

APPENDIX II
LABORATORY TEST RESULTS

PLSA Engineering and Surveying
 1210 West Lincoln Ave.
 Yakima, WA 98902
 (509) 575-6990

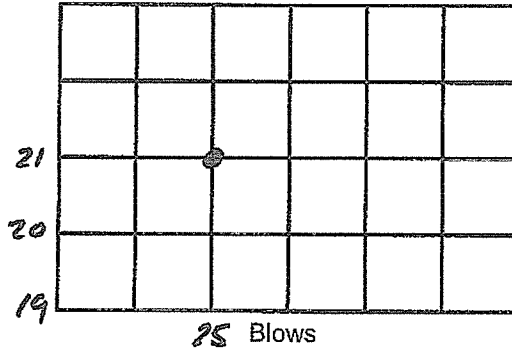
Project: CDCP
 Job #: 12089
 Date: 8/3/12
 Performed By: ITC
 Date of Test: _____

Plasticity Index

ASTM D4318
 Liquid Limit

Can #	Wght. of Can	Wght. of Can + Wet Soil	Wght. Of can + Dry Soil	Moisture Content (%)	Blows
		33.8g	26.7g	21	25

Soil Description: NATIVE FINES
 Sample Source: TP-#6C-6'



Flow Index: _____
 Liquid Limit: 21

Plastic Limit

Can #	Wght. of Can (A)	Wght. of Can + Wet Soil (B)	Wght. Of can + Dry Soil (C)	PL = $\frac{B-C}{C-A} \times 100$
		18.6g	16.0g	14.0
		20.1g	16.7g	16.9
		22.1g	18.5g	16.3

Plasticity Index = PI = LL - PL = 21 - 16 = 5

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Date of Test: _____

Plasticity Index

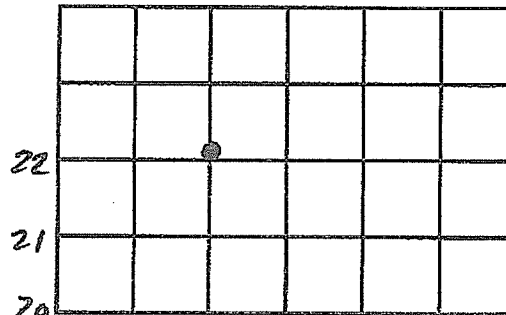
ASTM D4318

Liquid Limit

Can #	Wght. of Can	Wght. of Can + Wet Soil	Wght. Of can + Dry Soil	Moisture Content (%)	Blows
		35.1g	27.3g	22.2	25

Soil Description: NATIVE FINES

Sample Source: TP-#4



Flow Index: _____

Liquid Limit: 23

Plastic Limit

Can #	Wght. of Can (A)	Wght. of Can + Wet Soil (B)	Wght. Of can + Dry Soil (C)	PL = $\frac{B-C}{C-A} \times 100$
		19.7g	16.6g	15.7
		18.6g	15.3g	16.1
		20.1g	16.9g	15.9

Plasticity Index = PI = LL - PL =

23 - 16 = 7

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Project: CDPC

Job #: 12089

Date: 8/1/12

Performed By: JC

Sampled By: BC

Gradation Analysis

ASTM C136

Screen Size	Wght. Retained	% Retained	% Passing	Specifications
3/4"	0		100	
3/8"	9.2 g		98	
#4	14.6		95	
#10	32.7		89	
#20	90.4		72	
#40	90.1		55	
#100	140.6		28	
#200	68.7		15.1	
-#200	78.8			

Sample Wght: 522.1 g

Sample Number: _____

Sample Date: _____

Sample Source: NTP #1 - 10'

Sample Description: _____

Date Of Test: _____

Fineness modulus (nearest 0.01): _____

Wash
Wght. Before Wash: <u>522.1</u>
Wght. After Wash: <u>450.3</u>
Wght. Washed Thru 200: <u>71.8</u>

* Report percentages to the nearest whole number. Except passing 200 is less than 10%, report to 0.1%

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Project: CDDC

Job #: 12089

Date: 8/1/12

Performed By: JL

Sampled By: BC

Gradation Analysis

ASTM C136

Screen Size	Wght. Retained	% Retained	% Passing	Specifications
3" / 2" / 1 1/2"	0 / 1.08 / 1.22		100 / 94 / 88	
1"	.95		83	
3/4"	.35		81	
3/8"	.62		78	
#4	2.02		67.6	
#4	13.01			
#4	0			
#10	137.6 g		50	
#20	130.4		34	
#40	99.6		21	
#80	115.8		6.2	
#200	48.6			

COARSE
 FINE

Sample Wght: 19.25 LBS

Sample Number: _____

Sample Date: _____

Sample Source: TP 3 @ -6'

Sample Description: _____

Date Of Test: _____

Fineness modulus (nearest 0.01): _____

Wash
Wght. Before Wash: _____
Wght. After Wash: _____
Wght. Washed Thru 200: _____

* Report percentages to the nearest whole number. Except passing 200 is less than 10%, report to 0.1%

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Project: CDPC

Job #: 12089

Date: 8/1/12

Performed By: JC

Sampled By: BC

Gradation Analysis

ASTM C136

Screen Size	Wght. Retained	% Retained	% Passing	Specifications
#4	0		100	
#10	8.4 g		99	
#20	52.4		91	
#40	46.4		83	
#100	164.0		58	
#200	122.8		39	
-#200	250.0			

Sample Wght: 644.0 g

Sample Number: _____

Sample Date: _____

Sample Source: TP-#4

Sample Description: _____

Date Of Test: _____

Fineness modulus (nearest 0.01): _____

Wash	
Wght. Before Wash:	<u>644.0</u>
Wght. After Wash:	<u>442.4</u>
Wght. Washed Thru 200:	<u>201.6</u>

* Report percentages to the nearest whole number. Except passing 200 is less than 10%, report to 0.1%

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Project: C3PC
 Job #: 12089
 Date: 8/1/12
 Performed By: JC
 Sampled By: BC

Gradation Analysis

ASTM C136

Screen Size	Wght. Retained	% Retained	% Passing	Specifications
2" / 1 1/2"	0 / .44		100 / 99	
1"	1.51		93	
3/4"	1.92		87	
3/8"	3.13		76	
#4	2.44		68	
-#4	20.06			
#4	0		68	
#10	20.3 g		66	
#20	66.9		59	
#40	85.4		51	
#200	303.6		21.0	
#200	212.9			

COARSE
FINE

Sample Wght: 29.50 LBS / 689.1g
 Sample Number: _____
 Sample Date: _____
 Sample Source: TP#5 @ -5'
 Sample Description: _____
 Date Of Test: _____
 Fineness modulus (nearest 0.01): _____

Wash
Wght. Before Wash: <u>689.1</u>
Wght. After Wash: <u>499.9</u>
Wght. Washed Thru 200: <u>189.2</u>

* Report percentages to the nearest whole number. Except passing 200 is less than 10%, report to 0.1%

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Project: LDPC
 Job #: 12089
 Date: 8/1/12
 Performed By: JC
 Sampled By: BC

Gradation Analysis

ASTM C136

Screen Size	Wght. Retained	% Retained	% Passing	Specifications
# 4	①		100	
# 10	14.6g		98	
# 20	67.8		88	
# 40	89.8		75	
# 100	205.8		46	
# 200	102.2		31.5	
# -200	220.8			

Sample Wght: 701.0g
 Sample Number: _____
 Sample Date: _____
 Sample Source: TP-#6 @ -6'
 Sample Description: _____
 Date Of Test: _____
 Fineness modulus (nearest 0.01): _____

Wash	
Wght. Before Wash:	<u>701.0</u>
Wght. After Wash:	<u>508.4</u>
Wght. Washed Thru 200:	<u>192.6</u>

* Report percentages to the nearest whole number. Except passing 200 is less than 10%, report to 0.1%

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 Sampled By: BC

Gradation Analysis

ASTM C136

Screen Size	Wght. Retained	% Retained	% Passing	Specifications
2" / 1 1/2"	0 / .35		100 / 98	
1"	1.21		94	
3/4"	1.39		89	
3/8"	3.02		78	
#4	2.99		67.5	
-#4	19.01			
#4	0		67.5	
#10	8.6 g		67	
#20	60.2		60	
#40	81.3		51	
#200	275.4		21.6	
-#200	200.9			

COARSE
 FINE

Sample Wght: 28.17 LBS / 626.4g
 Sample Number: _____
 Sample Date: _____
 Sample Source: TP- #7
 Sample Description: _____
 Date Of Test: _____
 Fineness modulus (nearest 0.01): _____

Wash	
Wght. Before Wash:	<u>626.4g</u>
Wght. After Wash:	<u>468.0</u>
Wght. Washed Thru 200:	<u>158.4</u>

* Report percentages to the nearest whole number. Except passing 200 is less than 10%, report to 0.1%

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Date: 8/1/12

Performed By: JC

Sampled By: BC

Gradation Analysis

ASTM C136

Screen Size	Wght. Retained	% Retained	% Passing	Specifications
2" / 1 1/2"	0 / .85		100 / 96	
1"	2.01		87	
3/4"	.65		84	
3/8"	.62		81	
#4	3.81		64.2	
-#4	14.25			
#4	0		64.2	
#10	125.5		48	
#20	130.6		32	
#40	84.1		21	
#200	127.7		5.1	
-#200	40.0			

COARSE

FINE

Sample Wght: 22.19 / 567.9g
 Sample Number: _____
 Sample Date: _____
 Sample Source: TP-8@-6'
 Sample Description: _____
 Date Of Test: _____
 Fineness modulus (nearest 0.01): _____

Wash
Wght. Before Wash: <u>507.9</u>
Wght. After Wash: <u>477.3</u>
Wght. Washed Thru 200: <u>30.6</u>

* Report percentages to the nearest whole number. Except passing 200 is less than 10%, report to 0.1%