 + 0.063	121.14	94.16
- 0.063 (back calc)	6.63	5.15
Total	128.66	100

Particle size	Percentage
Gravel	0.7
Sand	94.2
Silt	3.8
Clay	1.4

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	96.9	5.0
0.050	96.8	5.0
0.040	96.5	5.0
0.030	95.0	4.9
0.025	93.5	4.8
0.020	92.1	4.7
0.015	90.1	4.6
0.010	86.8	4.5
0.0080	85.0	4.4
0.0060	81.4	4.2
0.0050	76.5	3.9
0.0040	61.0	3.1
0.0030	31.9	1.6
0.0020	27.3	1.4
0.0015	27.0	1.4
0.0010	27.1	1.4

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/683C/4**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.56-0.70m
 Date:

Coarse fraction sieving

Starting wt/g 65.435 g <0.063mm 15.85 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	1.534	2.3	2.3	97.7
1.00	0.00	1.465	2.2	4.6	95.4
0.50	1.00	3.594	5.5	10.1	89.9
0.425	1.25	2.475	3.8	13.9	86.1
0.25	2.00	14.167	21.7	35.5	64.5
0.125	3.00	23.618	36.1	71.6	28.4
0.063	4.00	2.728	4.2	75.8	24.2

Fine fraction analysis

Sample **+55/-05/683C/4**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	65.44	100
+2	1.53	2.344311148
-2.0 + 0.063	48.05	73.4
- 0.063 (back calc)	15.85	24.2
Total	65.44	100

Particle size	Percentage
Gravel	2.3
Sand	73.4
Silt	18.7
Clay	5.5

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.2	23.8
0.050	97.9	23.7
0.040	97.1	23.5
0.030	95.3	23.1
0.025	94.0	22.8
0.020	92.6	22.4
0.015	90.7	22.0
0.010	87.2	21.1
0.0080	85.0	20.6
0.0060	80.9	19.6
0.0050	75.2	18.2
0.0040	55.9	13.5
0.0030	26.5	6.4
0.0020	22.8	5.5
0.0015	22.4	5.4
0.0010	22.5	5.5

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/683C/5**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.70-0.90
 Date:

Coarse fraction sieving

Starting wt/g 149.506 g <0.063mm 8.78 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	1.997	1.3	1.3	98.7
1.00	0.00	2.79	1.9	3.2	96.8
0.50	1.00	16.067	10.7	13.9	86.1
0.425	1.25	10.639	7.1	21.1	78.9
0.25	2.00	41.449	27.7	48.8	51.2
0.125	3.00	64.801	43.3	92.1	7.9
0.063	4.00	2.988	2.0	94.1	5.9

Fine fraction analysis

Sample **+55/-05/683C/5**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	149.51	100
+2	2.00	1.335732345
-2.0 + 0.063	138.73	92.8
- 0.063 (back calc)	8.78	5.9
Total	149.51	100

Particle size	Percentage
Gravel	1.3
Sand	92.8
Silt	4.2
Clay	1.7

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.7	5.8
0.050	98.3	5.8
0.040	97.3	5.7
0.030	95.2	5.6
0.025	93.5	5.5
0.020	91.5	5.4
0.015	87.7	5.1
0.010	81.9	4.8
0.0080	76.7	4.5
0.0060	61.7	3.6
0.0050	45.2	2.7
0.0040	33.1	1.9
0.0030	30.6	1.8
0.0020	29.7	1.7
0.0015	29.5	1.7
0.0010	29.5	1.7

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/688C/1**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.00-0.15
 Date:

Coarse fraction sieving

Starting wt/g 96.285 g **<0.063mm** 4.09 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0	0.0	0.0	100.0
0.50	1.00	0.079	0.1	0.1	99.9
0.425	1.25	0.111	0.1	0.2	99.8
0.25	2.00	0.3114	0.3	0.5	99.5
0.125	3.00	84.45	87.7	88.2	11.8
0.063	4.00	7.241	7.5	95.7	4.3

Fine fraction analysis

Sample **+55/-05/688C/1**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	96.29	100
+2	0.00	0
-2.0 + 0.063	92.19	95.7
- 0.063 (back calc)	4.09	4.3
Total	96.29	100

Particle size	Percentage
Gravel	0.0
Sand	95.7
Silt	1.7
Clay	2.6

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	100.2	4.3
0.050	99.7	4.2
0.040	98.6	4.2
0.030	97.3	4.1
0.025	96.5	4.1
0.020	95.3	4.1
0.015	90.5	3.8
0.010	78.0	3.3
0.0080	73.6	3.1
0.0060	71.6	3.0
0.0050	70.7	3.0
0.0040	68.0	2.9
0.0030	62.9	2.7
0.0020	60.1	2.6
0.0015	60.2	2.6
0.0010	61.3	2.6

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/688C/2**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.15-0.30m
 Date:

Coarse fraction sieving

Starting wt/g 118.695 g <0.063mm 2.49 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.403	0.3	0.3	99.7
1.00	0.00	0.179	0.2	0.5	99.5
0.50	1.00	0.498	0.4	0.9	99.1
0.425	1.25	0.436	0.4	1.3	98.7
0.25	2.00	7.259	6.1	7.4	92.6
0.125	3.00	98.443	82.9	90.3	9.7
0.063	4.00	8.99	7.6	97.9	2.1

Fine fraction analysis

Sample **+55/-05/688C/2**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	118.70	100.00
+2	0.40	0.34
-2.0 + 0.063	115.81	97.57
- 0.063 (back calc)	2.49	2.10
Total	118.70	100

Particle size	Percentage
Gravel	0.3
Sand	97.6
Silt	1.1
Clay	1.0

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	96.8	2.0
0.050	96.9	2.0
0.040	96.7	2.0
0.030	96.0	2.0
0.025	95.6	2.0
0.020	94.9	2.0
0.015	92.6	1.9
0.010	74.8	1.6
0.0080	55.0	1.2
0.0060	48.4	1.0
0.0050	8.1	0.2
0.0040	47.6	1.0
0.0030	47.0	1.0
0.0020	46.5	1.0
0.0015	46.5	1.0
0.0010	47.0	1.0

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/688C/3**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.30-0.60m
 Date:

Coarse fraction sieving

Starting wt/g 106.307 g <0.063mm 104.52 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0	0.0	0.0	100.0
0.50	1.00	0	0.0	0.0	100.0
0.425	1.25	0	0.0	0.0	100.0
0.25	2.00	0.08	0.1	0.1	99.9
0.125	3.00	1.38	1.3	1.4	98.6
0.063	4.00	0.326	0.3	1.7	98.3

Fine fraction analysis

Sample **+55/-05/688C/3**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	106.31	100.00
+2	0.00	0.00
-2.0 + 0.063	1.79	1.68
- 0.063 (back calc)	104.52	98.32
Total	106.31	100

Particle size	Percentage
Gravel	0.0
Sand	1.7
Silt	91.9
Clay	6.4

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.7	97.0
0.050	98.4	96.7
0.040	97.6	96.0
0.030	95.9	94.3
0.025	94.4	92.8
0.020	91.3	89.8
0.015	85.9	84.5
0.010	75.2	73.9
0.0080	65.9	64.8
0.0060	48.6	47.8
0.0050	37.0	36.4
0.0040	26.1	25.7
0.0030	14.9	14.6
0.0020	6.5	6.4
0.0015	3.5	3.4
0.0010	0.0	0.0

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/688C/4**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.60-0.90m
 Date:

Coarse fraction sieving

Starting wt/g 110.27 g **<0.063mm** 109.52 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0	0.0	0.0	100.0
0.50	1.00	0	0.0	0.0	100.0
0.425	1.25	0	0.0	0.0	100.0
0.25	2.00	0	0.0	0.0	100.0
0.125	3.00	0.6	0.5	0.5	99.5
0.063	4.00	0.15	0.1	0.7	99.3

Fine fraction analysis

Sample **+55/-05/688C/4**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	110.27	100.00
+2	0.00	0.00
-2.0 + 0.063	0.75	0.68
- 0.063 (back calc)	109.52	99.32
Total	110.27	100

Particle size	Percentage
Gravel	0.0
Sand	0.7
Silt	76.1
Clay	23.2

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.1	98.4
0.050	98.7	98.0
0.040	97.8	97.1
0.030	96.0	95.3
0.025	94.0	93.4
0.020	89.7	89.1
0.015	82.3	81.7
0.010	71.1	70.6
0.0080	64.8	64.4
0.0060	56.0	55.6
0.0050	51.1	50.8
0.0040	45.0	44.7
0.0030	34.8	34.6
0.0020	23.4	23.2
0.0015	19.2	19.1
0.0010	15.0	14.9

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/688C/5**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.80-1.70m
 Date:

Coarse fraction sieving

Starting wt/g 117.312 g <0.063mm 116.39 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.04	0.0	0.0	100.0
1.00	0.00	0.027	0.0	0.1	99.9
0.50	1.00	0.071	0.1	0.1	99.9
0.425	1.25	0.021	0.0	0.1	99.9
0.25	2.00	0.071	0.1	0.2	99.8
0.125	3.00	0.208	0.2	0.4	99.6
0.063	4.00	0.483	0.4	0.8	99.2

Fine fraction analysis

Sample **+55/-05/688C/5**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	117.31	100.00
+2	0.04	0.03
-2.0 + 0.063	0.88	0.75
- 0.063 (back calc)	116.39	99.21
Total	117.31	100

Particle size	Percentage
Gravel	0.0
Sand	0.8
Silt	65.0
Clay	34.2

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.2	97.4
0.050	98.2	97.4
0.040	98.1	97.3
0.030	96.5	95.7
0.025	94.6	93.9
0.020	91.4	90.7
0.015	85.2	84.5
0.010	74.3	73.7
0.0080	67.8	67.3
0.0060	59.5	59.0
0.0050	54.6	54.2
0.0040	48.8	48.4
0.0030	41.9	41.6
0.0020	34.5	34.2
0.0015	30.6	30.4
0.0010	26.2	26.0

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/691C/1**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.05-0.25m
 Date:

Coarse fraction sieving

Starting wt/g 129.175 g <0.063mm 20.97 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	3.338	2.6	2.6	97.4
1.00	0.00	1.273	1.0	3.6	96.4
0.50	1.00	2.687	2.1	5.6	94.4
0.425	1.25	3.388	2.6	8.3	91.7
0.25	2.00	35.468	27.5	35.7	64.3
0.125	3.00	44.629	34.5	70.3	29.7
0.063	4.00	17.42	13.5	83.8	16.2

Fine fraction analysis

Sample **+55/-05/691C/1**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	129.18	100.00
+2	3.34	2.58
-2.0 + 0.063	104.87	81.18
- 0.063 (back calc)	20.97	16.24
Total	129.18	100

Particle size	Percentage
Gravel	2.6
Sand	81.2
Silt	12.2
Clay	4.0

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.4	16.0
0.050	98.2	15.9
0.040	97.3	15.8
0.030	94.9	15.4
0.025	93.3	15.1
0.020	92.0	14.9
0.015	89.6	14.5
0.010	85.9	13.9
0.0080	83.8	13.6
0.0060	78.7	12.8
0.0050	57.8	9.4
0.0040	31.0	5.0
0.0030	24.6	4.0
0.0020	24.4	4.0
0.0015	24.2	3.9
0.0010	24.2	3.9

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/691C/2**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.25-0.41m
 Date:

Coarse fraction sieving

Starting wt/g 90.851 g <0.063mm 26.25 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.111	0.1	0.1	99.9
1.00	0.00	0.169	0.2	0.3	99.7
0.50	1.00	0.391	0.4	0.7	99.3
0.425	1.25	0.73	0.8	1.5	98.5
0.25	2.00	23.786	26.2	27.7	72.3
0.125	3.00	37.504	41.3	69.0	31.0
0.063	4.00	1.912	2.1	71.1	28.9

Fine fraction analysis

Sample **+55/-05/691C/2**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	90.85	100.00
+2	0.11	0.12
-2.0 + 0.063	64.49	70.99
- 0.063 (back calc)	26.25	28.89
Total	90.85	100

Particle size	Percentage
Gravel	0.1
Sand	71.0
Silt	3.0
Clay	25.9

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	100.8	29.1
0.050	100.7	29.1
0.040	99.8	28.8
0.030	99.0	28.6
0.025	98.6	28.5
0.020	98.9	28.6
0.015	98.4	28.4
0.010	98.3	28.4
0.0080	98.2	28.4
0.0060	98.4	28.4
0.0050	98.4	28.4
0.0040	97.8	28.3
0.0030	95.9	27.7
0.0020	89.8	25.9
0.0015	74.5	21.5
0.0010	13.1	3.8

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/691C/3**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.41-0.56m
 Date:

Coarse fraction sieving

Starting wt/g 69.36 g <0.063mm 48.83 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.022	0.0	0.0	100.0
1.00	0.00	0.053	0.1	0.1	99.9
0.50	1.00	0.167	0.2	0.3	99.7
0.425	1.25	0.143	0.2	0.6	99.4
0.25	2.00	2.516	3.6	4.2	95.8
0.125	3.00	9.065	13.1	17.3	82.7
0.063	4.00	8.568	12.4	29.6	70.4

Fine fraction analysis

Sample **+55/-05/691C/3**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	69.36	100.00
+2	0.02	0.03
-2.0 + 0.063	20.51	29.57
- 0.063 (back calc)	48.83	70.40
Total	69.36	100

Particle size	Percentage
Gravel	0.0
Sand	29.6
Silt	67.7
Clay	2.7

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	100.7	70.9
0.050	101.0	71.1
0.040	100.6	70.8
0.030	98.7	69.5
0.025	97.1	68.4
0.020	96.6	68.0
0.015	93.7	66.0
0.010	85.6	60.3
0.0080	80.0	56.3
0.0060	67.4	47.4
0.0050	44.4	31.3
0.0040	11.0	7.7
0.0030	3.6	2.5
0.0020	3.8	2.7
0.0015	4.1	2.9
0.0010	3.4	2.4

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/691C/4**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.56-0.76m
 Date:

Coarse fraction sieving

Starting wt/g 143.454 g <0.063mm 3.17 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.112	0.1	0.1	99.9
1.00	0.00	0.238	0.2	0.2	99.8
0.50	1.00	2.61	1.8	2.1	97.9
0.425	1.25	5.042	3.5	5.6	94.4
0.25	2.00	73.415	51.2	56.8	43.2
0.125	3.00	56.91	39.7	96.4	3.6
0.063	4.00	1.956	1.4	97.8	2.2

Fine fraction analysis

Sample **+55/-05/691C/4**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	143.45	100.00
+2	0.11	0.08
-2.0 + 0.063	140.17	97.71
- 0.063 (back calc)	3.17	2.21
Total	143.45	100

Particle size	Percentage
Gravel	0.1
Sand	97.7
Silt	1.7
Clay	0.5

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	100.7	2.2
0.050	100.3	2.2
0.040	98.8	2.2
0.030	95.7	2.1
0.025	93.7	2.1
0.020	91.3	2.0
0.015	87.5	1.9
0.010	80.0	1.8
0.0080	72.7	1.6
0.0060	46.5	1.0
0.0050	29.8	0.7
0.0040	25.3	0.6
0.0030	24.7	0.5
0.0020	24.2	0.5
0.0015	24.2	0.5
0.0010	24.1	0.5

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/691C/5**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.76-0.95
 Date:

Coarse fraction sieving

Starting wt/g 82.644 g <0.063mm 22.53 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	1.657	2.0	2.0	98.0
1.00	0.00	0.239	0.3	2.3	97.7
0.50	1.00	1.251	1.5	3.8	96.2
0.425	1.25	2.753	3.3	7.1	92.9
0.25	2.00	27.881	33.7	40.9	59.1
0.125	3.00	22.056	26.7	67.6	32.4
0.063	4.00	4.274	5.2	72.7	27.3

Fine fraction analysis

Sample **+55/-05/691C/5**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	82.64	100.00
+2	1.66	2.00
-2.0 + 0.063	58.45	70.73
- 0.063 (back calc)	22.53	27.27
Total	82.64	100

Particle size	Percentage
Gravel	2.0
Sand	70.7
Silt	25.5
Clay	1.8

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.1	27.0
0.050	98.9	27.0
0.040	98.1	26.7
0.030	96.1	26.2
0.025	94.1	25.7
0.020	90.8	24.8
0.015	86.7	23.6
0.010	80.8	22.0
0.0080	72.6	19.8
0.0060	48.5	13.2
0.0050	23.4	6.4
0.0040	8.6	2.3
0.0030	7.4	2.0
0.0020	6.6	1.8
0.0015	6.1	1.7
0.0010	2.6	0.7

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/695C/1**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.10-0.32m
 Date:

Coarse fraction sieving

Starting wt/g 111.46 g <0.063mm 18.11 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	12.003	10.8	10.8	89.2
1.00	0.00	9.241	8.3	19.1	80.9
0.50	1.00	16.431	14.7	33.8	66.2
0.425	1.25	6.034	5.4	39.2	60.8
0.25	2.00	26.779	24.0	63.2	36.8
0.125	3.00	17.462	15.7	78.9	21.1
0.063	4.00	5.405	4.8	83.8	16.2

Fine fraction analysis

Sample **+55/-05/695C/1**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	111.46	100.00
+2	12.00	10.77
-2.0 + 0.063	81.35	72.99
- 0.063 (back calc)	18.11	16.24
Total	111.46	100

Particle size	Percentage
Gravel	10.8
Sand	73.0
Silt	14.8
Clay	1.4

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	100.0	16.2
0.050	100.0	16.2
0.040	99.5	16.2
0.030	98.2	16.0
0.025	97.1	15.8
0.020	95.4	15.5
0.015	62.1	10.1
0.010	87.4	14.2
0.0080	85.2	13.8
0.0060	79.8	13.0
0.0050	67.6	11.0
0.0040	32.0	5.2
0.0030	8.9	1.4
0.0020	8.4	1.4
0.0015	8.3	1.3
0.0010	8.8	1.4

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/695C/2**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.32-0.54m
 Date:

Coarse fraction sieving

Starting wt/g 123.787 g <0.063mm 17.99 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	26.576	21.5	21.5	78.5
1.00	0.00	11.991	9.7	31.2	68.8
0.50	1.00	15.482	12.5	43.7	56.3
0.425	1.25	5.477	4.4	48.1	51.9
0.25	2.00	21.989	17.8	65.9	34.1
0.125	3.00	17.845	14.4	80.3	19.7
0.063	4.00	6.442	5.2	85.5	14.5

Fine fraction analysis

Sample **+55/-05/695C/2**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	123.79	100.00
+2	26.58	21.47
-2.0 + 0.063	79.23	64.00
- 0.063 (back calc)	17.99	14.53
Total	123.79	100

Particle size	Percentage
Gravel	21.5
Sand	64.0
Silt	13.2
Clay	1.3

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.4	14.4
0.050	99.3	14.4
0.040	99.1	14.4
0.030	98.2	14.3
0.025	97.2	14.1
0.020	95.6	13.9
0.015	92.8	13.5
0.010	88.1	12.8
0.0080	85.9	12.5
0.0060	83.4	12.1
0.0050	79.7	11.6
0.0040	66.7	9.7
0.0030	24.7	3.6
0.0020	8.7	1.3
0.0015	8.6	1.2
0.0010	9.2	1.3

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/695C/3**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.54-0.76
 Date:

Coarse fraction sieving

Starting wt/g 129.786 g <0.063mm 24.26 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	13.964	10.8	10.8	89.2
1.00	0.00	13.919	10.7	21.5	78.5
0.50	1.00	24.699	19.0	40.5	59.5
0.425	1.25	7.499	5.8	46.3	53.7
0.25	2.00	22.714	17.5	63.8	36.2
0.125	3.00	17.219	13.3	77.1	22.9
0.063	4.00	5.51	4.2	81.3	18.7

Fine fraction analysis

Sample **+55/-05/695C/3**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	129.79	100.00
+2	13.96	10.76
-2.0 + 0.063	91.56	70.55
- 0.063 (back calc)	24.26	18.69
Total	129.79	100

Particle size	Percentage
Gravel	10.8
Sand	70.5
Silt	17.5
Clay	1.2

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.5	18.6
0.050	99.5	18.6
0.040	99.3	18.6
0.030	96.8	18.1
0.025	95.1	17.8
0.020	92.6	17.3
0.015	89.1	16.7
0.010	84.0	15.7
0.0080	80.4	15.0
0.0060	68.2	12.7
0.0050	44.9	8.4
0.0040	15.4	2.9
0.0030	9.6	1.8
0.0020	6.4	1.2
0.0015	4.8	0.9
0.0010	4.1	0.8

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/695C/4**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.76-0.97m
 Date:

Coarse fraction sieving

Starting wt/g 154.747 g <0.063mm 44.49 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	28.123	18.2	18.2	81.8
1.00	0.00	18.268	11.8	30.0	70.0
0.50	1.00	17.499	11.3	41.3	58.7
0.425	1.25	3.241	2.1	43.4	56.6
0.25	2.00	9.856	6.4	49.8	50.2
0.125	3.00	24.739	16.0	65.7	34.3
0.063	4.00	8.533	5.5	71.3	28.7

Fine fraction analysis

Sample **+55/-05/695C/4**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	154.75	100.00
+2	28.12	18.17
-2.0 + 0.063	82.14	53.08
- 0.063 (back calc)	44.49	28.75
Total	154.75	100

Particle size	Percentage
Gravel	18.2
Sand	53.1
Silt	24.4
Clay	4.3

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.7	28.4
0.050	98.6	28.3
0.040	98.6	28.3
0.030	98.9	28.4
0.025	98.8	28.4
0.020	98.4	28.3
0.015	98.1	28.2
0.010	96.0	27.6
0.0080	94.3	27.1
0.0060	92.3	26.5
0.0050	89.5	25.7
0.0040	84.6	24.3
0.0030	72.5	20.8
0.0020	14.8	4.3
0.0015	7.0	2.0
0.0010	7.4	2.1

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/695C/5**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.97-1.17m
 Date:

Coarse fraction sieving

Starting wt/g 106.557 g <0.063mm 23.18 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	20.037	18.8	18.8	81.2
1.00	0.00	11.42	10.7	29.5	70.5
0.50	1.00	8.646	8.1	37.6	62.4
0.425	1.25	1.496	1.4	39.0	61.0
0.25	2.00	4.791	4.5	43.5	56.5
0.125	3.00	24.692	23.2	66.7	33.3
0.063	4.00	12.298	11.5	78.2	21.8

Fine fraction analysis

Sample **+55/-05/695C/5**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	106.56	100.00
+2	20.04	18.80
-2.0 + 0.063	63.34	59.45
- 0.063 (back calc)	23.18	21.75
Total	106.56	100

Particle size	Percentage
Gravel	18.8
Sand	59.4
Silt	16.8
Clay	5.0

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.9	21.7
0.050	99.9	21.7
0.040	99.7	21.7
0.030	99.3	21.6
0.025	99.4	21.6
0.020	99.0	21.5
0.015	97.8	21.3
0.010	94.8	20.6
0.0080	92.6	20.1
0.0060	89.0	19.4
0.0050	86.4	18.8
0.0040	82.2	17.9
0.0030	72.2	15.7
0.0020	23.0	5.0
0.0015	7.1	1.5
0.0010	6.8	1.5

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/699C/1**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.00-0.20
 Date:

Coarse fraction sieving

Starting wt/g 90.846 g <0.063mm 8.99 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.201	0.2	0.2	99.8
1.00	0.00	0.394	0.4	0.7	99.3
0.50	1.00	0.622	0.7	1.3	98.7
0.425	1.25	0.249	0.3	1.6	98.4
0.25	2.00	2.835	3.1	4.7	95.3
0.125	3.00	51.513	56.7	61.4	38.6
0.063	4.00	26.041	28.7	90.1	9.9

Fine fraction analysis

Sample **+55/-05/699C/1**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	90.85	100.00
+2	0.20	0.22
-2.0 + 0.063	81.65	89.88
- 0.063 (back calc)	8.99	9.90
Total	90.85	100

Particle size	Percentage
Gravel	0.2
Sand	89.9
Silt	8.2
Clay	1.7

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	101.0	10.0
0.050	100.6	10.0
0.040	98.8	9.8
0.030	94.3	9.3
0.025	91.7	9.1
0.020	89.6	8.9
0.015	86.2	8.5
0.010	81.6	8.1
0.0080	76.3	7.6
0.0060	44.3	4.4
0.0050	22.3	2.2
0.0040	17.5	1.7
0.0030	17.5	1.7
0.0020	17.2	1.7
0.0015	17.1	1.7
0.0010	16.0	1.6

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/699C/2**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.20-0.40m
 Date:

Coarse fraction sieving

Starting wt/g 123.878 g <0.063mm 18.10 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	1.163	0.9	0.9	99.1
1.00	0.00	1.908	1.5	2.5	97.5
0.50	1.00	2.414	1.9	4.4	95.6
0.425	1.25	0.711	0.6	5.0	95.0
0.25	2.00	6.586	5.3	10.3	89.7
0.125	3.00	69.685	56.3	66.6	33.4
0.063	4.00	23.315	18.8	85.4	14.6

Fine fraction analysis

Sample **+55/-05/699C/2**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	123.88	100.00
+2	1.16	0.94
-2.0 + 0.063	104.62	84.45
- 0.063 (back calc)	18.10	14.61
Total	123.88	100

Particle size	Percentage
Gravel	0.9
Sand	84.5
Silt	11.1
Clay	3.5

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	92.1	13.5
0.050	92.1	13.5
0.040	92.2	13.5
0.030	92.3	13.5
0.025	91.8	13.4
0.020	90.9	13.3
0.015	89.6	13.1
0.010	85.5	12.5
0.0080	81.7	11.9
0.0060	68.5	10.0
0.0050	48.3	7.1
0.0040	29.2	4.3
0.0030	25.6	3.7
0.0020	24.2	3.5
0.0015	23.3	3.4
0.0010	20.7	3.0

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/699C/3**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.40-0.61m
 Date:

Coarse fraction sieving

Starting wt/g 168.662 g <0.063mm 18.55 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.929	0.6	0.6	99.4
1.00	0.00	1.266	0.8	1.3	98.7
0.50	1.00	1.1	0.7	2.0	98.0
0.425	1.25	0.427	0.3	2.2	97.8
0.25	2.00	4.441	2.6	4.8	95.2
0.125	3.00	108.553	64.4	69.2	30.8
0.063	4.00	33.393	19.8	89.0	11.0

Fine fraction analysis

Sample **+55/-05/699C/3**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	168.66	100
+2	0.93	0.550805754
-2.0 + 0.063	149.18	88.4
- 0.063 (back calc)	18.55	11.0
Total	168.66	100

Particle size	Percentage
Gravel	0.6
Sand	88.4
Silt	8.2
Clay	2.8

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	96.9	10.7
0.050	95.7	10.5
0.040	92.8	10.2
0.030	88.3	9.7
0.025	85.4	9.4
0.020	82.3	9.1
0.015	78.7	8.7
0.010	71.6	7.9
0.0080	64.4	7.1
0.0060	46.6	5.1
0.0050	34.8	3.8
0.0040	28.7	3.2
0.0030	26.9	3.0
0.0020	25.1	2.8
0.0015	23.9	2.6
0.0010	23.5	2.6

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/699C/4**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.61-0.81m
 Date:

Coarse fraction sieving

Starting wt/g 125.906 g <0.063mm 24.45 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	5.146	4.1	4.1	95.9
1.00	0.00	4.427	3.5	7.6	92.4
0.50	1.00	10.113	8.0	15.6	84.4
0.425	1.25	4.893	3.9	19.5	80.5
0.25	2.00	24.9	19.8	39.3	60.7
0.125	3.00	37.049	29.4	68.7	31.3
0.063	4.00	14.928	11.9	80.6	19.4

Fine fraction analysis

Sample **+55/-05/699C/4**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	125.91	100.00
+2	5.15	4.09
-2.0 + 0.063	96.31	76.49
- 0.063 (back calc)	24.45	19.42
Total	125.91	100

Particle size	Percentage
Gravel	4.1
Sand	76.5
Silt	16.2
Clay	3.2

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.6	19.1
0.050	97.1	18.9
0.040	93.6	18.2
0.030	88.1	17.1
0.025	84.4	16.4
0.020	80.5	15.6
0.015	76.1	14.8
0.010	65.8	12.8
0.0080	55.0	10.7
0.0060	33.0	6.4
0.0050	23.5	4.6
0.0040	19.5	3.8
0.0030	17.8	3.5
0.0020	16.6	3.2
0.0015	16.0	3.1
0.0010	15.6	3.0

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/699C/5**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.81-1.01m
 Date:

Coarse fraction sieving

Starting wt/g 146.534 g <0.063mm 12.50 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	2.791	1.9	1.9	98.1
1.00	0.00	1.964	1.3	3.2	96.8
0.50	1.00	2.866	2.0	5.2	94.8
0.425	1.25	2.341	1.6	6.8	93.2
0.25	2.00	36.566	25.0	31.8	68.2
0.125	3.00	77.897	53.2	84.9	15.1
0.063	4.00	9.613	6.6	91.5	8.5

Fine fraction analysis

Sample **+55/-05/699C/5**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	146.53	100.00
+2	2.79	1.90
-2.0 + 0.063	131.25	89.57
- 0.063 (back calc)	12.50	8.53
Total	146.53	100

Particle size	Percentage
Gravel	1.9
Sand	89.6
Silt	7.1
Clay	1.4

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	97.3	8.3
0.050	96.7	8.2
0.040	95.3	8.1
0.030	92.8	7.9
0.025	90.9	7.8
0.020	88.2	7.5
0.015	84.2	7.2
0.010	77.4	6.6
0.0080	73.1	6.2
0.0060	63.9	5.4
0.0050	52.2	4.5
0.0040	30.3	2.6
0.0030	17.5	1.5
0.0020	16.6	1.4
0.0015	16.2	1.4
0.0010	15.8	1.3

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/707C/1**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.00-0.22m
 Date:

Coarse fraction sieving

Starting wt/g 139.962 g <0.063mm 3.85 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	3.043	2.2	2.2	97.8
1.00	0.00	1.28	0.9	3.1	96.9
0.50	1.00	3.266	2.3	5.4	94.6
0.425	1.25	2.319	1.7	7.1	92.9
0.25	2.00	23.522	16.8	23.9	76.1
0.125	3.00	97.395	69.6	93.5	6.5
0.063	4.00	5.283	3.8	97.2	2.8

Fine fraction analysis

Sample **+55/-05/707C/1**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	139.96	100.00
+2	3.04	2.17
-2.0 + 0.063	133.07	95.07
- 0.063 (back calc)	3.85	2.75
Total	139.96	100

Particle size	Percentage
Gravel	2.2
Sand	95.1
Silt	1.3
Clay	1.5

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.9	2.7
0.050	99.0	2.7
0.040	99.3	2.7
0.030	99.2	2.7
0.025	98.3	2.7
0.020	97.0	2.7
0.015	95.4	2.6
0.010	92.0	2.5
0.0080	87.5	2.4
0.0060	62.9	1.7
0.0050	42.0	1.2
0.0040	36.1	1.0
0.0030	35.8	1.0
0.0020	55.9	1.5
0.0015	35.9	1.0
0.0010	36.5	1.0

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/707C/2**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.22-0.43
 Date:

Coarse fraction sieving

Starting wt/g 137.489 g <0.063mm 8.14 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	10.712	7.8	7.8	92.2
1.00	0.00	6.889	5.0	12.8	87.2
0.50	1.00	10.377	7.5	20.3	79.7
0.425	1.25	4.779	3.5	23.8	76.2
0.25	2.00	31.285	22.8	46.6	53.4
0.125	3.00	60.329	43.9	90.5	9.5
0.063	4.00	4.976	3.6	94.1	5.9

Fine fraction analysis

Sample **+55/-05/707C/2**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	137.49	100.00
+2	10.71	7.79
-2.0 + 0.063	118.64	86.29
- 0.063 (back calc)	8.14	5.92
Total	137.49	100

Particle size	Percentage
Gravel	7.8
Sand	86.3
Silt	4.5
Clay	1.4

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	98.4	5.8
0.050	98.4	5.8
0.040	98.2	5.8
0.030	97.1	5.8
0.025	96.3	5.7
0.020	95.1	5.6
0.015	92.4	5.5
0.010	88.5	5.2
0.0080	86.8	5.1
0.0060	83.5	4.9
0.0050	79.0	4.7
0.0040	63.4	3.8
0.0030	30.1	1.8
0.0020	24.0	1.4
0.0015	24.0	1.4
0.0010	23.9	1.4

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/707C/3**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.43-0.66m
 Date:

Coarse fraction sieving

Starting wt/g 107.731 g <0.063mm 79.46 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.3	0.3	0.3	99.7
1.00	0.00	0.473	0.4	0.7	99.3
0.50	1.00	0.682	0.6	1.4	98.6
0.425	1.25	0.22	0.2	1.6	98.4
0.25	2.00	1.84	1.7	3.3	96.7
0.125	3.00	15.022	13.9	17.2	82.8
0.063	4.00	9.738	9.0	26.2	73.8

Fine fraction analysis

Sample **+55/-05/707C/3**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	107.73	100.00
+2	0.30	0.28
-2.0 + 0.063	27.98	25.97
- 0.063 (back calc)	79.46	73.75
Total	107.73	100

Particle size	Percentage
Gravel	0.3
Sand	26.0
Silt	50.4
Clay	23.4

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	97.3	71.8
0.050	96.6	71.2
0.040	94.4	69.6
0.030	90.0	66.4
0.025	86.4	63.7
0.020	81.3	60.0
0.015	74.3	54.8
0.010	64.7	47.7
0.0080	59.4	43.8
0.0060	52.6	38.8
0.0050	48.5	35.8
0.0040	43.5	32.1
0.0030	37.7	27.8
0.0020	31.7	23.4
0.0015	28.5	21.0
0.0010	24.9	18.4

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/707C/4**
 Description:

Country: UK
 O/S Ref:
 Depth:
 Date: 0.66-0.90m

Coarse fraction sieving

Starting wt/g 117.847 g <0.063mm 107.26 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0	0.0	0.0	100.0
0.50	1.00	0	0.0	0.0	100.0
0.425	1.25	0.028	0.0	0.0	100.0
0.25	2.00	0.188	0.2	0.2	99.8
0.125	3.00	0.466	0.4	0.6	99.4
0.063	4.00	9.904	8.4	9.0	91.0

Fine fraction analysis

Sample **+55/-05/707C/4**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	117.85	100.00
+2	0.00	0.00
-2.0 + 0.063	10.59	8.98
- 0.063 (back calc)	107.26	91.02
Total	117.85	100

Particle size	Percentage
Gravel	0.0
Sand	9.0
Silt	64.4
Clay	26.6

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	96.6	87.9
0.050	95.8	87.2
0.040	93.2	84.8
0.030	87.4	79.5
0.025	83.1	75.6
0.020	77.3	70.4
0.015	70.1	63.8
0.010	60.3	54.9
0.0080	55.3	50.3
0.0060	48.6	44.2
0.0050	44.6	40.6
0.0040	39.9	36.3
0.0030	34.3	31.2
0.0020	29.2	26.6
0.0015	26.2	23.8
0.0010	21.7	19.8

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/707C/5**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.90-1.15m
 Date:

Coarse fraction sieving

Starting wt/g 119.258 g <0.063mm 104.78 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0	0.0	0.0	100.0
0.50	1.00	0.019	0.0	0.0	100.0
0.425	1.25	0.037	0.0	0.0	100.0
0.25	2.00	0.101	0.1	0.1	99.9
0.125	3.00	0.918	0.8	0.9	99.1
0.063	4.00	13.406	11.2	12.1	87.9

Fine fraction analysis

Sample **+55/-05/707C/5**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	119.26	100
+2	0.00	0
-2.0 + 0.063	14.48	12.1
- 0.063 (back calc)	104.78	87.9
Total	119.26	100

Particle size	Percentage
Gravel	0.0
Sand	12.1
Silt	64.8
Clay	23.1

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	95.2	83.6
0.050	93.5	82.1
0.040	89.0	78.2
0.030	80.6	70.8
0.025	74.8	65.7
0.020	68.2	59.9
0.015	61.3	53.9
0.010	52.8	46.4
0.0080	48.1	42.3
0.0060	42.4	37.3
0.0050	39.3	34.5
0.0040	35.5	31.2
0.0030	30.8	27.1
0.0020	26.3	23.1
0.0015	23.7	20.8
0.0010	21.4	18.8

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/715C/1**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.00-0.20m
 Date:

Coarse fraction sieving

Starting wt/g 144.44 g <0.063mm 0.80 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.148	0.1	0.1	99.9
1.00	0.00	2.614	1.8	1.9	98.1
0.50	1.00	31.793	22.0	23.9	76.1
0.425	1.25	15.946	11.0	35.0	65.0
0.25	2.00	64.488	44.6	79.6	20.4
0.125	3.00	28.285	19.6	99.2	0.8
0.063	4.00	0.366	0.3	99.4	0.6

Fine fraction analysis

Sample **+55/-05/715C/1**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	144.44	100.00
+2	0.15	0.10
-2.0 + 0.063	143.49	99.34
- 0.063 (back calc)	0.80	0.55
Total	144.44	100

Particle size	Percentage
Gravel	0.1
Sand	99.3
Silt	0.6
Clay	

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	0.0	
0.050	0.0	
0.040	0.0	
0.030	0.0	
0.025	0.0	
0.020	0.0	
0.015	0.0	
0.010	0.0	
0.0080	0.0	
0.0060	0.0	
0.0050	0.0	
0.0040	0.0	
0.0030	0.0	
0.0020	0.0	
0.0015	0.0	
0.0010	0.0	

No Sedigraph analysis

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/715C/2**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.20-0.42m
 Date:

Coarse fraction sieving

Starting wt/g 166.8 g <0.063mm 3.46 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	29.697	17.8	17.8	82.2
1.00	0.00	15.342	9.2	27.0	73.0
0.50	1.00	31.252	18.7	45.7	54.3
0.425	1.25	11.577	6.9	52.7	47.3
0.25	2.00	40.372	24.2	76.9	23.1
0.125	3.00	33.624	20.2	97.0	3.0
0.063	4.00	1.474	0.9	97.9	2.1

Fine fraction analysis

Sample **+55/-05/715C/2**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	166.80	100.00
+2	29.70	17.80
-2.0 + 0.063	133.64	80.12
- 0.063 (back calc)	3.46	2.08
Total	166.80	100

Particle size	Percentage
Gravel	17.8
Sand	80.1
Silt	1.6
Clay	0.5

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	99.7	2.1
0.050	99.5	2.1
0.040	99.3	2.1
0.030	98.7	2.0
0.025	98.0	2.0
0.020	97.0	2.0
0.015	94.6	2.0
0.010	90.1	1.9
0.0080	77.8	1.6
0.0060	36.7	0.8
0.0050	26.9	0.6
0.0040	25.9	0.5
0.0030	25.0	0.5
0.0020	22.0	0.5
0.0015	20.8	0.4
0.0010	22.1	0.5

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/715C/3**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.42-0.66m
 Date:

Coarse fraction sieving

Starting wt/g 168.633 g <0.063mm 3.07 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0.374	0.2	0.2	99.8
1.00	0.00	0.884	0.5	0.7	99.3
0.50	1.00	5.592	3.3	4.1	95.9
0.425	1.25	3.143	1.9	5.9	94.1
0.25	2.00	47.074	27.9	33.8	66.2
0.125	3.00	106.306	63.0	96.9	3.1
0.063	4.00	2.186	1.3	98.2	1.8

Fine fraction analysis

Sample **+55/-05/715C/3**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	168.63	100.00
+2	0.37	0.22
-2.0 + 0.063	165.19	97.96
- 0.063 (back calc)	3.07	1.82
Total	168.63	100

Particle size	Percentage
Gravel	0.2
Sand	98.0
Silt	1.1
Clay	0.7

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	97.5	1.8
0.050	97.7	1.8
0.040	97.6	1.8
0.030	96.7	1.8
0.025	95.8	1.7
0.020	93.7	1.7
0.015	90.0	1.6
0.010	75.6	1.4
0.0080	54.4	1.0
0.0060	42.0	0.8
0.0050	41.4	0.8
0.0040	41.1	0.7
0.0030	40.9	0.7
0.0020	39.2	0.7
0.0015	38.7	0.7
0.0010	39.0	0.7

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/715C/4**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.66-0.90m
 Date:

Coarse fraction sieving

Starting wt/g 124.273 g <0.063mm 1.79 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0.021	0.0	0.0	100.0
0.50	1.00	0.433	0.3	0.4	99.6
0.425	1.25	1.149	0.9	1.3	98.7
0.25	2.00	85.811	69.1	70.3	29.7
0.125	3.00	34.518	27.8	98.1	1.9
0.063	4.00	0.554	0.4	98.6	1.4

Fine fraction analysis

Sample **+55/-05/715C/4**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	124.27	100
+2	0.00	0
-2.0 + 0.063	122.49	98.6
- 0.063 (back calc)	1.79	1.4
Total	124.27	100

Particle size	Percentage
Gravel	0.0
Sand	98.6
Silt	0.7
Clay	0.7

Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	96.5	1.4
0.050	96.5	1.4
0.040	96.2	1.4
0.030	95.1	1.4
0.025	93.8	1.3
0.020	91.3	1.3
0.015	82.9	1.2
0.010	61.1	0.9
0.0080	55.9	0.8
0.0060	54.4	0.8
0.0050	53.8	0.8
0.0040	82.3	1.2
0.0030	50.6	0.7
0.0020	50.2	0.7
0.0015	49.2	0.7
0.0010	48.9	0.7

Project: Clyde Estuary
 Site:
 Borehole/Pit:
 Sample No: **+55/-05/715C/5**
 Description:

Country: UK
 O/S Ref:
 Depth: 0.84-1.03m
 Date:

Coarse fraction sieving

Starting wt/g 111.803 g <0.063mm 1.90 g

Sieve Size (mm)	Sieve Size (ø)	Retained Weight (g)	% Retained	Total% Retained	% Passing
2.00	-1.00	0	0.0	0.0	100.0
1.00	0.00	0	0.0	0.0	100.0
0.50	1.00	0.26	0.2	0.2	99.8
0.425	1.25	0.891	0.8	1.0	99.0
0.25	2.00	40.916	36.6	37.6	62.4
0.125	3.00	66.995	59.9	97.5	2.5
0.063	4.00	0.84	0.8	98.3	1.7

Fine fraction analysis

Sample **+55/-05/715C/5**

Particle size (mm)	Wt/g	Wt %
Start weight (g)	111.80	100.00
+2	0.00	0.00
-2.0 + 0.063	109.90	98.30
- 0.063 (back calc)	1.90	1.70
Total	111.80	100

Particle size	Percentage
Gravel	0.0
Sand	98.3
Silt	1.0
Clay	0.7

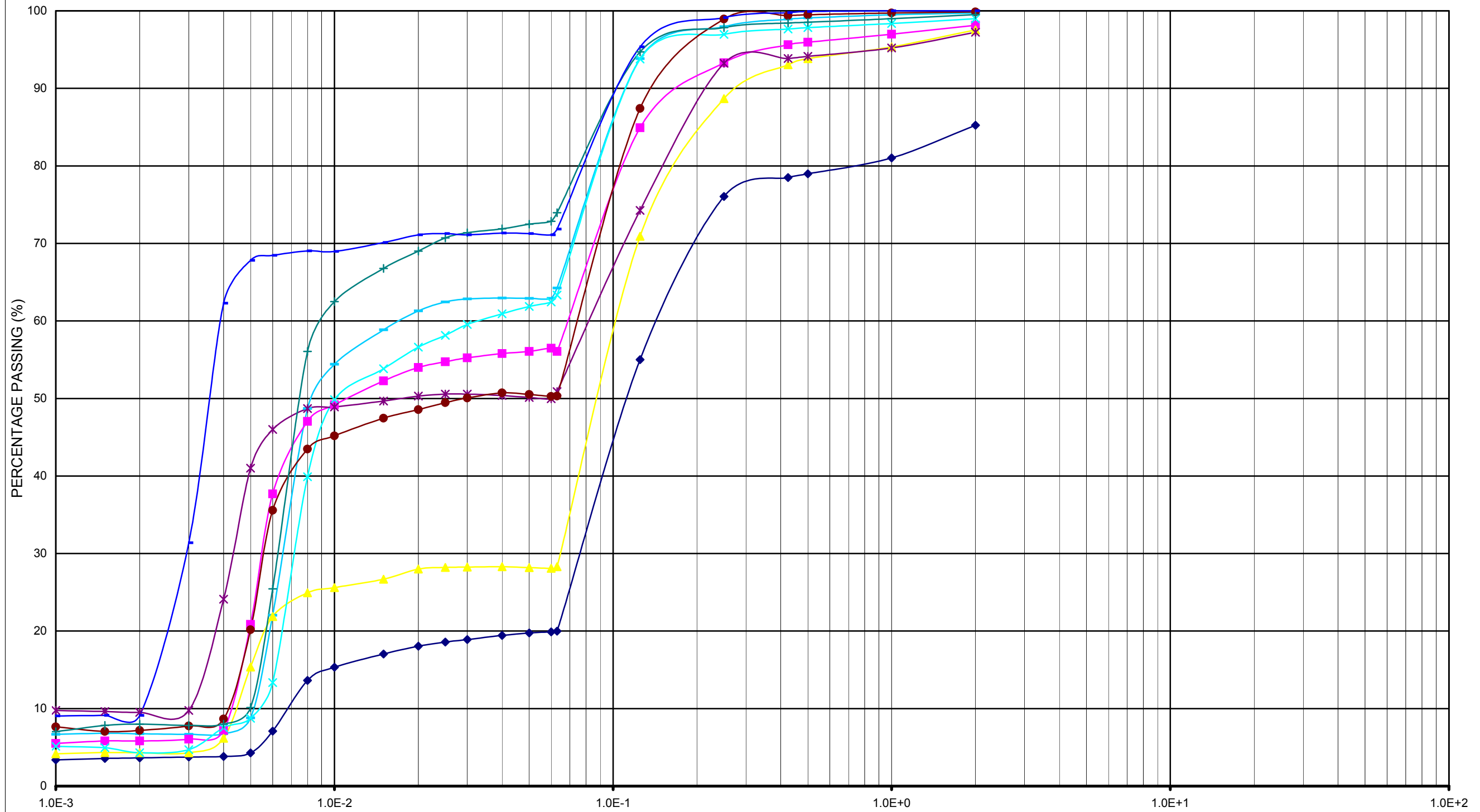
Sedigraph

Particle size (mm)	Cumulative Wt%	Cumulative correct < wt%
0.060	95.6	1.6
0.050	95.8	1.6
0.040	95.7	1.6
0.030	94.8	1.6
0.025	93.8	1.6
0.020	91.6	1.6
0.015	84.8	1.4
0.010	57.4	1.0
0.0080	48.5	0.8
0.0060	16.5	0.3
0.0050	45.7	0.8
0.0040	44.7	0.8
0.0030	43.7	0.7
0.0020	43.1	0.7
0.0015	42.4	0.7
0.0010	43.0	0.7

Appendix 2

Particle Size Distribution Curves

Particle size distribution curves for grab samples 652 to 678

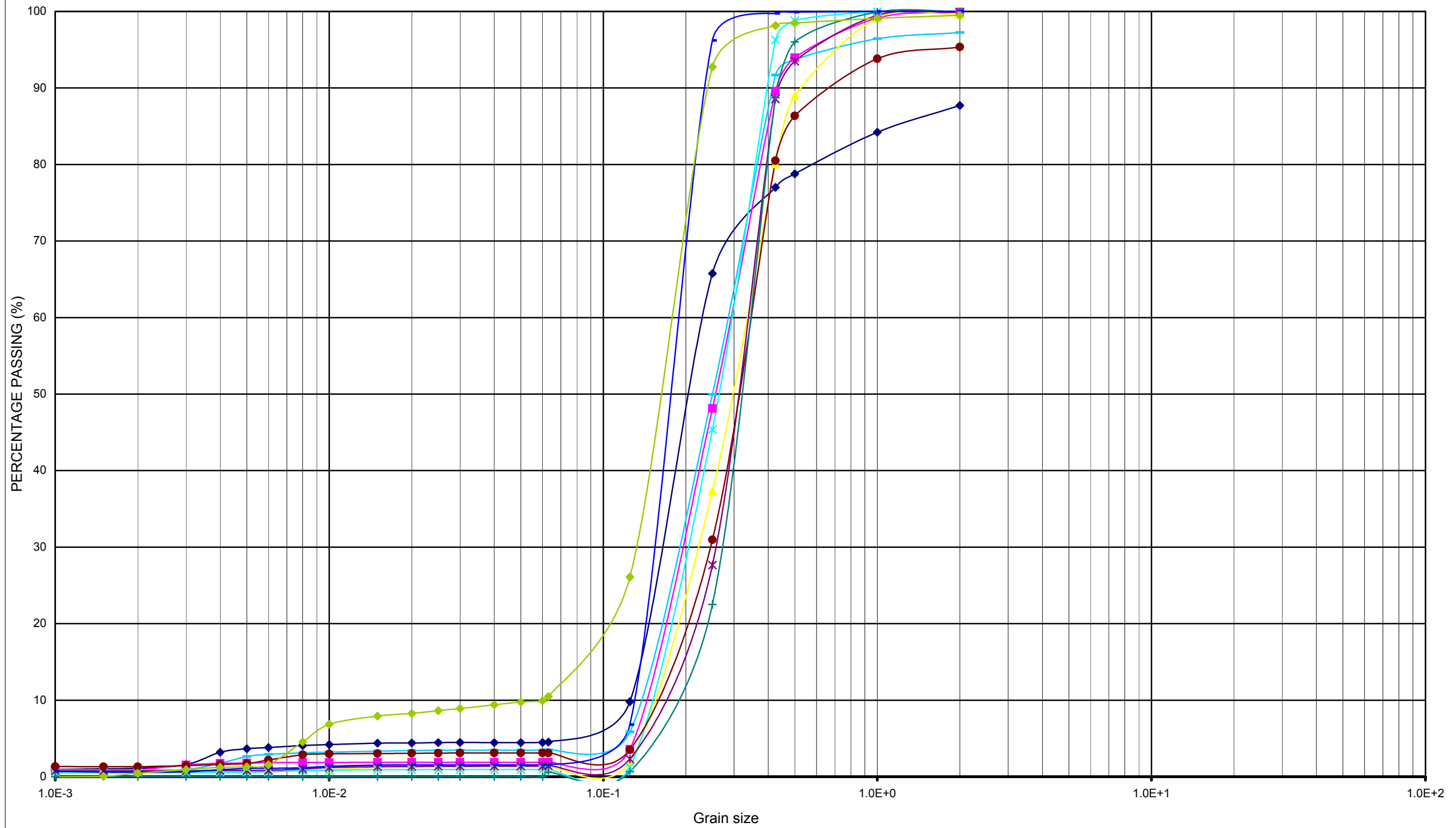


- 652
- 653
- 655
- 658
- 661
- 663
- 670
- 676
- 678

CLAY Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse GRAVEL COBBLES

SILT SAND

Particle size distribution curves for grab samples 680 to 689



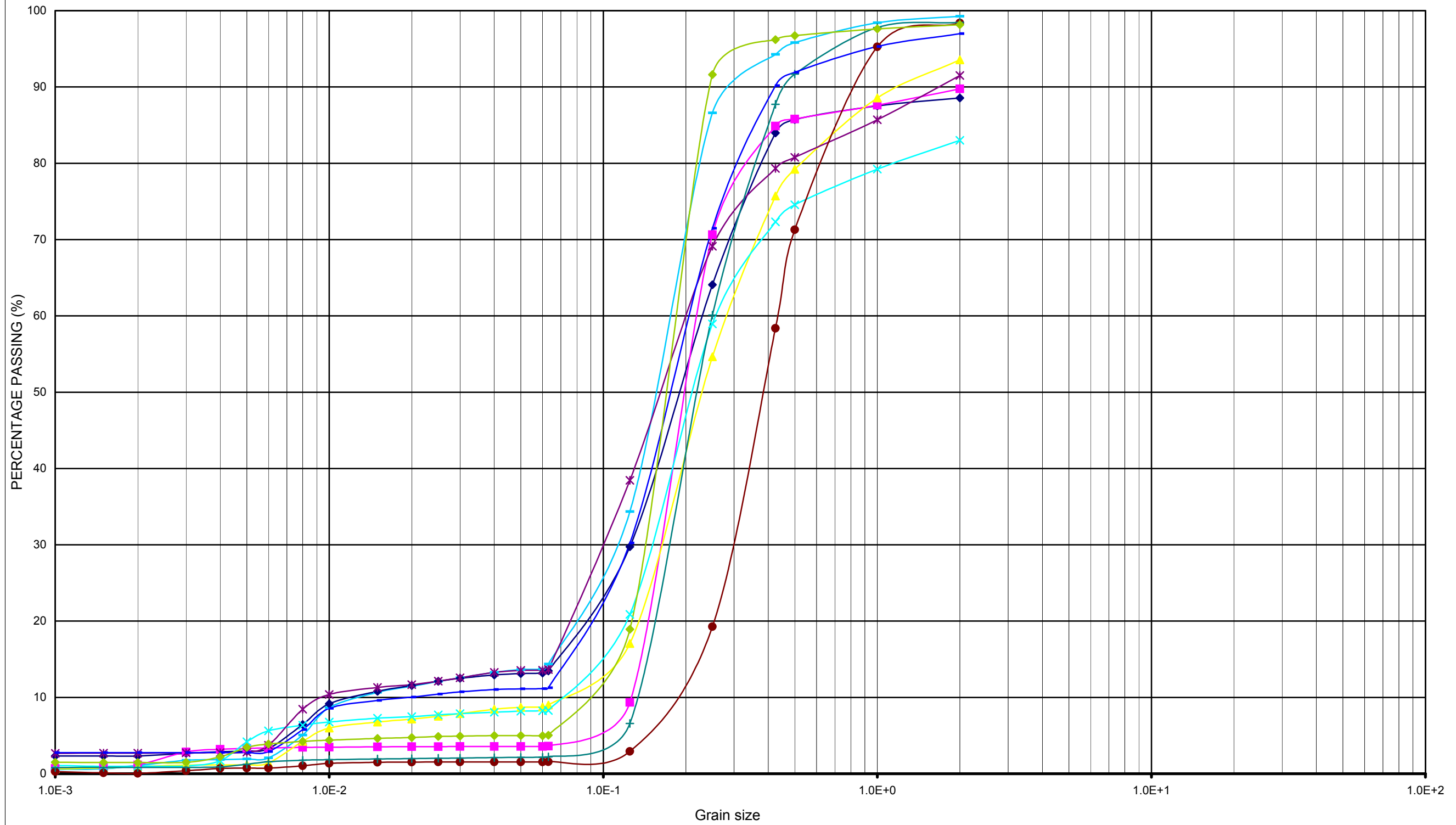
- 680
- 681
- 682
- 683
- 684
- 685
- 686
- 687
- 688
- 689

CLAY Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse GRAVEL COBBLES

SILT

SAND

Particle size distribution curves for grab samples 690 to 699

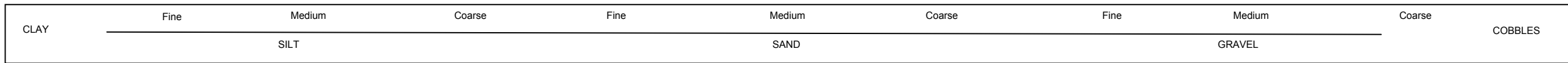
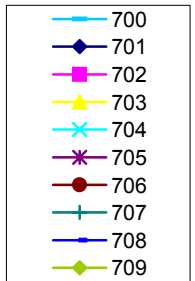
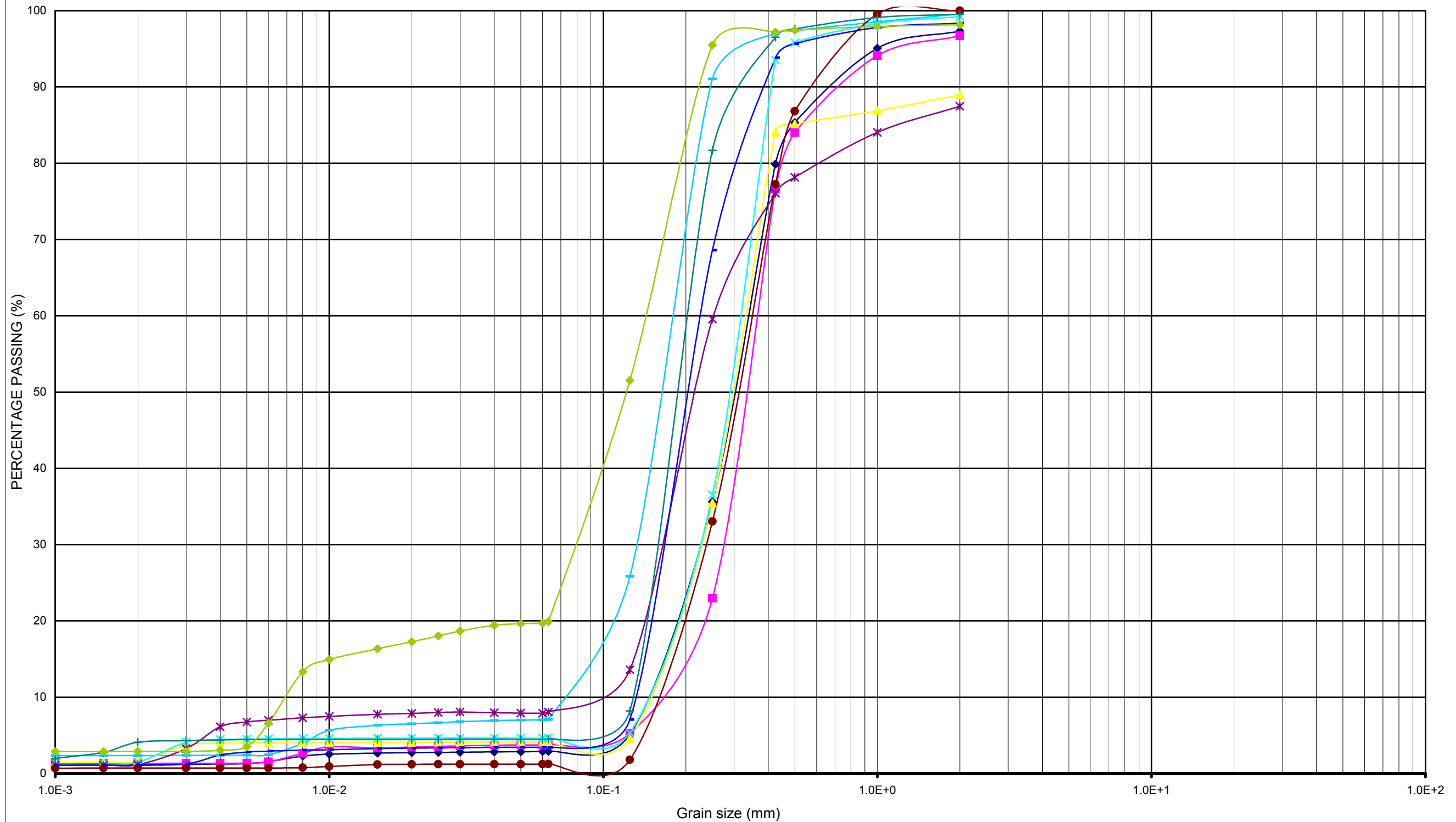


- 690
- 691
- 692
- 693
- 694
- 695
- 696
- 697
- 698
- 699

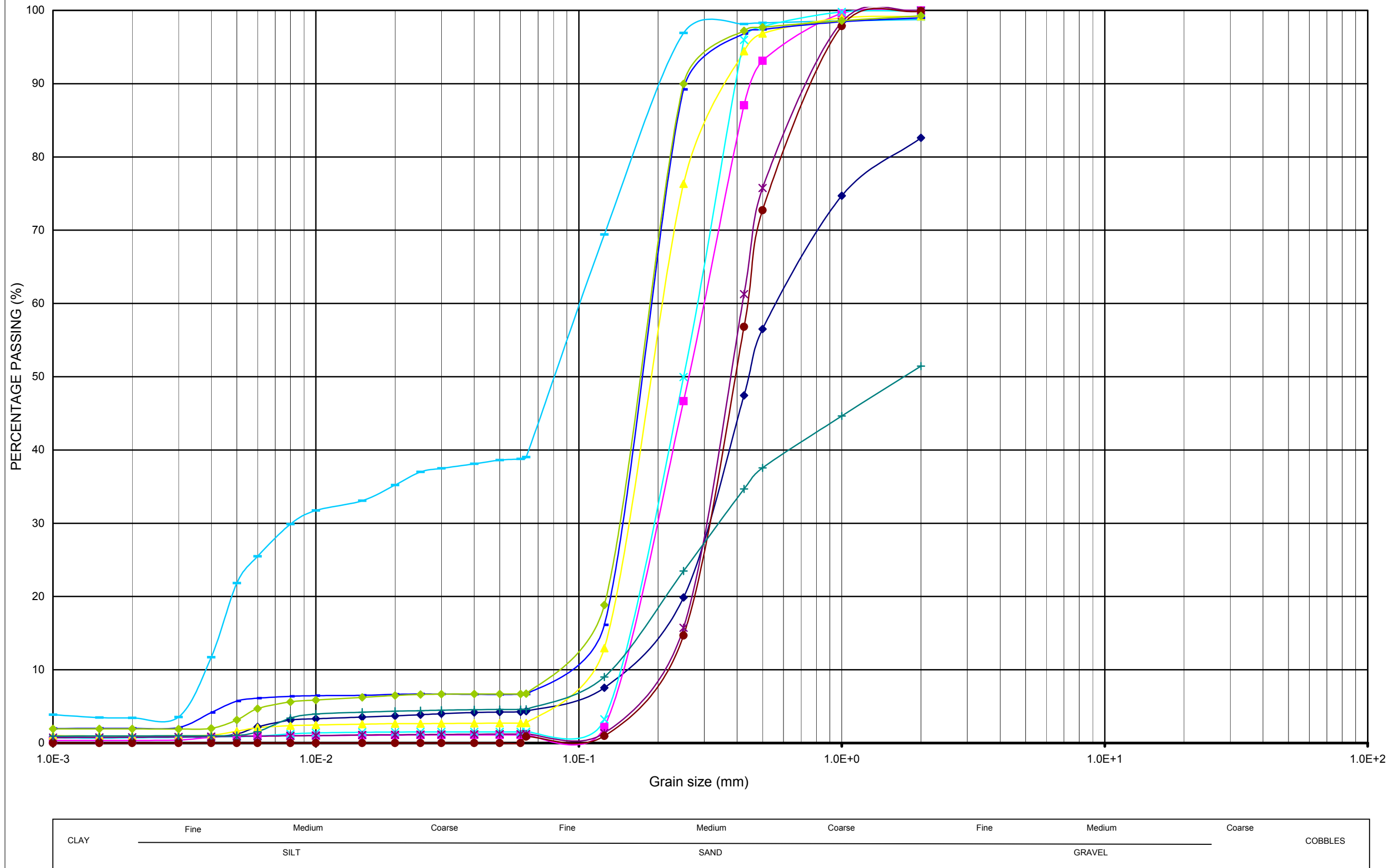
CLAY Fine Medium Coarse Fine Medium Coarse Fine Medium Coarse GRAVEL COBBLES

SILT SAND

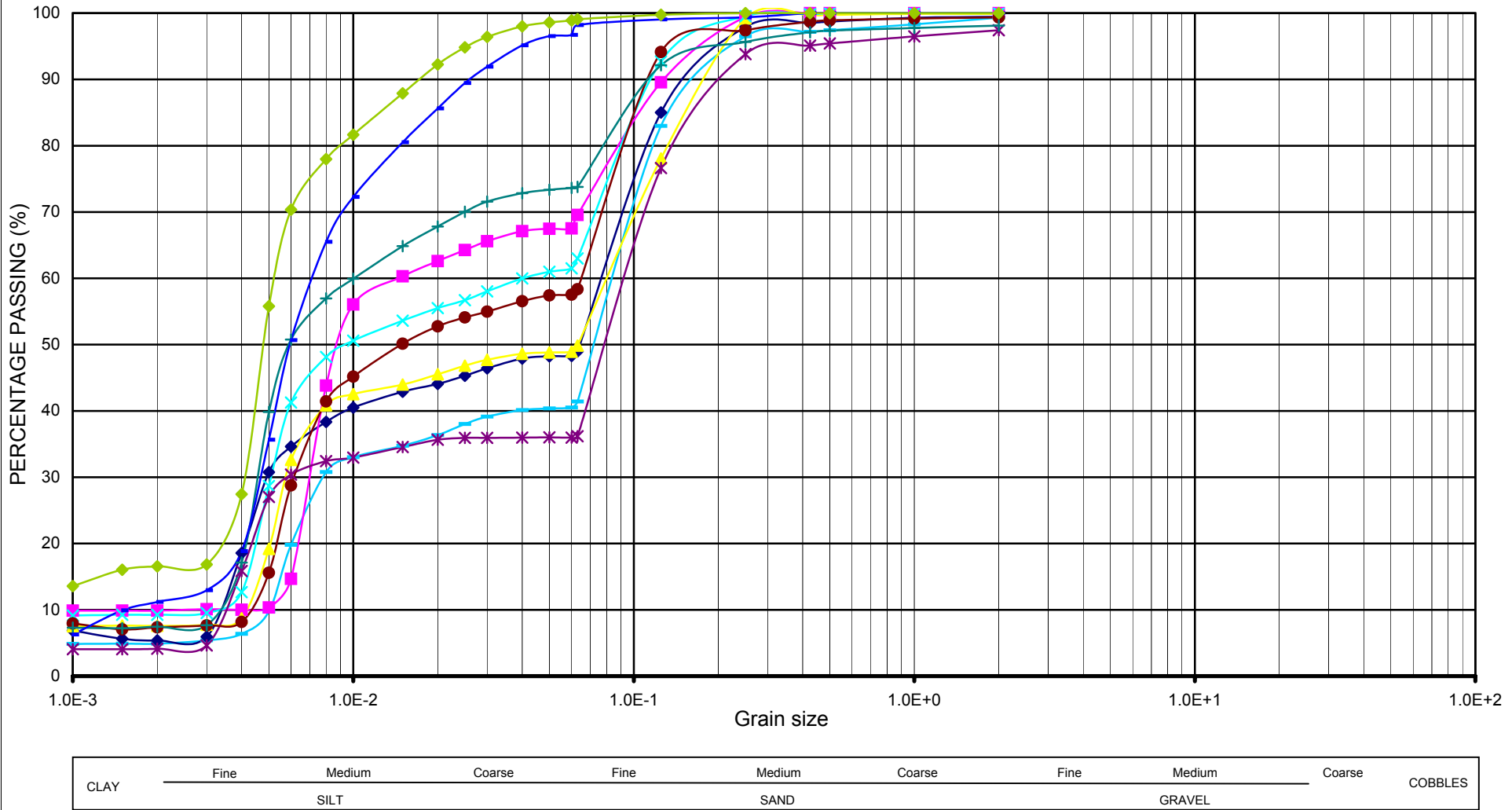
Particle size distribution curves for grab samples 700 to 709



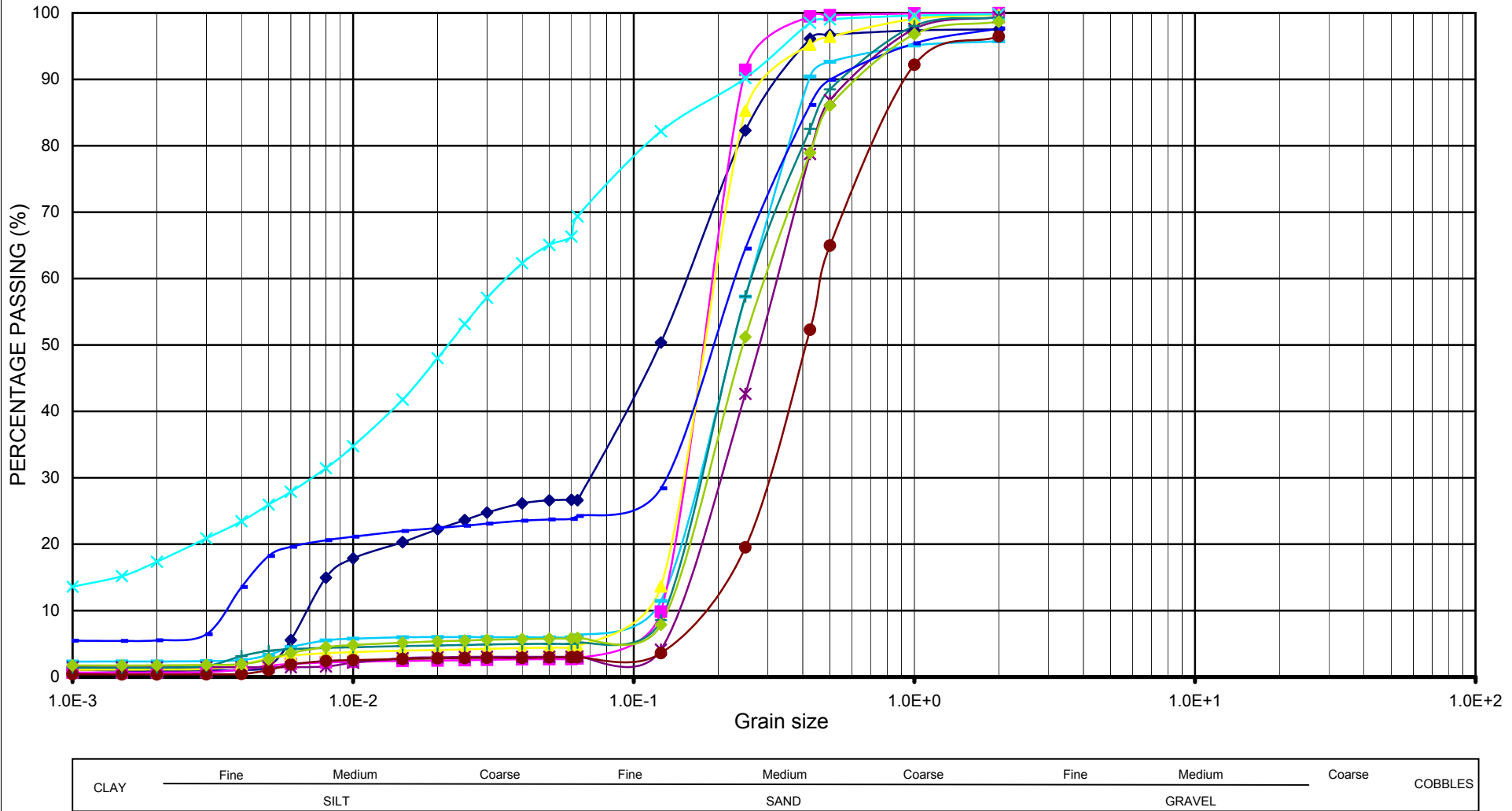
Particle size distribution curves for grab samples 710 to 719



Particle size distribution curves for cores 619C and 643C



Particle size distribution curves for cores 680C and 683C



Particle size distribution curves for cores 695C and 699C

