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Civil Materials Testing
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CLIENT SRK Consulting Engineers
 P.O.Box 55291
 Northlands
 2116

ATTENTION: Danielle du Preez

TEST REPORT

Job No	CTS02375
Ref. No	#16926
Date	30.08.2021
Tested/Sampled By:	Client
Date Sampled / Received	24.08.2021
Date Tested	24.08.2021
Sampling Method	As per client
Test Method	ASTM D422
Project	Koeberg
Test Type	Foundation Indicator
Sampled By	Client
Delivered By	Client
Temp. °C	25 °C
Laboratory Tester	Mr. Jonathan
Environmental Conditions	Sunny
Remarks / notes	None
Number of pages	39

Special instructions

None

Remarks:

1. Opinions & Interpretations are not included in our scope of works.
2. The samples were subjected to analysis according to test method (SANS) (TMH5) (DOT) (ASTM).
3. The test results reported relate to the samples tested.
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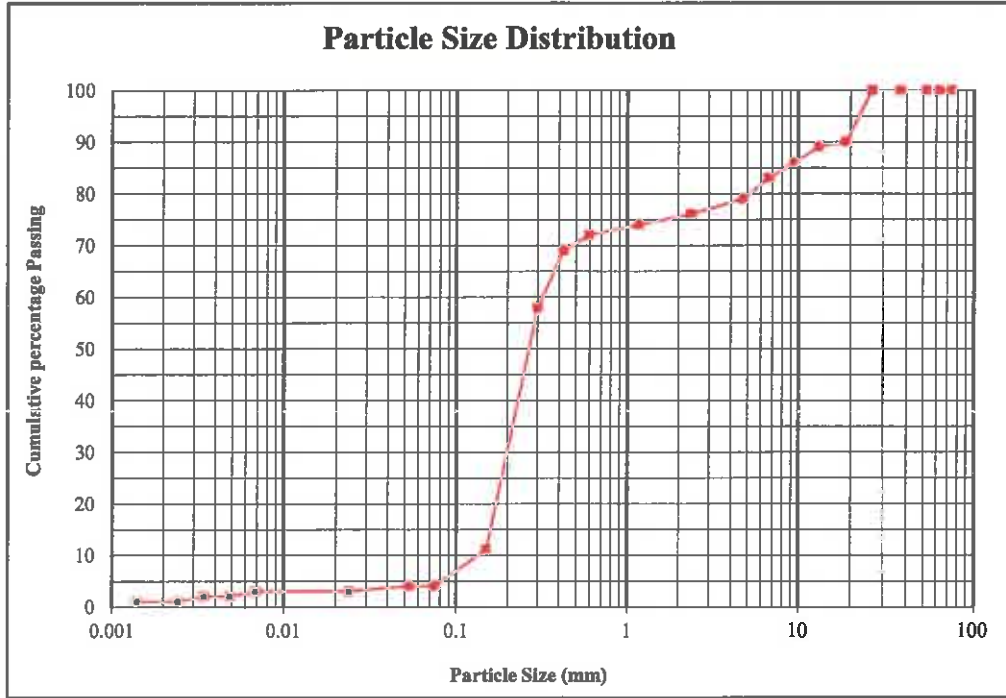
Customer : SRK Consulting Engineers
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Project : Koeberg
 Date Received : 24.08.2021
 Date Reported : 30.08.2021
 Req. Number : #16926

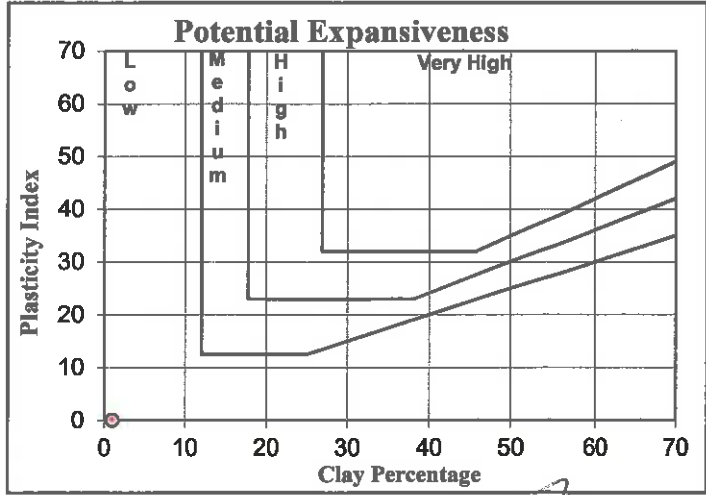
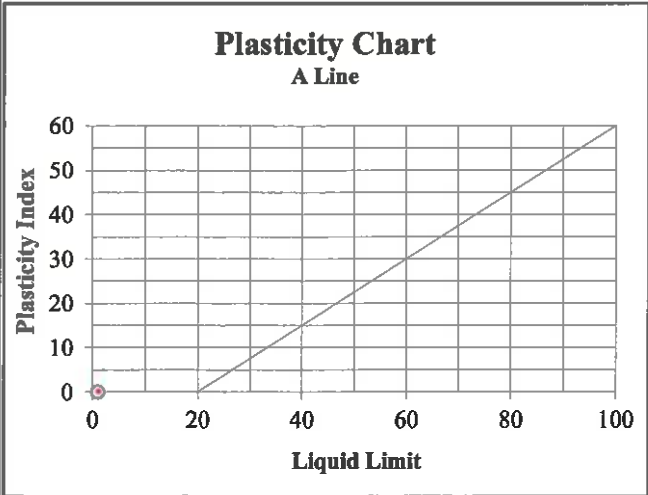
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand + Hornfells	Sample Number:	53609		
Position:	KB46	Liquid Limit	-	Linear Shrinkage	0.0
Depth:	1.0 - 1.5	Plasticity Index	NP	Insitu M/C%	2.8

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	90
13.2	89
9.5	86
6.7	83
4.75	79
2.36	76
1.18	74
0.800	72
0.425	69
0.300	58
0.150	11
0.075	4
0.0753	4
0.0532	4
0.0238	3
0.0069	3
0.0049	2
0.0034	2
0.0024	1
0.0014	1



% Clay	1	% Silt	3	% Sand	71	% Gravel	25
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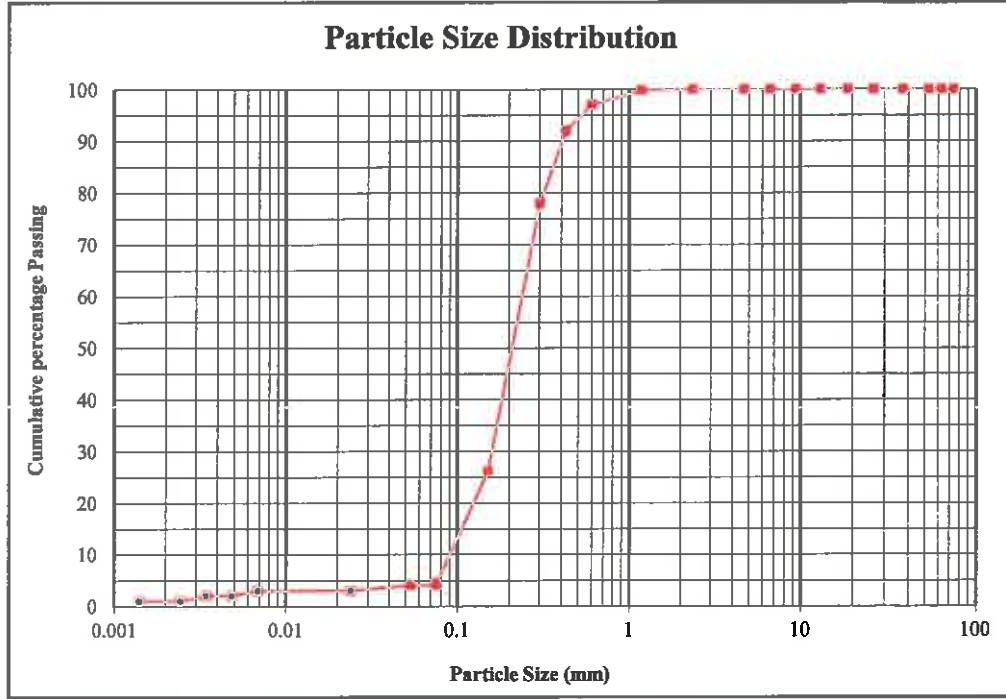
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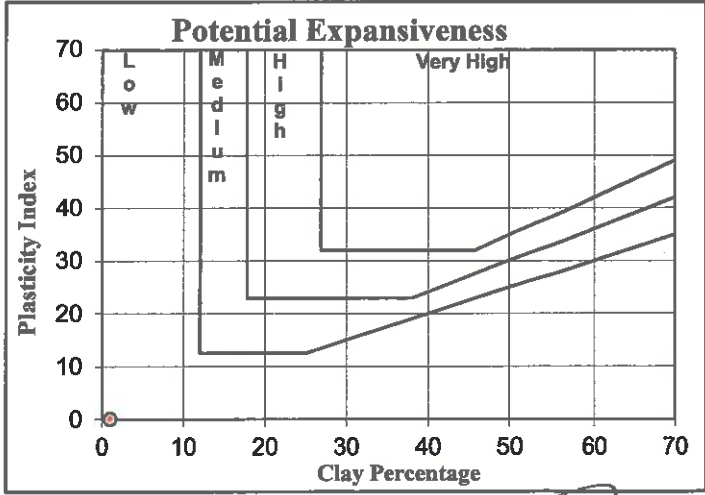
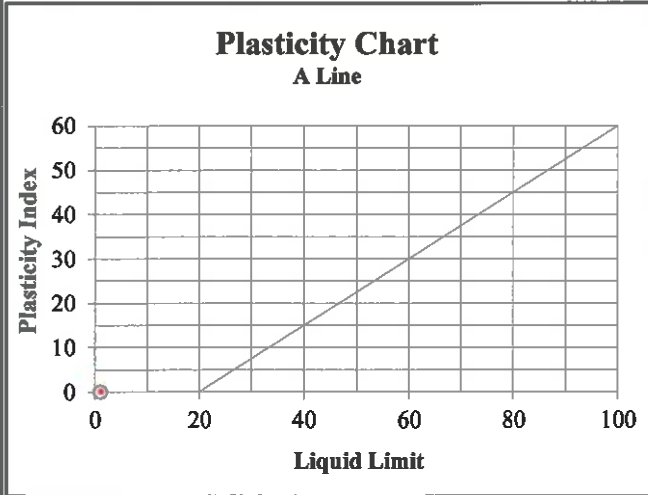
FOUNDATION INDICATOR - (TMH 1 Method A1(a), A2, A3, A4, A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53610		
Position:	KB46	Liquid Limit	-	Linear Shrinkage	0
Depth:	9.0 - 9.45	Plasticity Index	NP	Insitu M/C%	0.0

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	97
0.425	92
0.300	78
0.150	26
0.075	4.4
0.0753	4
0.0532	4
0.0238	3
0.0069	3
0.0049	2
0.0034	2
0.0024	1
0.0014	1



% Clay	1	% Silt	3	% Sand	96	% Gravel	0
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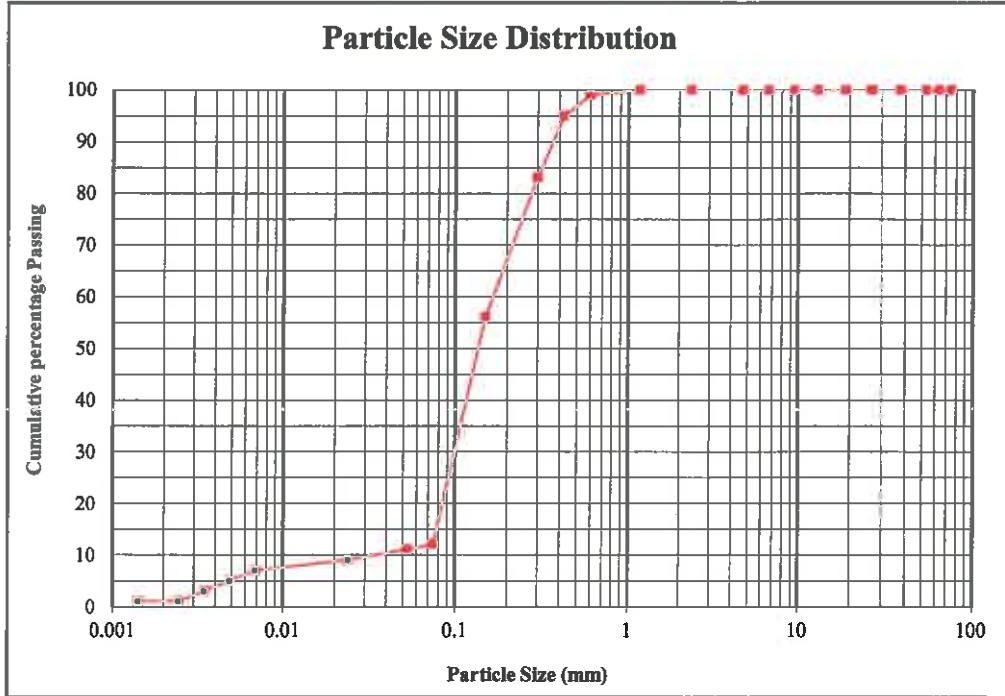
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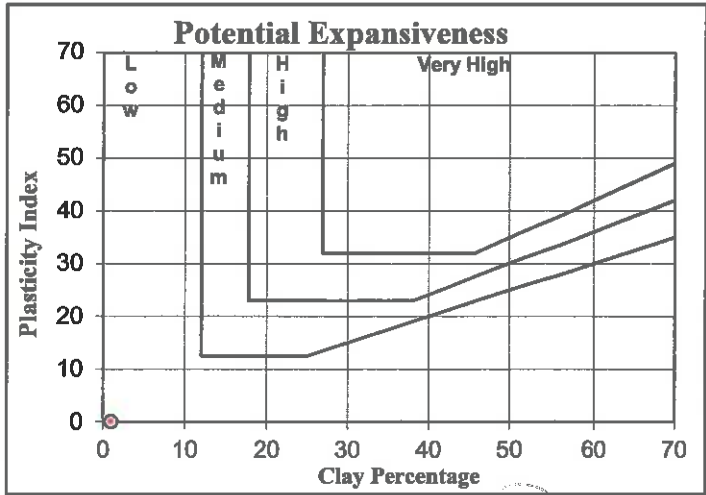
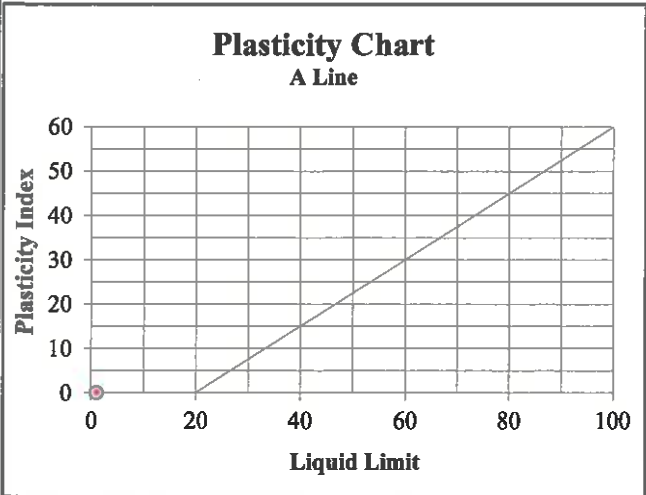
FOUNDATION INDICATOR - (TMH 1 Method A1(a), A2, A3, A4, A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand	Sample Number:	53611		
Position:	KB46	Liquid Limit	-	Linear Shrinkage	0
Depth:	12.5 - 12.95	Plasticity index	NP	Insitu M/C%	0.3

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	99
0.425	95
0.300	83
0.150	56
0.075	12.0
0.0753	12
0.0532	11
0.0238	9
0.0069	7
0.0049	5
0.0034	3
0.0024	1
0.0014	1



% Clay	1	% Silt	10	% Sand	89	% Gravel	0
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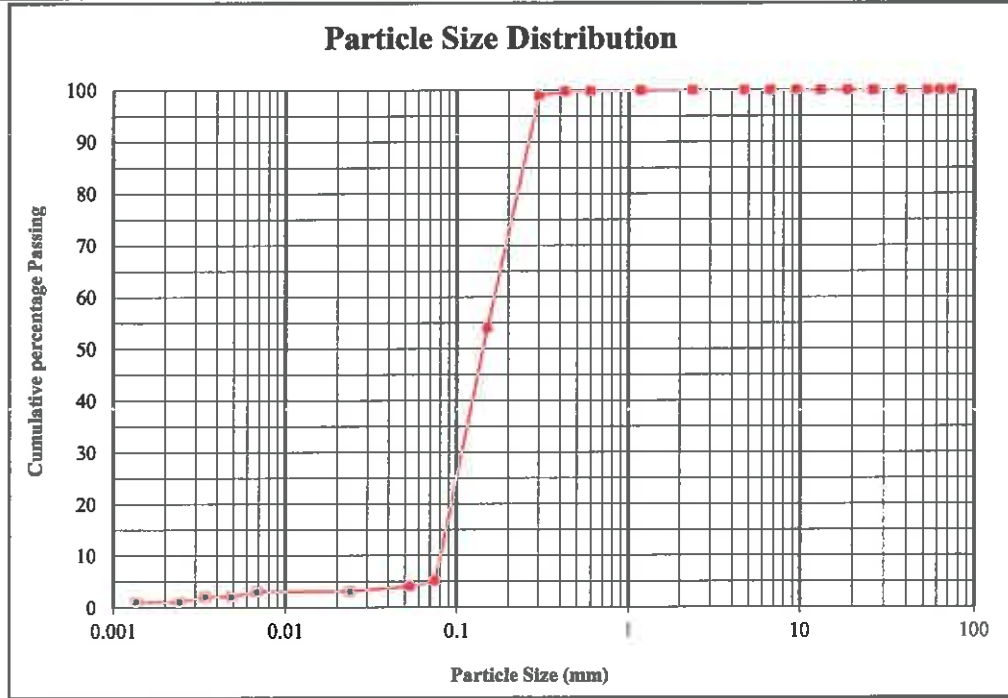
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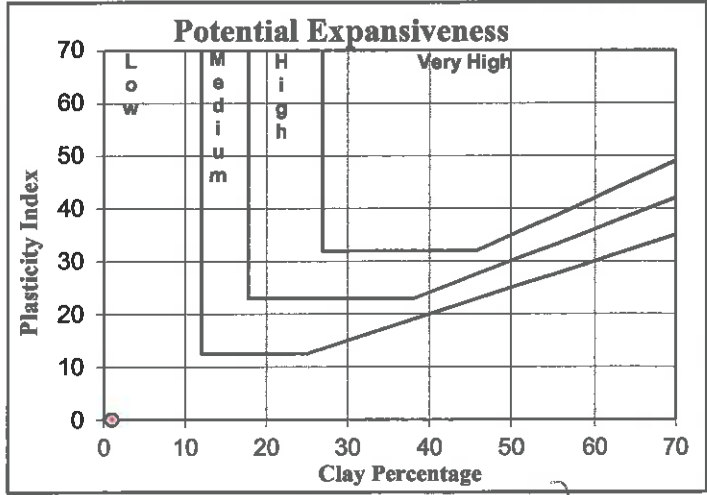
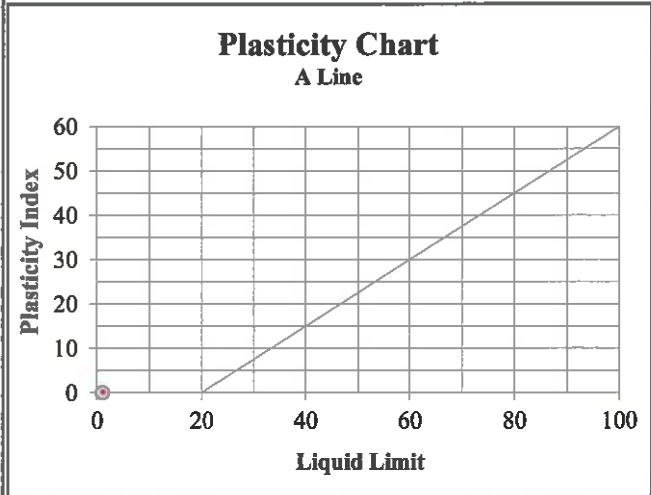
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand	Sample Number:	53612		
Position:	KB46	Liquid Limit	-	Linear Shrinkage	0
Depth:	18.0 - 18.45	Plasticity Index	NP	Insitu M/C%	0.2

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	100
0.425	100
0.300	99
0.150	54
0.075	5.0
0.0753	5
0.0532	4
0.0238	3
0.0069	3
0.0049	2
0.0034	2
0.0024	1
0.0014	1



% Clay	1	% Silt	3	% Sand	96	% Gravel	0
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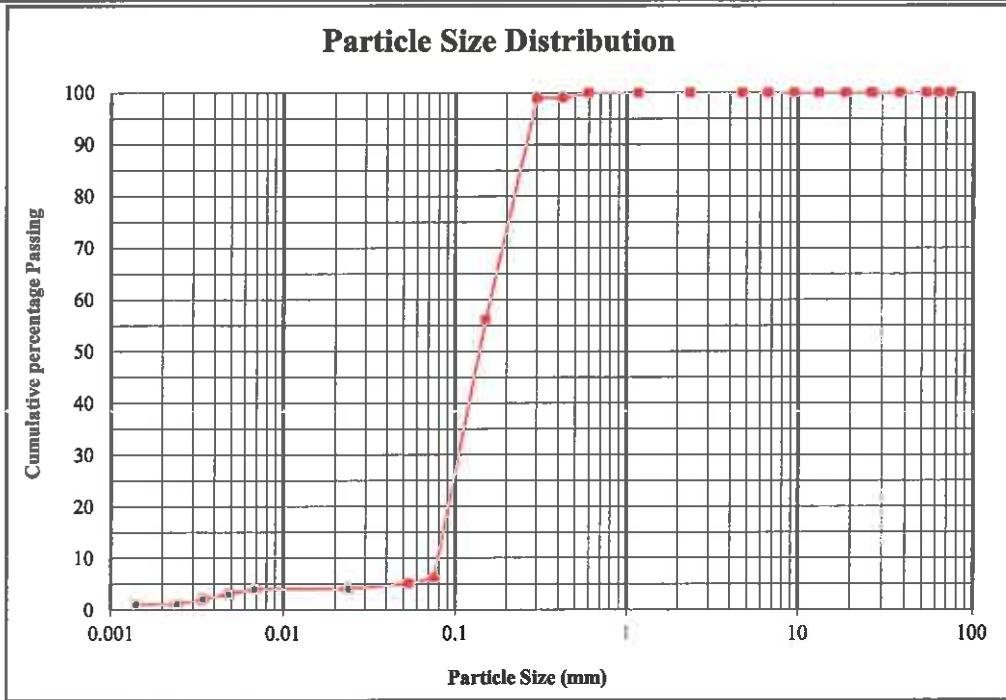
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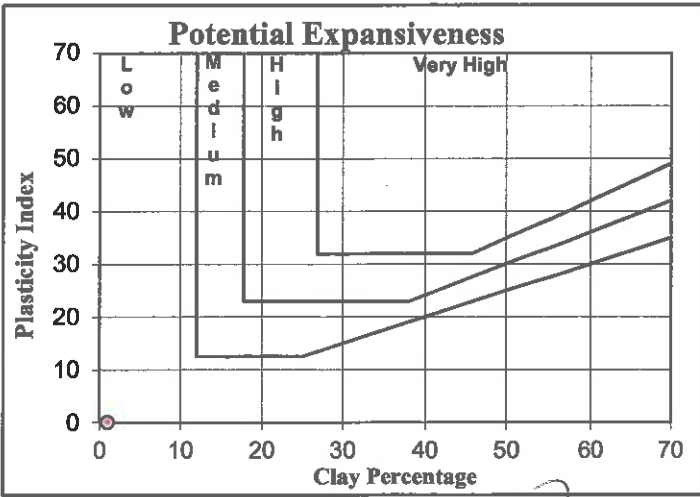
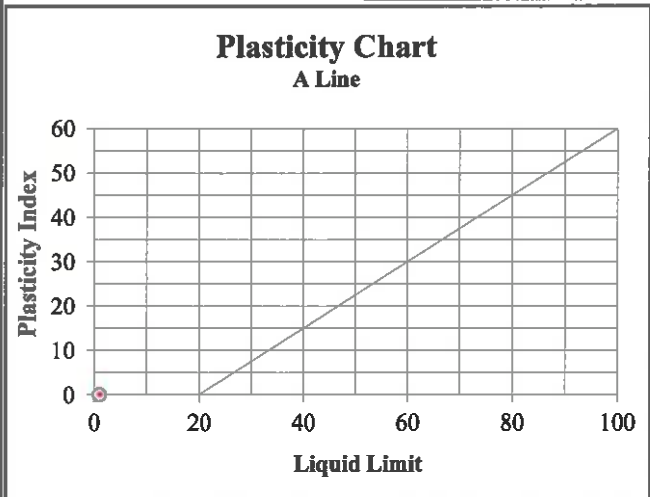
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand	Sample Number:	53613		
Position:	KB46	Liquid Limit	-	Linear Shrinkage	0
Depth:	19.95 - 21.0	Plasticity Index	NP	Insitu M/C%	3.8

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
28.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	100
0.425	99
0.300	99
0.150	56
0.075	6.0
0.0753	6
0.0532	5
0.0238	4
0.0069	4
0.0049	3
0.0034	2
0.0024	1
0.0014	1



% Clay	1	% Silt	4	% Sand	95	% Gravel	0
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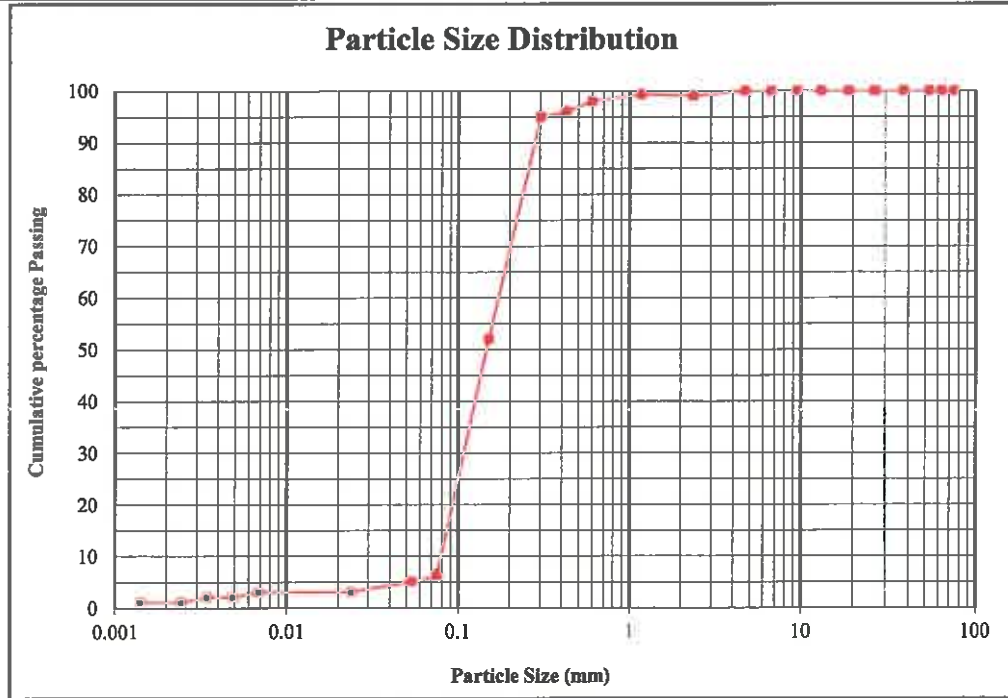
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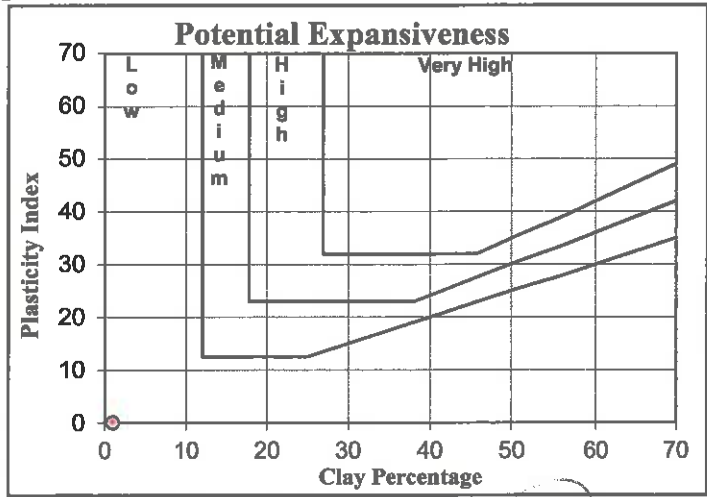
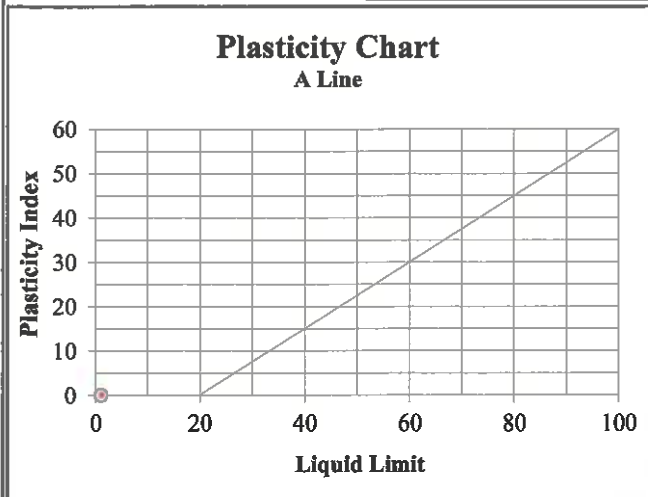
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand	Sample Number:	53614		
Position:	KB46	Liquid Limit	-	Linear Shrinkage	0
Depth:	22.95 - 23.90	Plasticity Index	NP	Insitu M/C%	3

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	99
1.18	99
0.600	98
0.425	96
0.300	95
0.150	52
0.075	6.4
0.0753	6
0.0532	5
0.0238	3
0.0069	3
0.0049	2
0.0034	2
0.0024	1
0.0014	1



% Clay	1	% Silt	4	% Sand	94	% Gravel	1
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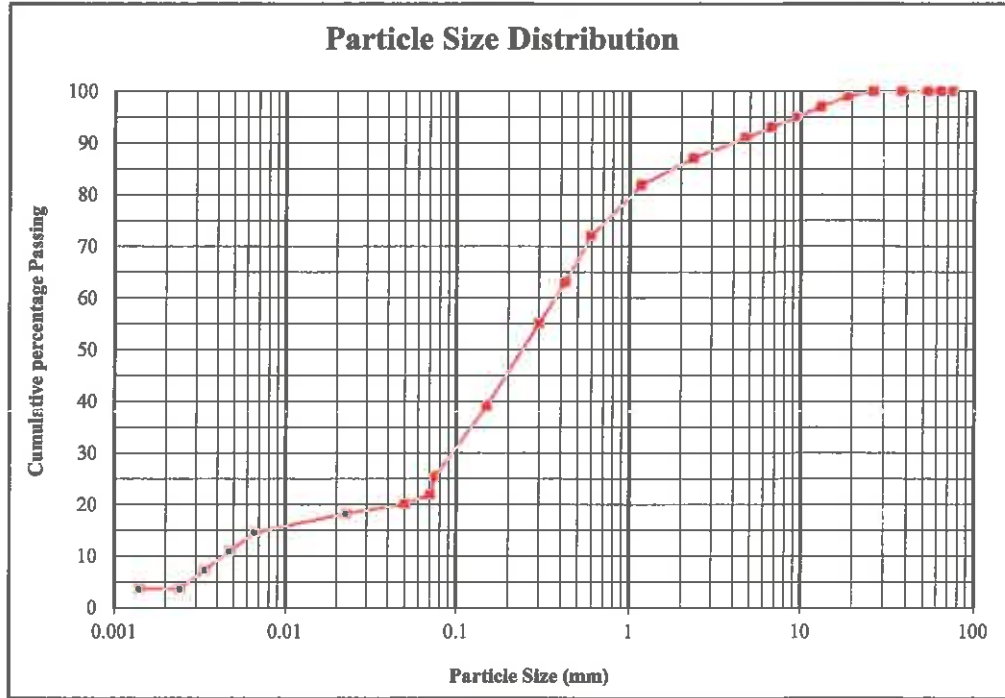
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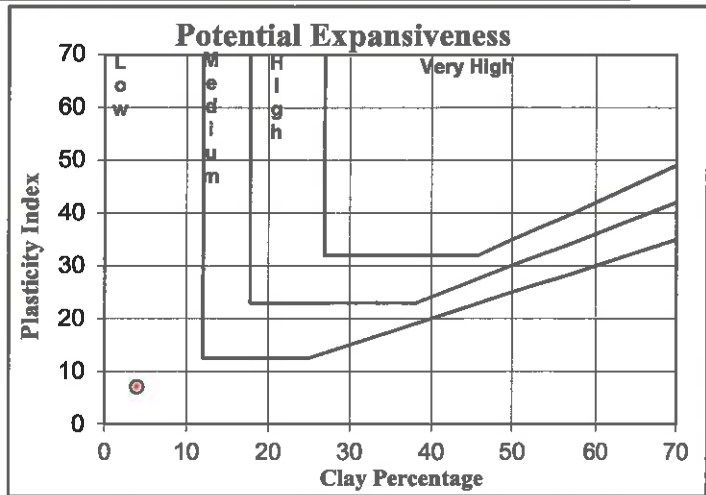
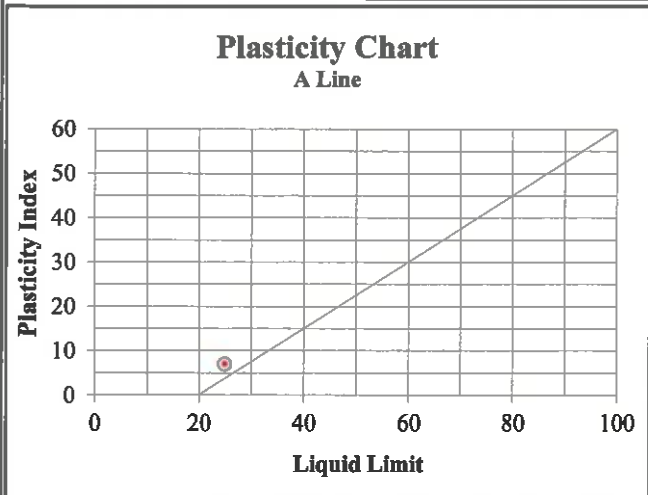
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Grey Soil with Shale	Sample Number:	53615		
Position:	KB46	Liquid Limit	25	Linear Shrinkage	3.3
Depth:	29.2 - 29.45	Plasticity Index	7	Insitu M/C%	4.1

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	99
13.2	97
9.5	95
6.7	93
4.75	91
2.36	87
1.18	82
0.600	72
0.425	63
0.300	55
0.150	39
0.075	25
0.0705	22
0.0502	20
0.0226	18
0.0066	15
0.0047	11
0.0034	7
0.0024	4
0.0014	4



% Clay	4	% Silt	17	% Sand	64	% Gravel	15
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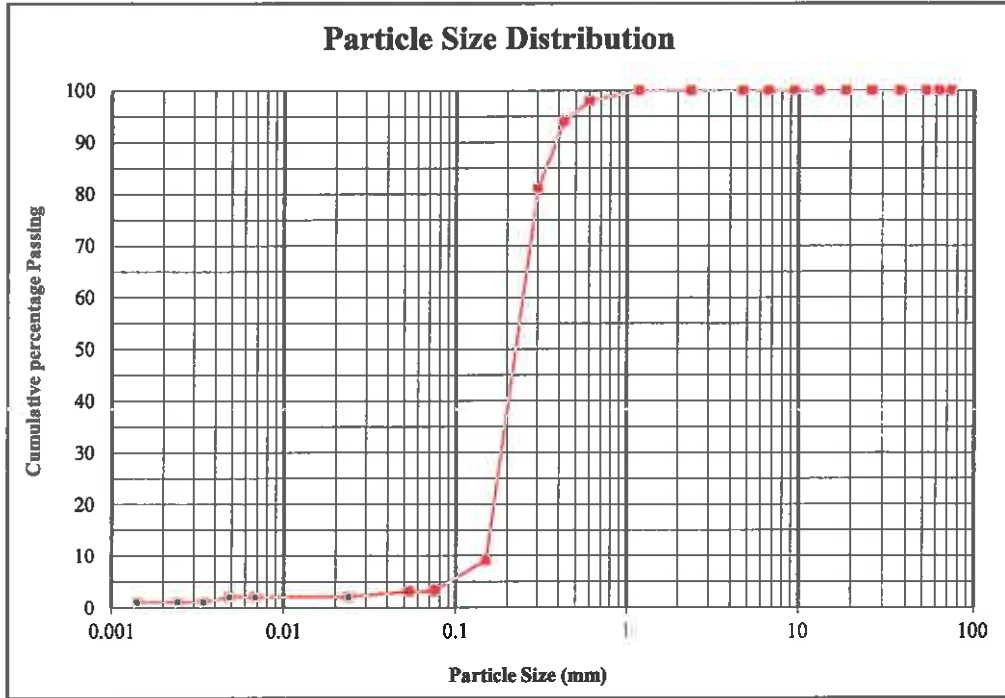
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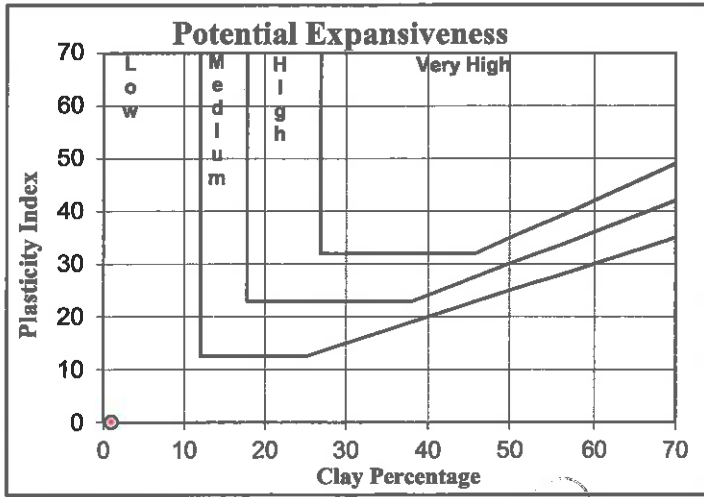
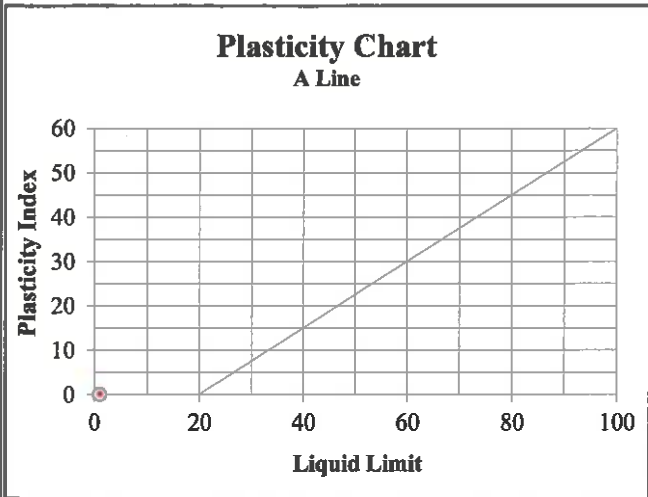
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53616		
Position:	KB47	Liquid Limit	-	Linear Shrinkage	0
Depth:	4.5 - 4.95	Plasticity Index	NP	Insitu M/C%	0.1

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	98
0.425	94
0.300	81
0.150	9
0.075	3.3
0.0753	3
0.0532	3
0.0238	2
0.0069	2
0.0049	2
0.0034	1
0.0024	1
0.0014	1



% Clay	1	% Silt	2	% Sand	97	% Gravel	0
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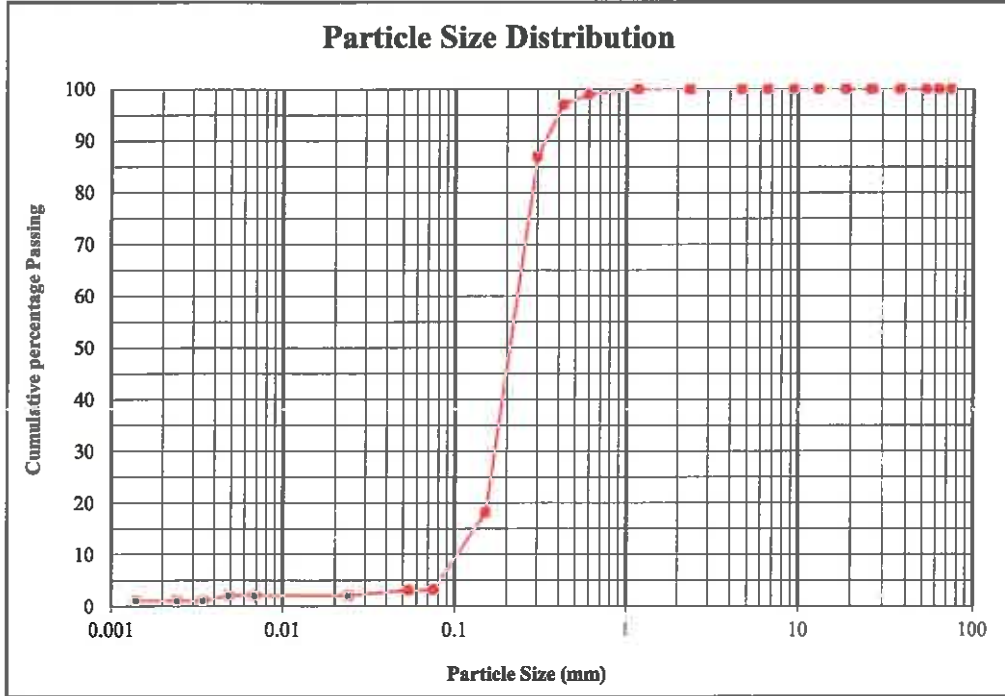
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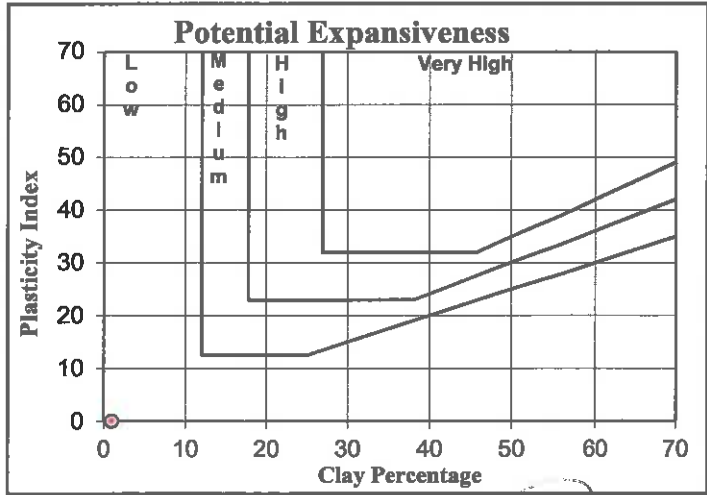
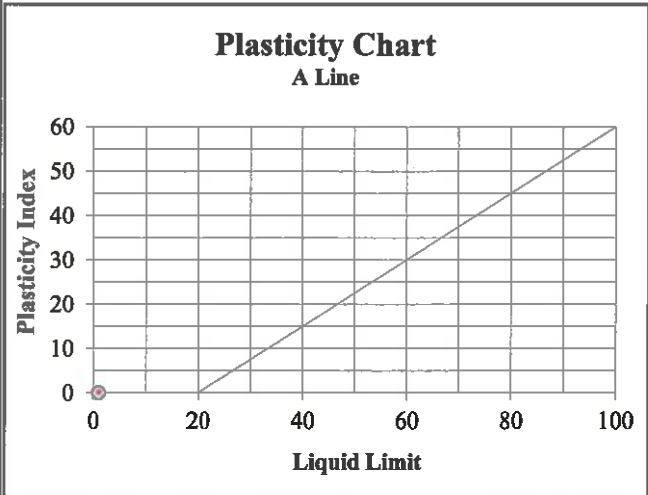
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53617		
Position:	KB47	Liquid Limit	-	Linear Shrinkage	0
Depth:	10.5 - 10.95	Plasticity Index	NP	Insitu M/C%	2.9

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	99
0.425	97
0.300	87
0.150	18
0.075	3.2
0.0753	3
0.0532	3
0.0238	2
0.0069	2
0.0049	2
0.0034	1
0.0024	1
0.0014	1



% Clay	1	% Silt	2	% Sand	97	% Gravel	0
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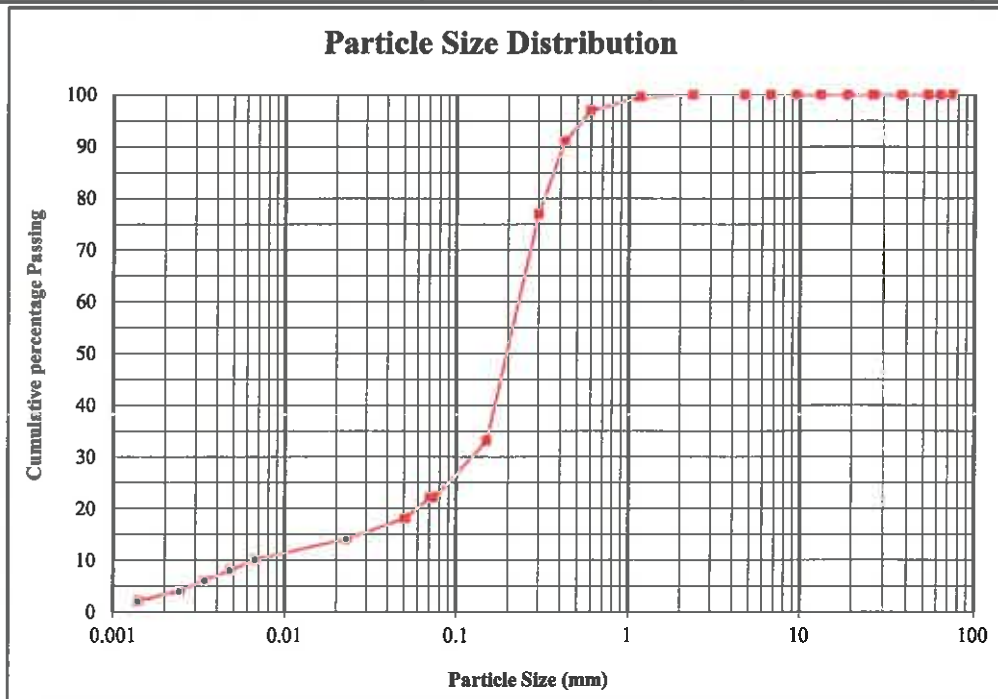
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 Attention : Danielle du Preez

Project : Koeberg
 Date Received : 30.08.2021
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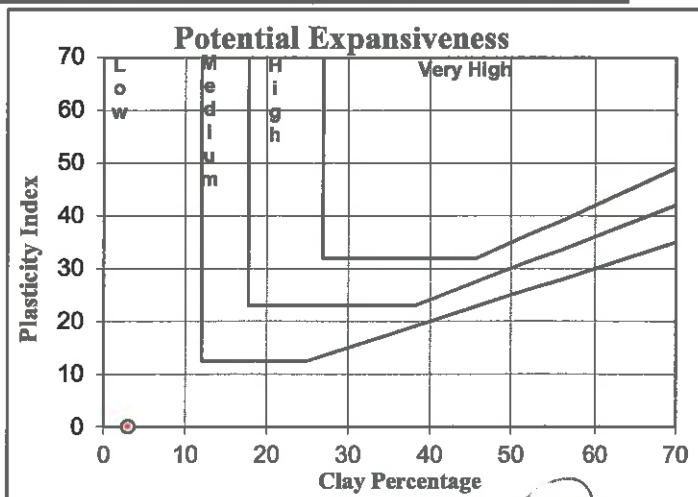
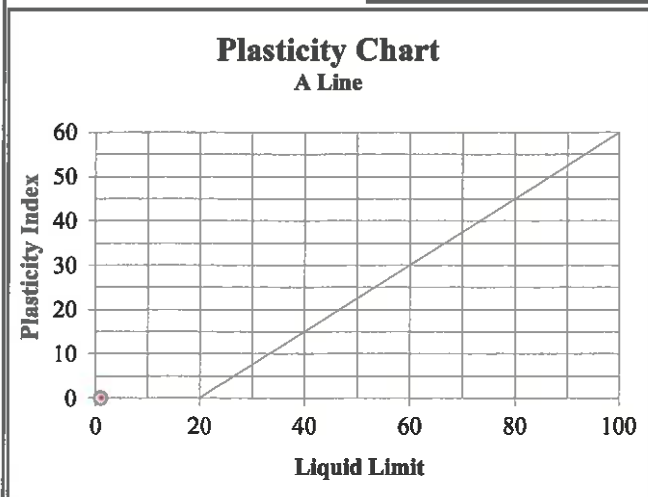
FOUNDATION INDICATOR - (TMH 1 Method A1(a), A2, A3, A4, A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand	Sample Number:	53618		
Position:	KB47	Liquid Limit	-	Linear Shrinkage	1.1
Depth:	18.07 - 18.4	Plasticity Index	SP	Insitu M/C%	6.2

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	97
0.425	91
0.300	77
0.150	33
0.075	22
0.0710	22
0.0507	18
0.0230	14
0.0067	10
0.0048	8
0.0034	6
0.0024	4
0.0014	2



% Clay	3	% Silt	17	% Sand	80	% Gravel	0
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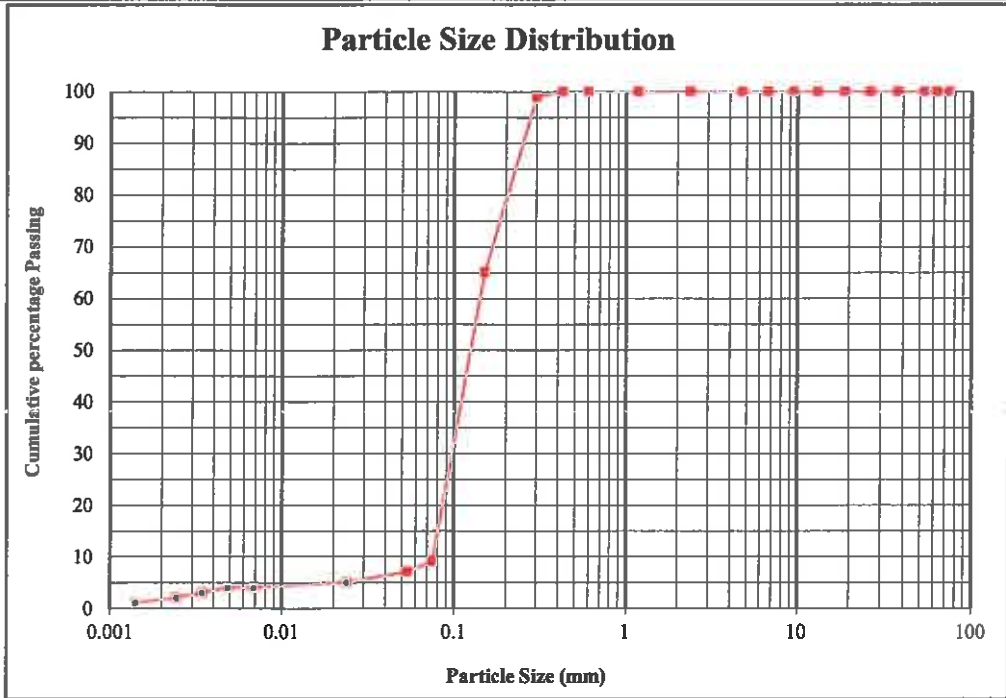
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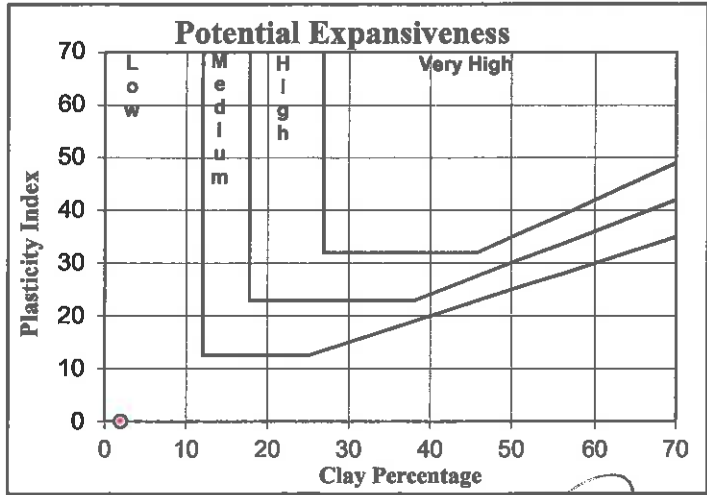
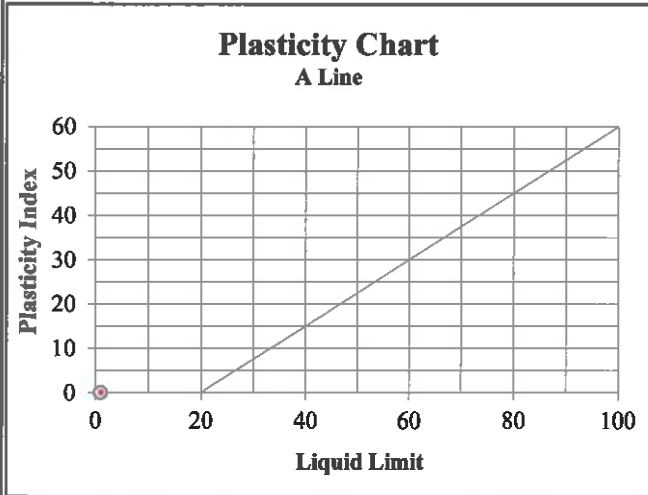
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand	Sample Number:	53619		
Position:	KB47	Liquid Limit	-	Linear Shrinkage	0
Depth:	22.50 - 22.95	Plasticity Index	NP	Insitu M/C%	4

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	100
0.425	100
0.300	99
0.150	65
0.075	9.1
0.0753	9
0.0532	7
0.0238	5
0.0069	4
0.0049	4
0.0034	3
0.0024	2
0.0014	1



% Clay	2	% Silt	6	% Sand	92	% Gravel	0
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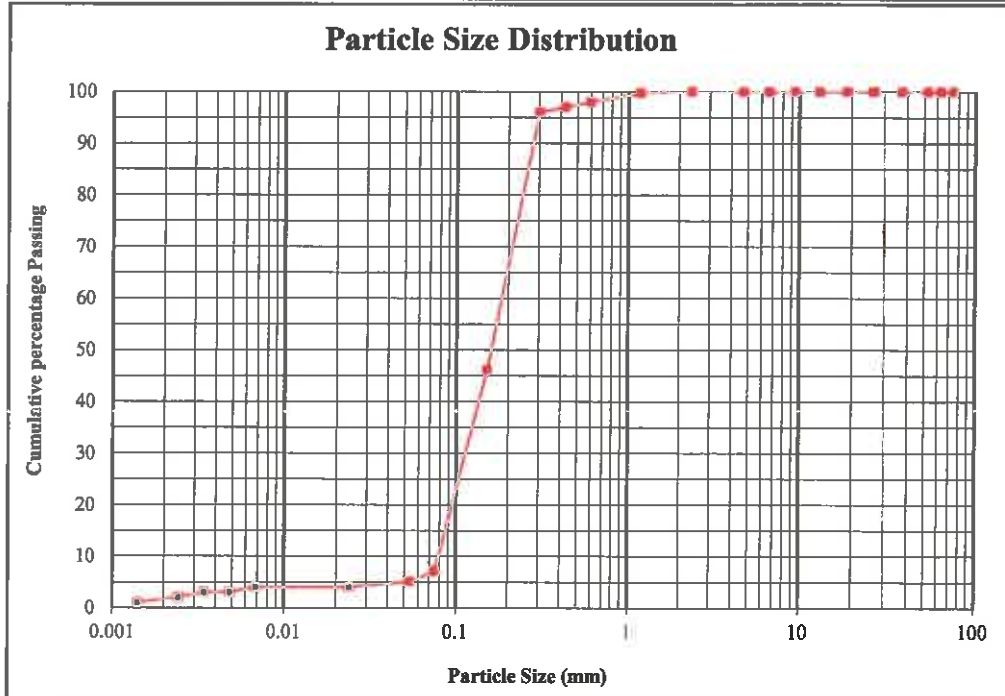
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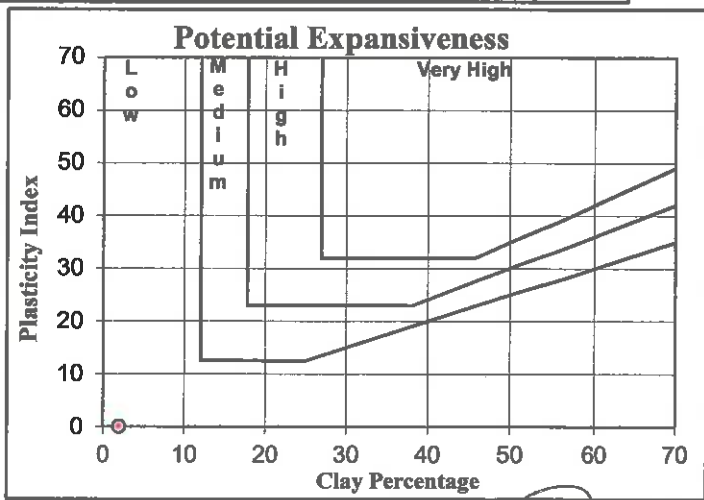
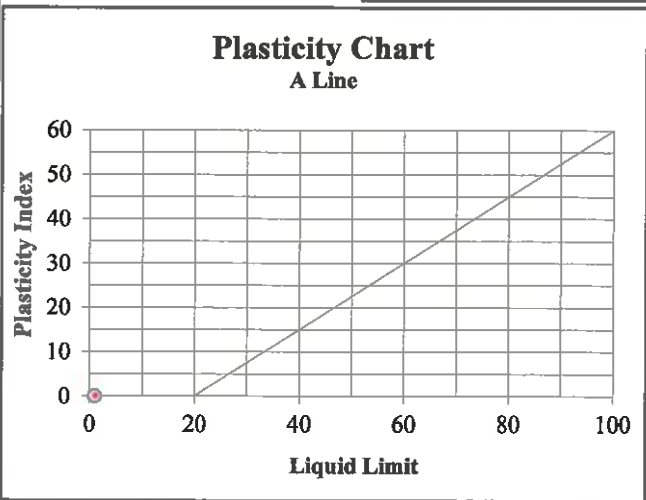
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand	Sample Number:	53620		
Position:	KB47	Liquid Limit	-	Linear Shrinkage	0
Depth:	27.0 - 27.45	Plasticity Index	NP	Insitu M/C%	5.8

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.38	100
1.18	100
0.800	98
0.425	97
0.300	96
0.150	46
0.075	7.2
0.0753	7
0.0532	5
0.0238	4
0.0069	4
0.0049	3
0.0034	3
0.0024	2
0.0014	1



% Clay	2	% Silt	4	% Sand	94	% Gravel	0
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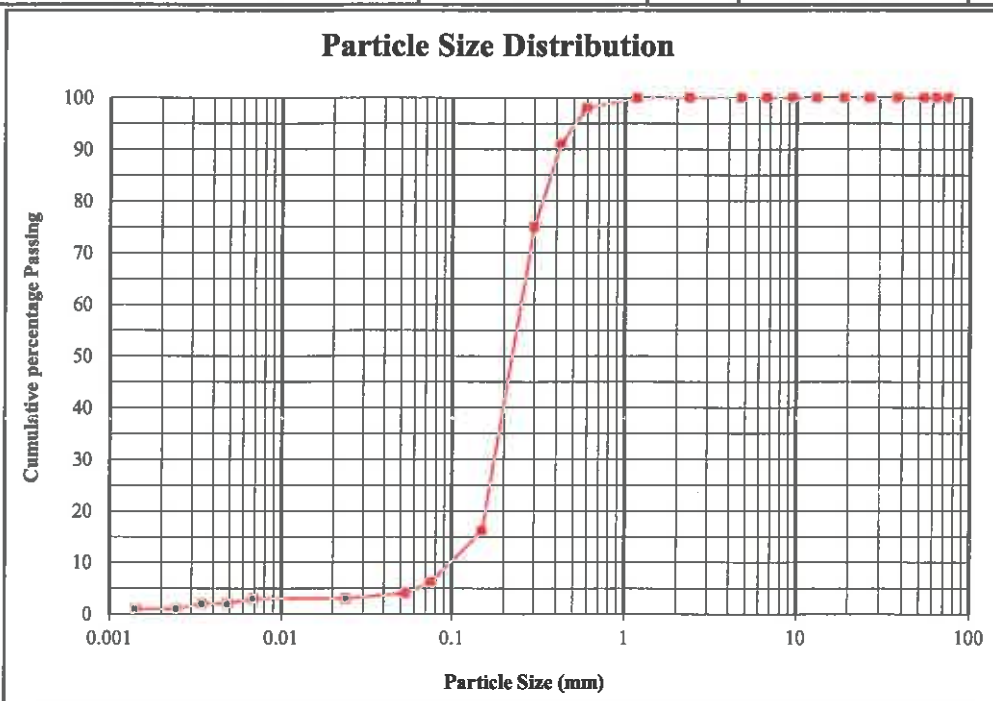
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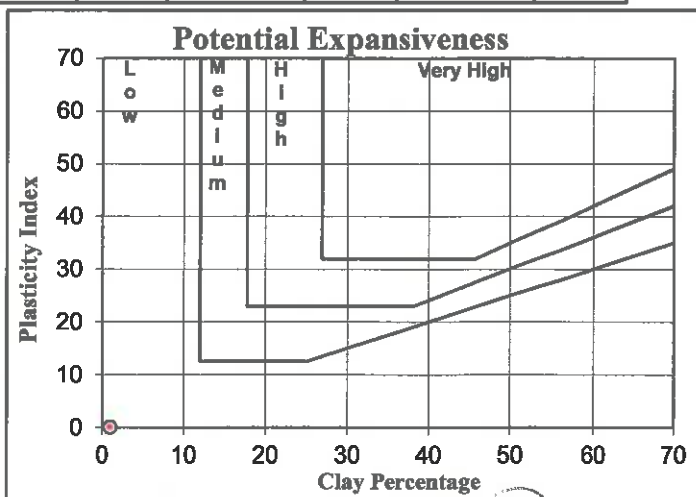
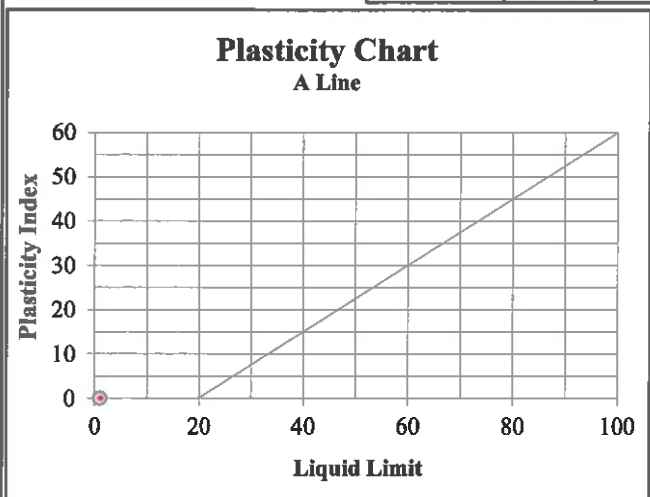
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Yellowish Brown Sand	Sample Number:	53621		
Position:	KB48	Liquid Limit	-	Linear Shrinkage	0
Depth:	3.0 - 3.45	Plasticity Index	NP	Insitu M/C%	0.3

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	98
0.425	91
0.300	75
0.150	16
0.075	6.1
0.0753	6
0.0532	4
0.0238	3
0.0069	3
0.0049	2
0.0034	2
0.0024	1
0.0014	1



% Clay	1	% Silt	4	% Sand	95	% Gravel	0
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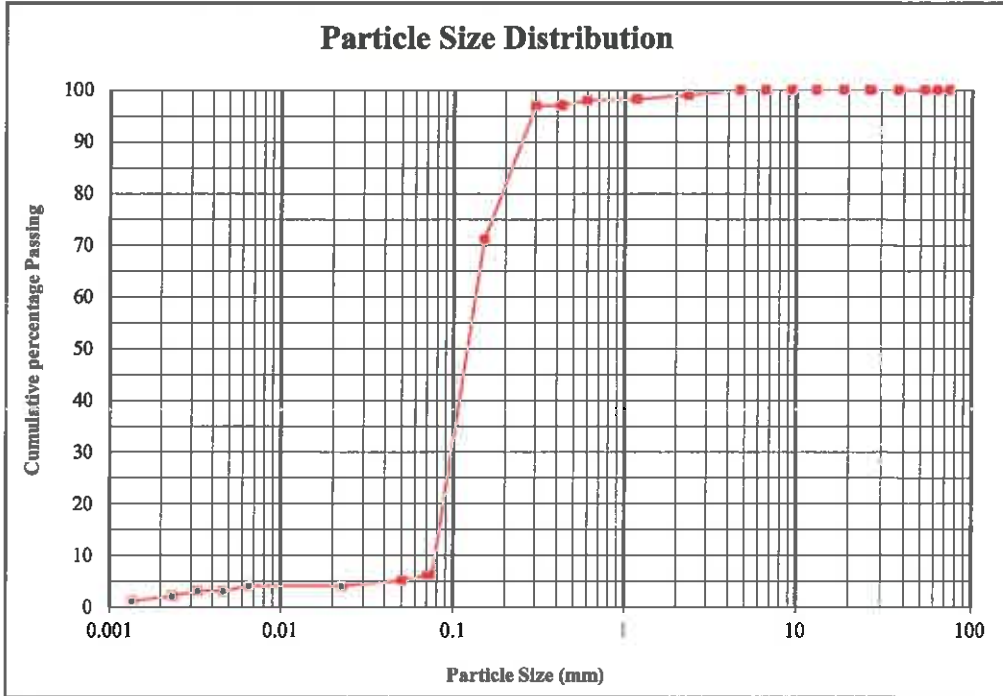
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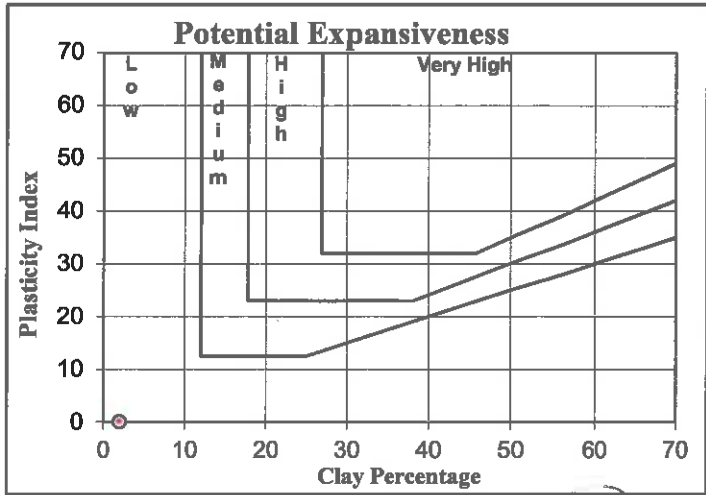
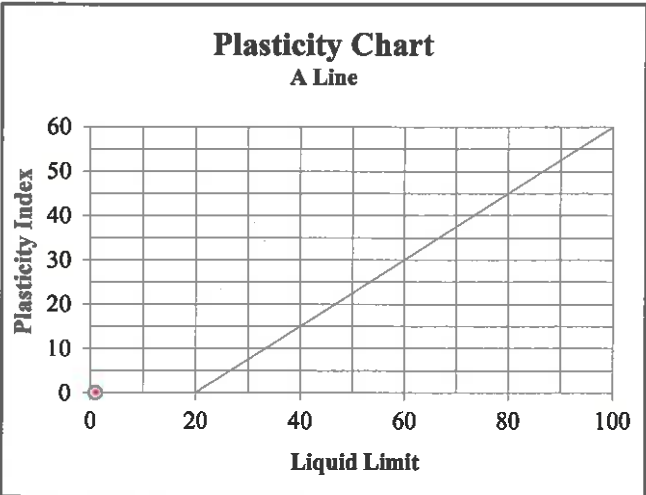
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53622 A		
Position:	KB48	Liquid Limit	-	Linear Shrinkage	0
Depth:	12.0 - 12.45	Plasticity Index	NP	Insitu M/C%	0.1

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	99
1.18	98
0.800	98
0.425	97
0.300	97
0.150	71
0.075	6.0
0.0710	6
0.0505	5
0.0227	4
0.0065	4
0.0047	3
0.0033	3
0.0023	2
0.0014	1



% Clay	2	% Silt	3	% Sand	94	% Gravel	1
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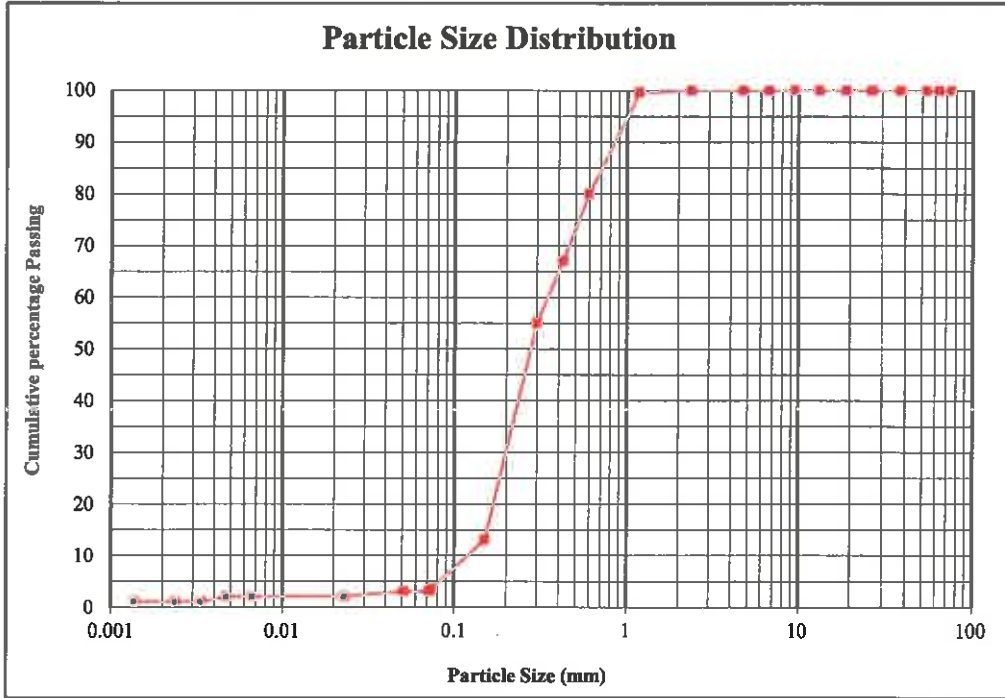
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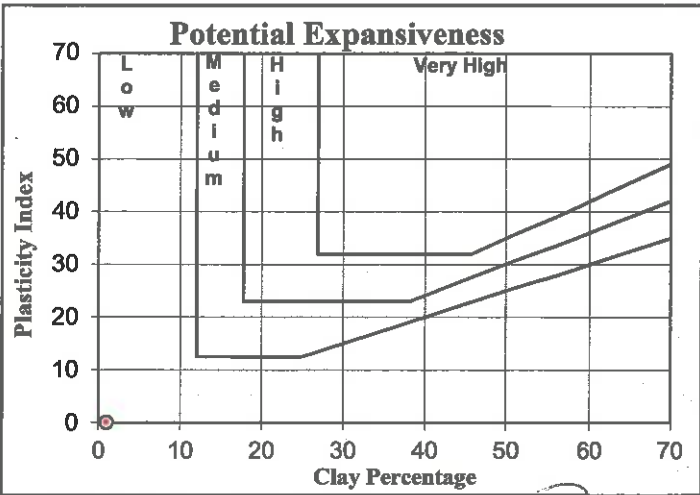
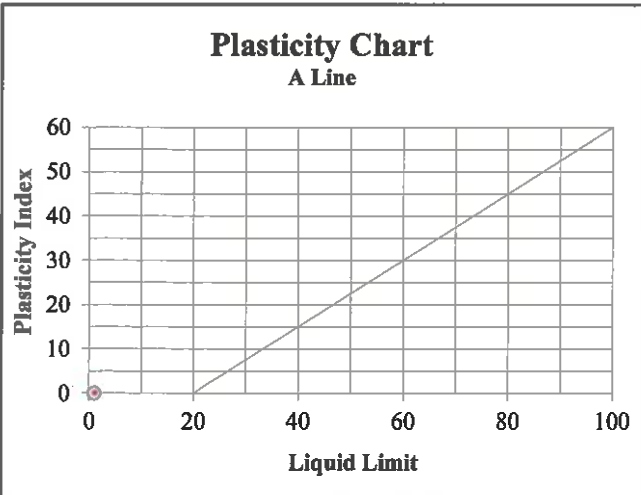
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53622 B		
Position:	KB48	Liquid Limit	-	Linear Shrinkage	0
Depth:	7.5 - 7.95	Plasticity Index	NP	Insitu M/C%	0.0

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.800	80
0.425	67
0.300	55
0.150	13
0.075	3.6
0.0722	3
0.0510	3
0.0230	2
0.0066	2
0.0047	2
0.0033	1
0.0024	1
0.0014	1



% Clay	1	% Silt	2	% Sand	97	% Gravel	0
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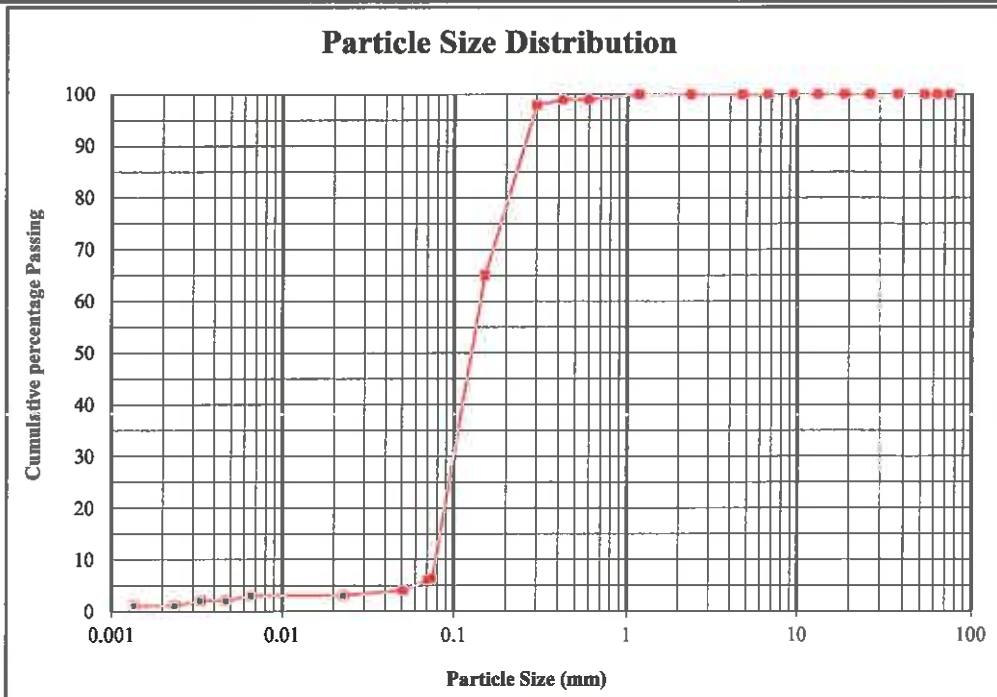
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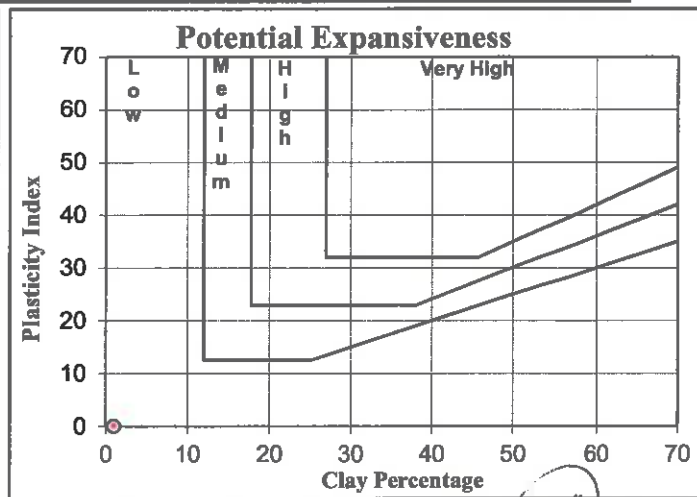
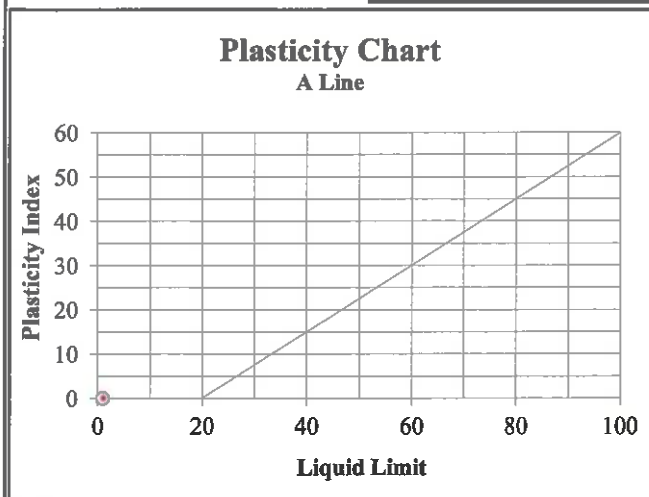
FOUNDATION INDICATOR - (TMH 1 Method A1(a), A2, A3, A4, A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53623		
Position:	KB48	Liquid Limit	-	Linear Shrinkage	0
Depth:	22.5 - 22.95	Plasticity Index	NP	Insitu M/C%	1.1

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	99
0.425	99
0.300	98
0.150	65
0.075	6.3
0.0710	6
0.0507	4
0.0228	3
0.0066	3
0.0047	2
0.0033	2
0.0024	1
0.0014	1



% Clay	1	% Silt	4	% Sand	95	% Gravel	0
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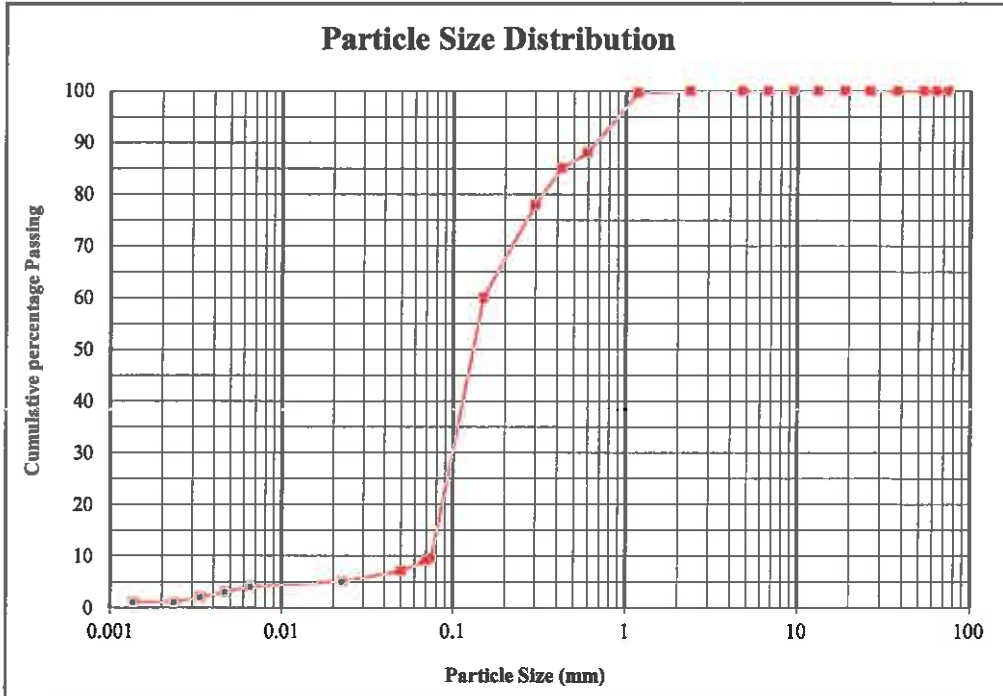
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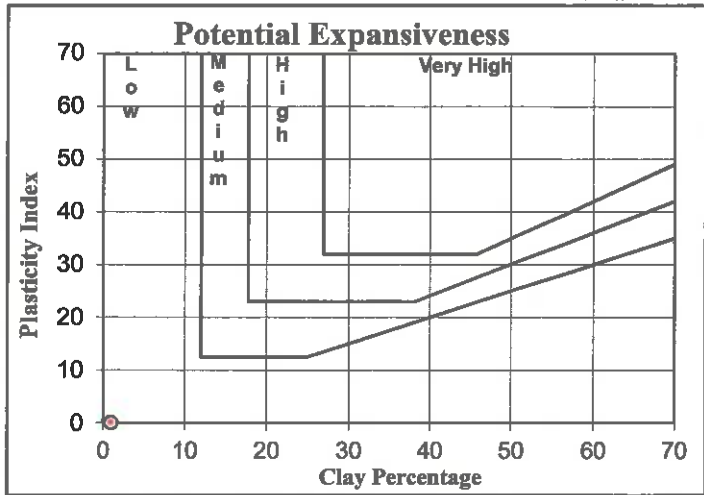
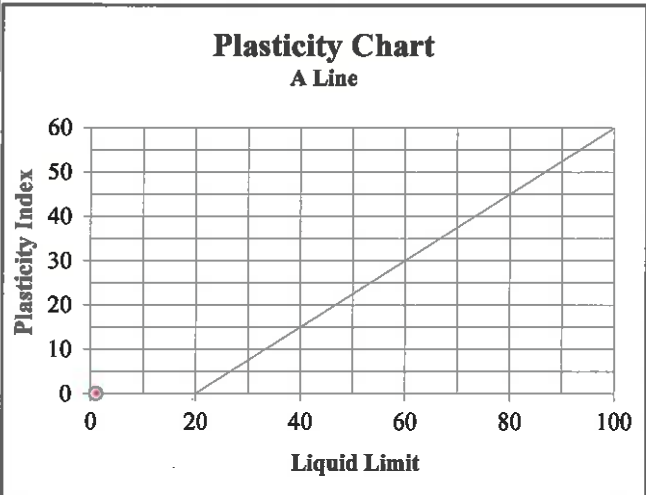
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand	Sample Number:	53624		
Position:	KB48	Liquid Limit	-	Linear Shrinkage	0
Depth:	28.5 - 28.95	Plasticity Index	NP	Insitu M/C%	4.9

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.800	88
0.425	85
0.300	78
0.150	60
0.075	9.5
0.0697	9
0.0498	7
0.0226	5
0.0065	4
0.0047	3
0.0033	2
0.0024	1
0.0014	1



% Clay	1	% Silt	7	% Sand	92	% Gravel	0
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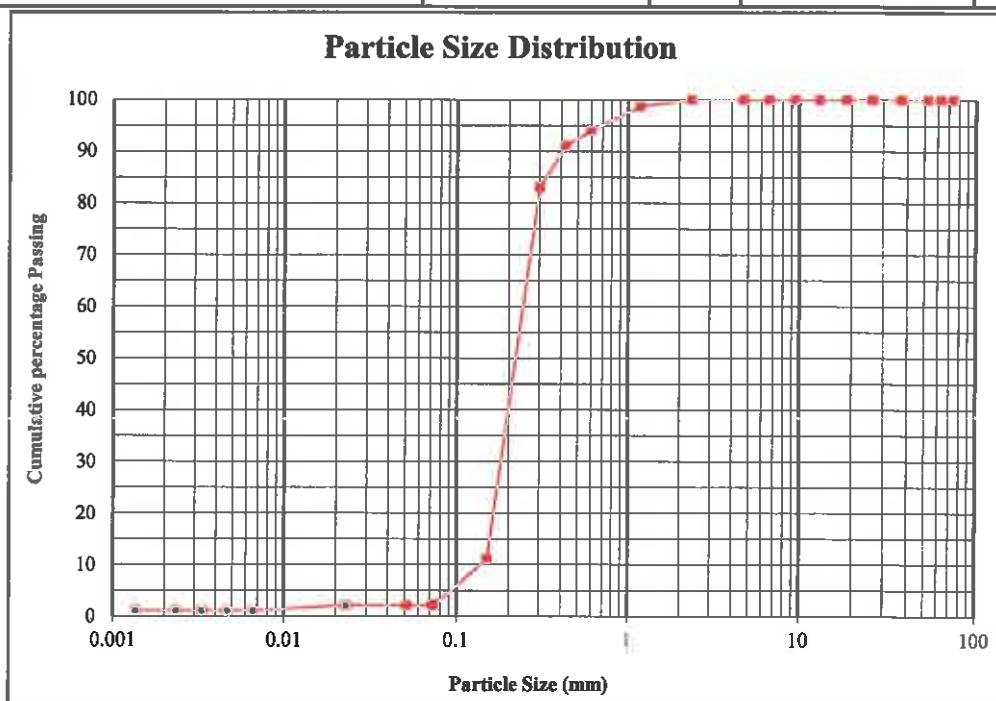
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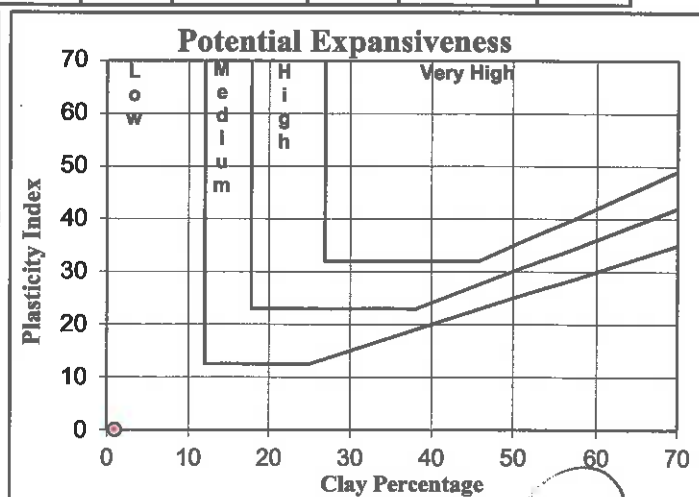
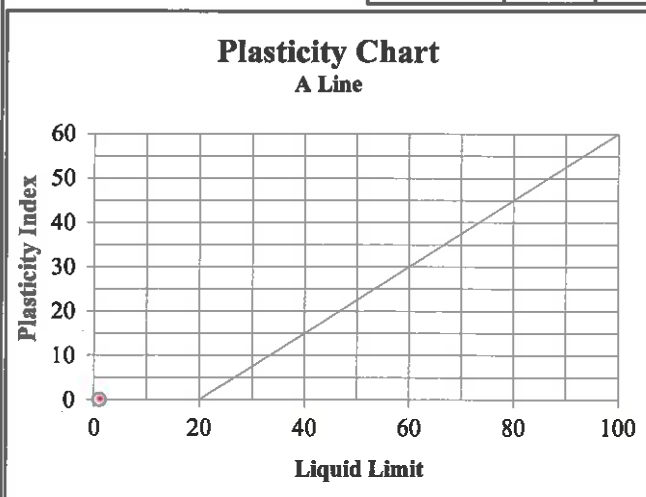
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand	Sample Number:	53625		
Position:	KB49	Liquid Limit	-	Linear Shrinkage	0
Depth:	1.5 - 1.95	Plasticity Index	NP	Insitu M/C%	0.1

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	99
0.600	94
0.425	91
0.300	83
0.150	11
0.075	2.2
0.0727	2
0.0514	2
0.0230	2
0.0067	1
0.0047	1
0.0033	1
0.0024	1
0.0014	1



% Clay	1	% Silt	1	% Sand	98	% Gravel	0
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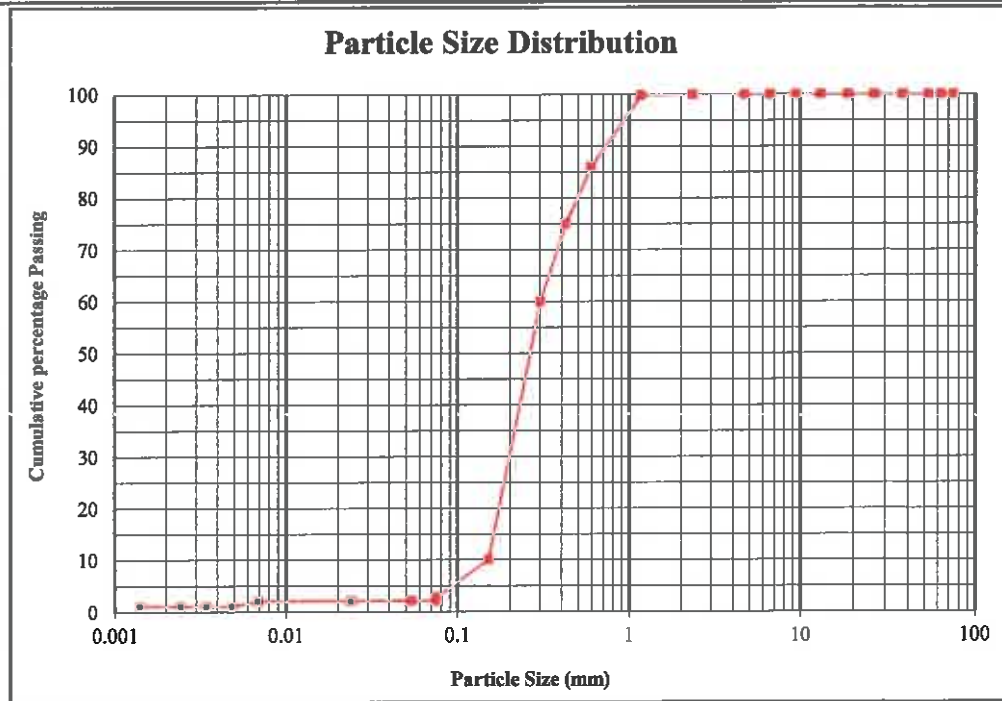
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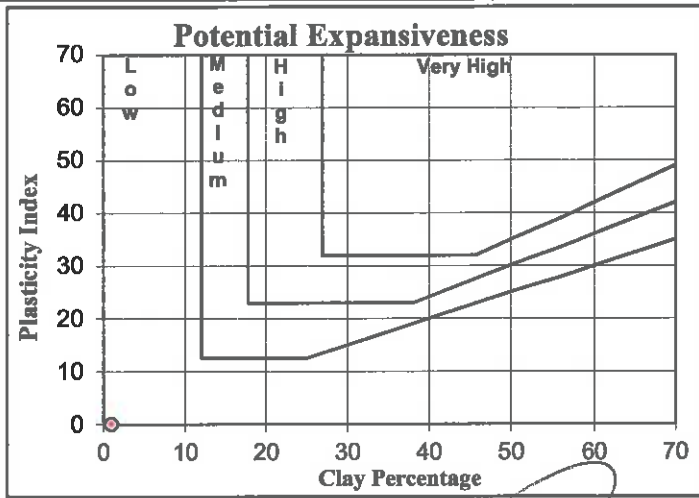
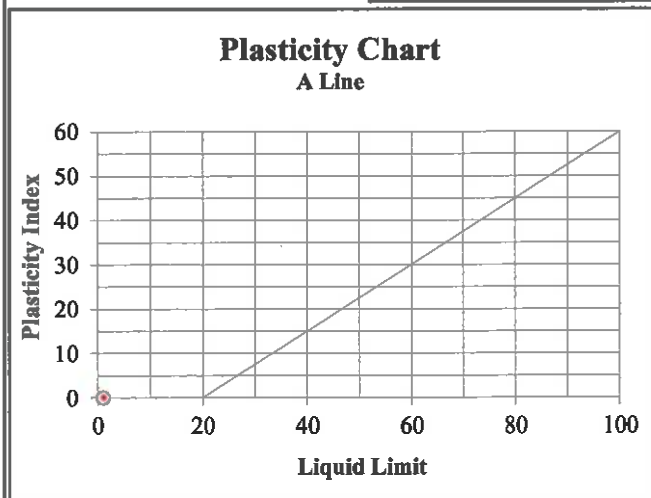
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53626		
Position:	KB49	Liquid Limit	-	Linear Shrinkage	0
Depth:	9.0 - 9.45	Plasticity Index	NP	Insitu M/C%	0.6

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	86
0.425	75
0.300	60
0.150	10
0.075	2.7
0.0753	2
0.0532	2
0.0238	2
0.0069	2
0.0049	1
0.0034	1
0.0024	1
0.0014	1



% Clay	1	% Silt	1	% Sand	98	% Gravel	0
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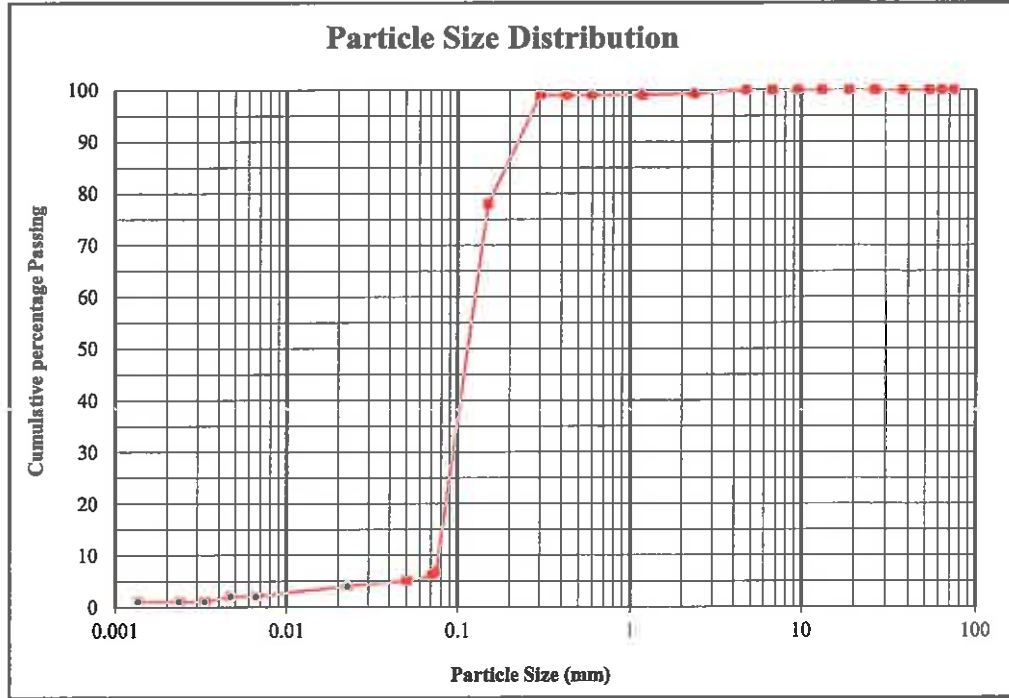
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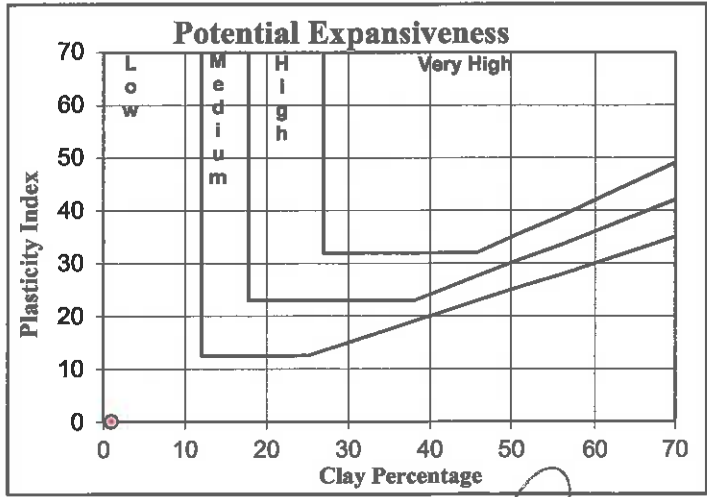
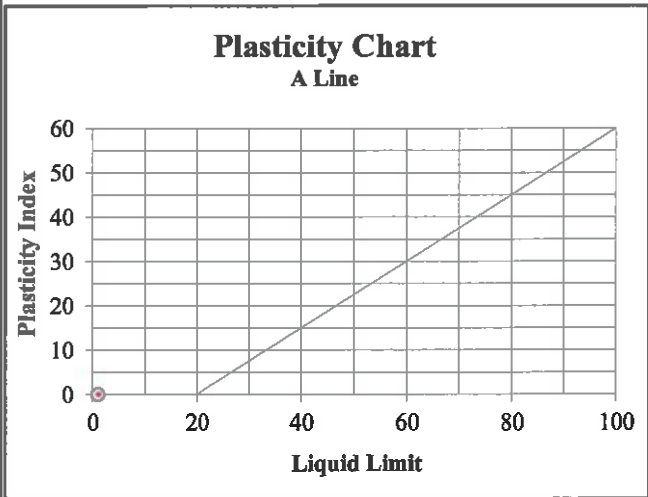
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53627		
Position:	KB49	Liquid Limit	-	Linear Shrinkage	0
Depth:	16.5 - 16.95	Plasticity Index	NP	Insitu M/C%	1.1

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	99
1.18	99
0.600	99
0.425	99
0.300	99
0.150	78
0.075	6.6
0.0710	6
0.0505	5
0.0227	4
0.0066	2
0.0047	2
0.0033	1
0.0024	1
0.0014	1



% Clay	1	% Silt	4	% Sand	94	% Gravel	1
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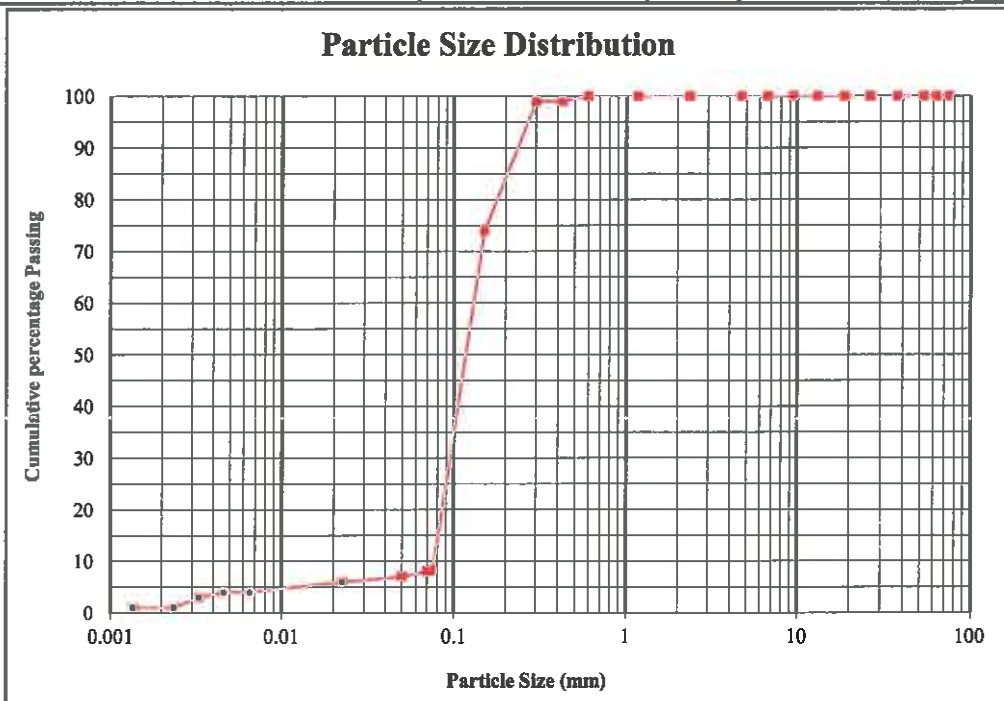
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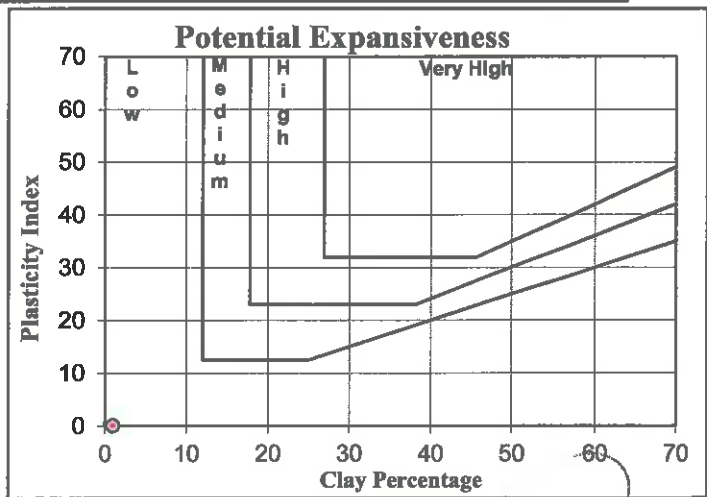
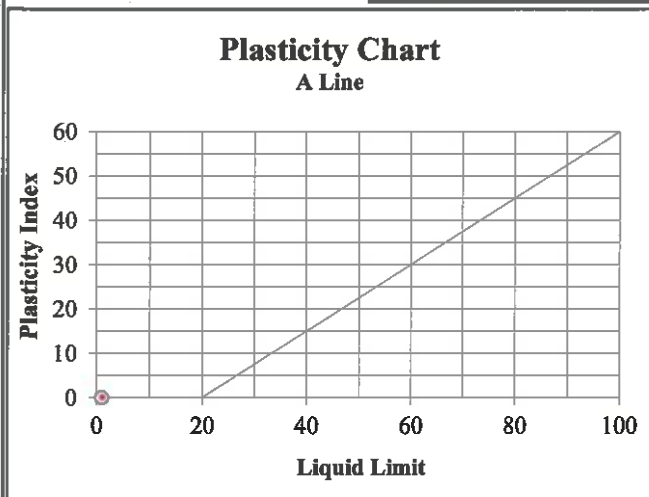
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Brown Soil	Sample Number:	53628		
Position:	KB49	Liquid Limit	-	Linear Shrinkage	0
Depth:	21.0 - 21.45	Plasticity Index	NP	In situ M/C%	4.9

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.800	100
0.425	99
0.300	99
0.150	74
0.075	8.1
0.0702	8
0.0498	7
0.0224	6
0.0065	4
0.0046	4
0.0033	3
0.0024	1
0.0014	1



% Clay	1	% Silt	6	% Sand	93	% Gravel	0
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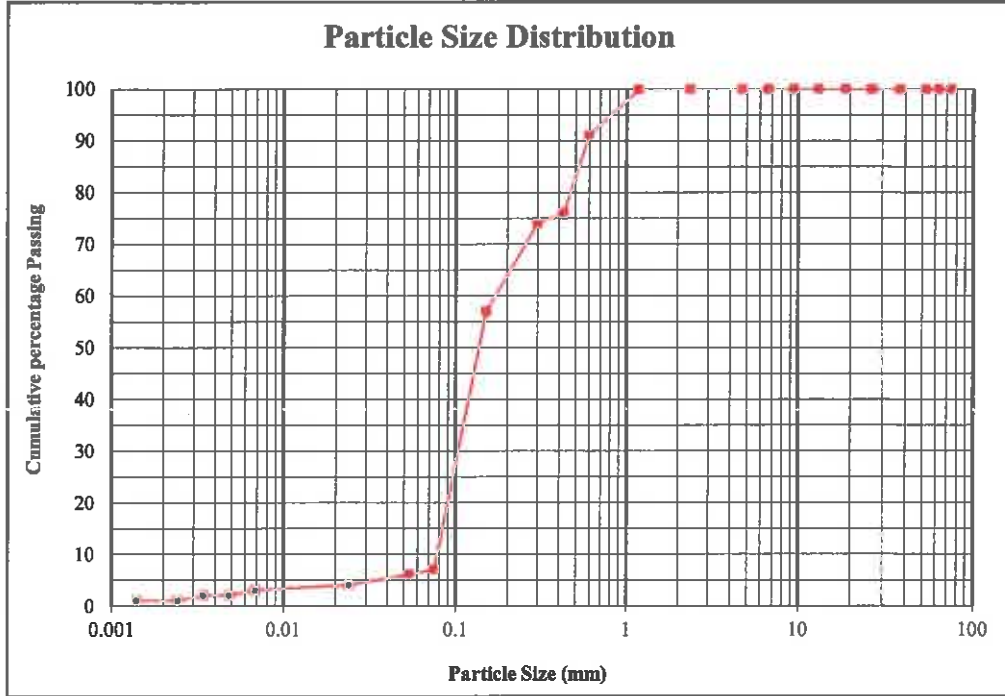
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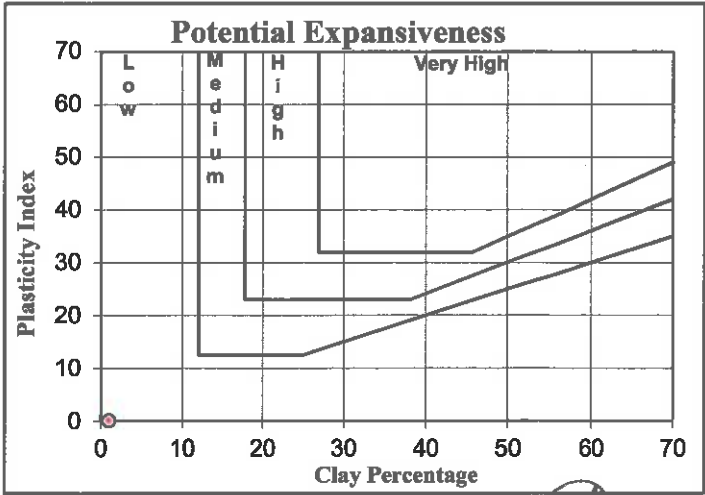
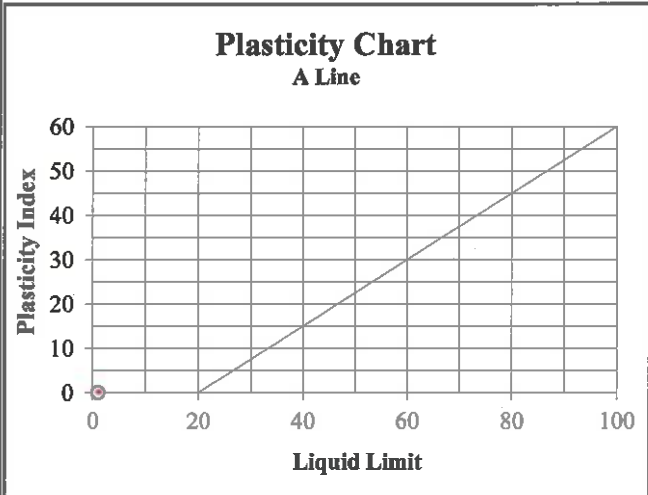
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Grey Soil	Sample Number:	53629		
Position:	KB49	Liquid Limit	-	Linear Shrinkage	0
Depth:	25 - 25.45	Plasticity Index	NP	Insitu M/C%	0.3

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	91
0.425	76
0.300	74
0.150	57
0.075	7.0
0.0753	7
0.0532	6
0.0238	4
0.0069	3
0.0049	2
0.0034	2
0.0024	1
0.0014	1



% Clay	1	% Silt	5	% Sand	94	% Gravel	0
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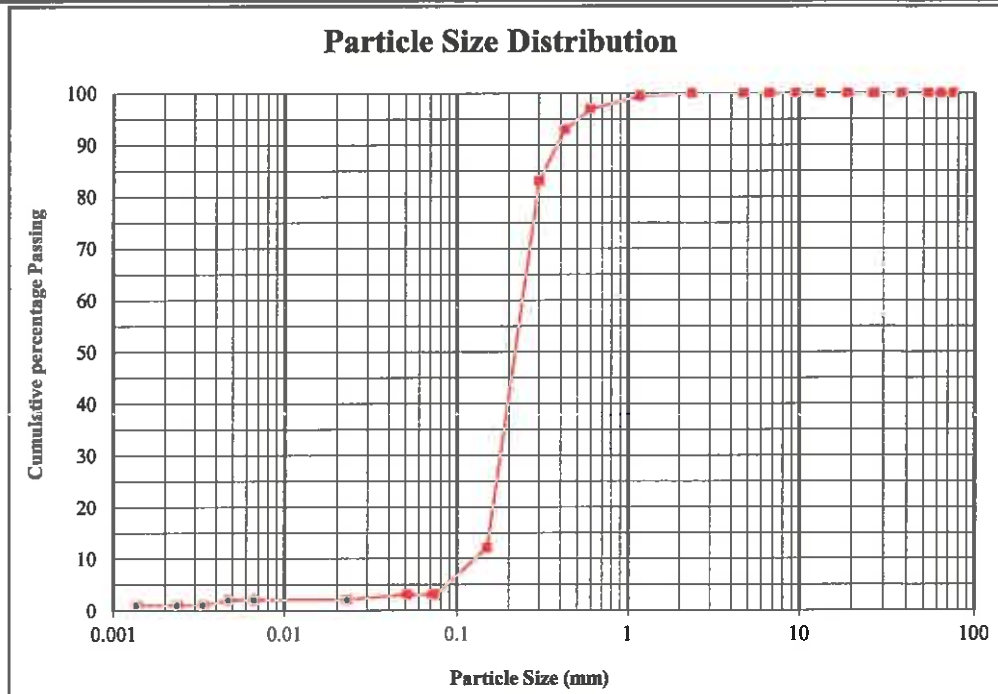
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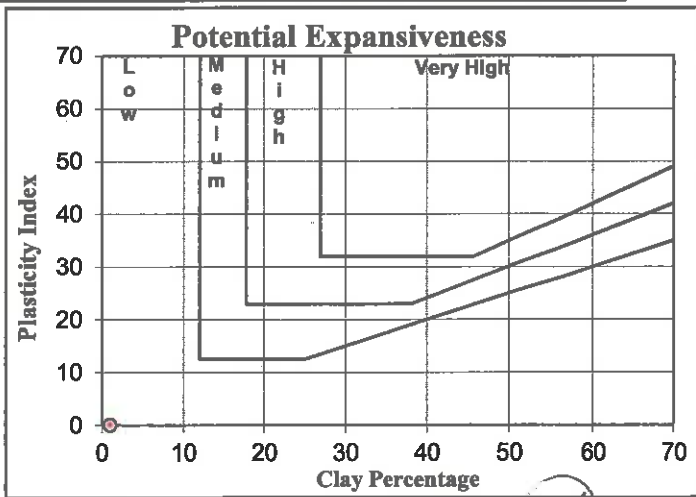
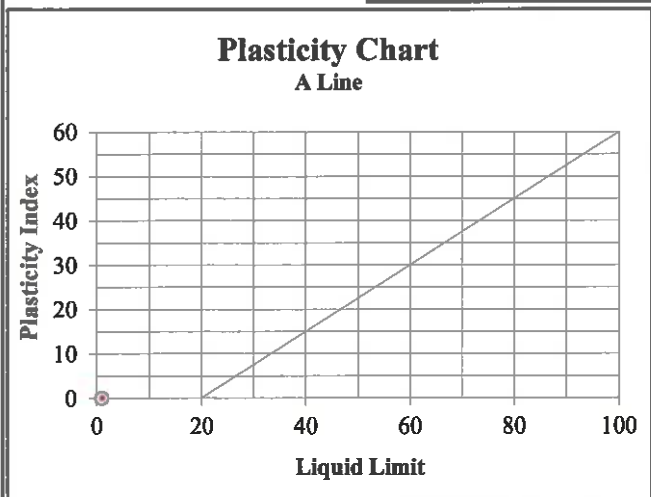
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Yellowish Brown Sand	Sample Number:	53630		
Position:	KB50	Liquid Limit	-	Linear Shrinkage	0
Depth:	6.0 - 6.45	Plasticity Index	NP	In situ M/C%	0.4

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.800	97
0.425	93
0.300	83
0.150	12
0.075	3.0
0.0722	3
0.0510	3
0.0230	2
0.0066	2
0.0047	2
0.0033	1
0.0024	1
0.0014	1



% Clay	1	% Silt	2	% Sand	97	% Gravel	0
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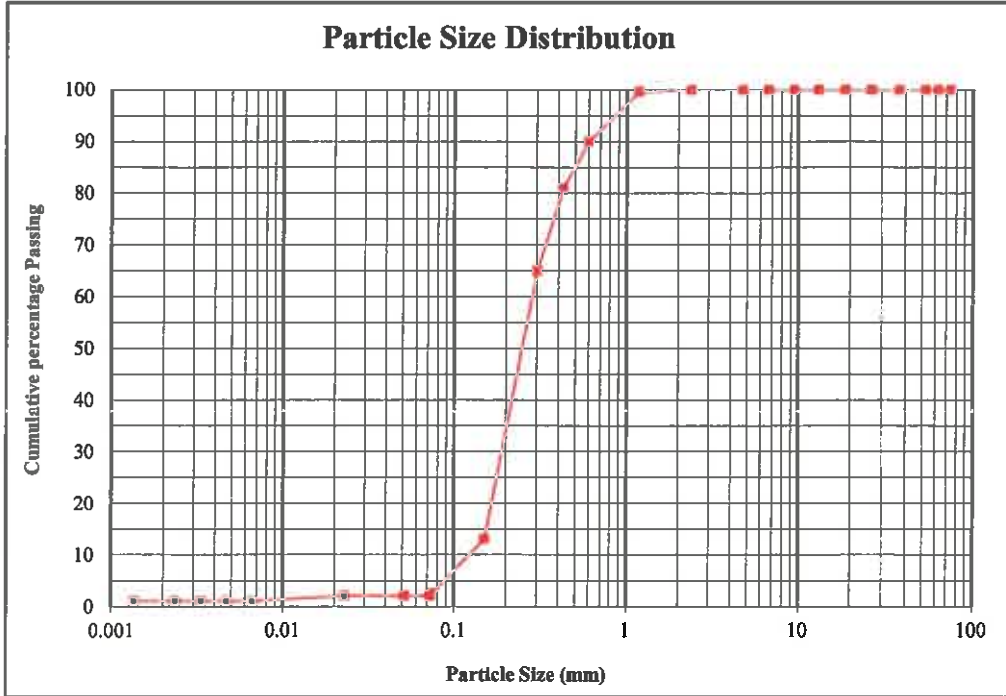
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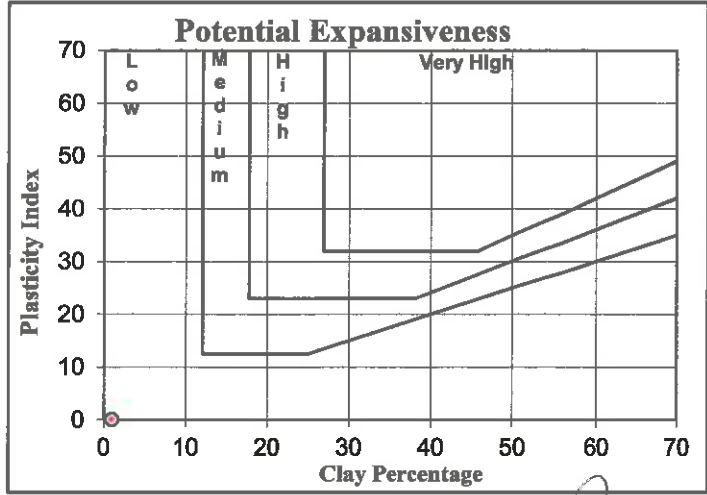
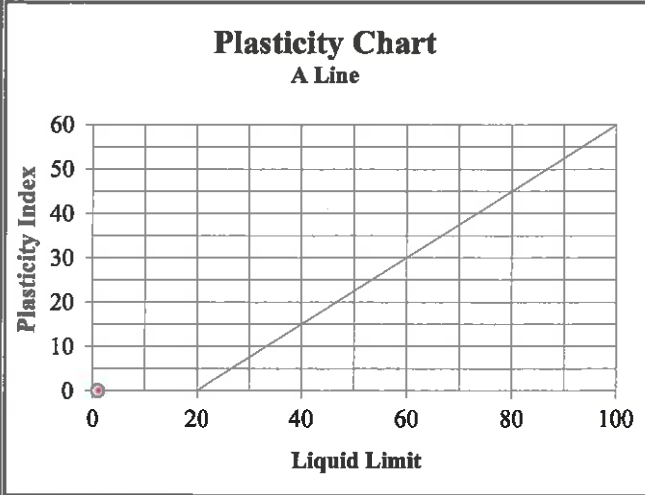
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Yellowish Brown Sand	Sample Number:	53631		
Position:	KB50	Liquid Limit	-	Linear Shrinkage	0
Depth:	7.5 - 7.95	Plasticity Index	NP	Insitu M/C%	0.1

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	90
0.425	81
0.300	65
0.150	13
0.075	2.5
0.0727	2
0.0514	2
0.0230	2
0.0067	1
0.0047	1
0.0033	1
0.0024	1
0.0014	1



% Clay	1	% Silt	1	% Sand	98	% Gravel	0
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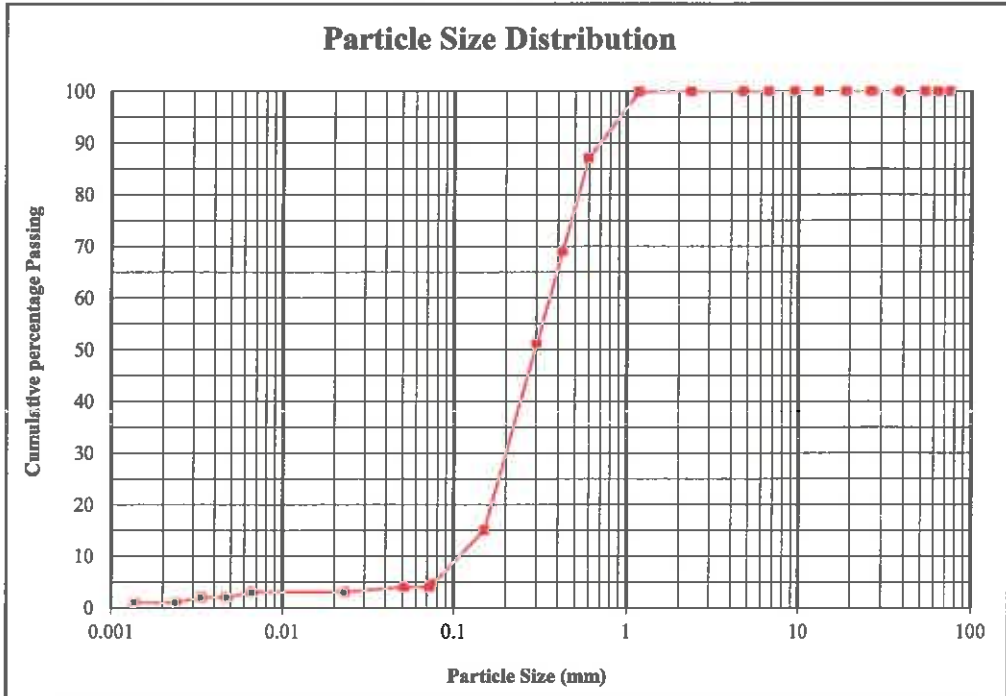
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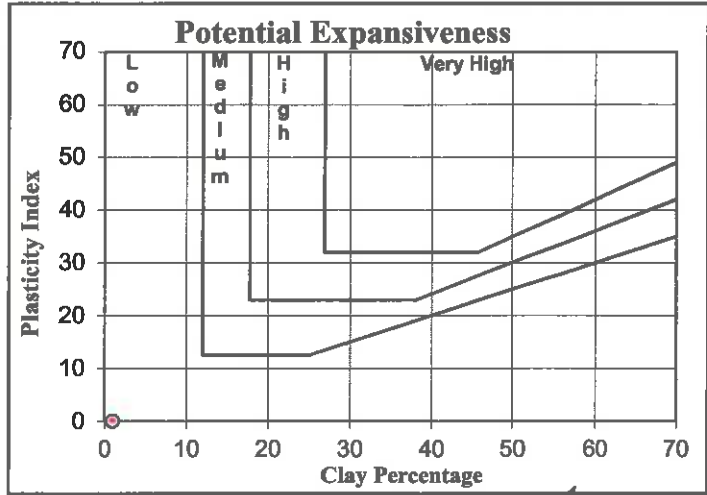
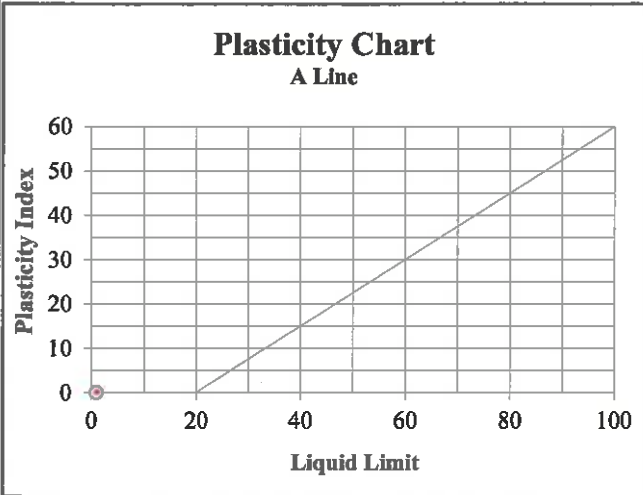
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand	Sample Number:	53632		
Position:	KB50	Liquid Limit	-	Linear Shrinkage	0
Depth:	15 - 15.45	Plasticity Index	NP	Insitu M/C%	0.3

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	87
0.425	69
0.300	51
0.150	15
0.075	4.5
0.0717	4
0.0507	4
0.0228	3
0.0066	3
0.0047	2
0.0033	2
0.0024	1
0.0014	1



% Clay	1	% Silt	3	% Sand	96	% Gravel	0
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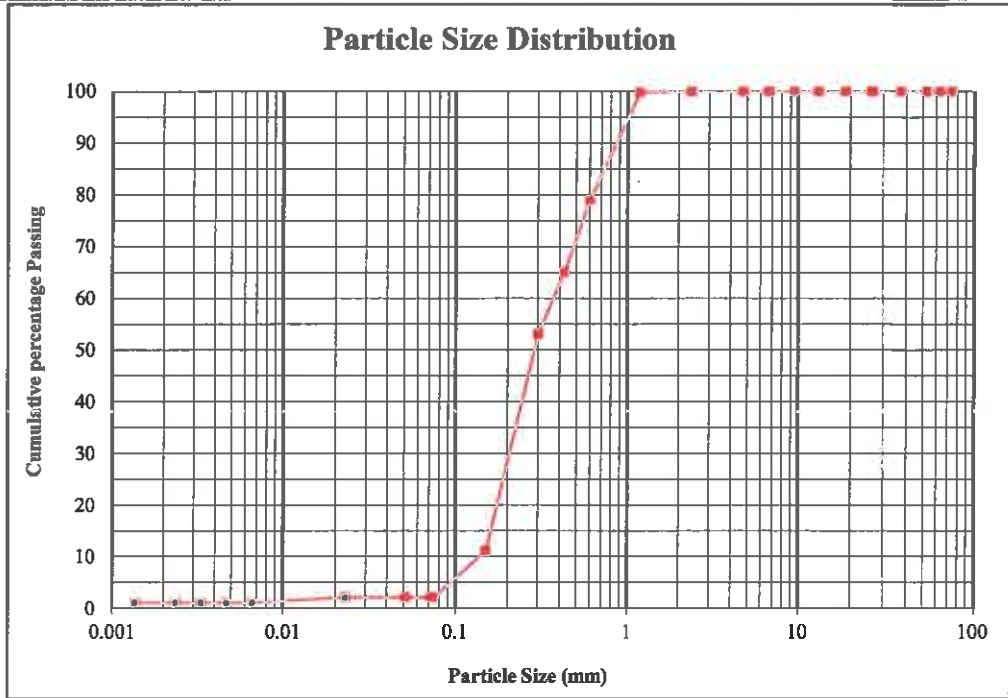
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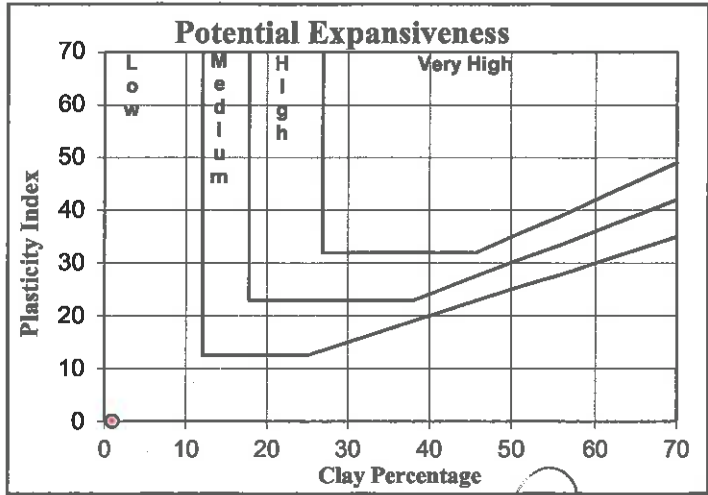
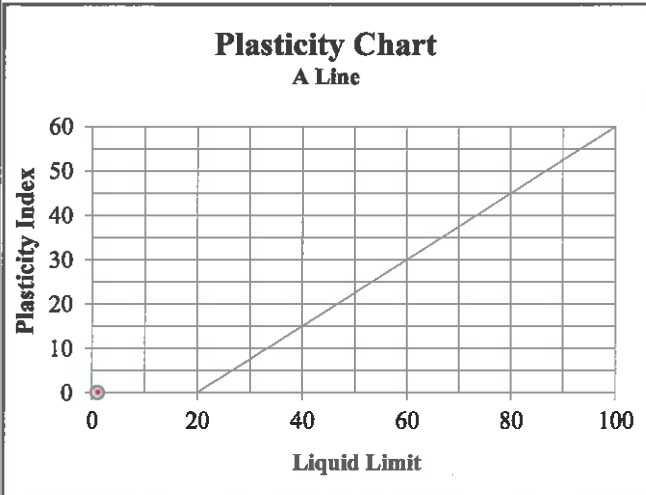
FOUNDATION INDICATOR - (TMH 1 Method A1(a), A2, A3, A4, A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53633		
Position:	KB50	Liquid Limit	-	Linear Shrinkage	0
Depth:	19.5 - 19.95	Plasticity Index	NP	Insitu M/C%	0.8

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	79
0.425	65
0.300	53
0.150	11
0.075	2.0
0.0727	2
0.0514	2
0.0230	2
0.0067	1
0.0047	1
0.0033	1
0.0024	1
0.0014	1



% Clay	1	% Silt	1	% Sand	98	% Gravel	0
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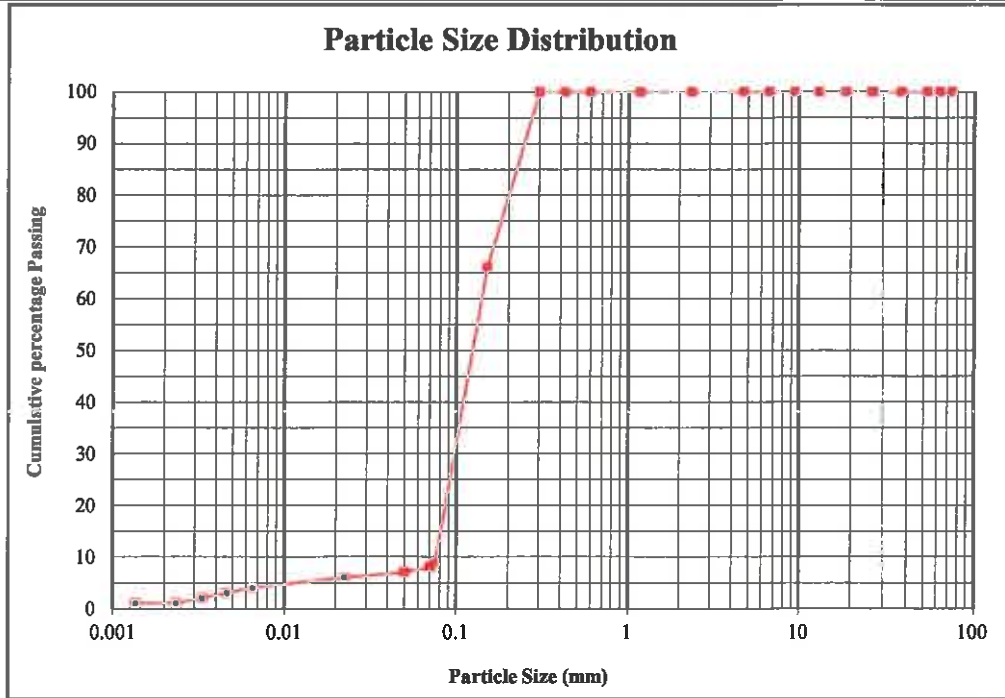
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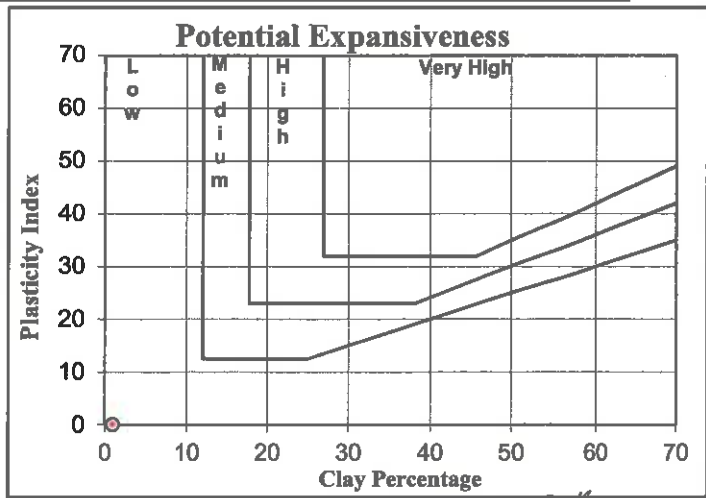
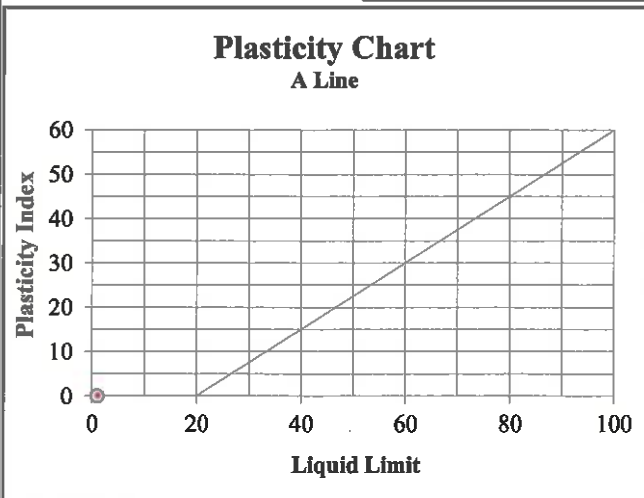
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand	Sample Number:	53634		
Position:	KB50	Liquid Limit	-	Linear Shrinkage	0
Depth:	25.5 - 25.86	Plasticity Index	NP	Insitu M/C%	0.3

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	100
0.425	100
0.300	100
0.150	66
0.075	8.8
0.0702	8
0.0498	7
0.0224	6
0.0065	4
0.0047	3
0.0033	2
0.0024	1
0.0014	1



% Clay	1	% Silt	6	% Sand	93	% Gravel	0
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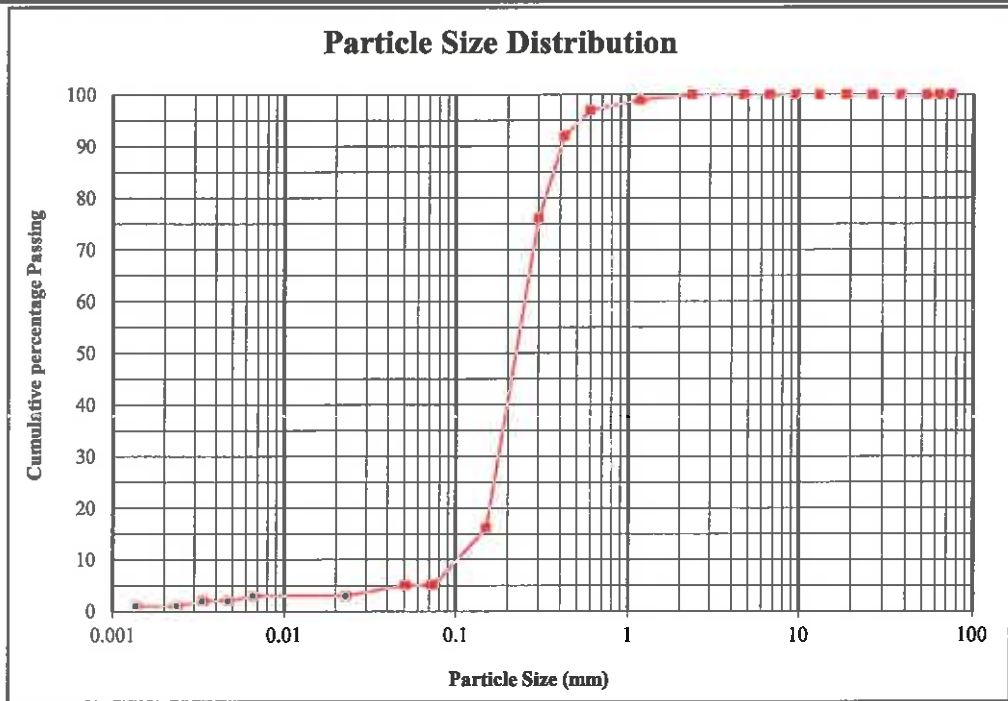
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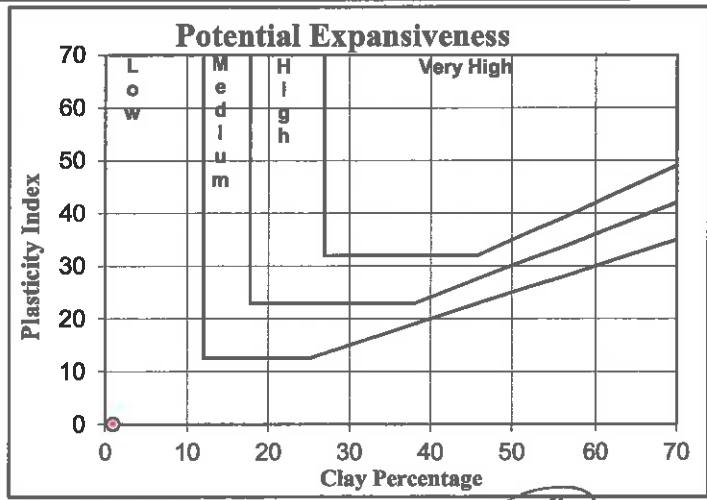
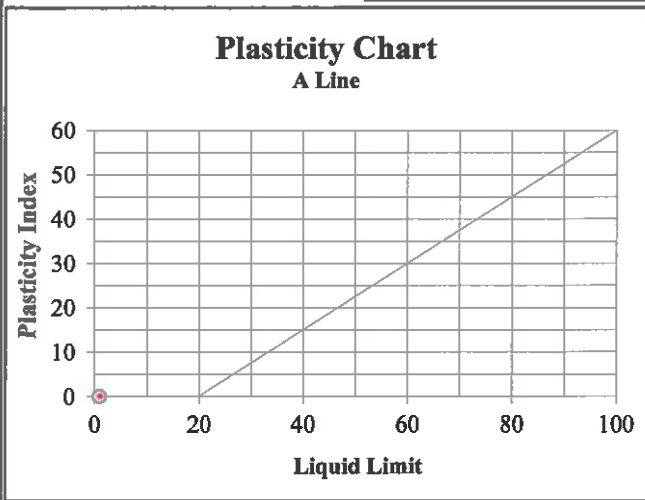
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Yellowish Brown Sand	Sample Number:	53635		
Position:	KB51	Liquid Limit	-	Linear Shrinkage	0
Depth:	9.0 - 9.45	Plasticity Index	NP	Insitu M/C%	0.2

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	99
0.800	97
0.425	92
0.300	76
0.150	16
0.075	5.1
0.0715	5
0.0505	5
0.0228	3
0.0066	3
0.0047	2
0.0033	2
0.0024	1
0.0014	1



% Clay	1	% Silt	4	% Sand	95	% Gravel	0
--------	---	--------	---	--------	----	----------	---



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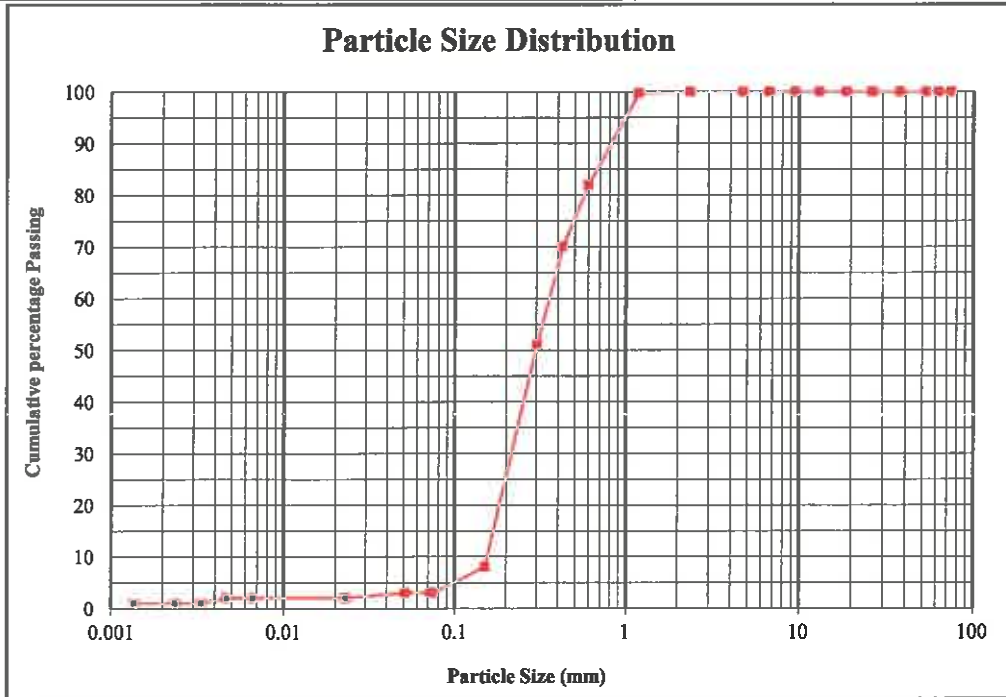
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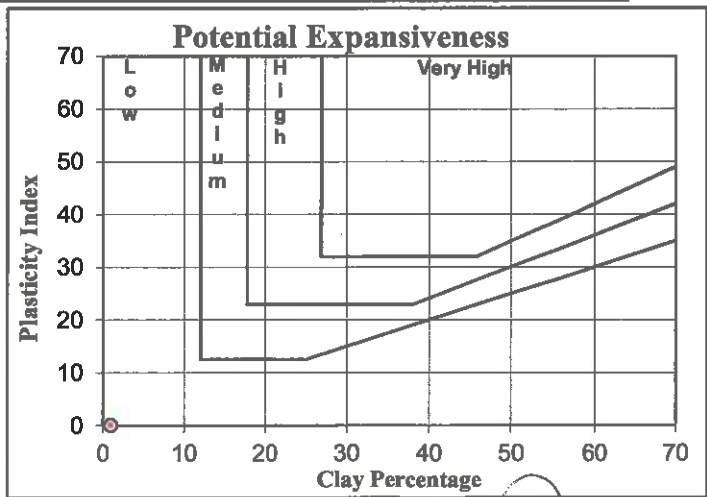
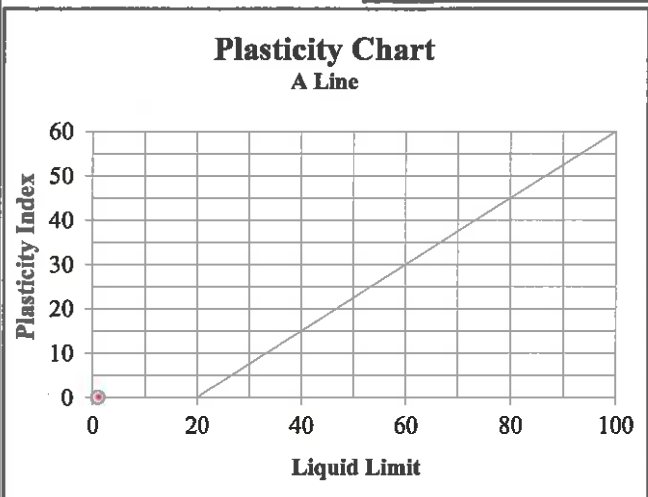
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & [ASTM Method D422]

Material Description:	Light Brown Sand	Sample Number:	53636		
Position:	KB51	Liquid Limit	-	Linear Shrinkage	0
Depth:	12.0 - 12.45	Plasticity Index	NP	Insitu M/C%	1.6

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	82
0.425	70
0.300	51
0.150	8
0.075	3.0
0.0722	3
0.0510	3
0.0230	2
0.0066	2
0.0047	2
0.0033	1
0.0024	1
0.0014	1



% Clay	1	% Silt	2	% Sand	97	% Gravel	0
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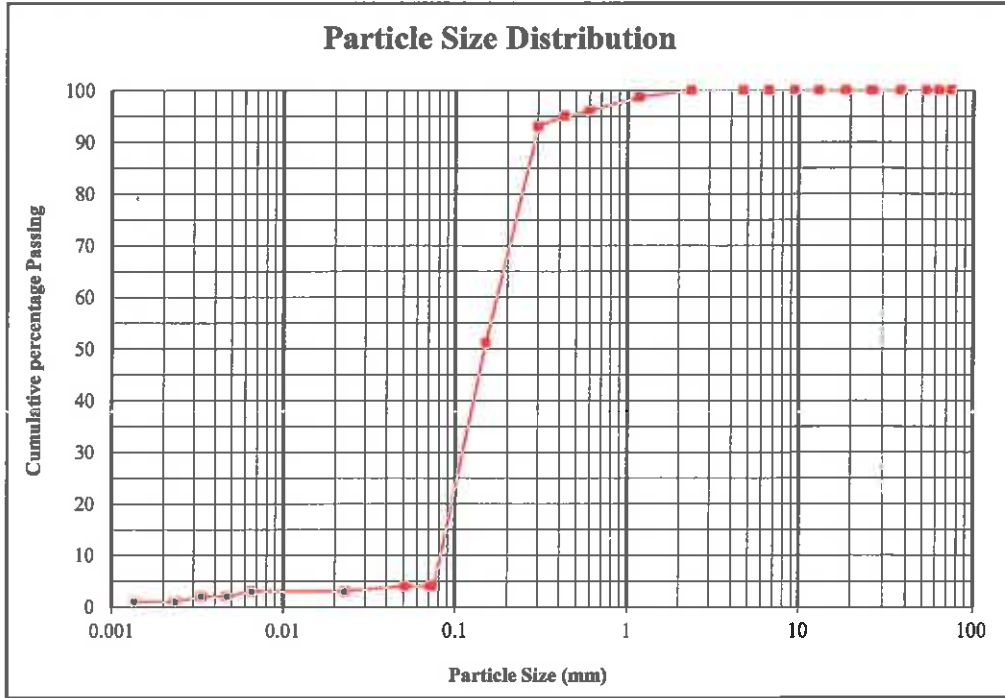
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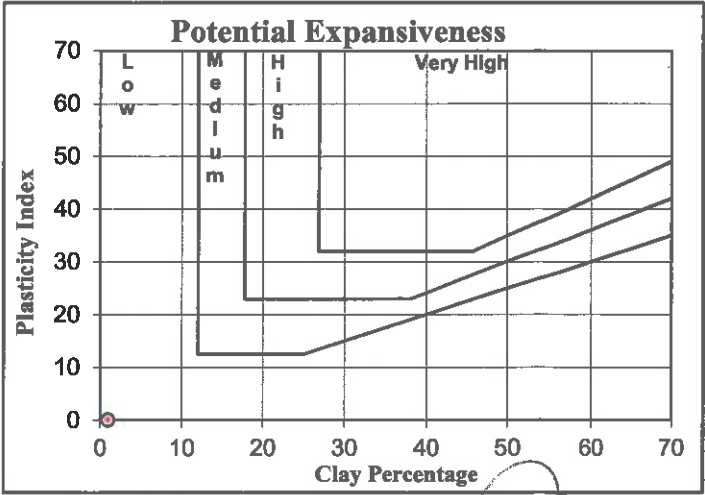
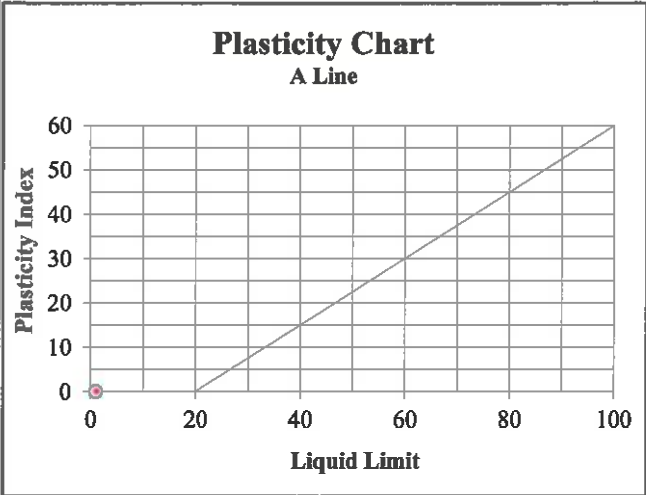
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53637		
Position:	KB51	Liquid Limit	-	Linear Shrinkage	0
Depth:	16.5 - 16.95	Plasticity Index	NP	Insitu M/C%	0.4

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	99
0.600	98
0.425	95
0.300	93
0.150	51
0.075	4.0
0.0717	4
0.0507	4
0.0228	3
0.0066	3
0.0047	2
0.0033	2
0.0024	1
0.0014	1



% Clay	1	% Silt	3	% Sand	96	% Gravel	0
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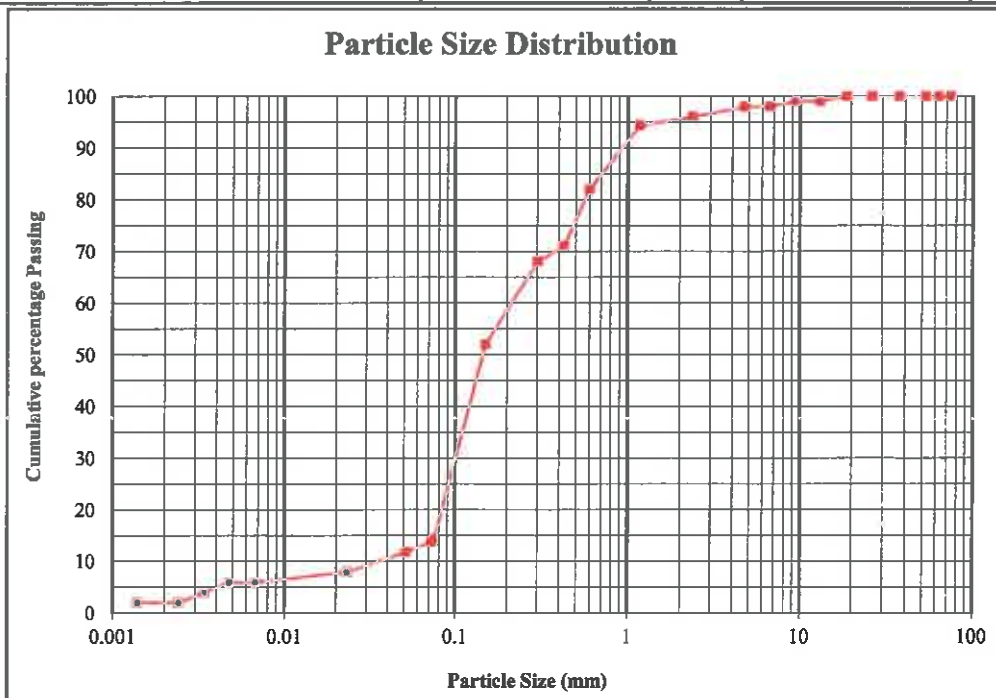
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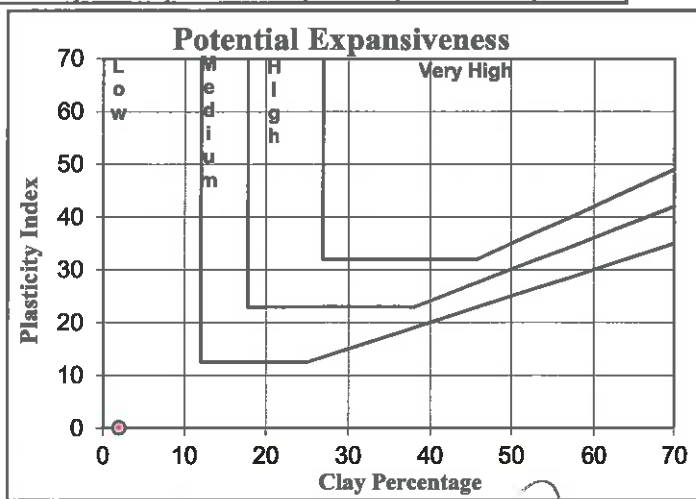
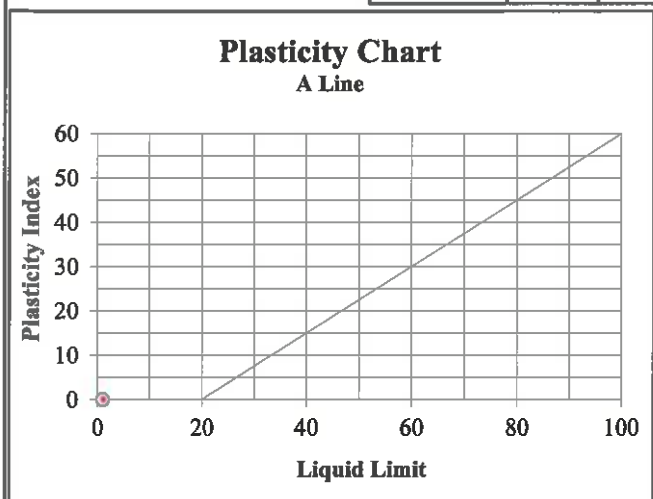
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & [ASTM Method D422]

Material Description:	Dark Brown Silty Soil	Sample Number:	53638		
Position:	KB51	Liquid Limit	-	Linear Shrinkage	1.2
Depth:	30.0 - 36.45	Plasticity Index	SP	Insitu M/C%	0.0

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	99
9.5	99
6.7	98
4.75	98
2.36	96
1.18	94
0.600	82
0.425	71
0.300	68
0.150	52
0.075	14
0.0727	14
0.0516	12
0.0233	8
0.0068	6
0.0048	6
0.0034	4
0.0024	2
0.0014	2



% Clay	2	% Silt	11	% Sand	83	% Gravel	4
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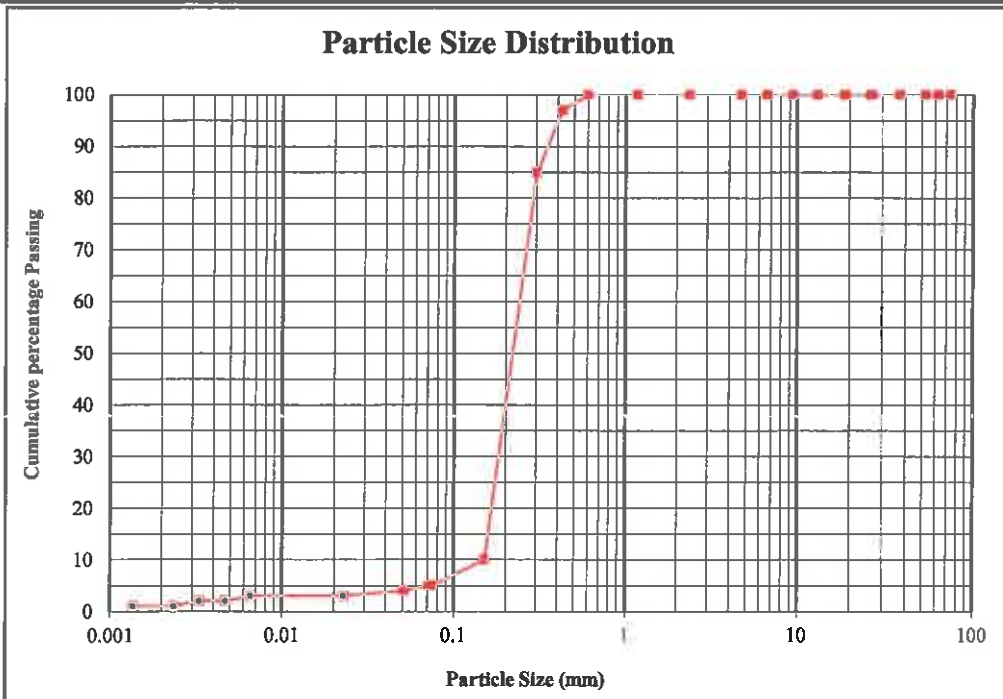
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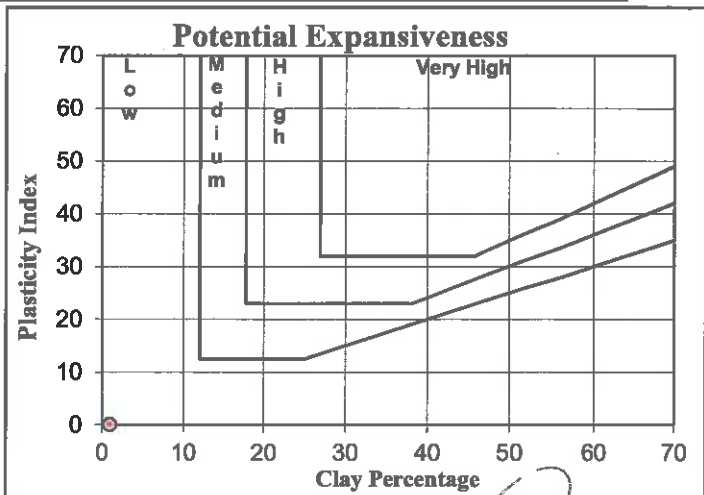
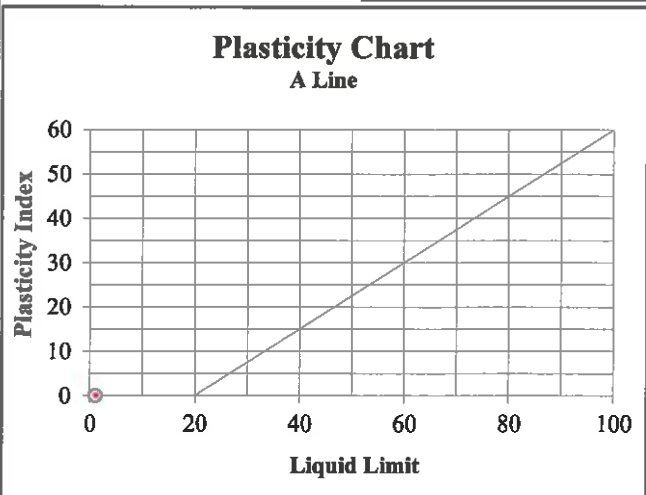
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Yellowish Sand	Sample Number:	53639		
Position:	KB52	Liquid Limit	-	Linear Shrinkage	0
Depth:	6.0 - 6.45	Plasticity Index	NP	Insitu M/C%	0.1

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.800	100
0.425	97
0.300	85
0.150	10
0.075	5.0
0.0715	5
0.0507	4
0.0228	3
0.0066	3
0.0047	2
0.0033	2
0.0024	1
0.0014	1



% Clay	1	% Silt	3	% Sand	96	% Gravel	0
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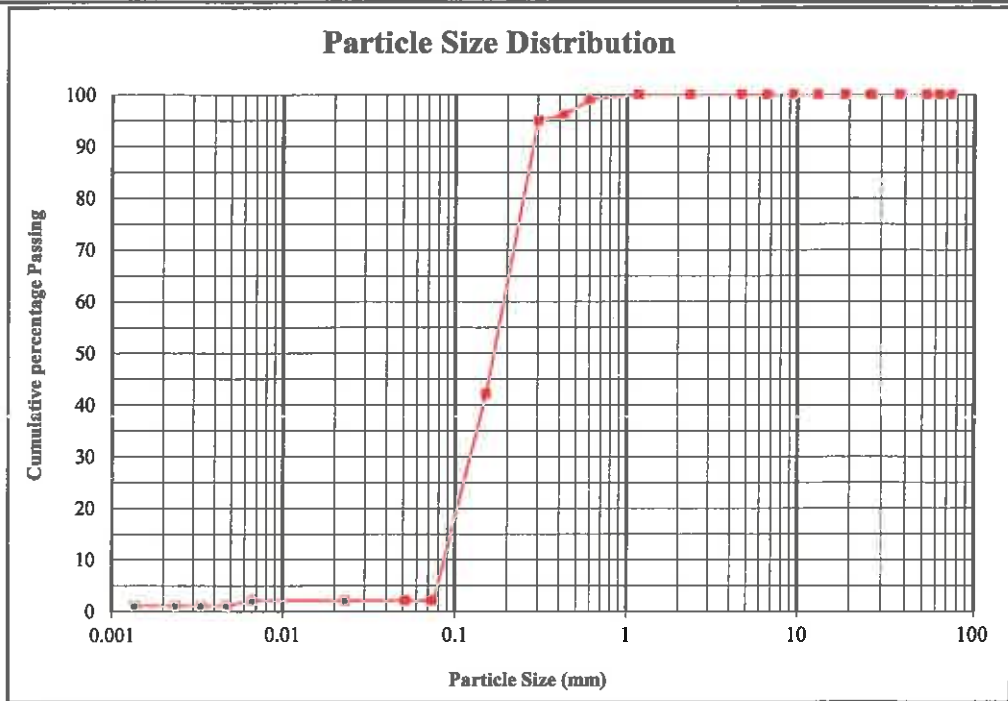
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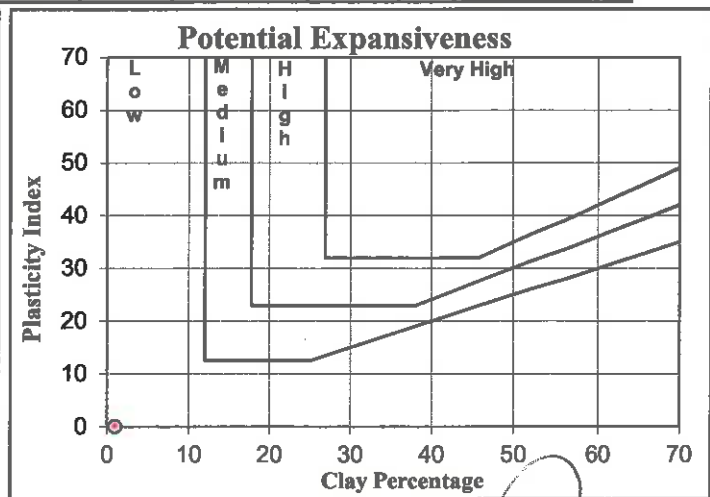
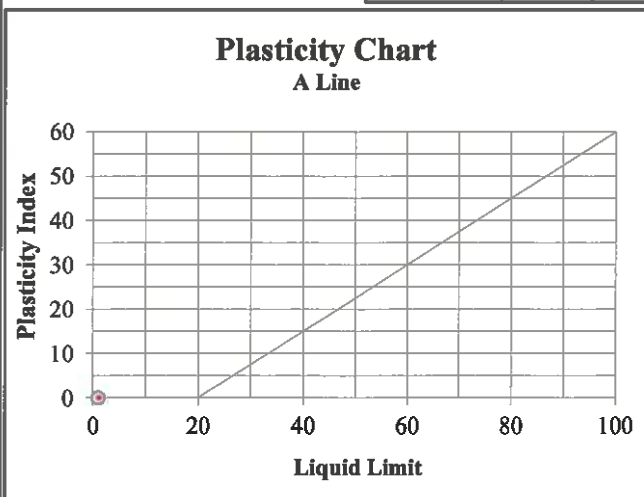
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53640		
Position:	KB52	Liquid Limit	-	Linear Shrinkage	0
Depth:	12.0 - 12.45	Plasticity Index	NP	Insitu M/C%	0.1

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	99
0.425	96
0.300	95
0.150	42
0.075	2.0
0.0727	2
0.0514	2
0.0230	2
0.0066	2
0.0047	1
0.0033	1
0.0024	1
0.0014	1



% Clay	1	% Silt	1	% Sand	98	% Gravel	0
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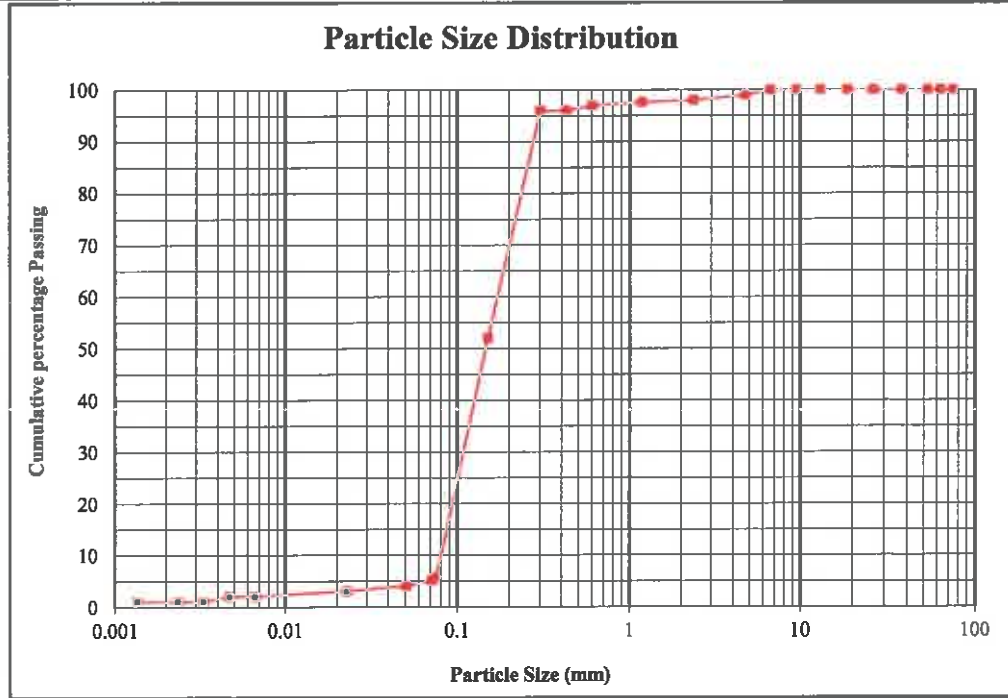
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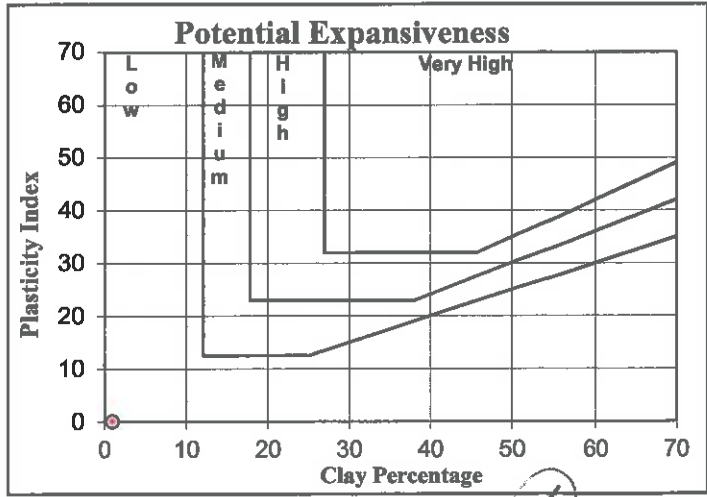
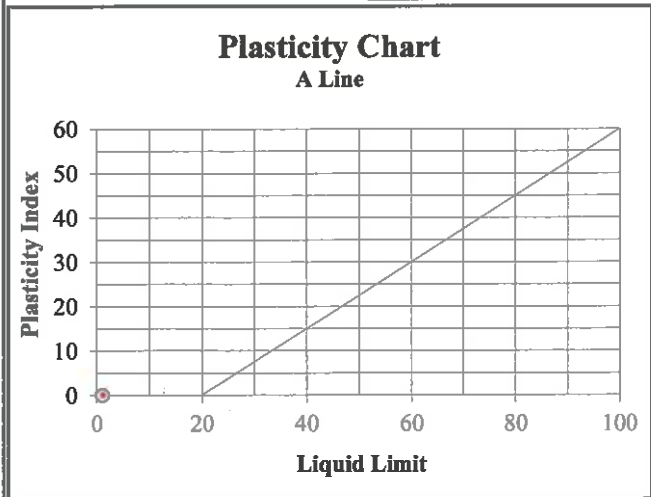
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Brown Sand	Sample Number:	53641		
Position:	KB52	Liquid Limit	-	Linear Shrinkage	0
Depth:	19.5 - 19.95	Plasticity Index	NP	Insitu M/C%	0.1

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	99
2.36	98
1.18	98
0.600	97
0.425	96
0.300	96
0.150	52
0.075	5.6
0.0715	5
0.0507	4
0.0228	3
0.0066	2
0.0047	2
0.0033	1
0.0024	1
0.0014	1



% Clay	1	% Silt	3	% Sand	94	% Gravel	2
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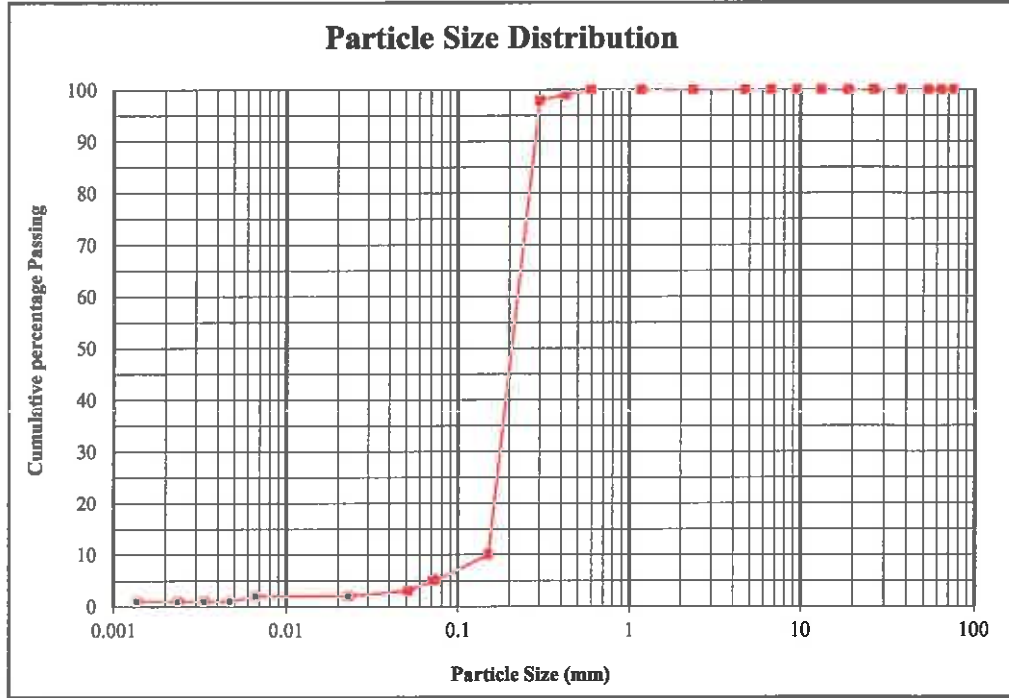
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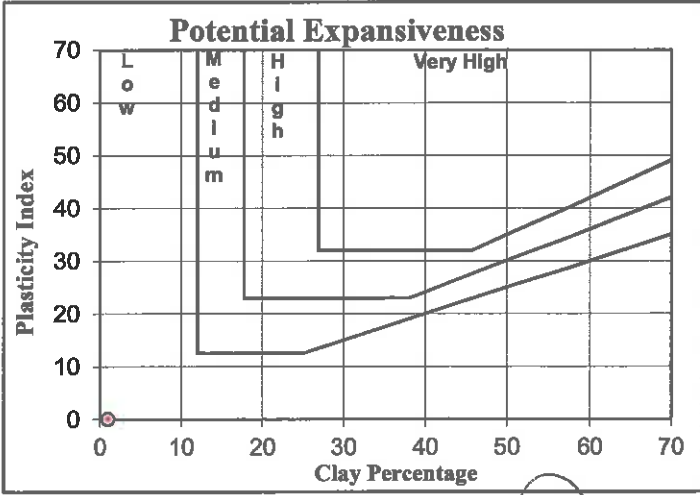
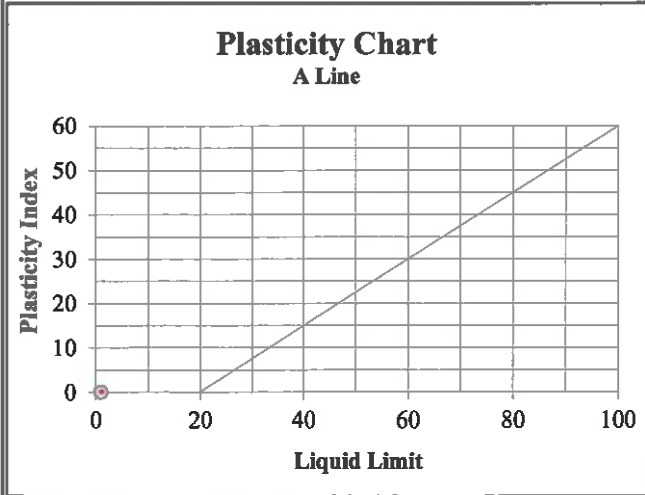
FOUNDATION INDICATOR (TMH 1 Method A1(a), A2, A3, A4, A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53642		
Position:	KB53	Liquid Limit	-	Linear Shrinkage	0
Depth:	3.00 - 3.45	Plasticity Index	NP	Insitu M/C%	0.1

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	100
0.425	99
0.300	98
0.150	10
0.075	5.1
0.0715	5
0.0510	3
0.0230	2
0.0086	2
0.0047	1
0.0033	1
0.0024	1
0.0014	1



% Clay	1	% Silt	3	% Sand	96	% Gravel	0
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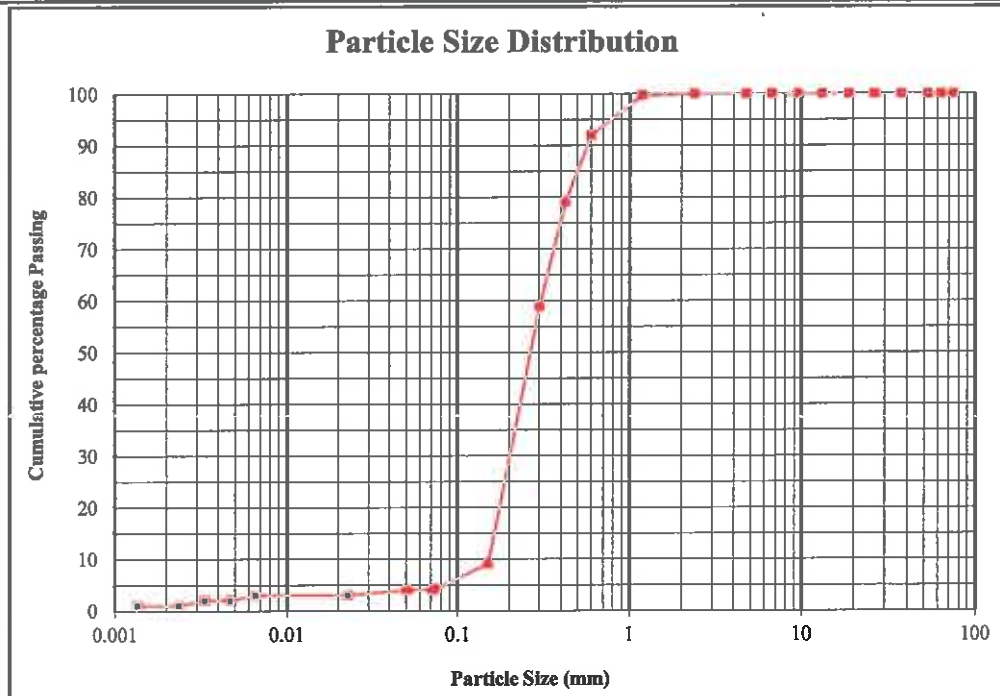
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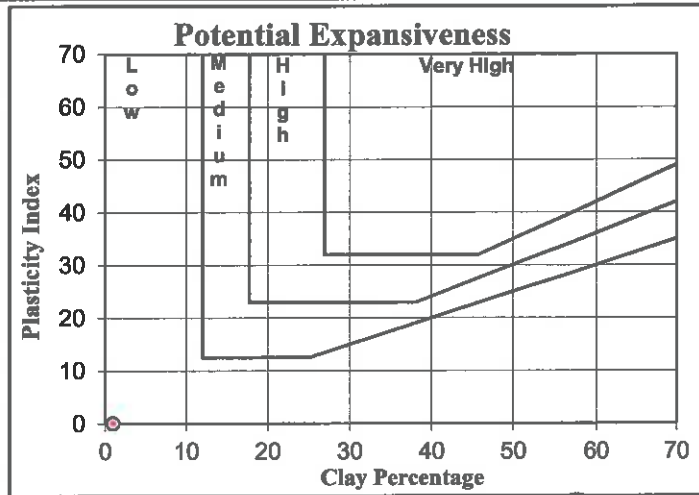
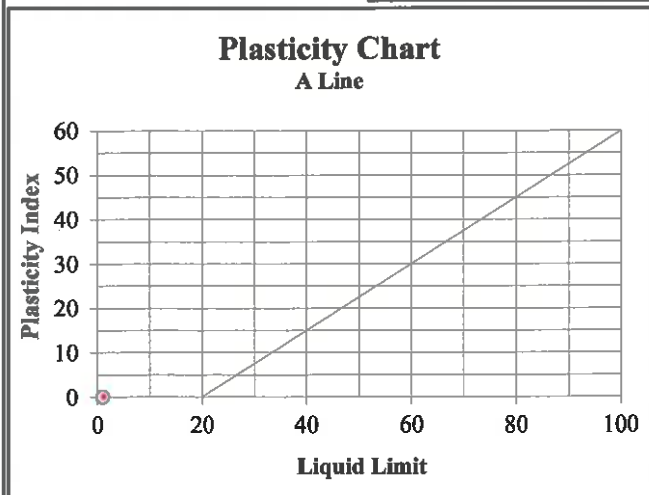
FOUNDATION INDICATOR - (TMH 1 Method A1(a), A2, A3, A4, A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53643		
Position:	KB53	Liquid Limit	-	Linear Shrinkage	0
Depth:	6.0 - 6.45	Plasticity Index	NP	In situ M/C%	0.3

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.800	92
0.425	79
0.300	59
0.150	9
0.075	4.2
0.0717	4
0.0507	4
0.0228	3
0.0066	3
0.0047	2
0.0033	2
0.0024	1
0.0014	1



% Clay	1	% Silt	3	% Sand	96	% Gravel	0
--------	---	--------	---	--------	----	----------	---



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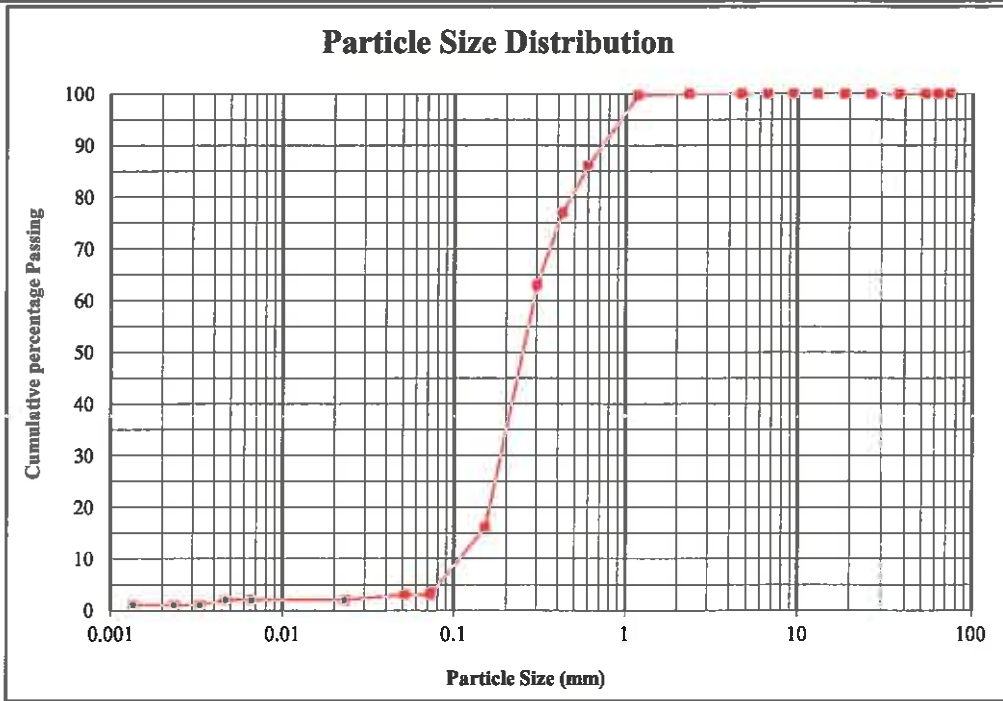
Customer : SRK Consulting Engineers
 P.O.Box 55291
 Northlands
 2116
 Attention : Daniell du Preez

Project : Koeberg
 Date Received : 24.08.2021
 Date Reported : 30.08.2021
 Req. Number : #16926

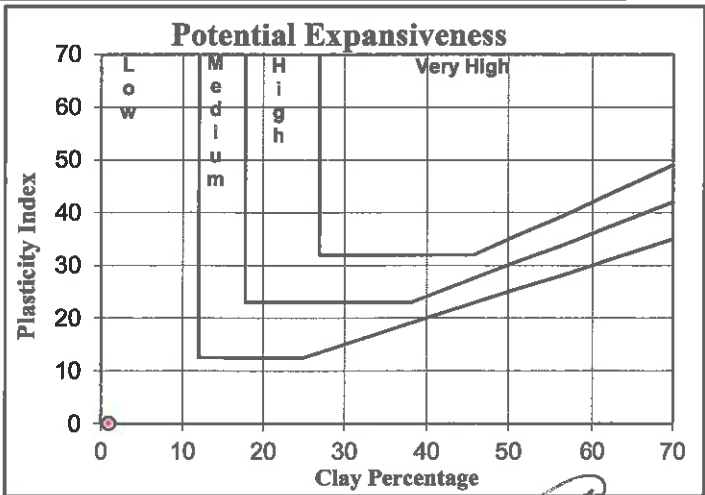
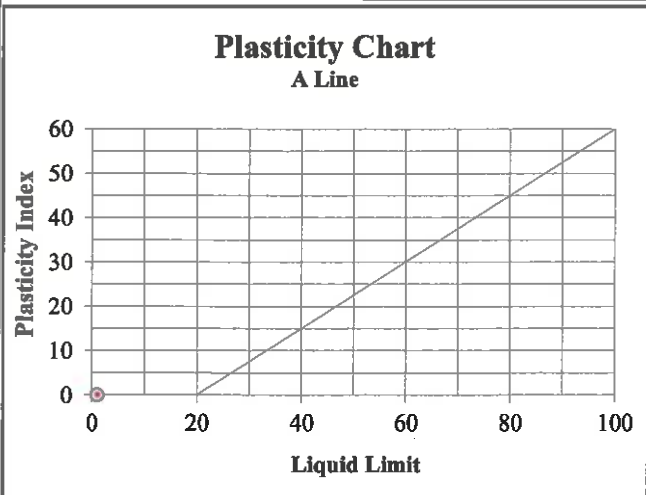
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Brown Sand	Sample Number:	53644		
Position:	KB53	Liquid Limit	-	Linear Shrinkage	0
Depth:	10.5 - 10.95	Plasticity Index	NP	Insitu M/C%	0.0

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	100
0.600	86
0.425	77
0.300	63
0.150	16
0.075	3.6
0.0722	3
0.0510	3
0.0230	2
0.0066	2
0.0047	2
0.0033	1
0.0024	1
0.0014	1



% Clay	1	% Silt	2	% Sand	97	% Gravel	0
--------	---	--------	---	--------	----	----------	---



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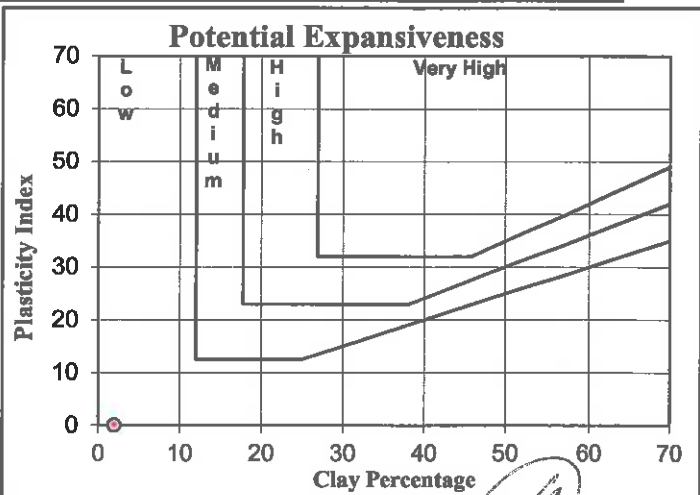
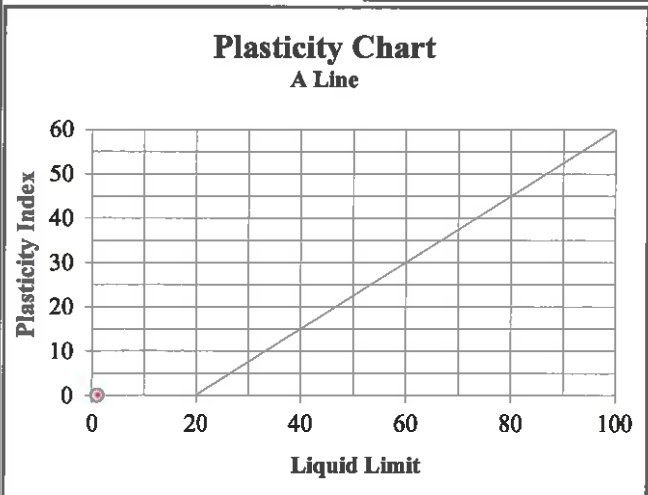
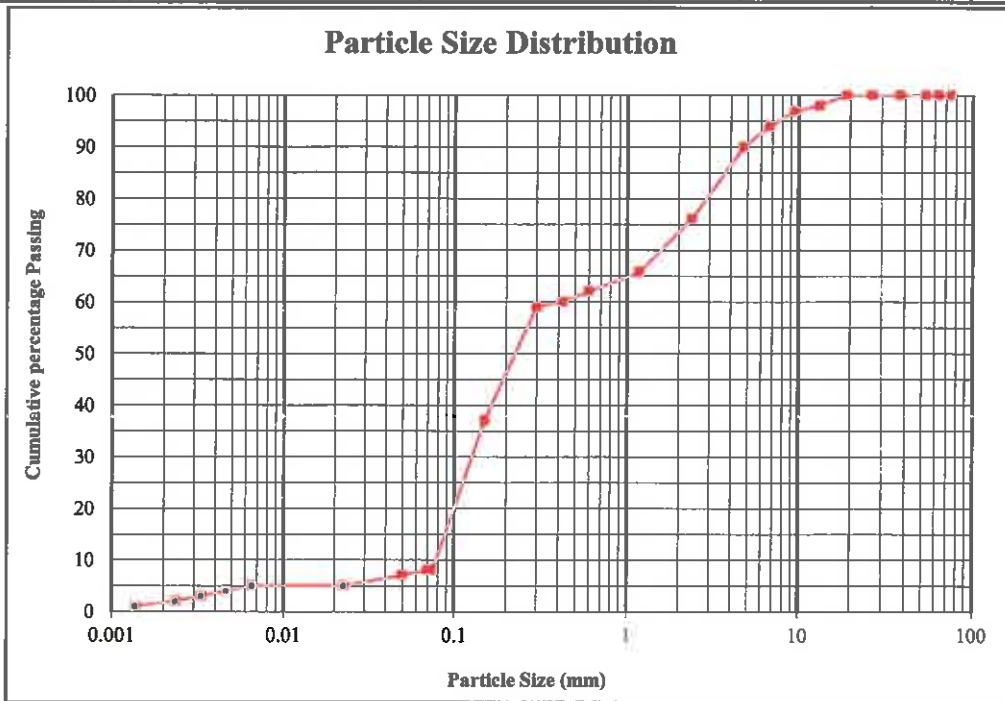
Customer : SRK Consulting Engineers
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 Attention : Daniell du Preez

Project : Koeberg
 Date Received : 24.08.2021
 Date Reported : 30.08.2021
 Req. Number : #16926

FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Brown Soil	Sample Number:	53645		
Position:	KB53	Liquid Limit	-	Linear Shrinkage	0
Depth:	19.5 - 19.95	Plasticity Index	NP	Insitu M/C%	0.2

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	98
9.5	97
6.7	94
4.75	90
2.36	76
1.18	66
0.600	62
0.425	60
0.300	59
0.150	37
0.075	8.0
0.0702	8
0.0498	7
0.0226	5
0.0065	5
0.0046	4
0.0033	3
0.0023	2
0.0014	1



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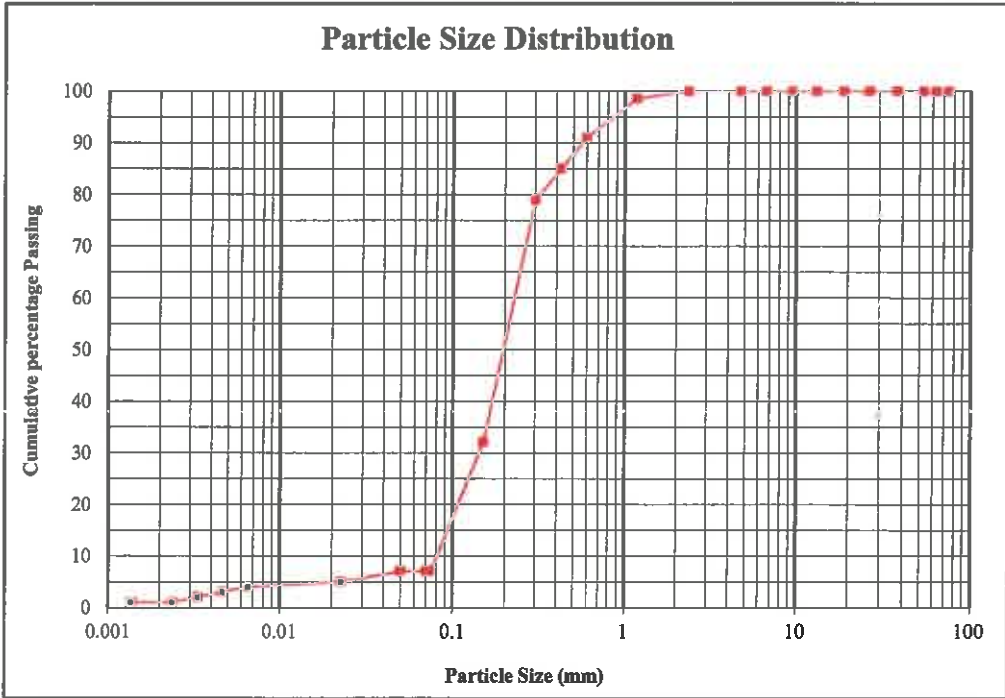
Customer : SRK Consulting Engineers
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 Attention : Daniell du Preez

Project : Koeberg
 Date Received : 24.08.2021
 Date Reported : 30.08.2021
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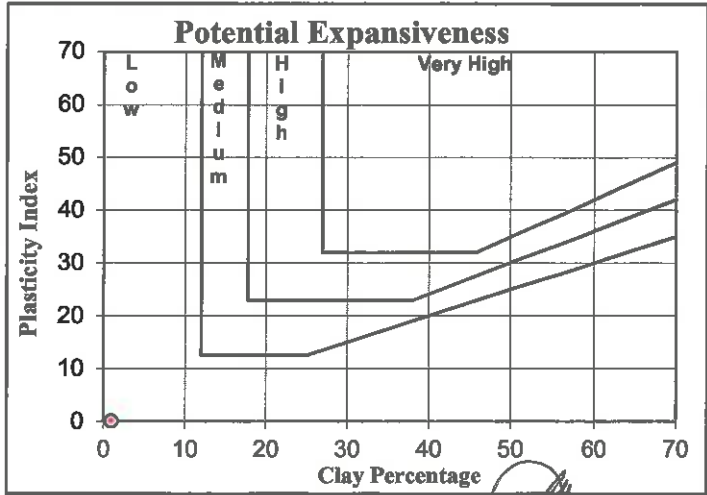
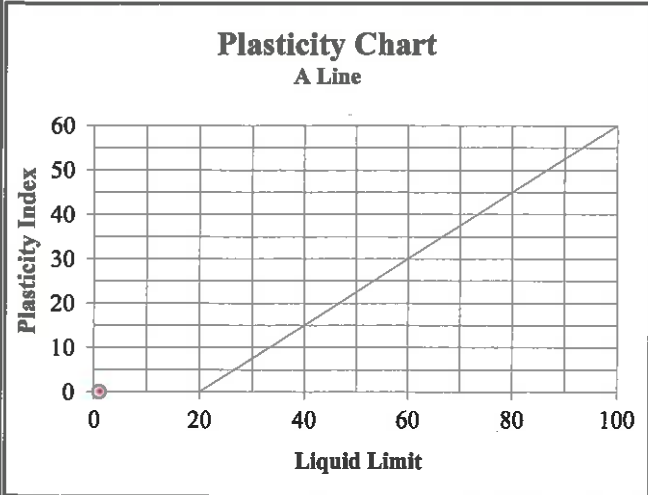
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Light Grey Sand	Sample Number:	53646		
Position:	KB53	Liquid Limit	-	Linear Shrinkage	0
Depth:	24.0 - 24.45	Plasticity Index	NP	Insitu M/C%	0.2

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	100
2.36	100
1.18	99
0.800	91
0.425	85
0.300	79
0.150	32
0.075	7.0
0.0705	7
0.0498	7
0.0226	5
0.0065	4
0.0047	3
0.0033	2
0.0024	1
0.0014	1



% Clay	1	% Silt	6	% Sand	93	% Gravel	0
--------	---	--------	---	--------	----	----------	---



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ATTENTION: Mr Danielle du Preez

TEST REPORT: Aggregate Analysis: SANS 3001 (AG1; AG2; AG4; AG5; AG10; AG14; AG20; AG21 & SANS 5848)

Job No	CTS02375
Ref. No	-
Date	31.08.2021
Tested/Sampled By:	Roadlab
Date Sampled / Received	24.08.2021
Date Tested	31.08.2021
Sampling Method	As per client
Test Method	Aggregate Analysis: SANS 3001 (AG1; AG2; AG4; AG5; AG10; AG14; AG20; AG21 & SANS 5848)
Project	Koeberg
Sampled By	Roadlab
Delivered By	Roadlab
Temp. °C in Laboratory	25°C
Laboratory Tester	Me. M. Pitus & Mr.E. West
Environmental Conditions	Sunny
Remarks / notes	None

Special instructions

None

Remarks:

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JOB NO: CTS02375 REF.: - Date: 31.08.2021

Customer : SRK Consulting Engineers
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 Attention : Mr Danielle du Preez

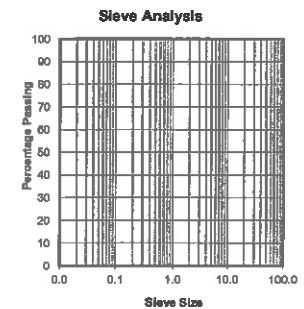
Project : Koeberg
 Date Received : 24.08.2021
 Date Reported : 31.08.2021
 Lab. Tester : Me. M. Pitus & Mr.E. West
 Sampling Method As per client

Aggregate Analysis: SANS 3001 (AG1; AG2; AG4; AG5; AG10; AG14; AG20; AG21 & SANS 5848)

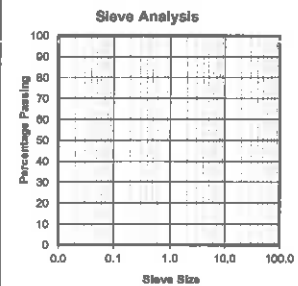
SIEVE ANALYSIS

Sample Position	KB46		KB46		KB46	
Depth	12.0 - 12.50		16.0 - 16.20		22.0 - 22.50	
Source	Not Specified		Not Specified		Not Specified	
Sample Number	53653		53654		53655	
Description of Materials	Dark Brown Sand	Spec	Dark Brown Soil	Spec	Dark Brown Soil	Spec
	Sieve Size					
75.0						
50.0						
37.5						
28.0						
20.0						
14.0						
10.0						
7.1						
5.0						
2.0						
1.0						
0.600						
0.300						
0.150						
0.075						
Fineness Modulus						

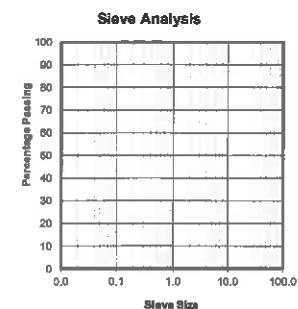
53653



53654



53655



MATERIAL PROPERTIES

ACV (Dry)				
ACV (Wet)				
10% FACT (Dry)				
10% FACT (Wet)				
FI				
DBD	2.485	2.608	2.619	
ARD	2.551	2.690	2.669	
LBD (kg/m3)				
CBD (kg/m3)				
WA	1.0	1.2	0.7	
Sand Equivalent*				
Apparent Relative density				
Clay Content (%)				
Salt Content (%)				

Remarks:

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Customer : SRK Consulting Engineers
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Attention : Mr Danielle du Preez

Project : Koeberg
Date Received : 24.08.2021
Date Reported : 31.08.2021
Lab. Tester : Me. M. Pitus & Mr.E. West
Sampling Method As per client

Aggregaté Analysis: SANS 3001.(AG1; AG2; AG4; AG5; AG10; AG14; AG20; AG21 & SANS 5848)

SIEVE ANALYSIS

Sample Position	KB46	KB47	KB47	53656
Depth	28.0 - 28.30	4.0 - 4.43	13.5 - 14.05	
Source	Not Specified	Not Specified	Not Specified	
Sample Number	53656	53657	53658	
Description of Materials	Dark Brown Soil	Light Brown Soil	Dark Brown Soil	
Sieve Size				
75.0				
50.0				
37.5				
28.0				
20.0				
14.0				
10.0				
7.1				
5.0				
2.0				
1.0				
0.600				
0.300				
0.150				
0.075				
Fineness Modulus				

MATERIAL PROPERTIES

ACV (Dry)				
ACV (Wet)				
10% FACT (Dry)				
10% FACT (Wet)				
FI				
DBD	2.620	2.629	2.632	
ARD	2.838	2.682	2.708	
LBD (kg/m3)				
CBD (kg/m3)				
WA	2.9	0.8	1.1	
Sand Equivalent*				
Apparent Relative density				
Clay Content (%)				
Salt Content (%)				

Remarks:

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Project : Koeberg
 Date Received : 24.08.2021
 Date Reported : 31.08.2021
 Lab. Tester : Me. M. Pitus & Mr.E. West
 Sampling Method As per client

Aggregate Analysis: SANS 3001 (AG1; AG2; AG4, AG5; AG10; AG14; AG20; AG21 & SANS 5848)

SIEVE ANALYSIS

Sample Position	KB48		KB48		KB48		53659
Depth	22.0 - 22.30		28.0 - 28.50		4.0 - 4.37		
Source	Not Specified		Not Specified		Not Specified		
Sample Number	53659		53660		53661		
Description of Materials	Dark Brown Soil	Spec	Dark Brown Soil	Spec	Light Brown Soil	Spec	
Sieve Size							
75.0							
50.0							
37.5							
28.0							
20.0							
14.0							
10.0							
7.1							
5.0							
2.0							
1.0							
0.600							
0.300							
0.150							
0.075							
Fineness Modulus							

MATERIAL PROPERTIES

ACV (Dry)							53661
ACV (Wet)							
10% FACT (Dry)							
10% FACT (Wet)							
FI							
DBD	2.572		2.671		2.619		
ARD	2.669		2.771		2.697		
LBD (kg/m3)							
CBD (kg/m3)							
WA	1.5		1.4		1.1		
Sand Equivalent*							
Apparent Relative density							
Clay Content (%)							
Salt Content (%)							

Remarks:

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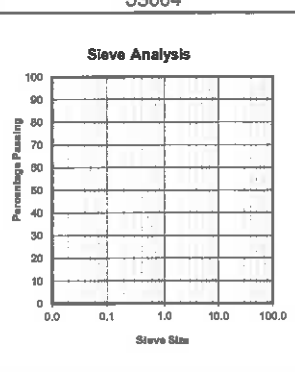
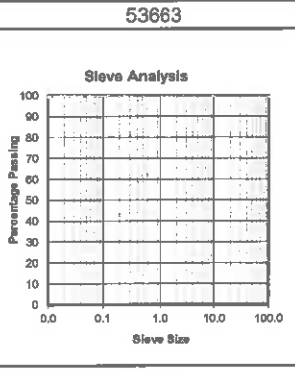
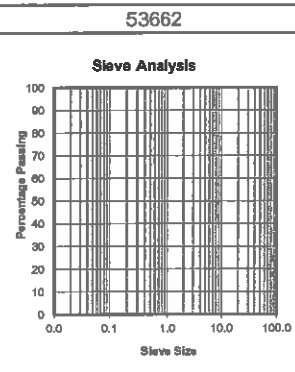
Customer : SRK Consulting Engineers
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 Attention : Mr Danielle du Preez

Project : Koeberg
 Date Received : 24.08.2021
 Date Reported : 31.08.2021
 Lab. Tester : Me. M. Pitus & Mr.E. West
 Sampling Method As per client

Aggregate Analysis: SANS 3001 (AG1,AG2; AG4; AG5; AG10;AG14;AG20; AG21 & SANS 5848)

SIEVE ANALYSIS

Sample Position	KB49		KB49		KB50	
Depth	18.5 - 18.9		24.0 - 24.55		4.0 - 4.55	
Source	Not Specified		Not Specified		Not Specified	
Sample Number	53662		53663		53664	
Description of Materials	Spec	Spec	Spec	Spec	Spec	Spec
	Dark Brown Soil		Dark Brown Soil		Light Yellowish Brown Soil	
Sieve Size						
75.0						
50.0						
37.5						
28.0						
20.0						
14.0						
10.0						
7.1						
5.0						
2.0						
1.0						
0.600						
0.300						
0.150						
0.075						
Fineness Modulus						



MATERIAL PROPERTIES

ACV (Dry)						
ACV (Wet)						
10% FACT (Dry)						
10% FACT (Wet)						
FI						
DBD	2.622		2.651		2.574	
ARD	2.701		2.692		2.707	
LBD (kg/m3)						
CBD (kg/m3)						
WA	1.1		0.6		1.9	
Sand Equivalent*						
Apparent Relative density						
Clay Content (%)						
Salt Content (%)						

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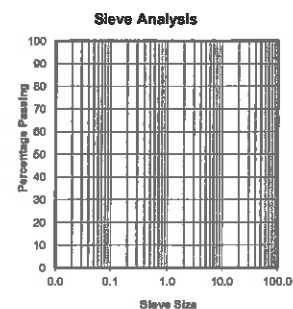
Customer : SRK Consulting Engineers
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 Attention : Mr Danielle du Preez

Project : Koeberg
 Date Received : 24.08.2021
 Date Reported : 31.08.2021
 Lab. Tester : Me. M. Pitus & Mr.E. West
 Sampling Method As per client

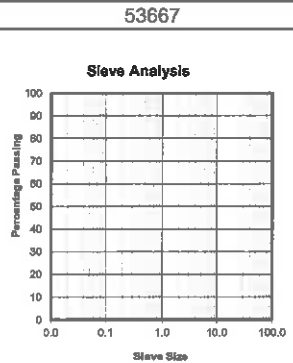
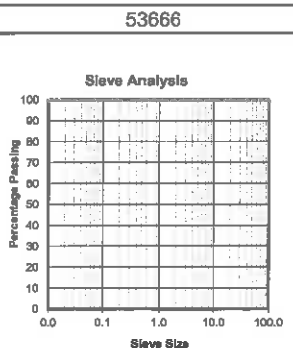
Aggregate Analysis: SANS 3001 (AG1, AG2, AG4, AG5, AG10, AG14, AG20, AG21 & SANS 5848)

SIEVE ANALYSIS

Sample Position	KB50		KB51		KB51	
Depth	16.0 - 16.55		4.0 - 4.40		10.0 - 10.30	
Source	Not Specified		Not Specified		Not Specified	
Sample Number	53665		53666		53667	
Description of Materials	Dark Brown Soil	Spec	Light Brown Sand	Spec	Light Yellowish Brown Soil	Spec
Sieve Size						
75.0						
50.0						
37.5						
28.0						
20.0						
14.0						
10.0						
7.1						
5.0						
2.0						
1.0						
0.600						
0.300						
0.150						
0.075						
Fineness Modulus						



MATERIAL PROPERTIES						
ACV (Dry)						
ACV (Wet)						
10% FACT (Dry)						
10% FACT (Wet)						
FI						
DBD	2.595		2.637		2.641	
ARD	2.630		2.729		2.646	
LBD (kg/m3)						
CBD (kg/m3)						
WA	0.6		1.3		0.1	
Sand Equivalent*						
Apparent Relative density						
Clay Content (%)						
Salt Content (%)						



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Civil Materials Testing
 BBBEE Level 1 Contributor
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 Cape Town ,7530

› material **Passion.**
 › trusted **Accuracy.**
 › timeous **Excellence.**

JOB NO: CTS02375 REF.: - Date: 31.08.2021

Customer : SRK Consulting Engineers
 P.O.Box 55291
 Northlands
 2116
 Attention : Mr Danielle du Preez

Project : Koeberg
 Date Received : 24.08.2021
 Date Reported : 31.08.2021
 Lab. Tester : Me. M. Pitus & Mr.E. West
 Sampling Method As per client

Aggregate Analysis: SANS 3001 (AG1; AG2; AG4; AG5; AG10; AG14; AG20; AG21 & SANS 5848)

SIEVE ANALYSIS

Sample Position	KB51		KB51		KB52		53668	
Depth	16.0 - 16.23		22.0 - 22.34		4.0 - 4.20			
Source	Not Specified		Not Specified		Not Specified			
Sample Number	53668		53669		53670			
Description of Materials	Light Brown Sand	Spec	Light Brown Soil	Spec	Light Brown Sand	Spec		
Sieve Size								
75.0								
50.0								
37.5								
28.0								
20.0								
14.0								
10.0								
7.1								
5.0								
2.0								
1.0								
0.600								
0.300								
0.150								
0.075								
Fineness Modulus								
MATERIAL PROPERTIES								
ACV (Dry)								
ACV (Wet)								
10% FACT (Dry)								
10% FACT (Wet)								
FI								
DBD	2.572		2.594		2.602			
ARD	2.670		2.649		2.667			
LBD (kg/m3)								
CBD (kg/m3)								
WA	1.4		0.8		0.9			
Sand Equivalent*								
Apparent Relative density								
Clay Content (%)								
Salt Content (%)								

Remarks:

- Opinions & Interpretations are not included in our scope of works.
- The samples were subjected to analysis according to test method (SANS) (TMH) (DOT) (ASTM).
- The test results reported relate to the samples tested.
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Mr. F de Vries
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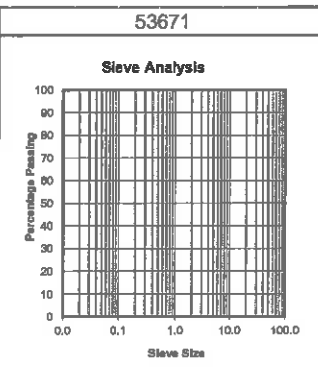
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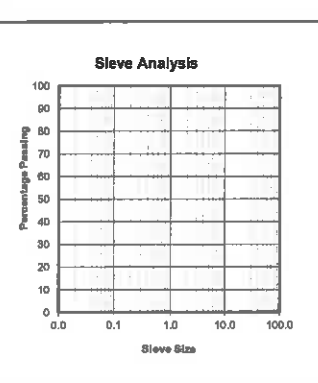
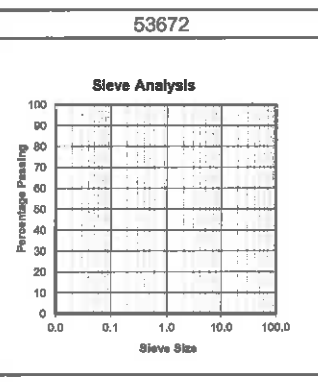
Aggregate Analysis: SANS 3001 (AG1; AG2; AG4; AG5; AG10; AG14; AG20; AG21-8, SANS 5848)

SIEVE ANALYSIS


Sample Position	KB52		KB53		
Depth	10.0 - 10.15		4.0 - 4.4		
Source	Not Specified		Not Specified		
Sample Number	53671		53672		
Description of Materials	Yellowish Brown Soil	Spec	Light Brown Sand	Spec	Spec
Sieve Size					
75.0					
50.0					
37.5					
28.0					
20.0					
14.0					
10.0					
7.1					
5.0					
2.0					
1.0					
0.600					
0.300					
0.150					
0.075					
Fineness Modulus					



MATERIAL PROPERTIES					
ACV (Dry)					
ACV (Wet)					
10% FACT (Dry)					
10% FACT (Wet)					
FI					
DBD	2.444		2.647		
ARD	2.513		2.690		
LBD (kg/m3)					
CBD (kg/m3)					
WA	1.1		0.6		
Sand Equivalent*					
Apparent Relative density					
Clay Content (%)					
Salt Content (%)					



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Aggregate Analysis: SANS 3001 (AG1; AG2; AG4; AG5; AG10; AG14; AG20; AG21 & SANS 5848)

SIEVE ANALYSIS

Sample Position	KB53		KB53		53673	
Depth	10.0 - 10.55		16.0 - 16.16			
Source	Not Specified		Not Specified			
Sample Number	53673		53674			
Description of Materials	Light Brown Sand	Spec	Light Brown Sand	Spec		
Sieve Size						
75.0						
50.0						
37.5						
28.0						
20.0						
14.0						
10.0						
7.1						
5.0						
2.0						
1.0						
0.600						
0.300						
0.150						
0.075						
Fineness Modulus						
MATERIAL PROPERTIES						
ACV (Dry)						
ACV (Wet)						
10% FACT (Dry)						
10% FACT (Wet)						
FI						
DBD	2.571		2.541			
ARD	2.641		2.641			
LBD (kg/m3)						
CBD (kg/m3)						
WA	1.0		1.5			
Sand Equivalent*						
Apparent Relative density						
Clay Content (%)						
Salt Content (%)						

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