

Research Data and Methods

MOISTURE CONTENT DETERMINATION

BH 1 (0.5m)

DESCRIPTION	1 ST READING	2 ND READING	AVERAGE
Weight of empty can W1	21.5	21.2	21.3
Weight of can +moist soil W2	57.9	55.3	56.6
Weight of can +dry soil	55.2	54.7	54.9

$$Mc = \frac{w_2 - w_3}{w_3 - w_1}$$

$$= \frac{56.6 - 54.9}{54.9 - 21.35}$$

$$= 25\%$$

BH 1 (1.0m)

DESCRIPTION	1 ST READING	2 ND READING	AVERAGE
Weight of empty can W1	19.2	20.8	20.1
Weight of can +moist soil W2	40.2	43.7	41.9
Weight of can +dry soil	33.4	31.2	32.3

$$Mc = 78\%$$

BH 2(0.5m) (0748690/0818213)

DESCRIPTION	1 ST READING	2 ND READING	AVERAGE
Weight of empty can W1	20.1	22.0	21.0
Weight of can +moist soil W2	59.6	59.0	59.3
Weight of can +dry soil	53.9	51.9	52.9

$$Mc = 20\%$$

BH2 (1.0m)(0748693/0818211)

DESCRIPTION	1 ST READING	2 ND READING	AVERAGE
Weight of empty can W1	18.4	19.1	18.7
Weight of can +moist soil W2	42.9	44.1	43.5
Weight of can +dry soil	39.6	40.9	40.2

$$Mc = 15\%$$

BH3 3 (0.5m) (0743523/2818264)

DESCRIPTION	1 ST READING	2 ND READING	AVERAGE
Weight of empty can W1	14.4	12.0	13.2
Weight of can +moist soil W2	21.5	23.4	25.3
Weight of can +dry soil	23.5	20.3	21.9

Mc =17.2%**BH3 (1.0m)**

DESCRIPTION	1 ST READING	2 ND READING	AVERAGE
Weight of empty can W1	19.2	19.9	19.5
Weight of can +moist soil W2	66.0	99.0	82.5
Weight of can +dry soil	62.7	64.7	63.5

Mc = 43.1%**BH4 (0.5m) {0748263/0818603}**

DESCRIPTION	1 ST READING	2 ND READING	AVERAGE
Weight of empty can W1	23.5	24.5	24.6
Weight of can +moist soil W2	57.9	56.4	58.0
Weight of can +dry soil	55.2	54.7	56.7

Mc= 29.8%**BH4 (1.0m)(0748263/0818603)**

DESCRIPTION	1 ST READING	2 ND READING	AVERAGE
Weight of empty can W1	19.2	22.8	21.4
Weight of can +moist soil W2	43.0	45.7	43.4
Weight of can +dry soil	34.5	32.0	32.0

Mc= 66%

BH5 (0.5m)(0748317/0818565 {INFRONT OF OLA – OLUWA SCHOOL}

DESCRIPTION	1 ST READING	2 ND READING	AVERAGE
Weight of empty can W1	18.4	20.1	19.0
Weight of can +moist soil W2	43.4	45.2	43.5
Weight of can +dry soil	39.0	44.0	42.0

Mc = 18.0%

BH5 (1.0m)(0748307/0818564 {IN FRONT OF OLA – OLUWA SCHOOL}

DESCRIPTION	1 ST READING	2 ND READING	AVERAGE
Weight of empty can W1	22.0	21.0	21.0
Weight of can +moist soil W2	59.7	59.7	59.4
Weight of can +dry soil	55.0	52.4	54.0

Mc= 25%

BH6 (0.5m) (0748414/0818482)

DESCRIPTION	1 ST READING	2 ND READING	AVERAGE
Weight of empty can W1	22.5	21.7	21.3
Weight of can +moist soil W2	57.8	54.0	57.8
Weight of can +dry soil	56.0	54.9	55.0

Mc= 28%

BH6 (1.0m) {0748414/0818482

DESCRIPTION	1 ST READING	2 ND READING	AVERAGE
Weight of empty can W1	19.2	21.0	22.0
Weight of can +moist soil W2	41.2	44.7	43.0
Weight of can +dry soil	36.0	35.1	34.7

mc= 62%

SPECIFIC GRAVITY TEST

BH1 1 (0.5m)

Description	1 st	2 nd	Average
Mass of emty pycnometer(m1)	28.4	26.5	27.4
Mass of pycnometer+soil (m2)	43.9	48.3	46.1
Mass of pycnometer +soil+ water (m3)	85.4	87.6	86.5
Mass of pycnometer +water (m4)	74.5	77.4	75.9

$$\text{Specific } G_s = \frac{M_2 - M_1}{M_4 - M_1 - M_3 - M_2}$$

G_s = 2.3

BH1 (1.0m)

Description	1 st	2 nd	Average
Mass of emty pycnometer(m1)	24.3	28.7	26.5
Mass of pycnometer+soil (m2)	50.1	49.2	49.6
Mass of pycnometer +soil+ water (m3)	82.4	75.8	79.1
Mass of pycnometer +water (m4)	68.1	77.9	73.0

G_s = 1.8

BH2 (0.5m) {0748690/0818213

Description	1 st	2 nd	Average
Mass of emty pycnometer(m1)	26.7	28.9	27.8
Mass of pycnometer+soil (m2)	49.7	47.1	48.4
Mass of pycnometer +soil+ water (m3)	89.8	90.0	89.9
Mass of pycnometer +water (m4)	77.0	77.1	77.0

G_s = 1.6

BH 2 (1.0m) 0748693/0818211

Description	1st	2nd	Average
Mass of emty pycnometer(m1)	24.3	25.3	24.8
Mass of pycnometer+soil (m2)	40.9	48.2	44.5
Mass of pycnometer +soil+ water (m3)	83.4	75.8	79.6
Mass of pycnometer +water (m4)	68.3	76.9	72.6

G_s = 1.5

BH3 (0.5m) {0743523/2818264}

Description	1st	2nd	Average
Mass of empty pycnometer(m1)	20.7	28.3	24.5
Mass of pycnometer+soil (m2)	30.8	38.4	34.6
Mass of pycnometer +soil+ water (m3)	75.6	83.2	79.4
Mass of pycnometer +water (m4)	69.8	75.7	72.7

G_s = 2.9

BH3 (1.0m)

Description	1st	2nd	Average
Mass of emty pycnometer(m1)	20.7	28.3	24.5
Mass of pycnometer+soil (m2)	30.8	38.4	34.6
Mass of pycnometer +soil+ water (m3)	75.6	83.2	79.4
Mass of pycnometer +water (m4)	69.8	75.7	72.7

G_s = 2.9

BH4 (0.5m) {0748263/0818603}

Description	1st	2nd	Average
Mass of emty pycnometer(m1)	284.0	280.6	282.3
Mass of pycnometer+soil (m2)	322.8	330.6	331.7
Mass of pycnometer +soil+ water (m3)	642.6	619.0	630.8
Mass of pycnometer	576.8	586.9	581.8

+water (m4)			
-------------	--	--	--

Gs = 2.8

BH4 1.0m

Description	1 st	2 nd	Average
Mass of emty pycnometer(m1)	20.7	28.3	24.5
Mass of pycnometer+soil (m2)	30.8	38.4	34.6
Mass of pycnometer +soil+ water (m3)	75.6	83.2	79.4
Mass of pycnometer +water (m4)	69.8	75.7	72.7

Gs = 2.8

BH5 (0.5m) {0748317/0818565}

IN FRONT OF OLA – OLUWA SCHOOL}

Description	1 st	2 nd	Average
Mass of emty pycnometer(m1)	279.9	294.6	287.2
Mass of pycnometer+soil (m2)	330.7	344.5	337.6
Mass of pycnometer +soil+ water (m3)	617.5	636.6	627.0
Mass of pycnometer +water (m4)	586.8	605.1	595.9

Gs = 2.6

BH5 (1.0m) {0748317/0818565}

Description	1 st	2 nd	Average
Mass of emty pycnometer(m1)	279.9	294.6	287.2
Mass of pycnometer+soil (m2)	330.7	344.5	337.6
Mass of pycnometer +soil+ water (m3)	617.5	636.6	627.0
Mass of pycnometer +water (m4)	586.8	605.1	595.9

Gs =2.60

BH6 (0.5m){07483307/0818564}

{IN FRONT OF OLA- OLUWA SCHOOL}

Description	1st	2nd	Average
Mass of emty pycnometer(m1)	26.3	20.9	23.0
Mass of pycnometer+soil (m2)	36.4	37.8	37.1
Mass of pycnometer +soil+ water (m3)	80.7	79.3	80.1
Mass of pycnometer +water (m4)	75.1	70.3	72.5

Gs = 2.23

BH6 (1.0m)

Description	1st	2nd	Average
Mass of emty pycnometer(m1)	279.9	294.6	287.2
Mass of pycnometer+soil (m2)	330.7	344.5	337.6
Mass of pycnometer +soil+ water (m3)	617.5	636.6	627.0
Mass of pycnometer +water (m4)	586.8	605.1	595.9

Gs = 2.2

ATTERBERG LIMITS TEST

BH1 (0.5m)

LIQUID LIMIT

PLASTIC LIMIT

	1	2	3	1	2	3
Container no	1	2	3	1	2	3
No of blows	23	25	24	-	-	-
Wt of container(g)	19	18.8	19.5	19.1	18.8	19.5
Wt of container+wet soil(g)	52.9	53.6	51.9	-	-	-
Wt of container+dry soil(g)	35.9	36.5	35.5	-	-	-
Wt of moisture(g)	17.0	17,1	16,4	17.0	17.1	16.4
Wt of dry soil(g)	16.8	17.7	16.0	16.8	17.7	16.0
LL %= 23%				PI %= 20%		

BH1 (1.0m)**LIQUID LIMIT****PLASTIC LIMIT**

Container no	1	2	3	1	2	3
No of blows	23	25	24	-	-	-
Wt of container(g)	19	18.8	19.5	19.1	18.8	19.5
Wt of container+wet soil(g)	52.9	53.6	51.9	32.6	37.9	39.0
Wt of container+dry soil(g)	35.9	36.5	35.5	32.1	38.2	37.8
Wt of moisture(g)	17.0	17,1	16,4	17.0	17.1	16.4
Wt of dry soil(g)	18.8	19.7	18.0	16.8	17.7	16.0
LL %= 24%				PI %= 21%		

BH2 (0.5m)**LIQUID LIMIT****PLASTIC LIMIT**

Container no	1	2	3	1	2	3
No of blows	23	25	24	-	-	-
Wt of container(g)	19	18.8	19.5	19.1	18.8	19.5
Wt of container+wet soil(g)	52.9	53.6	51.9	35.5	32.6	33.6
Wt of container+dry soil(g)	35.9	36.5	35.5	37.8	39.2	33.7
Wt of moisture(g)	17.0	17,1	16,4	17.0	17.1	16.4
Wt of dry soil(g)	16.8	17.7	16.0	16.8	17.7	16.0
LL %= 23%				PI %= 21%		

BH2 (1.0m)**LIQUID LIMIT****PLASTIC LIMIT**

Container no	1	2	3	1	2	3
--------------	---	---	---	---	---	---

No of blows	23	25	24	-	-	-
Wt of container(g)	19	18.8	19.5	19.1	18.8	19.5
Wt of container+wet soil(g)	52.9	53.6	51.9	33.6	34.5	36.7
Wt of container+dry soil(g)	35.9	36.5	35.5	33.5	34.6	33.6
Wt of moisture(g)	17.0	17,1	16,4	17.0	17.1	16.4
Wt of dry soil(g)	16.8	17.7	16.0	16.8	17.7	16.0
LL %= 25%				PI %= 23%		

BH3 (0.5m)

LIQUID LIMIT

PLASTIC LIMIT

Container no	1	2	3	1	2	3
No of blows	23	25	24	-	-	-
Wt of container(g)	19	18.8	19.5	19.1	18.8	19.5
Wt of container+wet soil(g)	52.9	53.6	51.9	35.5	32.6	33.6
Wt of container+dry soil(g)	35.9	36.5	35.5	37.8	39.2	33.7
Wt of moisture(g)	17.0	17,1	16,4	17.0	17.1	16.4
Wt of dry soil(g)	16.8	17.7	16.0	16.8	17.7	16.0
LL %= 23%				PI %= 21%		

BH3 (1.0m)

LIQUID LIMIT

PLASTIC LIMIT

Container no	1	2	3	1	2	3
No of blows	23	25	24	-	-	-
Wt of container(g)	19	18.8	19.5	19.1	18.8	19.5
Wt of container+wet soil(g)	52.9	53.6	51.9	32.4	33.5	34.6
Wt of	35.9	36.5	35.5	33.9	35.4	31.6

container+dry soil(g)						
Wt of moisture(g)	17.0	17,1	16,4	17.0	17.1	16.4
Wt of dry soil(g)	16.8	17.7	16.0	16.8	17.7	16.0
LL %= 21%				PI %= 19%		

BH4(0.5M)

LIQUID LIMIT

PLASTIC LIMIT

Container no	1	2	3	1	2	3
No of blows	23	25	24	-	-	-
Wt of container(g)	19	18.8	19.5	19.1	18.8	19.5
Wt of container+wet soil(g)	52.9	55.6	51.9	35.5	32.6	33.6
Wt of container+dry soil(g)	35.9	36.5	35.5	37.8	49.2	33.7
Wt of moisture(g)	17.0	18.6	16,4	17.0	17.1	18..4.
Wt of dry soil(g)	16.8	17.7	16.0	16.8	17.7	16.0
LL %= 25%				PI %= 22%		

BH4 (1.0m)

LIQUID LIMIT

PLASTIC LIMIT

Container no	1	2	3	1	2	3
No of blows	23	25	24	-	-	-
Wt of container(g)	19	18.8	19.5	19.1	18.8	19.5
Wt of container+wet soil(g)	52.9	53.6	51.9	33.6	34.5	36.7
Wt of container+dry soil(g)	35.9	36.5	35.5	33.5	34.6	33.6
Wt of moisture(g)	17.0	17,1	16,4	17.0	17.1	16.4
Wt of dry soil(g)	16.8	17.7	16.0	16.8	17.7	16.0

LL %= 25%	PI %= 23%
------------------	------------------

BH5 (0.5M)

LIQUID LIMIT

PLASTIC LIMIT

Container no	1	2	3	1	2	3
No of blows	23	25	24	-	-	-
Wt of container(g)	19	18.8	19.5	19.1	18.8	19.5
Wt of container+wet soil(g)	52.9	53.6	51.9	35.5	32.6	33.6
Wt of container+dry soil(g)	35.9	36.5	35.5	37.8	39.2	33.7
Wt of moisture(g)	17.0	17,1	16,4	17.0	17.1	16.4
Wt of dry soil(g)	16.8	17.7	16.0	16.8	17.7	16.0
LL %= 23%				PI %= 21%		

BH5 (1.0m)

{0748317/0818565{

INFRONT OF OLA – OLUWA SCHOOL}

LIQUID LIMIT

PLASTIC LIMIT

Container no	1	2	3	1	2	3
No of blows	23	25	24	-	-	-
Wt of container(g)	19	18.8	19.5	19.1	18.9	19.5
Wt of container+wet soil(g)	52.9	53.6	51.9	33.6	34.5	36.7
Wt of container+dry soil(g)	35.9	36.5	35.5	43.5	34.6	33.6
Wt of moisture(g)	17.0	17,1	16,4	17.0	17.1	18.4
Wt of dry soil(g)	16.8	17.7	16.0	17.8	17.7	16.0
LL %= 27%				PI %= 25%		

BH6 (0.5M)

LIQUID LIMIT

PLASTIC LIMIT

Container no	1	2	3	1	2	3
No of blows	23	25	24	-	-	-
Wt of container(g)	20	19.8	19.5	19.1	18.8	19.5
Wt of container+wet soil(g)	52.9	53.6	51.9	35.5	32.6	33.6
Wt of container+dry soil(g)	35.9	36.5	40.5	37.8	39.2	33.7
Wt of moisture(g)	17.0	17,1	16,4	17.0	17.7	16.4
Wt of dry soil(g)	16.8	17.5	16.0	18.8	17.7	16.0
LL %= 26%				PI %= 24%		

BH6 (1.0m)

LIQUID LIMIT

PLASTIC LIMIT

Container no	1	2	3	1	2	3
No of blows	23	25	24	-	-	-
Wt of container(g)	19	18.8	19.5	19.1	18.8	19.5
Wt of container+wet soil(g)	52.9	53.6	51.9	33.6	34.5	36.7
Wt of container+dry soil(g)	35.9	36.5	35.5	33.5	34.6	33.6
Wt of moisture(g)	17.0	17,1	16,4	17.0	17.1	16.4
Wt of dry soil(g)	16.8	17.7	16.0	16.8	17.7	16.0
LL %= 25%				PI %= 23%		

Shrinkage limit for sample BH1 (0.5m)

Final length	14	14
Initial length	6.5	6,5

$$L_s = 1 - \text{initial length} / \text{final length} \times 100$$

$$= 1 - 6.5/14 \times 100$$

$$= \mathbf{54\%}$$

Shrinkage limit for sample BH1 (1.0 m)

1

2

Final length	14	14
initial length	6.2	6,2

$$L_s = 1 - \text{initial length} / \text{final length} \times 100$$

$$= 1 - 6.2/14 \times 100$$

$$= \mathbf{56\%}$$

Shrinkage limit for sample BH2 (0.5m)

1

2

Final length	14	14
initial length	6.1	6,1

$$L_s = 1 - \text{initial length} / \text{final length} \times 100$$

$$= 1 - 6.1/14 \times 100$$

$$= \mathbf{57\%}$$

Shrinkage limit for sample BH2 (1.0 m)

1

2

Final length	14	14
initial length	6.0	6,0

$$L_s = 1 - \text{initial length} / \text{final length} \times 100$$

$$= 1 - 6.0/14 \times 100$$

$$= \mathbf{58\%}$$

Shrinkage limit for sample BH3 (0.5 m)

1

2

Final length	14	14
initial length	6.4	6,4

$$L_s = 1 - \text{initial length} / \text{final length} \times 100$$

$$= 1 - 6.4/14 \times 100$$

$$= \mathbf{55\%}$$

Shrinkage limit for sample BH3 (1.0 m)

1

2

Final length	14	14
Original length	6.2	6,2

$$L_s = 1 - \text{initial length} / \text{final length} \times 100$$

$$= 1 - 6.2/14 \times 100$$

$$= \mathbf{56\%}$$

Shrinkage limit for sample BH4 (0.5m)

Initial length (cm)	14	14
Final length (cm)	11	10.4

$$L_s = 1 - 10.7/14 \times 100$$

$$L_s = \mathbf{23.6\%}$$

Shrinkage limit for sample BH4 (1.0m)

Initial length (cm)	14	14
Final length (cm)	12	12

$$L_s = 1 - 12/14 \times 100 L_s = \mathbf{24.6\%}$$

Shrinkage limit for sample BH5 (0.5m)

Initial length (cm)	14	14
Final length (cm)	10	10

$$L_s = 1 - 10./14 \times 100$$

$$L_s = \mathbf{23.6\%}$$

Shrinkage limit for sample BH5 (1.0m){0748317/0818565}

{IN FRONT OF OLA – OLUWA SCHOOL}

Initial length (cm)	14	14
Final length	11	11

$$L_s = 1 - \frac{11}{14} \times 100$$

$$L_s = 25\%$$

Shrinkage limit for sample BH6 (0.5m)

Initial length (cm)	14	14
Final length (cm)	11.6	11.6

$$L_s = 1 - \frac{11.6}{14} \times 100$$

$$L_s = 27.6\%$$

Shrinkage limit for sample BH6 (1.0m)

Initial length (cm)	14	14
Final length (cm)	11	11

$$L_s = 1 - \frac{11}{14} \times 100$$

$$L_s = 23.6\%$$

SIEVE ANALYSIS

SAMPLE BH1 (0.5&1.0m)

Sieve size	Mass of empty sive	Mass of sieve+ovendry soil	Mass of ovendry soil retained	% retained (p)	% passing (100-p)
3.35mm	580	770	90	45	55
2.36 mm	540	580	40	20	35
2.00	520	530	10	5	30
1.18	490	520	30	15	15
0.600μ	480	510	30	15	0
0.425	420	430	10	5	0
0.300	410	420	10	5	0
0.212	400	410	10	5	0
0.150	380	390	10	5	0
0.063	320	325	5	2.5	0

SAMPLE BH2 (0.5m&1.0m)

Sieve size	Mass of empty sive	Mass of sieve+ovendry soil	Mass of ovendry soil retained	% retained (p)	% passing (100-p)
3.35	580	840	60	30	70
2.36	540	570	30	15	55
2.00	520	530	10	5	50
1.18	490	500	10	5	45
0.600	480	490	10	5	40
0.425	420	430	10	5	35
0.300	410	420	10	5	30
0.212	400	410	10	5	25
0.150	380	400	20	10	15
0.063	320	400	0.8	4	11

SAMPLE BH3 (0.5m& 1.0m)

Sieve size	Mass of empty sieve	Mass of sieve+ovendry soil	Mass of ovendry soil retained	% retained (p)	% passing (100-p)
3.35	580	820	40	20	80
2.36	540	570	30	15	65
2.00	520	530	10	5	60
1.18	490	510	20	10	50
0.600	480	490	10	5	45
0.425	420	430	10	5	40
0.300	410	420	10	5	35
0.212	400	410	10	5	30
0.150	380	400	20	10	20
0.063	320	400	8	4	16

SAMPLE BH4 (0.5m& 1.0m)

Sieve size	Mass of empty sieve	Mass of sieve+ovendry soil	Mass of ovendry soil retained	% retained (p)	% passing (100-p)
3.35	580	770	0.00	0.00	100
2.36	540	580	79.60	19.90	80.1
2.00	520	530	74.3	18.58	61.5
1.18	490	520	61.0	1.53	60.5
0.600	480	510	34.4	8.60	51.4
0.425	420	430	22.0	5.50	45.9
0.300	410	420	20.6	5.1	40.7
0.212	400	410	11.4	5	31.25
0.150	380	390	10	3.68	0.00
0.063	320	325	125.0	31.2	0.00

SAMPLE BH5 (0.5m&1.0m) {0748317/0818565{

IN FRONT OF OLA – OLUWA SCHOOL}

Sieve size	Mass of empty sive	Mass of sieve+ovendry soil	Mass of ovendry soil retained	% retained (p)	% passing (100-p)
3.35	580	770	0.00	0.00	100.0
2.36	540	580	12.30	2.46	97.54
2.00	520	530	2.40	0.48	94.04
1.18	490	520	5.60	1.12	92.92
0.600	480	510	9.60	1.92	91.00
0.425	420	430	18.20	3.64	87.3
0.300	410	420	81.9	16.3	70.9
0.212	400	410	24.20	4.84	66.14
0.150	380	390	10	61.88	0.00
0.063	320	325	309.4	61.8	0.00

SAMPLE BH6(0.5m&1.0m)

Sieve size	Mass of empty sive	Mass of sieve+ovendry soil	Mass of ovendry soil retained	% retained (p)	% passing (100-p)
3.35	573	612	39	6.50	93.5
2.36	534	545	11	1.83	91.6
2.00	516	521	5	0.83	90.8
1.18	487	507	49	3.33	87.5
0.600	479	528	27	8.17	79.3
0.425	423	450	28	4.50	74.8
0.300	412	440	20	4.67	70.1
0.212	399	419	12	3.3	66.8
0.150	383	395	7	2.00	64.8
0.063	397	404	3	1.17	63.6

COMPACTION TEST

Compaction results for sample BH1, BH2, BH3, (0.5m- 1.0m) {0743522/2818264}

1 2 3(0.5m) 1 2 3(1.0m)

Wt. cyl and wet sample(kg)	6.34		6.42		6.54		6.63		6.48		6.32		
Wt. of clinder(kg)	4.45		4.45		4.45		4.45		4.45		4.45		
Wt. of wet sample(kg)	1.89		1.97		2.09		2.18		2.03		2.05		
Wet density (kg/m3)	2002.12		2086.86		2213.98		2309.32		2150.42		2100		
Container no(g)	1.00%		2.00%		3.00%		1.00%		3.00%				
	T	B	T	B	T	B	T	B		T	B	T	B
Wt of container (g)	28.9	29.5	28.7	29.2	30.0	31.0	29.9	31.9		25.70	27.9	28.7	26.6
Wt.of.cont.&wet sample(g)	63.10	73.70	74.8	55.9	55.2	58.70	70.9	73.2	53.70	55.4	53.30		
Wt. of cont& dry sample	59.50	75.7	68.2	52.9	52.8	53.9	63.9	68.00	46.60	43.60	51.80		
Wt of moisture	57.5	73.6	6.60	3.0	2.4	4.8	7.0	5.20	7.10	7.13	1.50		
Wt.of dry sample (g)	28.6	44.1	39.5	23.7	22.8	22.9	34.0	36.1	18.7	17.9	23.10		
Moisture content %	19.58	4.76	16.7	12.6	10.53	20.96	20.59	14.40	37.97	36.9	23.10		
Avg moisture content %	12.17		14.6			15.74	17.50		22.23	23.50			
Dry density (kg/m3)	1784.88		1819.67			1912.8	1965.4		1759.3				

Compaction results for sample BH4, BH5,BH6(0.5m- 1.0m){0748414/0818482}

1 2 3 (0.5m) 1 2 3 (1.0m)

Wt.cyl and wet sample(kg)	3.28		3.38		3.53		3.60		3.56		3.51	
Wt. of clinder(kg)	1.85		1.85		1.85		1.85		1.85		1.85	
Wt. of wet sample(kg)	1.43		1.53		1.68		1.75		1.71		1.66	
Wet density (kg/m3)	1514.83		1620.76		1779.66		1853.81		1811.44		1758.47	
Container no(g)	1.00%		2.00%		3.00%		1.00%		2.00%		3.00%	
	T	B	T	B	T	B	T	B	T	B	T	B
Wt of container (g)	32.0	31.5	28.7	26.9	27.8	28.7	27.8	31.0	24.8	25.70	25.5	27.8
Wt.of .cont.&wet sample(g)	60.5	73.70	74.8	55.9	55.2	58.70	70.9	73.2	54.5	65.40	53.70	53.30
Wt. of cont& dry sample	59.50	70.6	68.2	52.9	52.8	53.9	63.9	68.00	51.5	59.00	46.60	51.80
Wt of moisture	1.00	3.10	6.60	3.0	2.4	4.8	7.0	5.20	3.00	6.40	7.10	1.50
Wt.of dry sample (g)	27.5	39.1	39.5	23.7	22.8	22.9	34.0	36.1	20.6	27.3	18.7	23.10
Moisture content %	3.64	7.93	16.7	12.6	10.53	20.96	20.59	14.40	14.5	23.44	37.97	23.10
Avg. moisture content %	5.78		11.8			18.85	20.7		21.84		24.9	
Dry density (kg/m3)	1432.03		1448.86			1497.4	1535.1		1486.72		1407.7	

THIS TEST WAS RUN BY ENGR ADENIYI JUDE. A 24/03/2021

CHECKED BY ENGR ADENIYI JUDE. A 24/03/2021

SAMPLE ID 08/18