

MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
 Suite 310 – 1500 Woolridge St
 Coquitlam, BC, V3K 0B8

January 11, 2014
 Project Number: 12-1417-0015/3000

ATTENTION: Mr. Terence Lai, M.Sc.

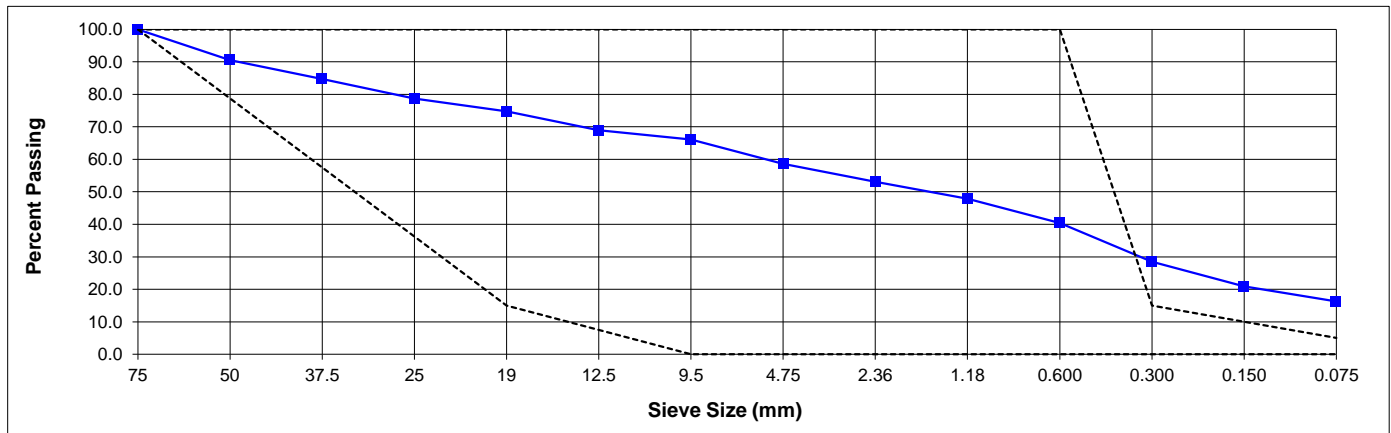
PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-2, SA 1 - Bag 750; As Received
Source:	Othello Pit, Fraser Valley District

DATE SAMPLED: December 19, 2013
 DATE TESTED: January 9, 2014

SAMPLED BY: Client
 TESTED BY: IC

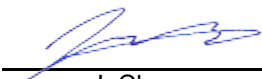
SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, SELECT GRANULAR SUB BASE	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
75	0	0.0	100.0	0.0		100	100
50	2545	9.5	90.5	23.0			
37.5	1543	5.8	84.7	14.0			
25	1603	6.0	78.7	14.5			
19	1068	4.0	74.7	9.7		15	100
12.5	1553	5.8	68.9	14.0			
9.5	755	2.8	66.1	6.8		0	100
4.75	1989	7.4	58.7	18.0			
2.36	51.8	5.5	53.1		9.4		
1.18	49	5.2	47.9		8.9		
0.600	70.5	7.5	40.4		12.8	0	100
0.300	111.9	11.9	28.5		20.3	0	15
0.150	70.9	7.6	20.9		12.9		
0.075	43.2	4.6	16.3		7.9	0	5
PAN	153	16.3	0		27.8		
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	11056.0 g	Mass before wash:	550.3 g
Total mass - 4.75mm:	15687 g	Mass after wash:	420.9 g
Total mass of sample:	26743 g	Wash loss fines:	129.4 g

Reported by: _____


 I. Chung

Reviewed by: _____


 L. Hu, M. Sc. E., P.Eng.



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SIEVE ANALYSIS OF FINE AND COARSE AGGREGATE

ASTM C 136 / C 117

MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
Suite 310 – 1500 Woolridge St
Coquitlam, BC V3K 0B8

January 11, 2014
Project Number: 12-1417-0015/3000

ATTENTION: Mr. Terence Lai, M.Sc.

PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-2, SA 2 - Bag 760; As Received
Source:	Othello Pit, Fraser Valley District

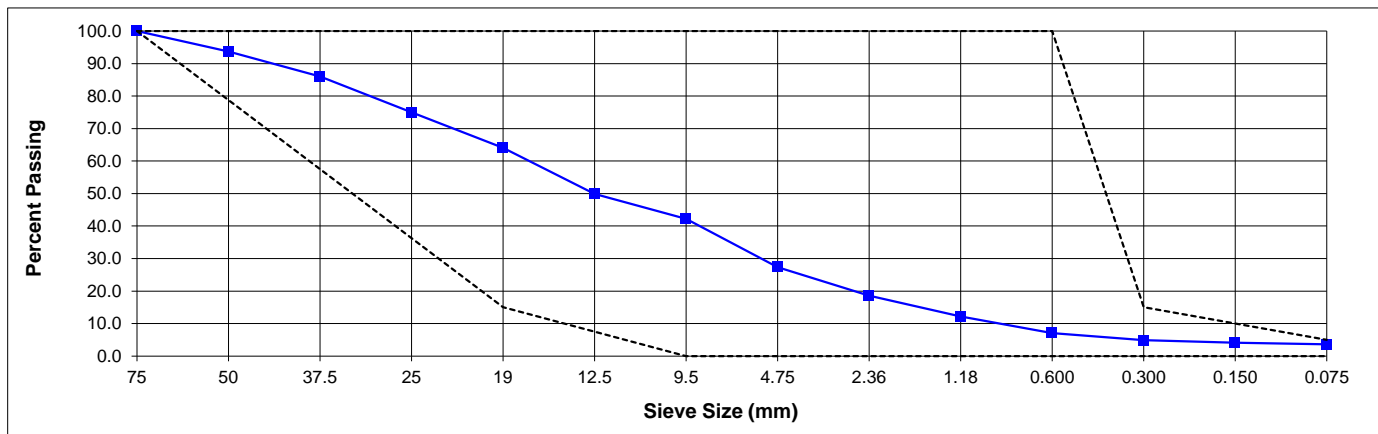
DATE SAMPLED: December 19, 2013

SAMPLED BY: Client

DATE TESTED: January 3, 2014

TESTED BY: IC

SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, SELECT GRANULAR SUB BASE	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
75	0	0.0	100.0	0.0		100	100
50	1855	6.3	93.7	8.7			
37.5	2257	7.7	86.0	10.6			
25	3261	11.1	74.9	15.3			
19	3194	10.9	64.1	14.9		15	100
12.5	4175	14.2	49.9	19.5			
9.5	2260	7.7	42.2	10.6		0	100
4.75	4374	14.9	27.4	20.5			
2.36	97.6	8.8	18.6		32.0		
1.18	71.6	6.4	12.2		23.5		
0.600	56.4	5.1	7.1		18.5	0	100
0.300	25.0	2.2	4.9		8.2	0	15
0.150	8.1	0.7	4.1		2.7		
0.075	5.3	0.5	3.6		1.7	0	5
PAN	40.6	3.6	0		13.3		
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	21376.0 g	Mass before wash:	304.6 g
Total mass - 4.75mm:	8057 g	Mass after wash:	267.8 g
Total mass of sample:	29433 g	Wash loss fines:	36.8 g
		Fines from pan:	3.8 g

Reported by:

I. Chung

Reviewed by:

L. Hu, M. Sc. E., P.Eng.



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 Suite 310 – 1500 Woolridge St
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January 11, 2014
 Project Number: 12-1417-0015/3000

ATTENTION: Mr. Terence Lai, M.Sc.

PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-2, SA 2 - Bag 760; Lab Crushed
Source:	Othello Pit, Fraser Valley District

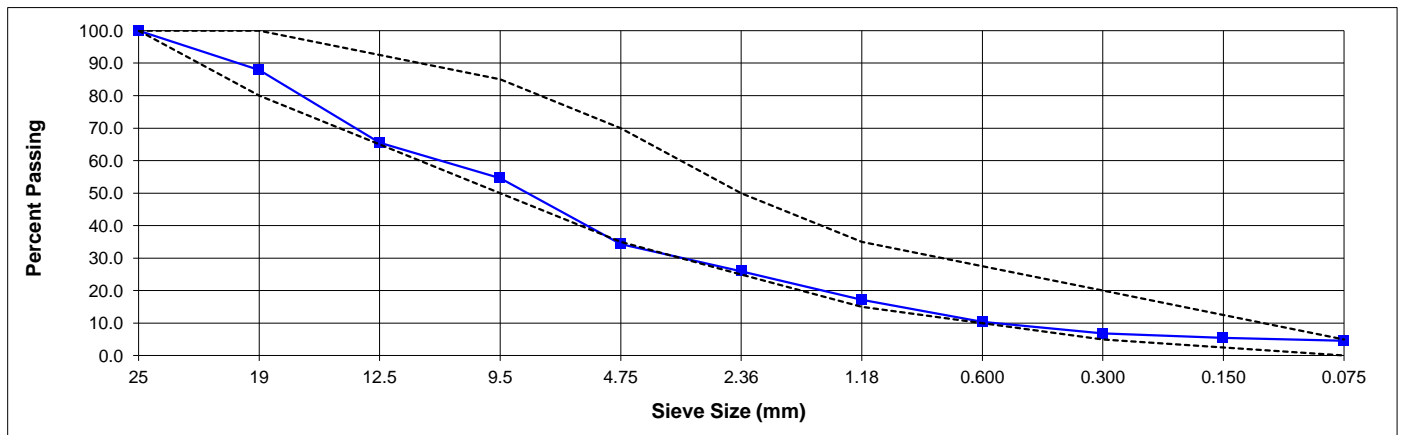
DATE SAMPLED: December 19, 2013

SAMPLED BY: Client

DATE TESTED: January 3, 2014

TESTED BY: IC

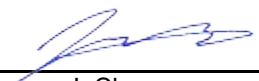
SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, WELL GRADED BASE COURSE AGGREGATE, 25 MM	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
25	0	0.0	100.0	0.0		100	100
19	3506	12.1	87.9	18.4		80	100
12.5	6484	22.4	65.5	34.1			
9.5	3166	10.9	54.6	16.6		50	85
4.75	5864	20.3	34.3	30.8		35	70
2.36	111.1	8.4	25.9		24.5	25	50
1.18	115.7	8.7	17.2		25.5	15	35
0.600	89.4	6.8	10.4		19.7		
0.300	47.0	3.6	6.9		10.3	5	20
0.150	18.2	1.4	5.5		4.0		
0.075	12.6	1.0	4.6		2.8	0	5
PAN	60.3	4.6	0		13.3		
Total		100.0		100.0	100.0		



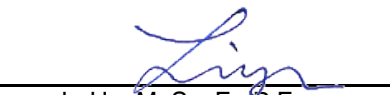
Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	19020.0 g	Mass before wash:	454.3 g
Total mass - 4.75mm:	9938 g	Mass after wash:	400.7 g
Total mass of sample:	28958 g	Wash loss fines:	53.6 g
		Fines from pan:	6.7 g

Reported by:


 I. Chung

Reviewed by:


 L. Hu, M. Sc. E., P.Eng.



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MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
Suite 310 – 1500 Woolridge St
Coquitlam, BC V3K 0B8

January 11, 2014
Project Number: 12-1417-0015/3000

ATTENTION: Mr. Terence Lai, M.Sc.

PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-3, SA 1 - Bag 765; As Received
Source:	Othello Pit, Fraser Valley District

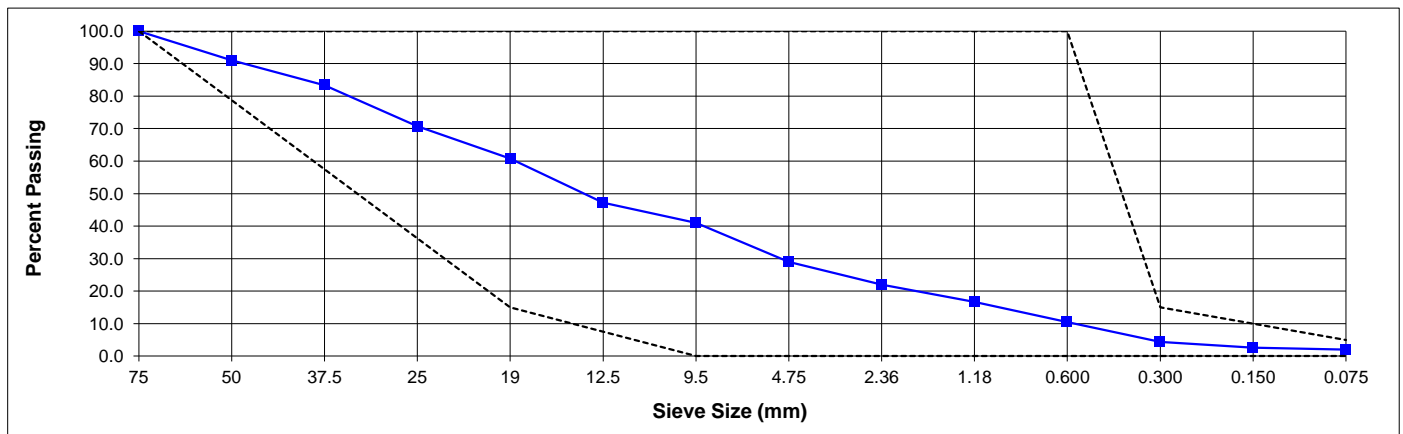
DATE SAMPLED: December 19, 2013

SAMPLED BY: Client

DATE TESTED: January 10, 2014

TESTED BY: IC

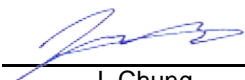
SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, SELECT GRANULAR SUB BASE	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
75	0	0.0	100.0	0.0		100	100
50	2832	9.0	91.0	12.7			
37.5	2403	7.6	83.4	10.7			
25	3988	12.7	70.7	17.8			
19	3109	9.9	60.8	13.9		15	100
12.5	4294	13.6	47.2	19.2			
9.5	1954	6.2	41.0	8.7		0	100
4.75	3778	12.0	29.0	16.9			
2.36	117.4	7.0	21.9		24.2		
1.18	87.5	5.2	16.7		18.0		
0.600	105.2	6.3	10.4		21.7	0	100
0.300	101.3	6.0	4.4		20.9	0	15
0.150	29.6	1.8	2.6		6.1		
0.075	10.9	0.7	2.0		2.2	0	5
PAN	32.9	2.0	0		6.8		
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	22358.0 g	Mass before wash:	484.8 g
Total mass - 4.75mm:	9111 g	Mass after wash:	454.7 g
Total mass of sample:	31469 g	Wash loss fines:	30.1 g
		Fines from pan:	2.8 g

Reported by:


I. Chung

Reviewed by:


L. Hu, M. Sc. E., P.Eng.



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 Project Number: 12-1417-0015/3000

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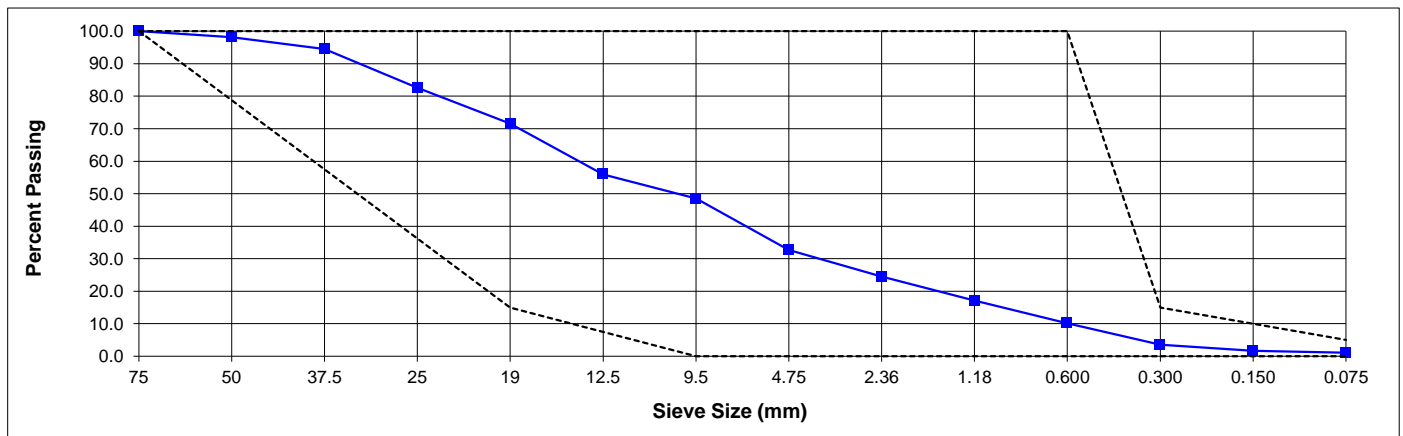
PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-3, SA 2 - Bag 762; As Received
Source:	Othello Pit, Fraser Valley District

DATE SAMPLED: December 19, 2013
 DATE TESTED: January 8, 2014


SAMPLED BY: Client
 TESTED BY: IC


SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, SELECT GRANULAR SUB-BASE	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
75	0	0.0	100.0	0.0		100	100
50	596	1.8	98.2	2.7			
37.5	1207	3.7	94.5	5.5			
25	3890	11.9	82.6	17.6			
19	3626	11.1	71.6	16.4		15	100
12.5	5126	15.6	55.9	23.2			
9.5	2439	7.4	48.5	11.0		0	100
4.75	5190	15.8	32.7	23.5			
2.36	89.9	8.2	24.5		25.0		
1.18	80.5	7.3	17.2		22.4		
0.600	77.7	7.1	10.1		21.6	0	100
0.300	71.9	6.5	3.6		20.0	0	15
0.150	20.9	1.9	1.7		5.8		
0.075	6.6	0.6	1.1		1.8	0	5
PAN	11.7	1.1	0		3.3		
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	22074.0 g	Mass before wash:	359.2 g
Total mass - 4.75mm:	10714 g	Mass after wash:	348.8 g
Total mass of sample:	32788 g	Wash loss fines:	10.4 g
		Fines from pan:	1.3 g

Reported by: 
 I. Chung

Reviewed by: 
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SIEVE ANALYSIS OF FINE AND COARSE AGGREGATE

ASTM C 136 / C 117

MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
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Coquitlam, BC V3K 0B8

January 11, 2014
Project Number: 12-1417-0015/3000

ATTENTION: Mr. Terence Lai, M.Sc.

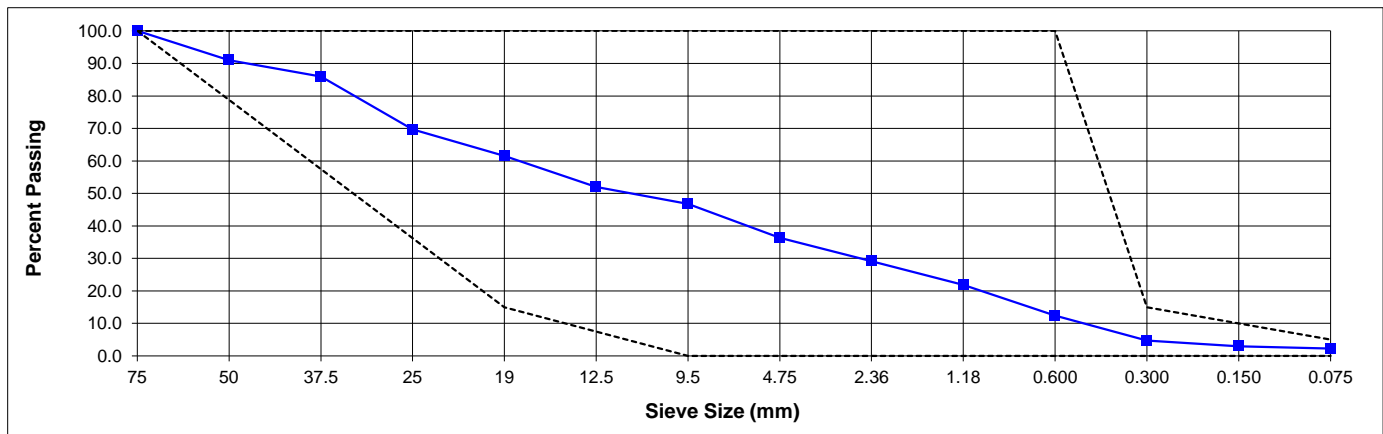
PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-4, SA 2 - Bag 764; As Received
Source:	Othello Pit, Fraser Valley District

DATE SAMPLED: December 19, 2013
DATE TESTED: January 8, 2014

SAMPLED BY: Client
TESTED BY: IC

SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, SELECT GRANULAR SUB BASE	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
75	0	0.0	100.0	0.0		100	100
50	3063	9.0	91.0	14.1			
37.5	1734	5.1	85.9	8.0			
25	5547	16.3	69.7	25.5			
19	2776	8.1	61.5	12.8		15	100
12.5	3272	9.6	51.9	15.1			
9.5	1758	5.2	46.8	8.1		0	100
4.75	3576	10.5	36.3	16.5			
2.36	93.6	7.1	29.2		19.6		
1.18	96.8	7.4	21.8		20.3		
0.600	123.6	9.4	12.4		25.9	0	100
0.300	100.9	7.7	4.8		21.1	0	15
0.150	23.1	1.8	3.0		4.8		
0.075	10	0.8	2.2		2.1	0	5
PAN	29.5	2.2	0		6.2		
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	21726.0 g	Mass before wash:	477.5 g
Total mass - 4.75mm:	12386 g	Mass after wash:	450.0 g
Total mass of sample:	34112 g	Wash loss fines:	27.5 g
		Fines from pan:	2 g

Reported by:
I. Chung

Reviewed by:
L. Hu, M. Sc. E., P.Eng.



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SIEVE ANALYSIS OF FINE AND COARSE AGGREGATE

ASTM C 136 / C 117

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Suite 310 – 1500 Woolridge St
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January 11, 2014
Project Number: 12-1417-0015/3000

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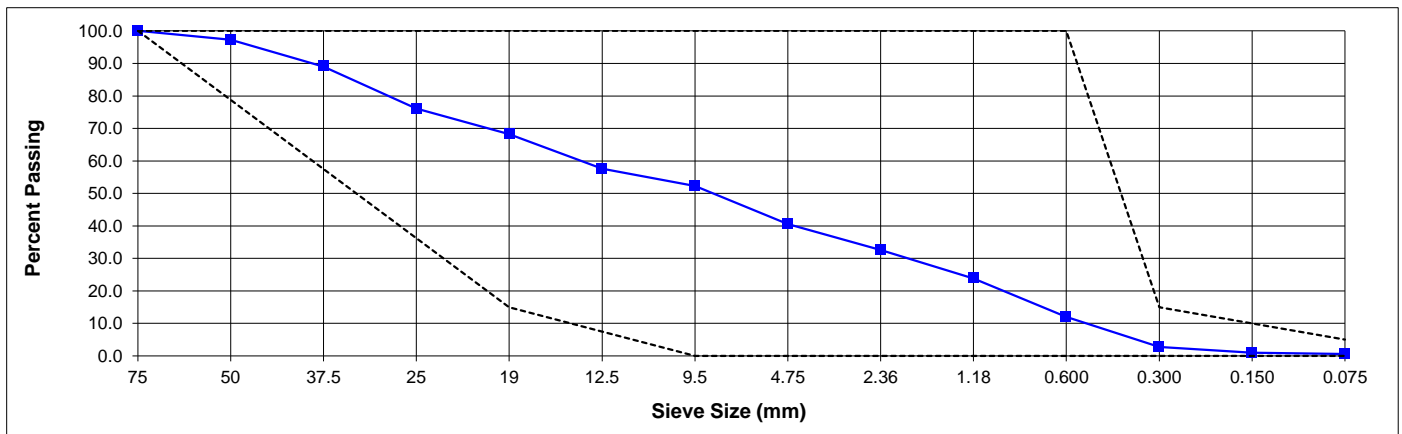
PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-6, SA 1 - Bag 766; As Received
Source:	Othello Pit, Fraser Valley District

DATE SAMPLED: December 19, 2013
DATE TESTED: January 8, 2014

SAMPLED BY: Client
TESTED BY: IC

SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, SELECT GRANULAR SUB BASE	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
75	0	0.0	100.0	0.0		100	100
50	830	2.7	97.3	4.5			
37.5	2537	8.2	89.1	13.9		15	100
25	3993	13.0	76.1	21.9			
19	2416	7.9	68.2	13.2			
12.5	3251	10.6	57.6	17.8			
9.5	1652	5.4	52.3	9.0		0	100
4.75	3593	11.7	40.6	19.7			
2.36	94	8.0	32.6		19.8	0	100
1.18	101.6	8.7	23.9		21.4		
0.600	138.5	11.8	12.0		29.2		
0.300	108.4	9.3	2.8		22.8		
0.150	21.1	1.8	1.0		4.4	0	15
0.075	4.6	0.4	0.6		1.0		
PAN	6.8	0.6	0		1.4	0	5
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	18272.0 g	Mass before wash:	475.0 g
Total mass - 4.75mm:	12481 g	Mass after wash:	469.3 g
Total mass of sample:	30753 g	Wash loss fines:	5.7 g
		Fines from pan:	1.1 g

Reported by: I. Chung

Reviewed by: L. Hu, M. Sc. E., P.Eng.



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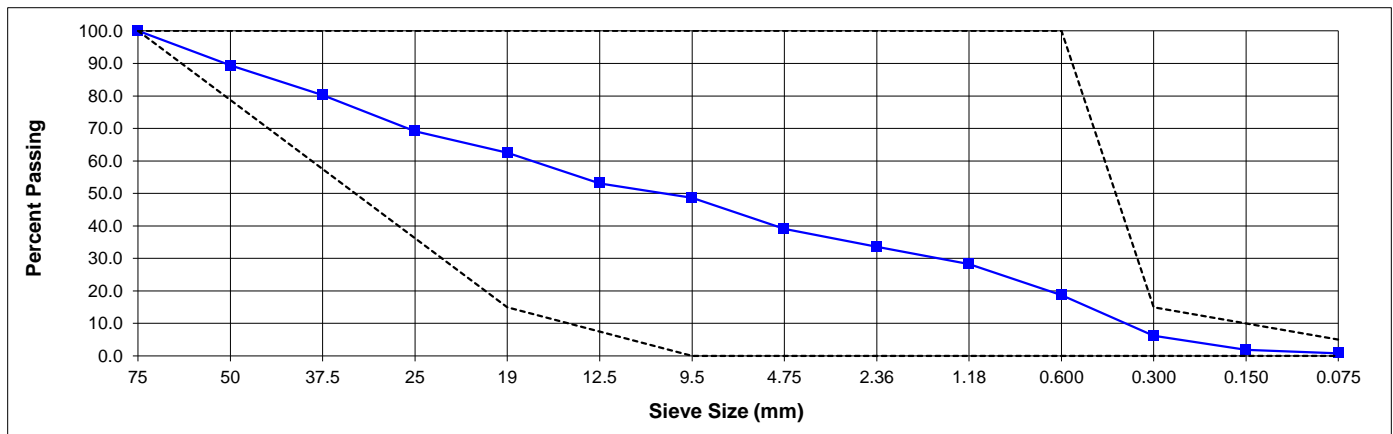
PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-7, SA 1 - Bag 767; As Received
Source:	Othello Pit, Fraser Valley District

DATE SAMPLED: December 19, 2013
 DATE TESTED: January 10, 2014


SAMPLED BY: Client
 TESTED BY: IC


SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, SELECT GRANULAR SUB BASE	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
75	0	0.0	100.0	0.0		100	100
50	3399	10.6	89.4	17.4			
37.5	2947	9.2	80.3	15.1			
25	3581	11.1	69.1	18.3			
19	2124	6.6	62.5	10.9		15	100
12.5	3021	9.4	53.1	15.4			
9.5	1442	4.5	48.6	7.4		0	100
4.75	3044	9.5	39.1	15.6			
2.36	69.7	5.6	33.6		14.2		
1.18	66.8	5.3	28.2		13.6		
0.600	119.1	9.5	18.7		24.3	0	100
0.300	157.0	12.5	6.2		32.0	0	15
0.150	54.8	4.4	1.9		11.2		
0.075	13.3	1.1	0.8		2.7	0	5
PAN	9.9	0.8	0		2.0		
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	19558.0 g	Mass before wash:	490.6 g
Total mass - 4.75mm:	12578 g	Mass after wash:	482.0 g
Total mass of sample:	32136 g	Wash loss fines:	8.6 g
		Fines from pan:	1.3 g

Reported by: 
 I. Chung

Reviewed by: 
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SIEVE ANALYSIS OF FINE AND COARSE AGGREGATE

ASTM C 136 / C 117

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ATTENTION: Mr. Terence Lai, M.Sc.

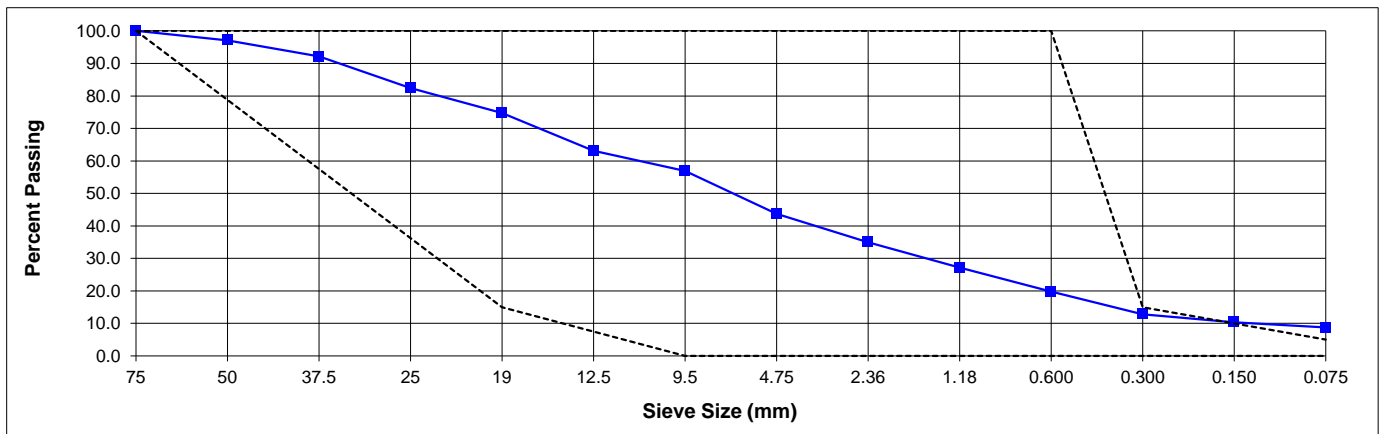
PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-8, SA 1 - Bag 768; As Received
Source:	Othello Pit, Fraser Valley District

DATE SAMPLED: December 19, 2013
DATE TESTED: January 9, 2014

SAMPLED BY: Client
TESTED BY: IC

SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, SELECT GRANULAR SUB BASE	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
75	0	0.0	100.0	0.0		100	100
50	863	2.9	97.1	5.1			
37.5	1484	5.0	92.1	8.8			
25	2898	9.7	82.4	17.3			
19	2281	7.6	74.8	13.6		15	100
12.5	3464	11.6	63.1	20.6			
9.5	1847	6.2	57.0	11.0		0	100
4.75	3940	13.2	43.7	23.5			
2.36	104.1	8.8	34.9		20.1		
1.18	91.4	7.7	27.2		17.7		
0.600	87.4	7.4	19.8		16.9	0	100
0.300	82.5	7.0	12.8		15.9	0	15
0.150	30.1	2.5	10.3		5.8		
0.075	17.9	1.5	8.8		3.5	0	5
PAN	103.9	8.8	0		20.1		
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	16777.0 g	Mass before wash:	517.3 g
Total mass - 4.75mm:	13042 g	Mass after wash:	423.0 g
Total mass of sample:	29819 g	Wash loss fines:	94.3 g
		Fines from pan:	9.6 g

Reported by:
I. Chung

Reviewed by:
L. Hu, M. Sc. E., P.Eng.



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MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
 Suite 310 – 1500 Woolridge St
 Coquitlam, BC V3K 0B8

January 11, 2014
 Project Number: 12-1417-0015/3000

ATTENTION: Mr. Terence Lai, M.Sc.

PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-9, SA 1 - Bag 720; As Received
Source:	Othello Pit, Fraser Valley District

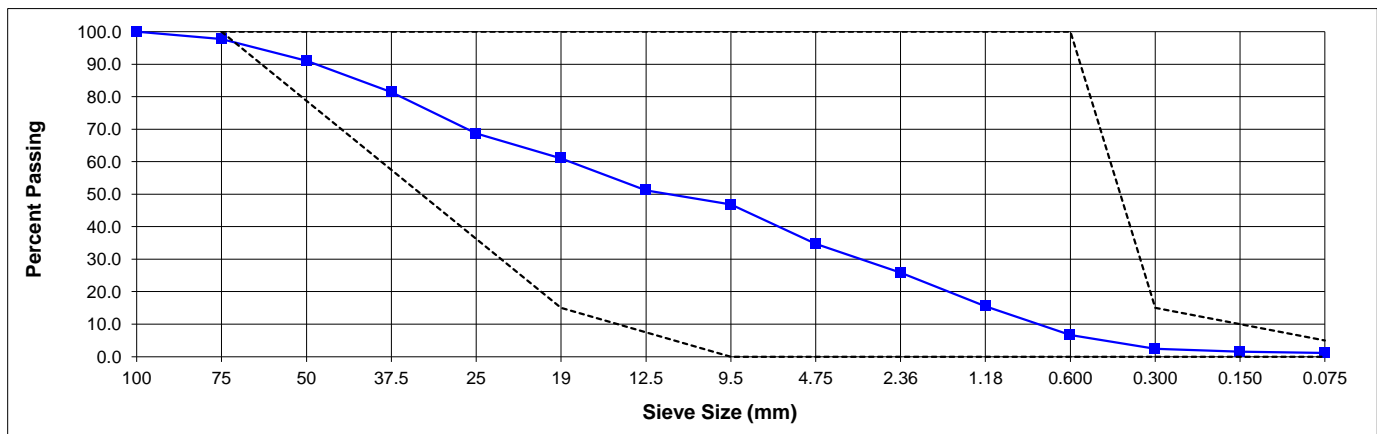
DATE SAMPLED: December 19, 2013

SAMPLED BY: Client

DATE TESTED: December 20, 2013

TESTED BY: IC

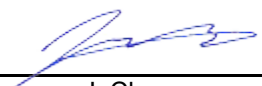
SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, SELECT GRANULAR SUB BASE	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
100	0	0.0	100.0	0.0		100	100
75	691	2.3	97.7	3.5			
50	2063	6.7	91.0	10.3			
37.5	2935	9.6	81.4	14.7			
25	3885	12.7	68.7	19.5		15	100
19	2360	7.7	61.0	11.8			
12.5	2999	9.8	51.2	15.0			
9.5	1336	4.4	46.8	6.7		0	100
4.75	3705	12.1	34.7	18.5			
2.36	105.7	8.9	25.8		25.6	0	100
1.18	122.5	10.3	15.6		29.6		
0.600	106.5	8.9	6.6		25.8		
0.300	49.5	4.2	2.4		12.0		
0.150	10.3	0.9	1.6		2.5		
0.075	5.8	0.5	1.1		1.4		
PAN	13	1.1	0		3.1	0	5
Total		97.7		96.5	100.0		




Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	19974.0 g	Mass before wash:	413.3 g
Total mass - 4.75mm:	10625 g	Mass after wash:	401.6 g
Total mass of sample:	30599 g	Wash loss fines:	11.7 g
		Fines from pan:	1.3 g

Reported by:


 I. Chung

Reviewed by:


 L. Hu, M. Sc. E., P.Eng.



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SIEVE ANALYSIS OF FINE AND COARSE AGGREGATE

ASTM C 136 / C 117

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January 11, 2014
Project Number: 12-1417-0015/3000

ATTENTION: Mr. Terence Lai, M.Sc.

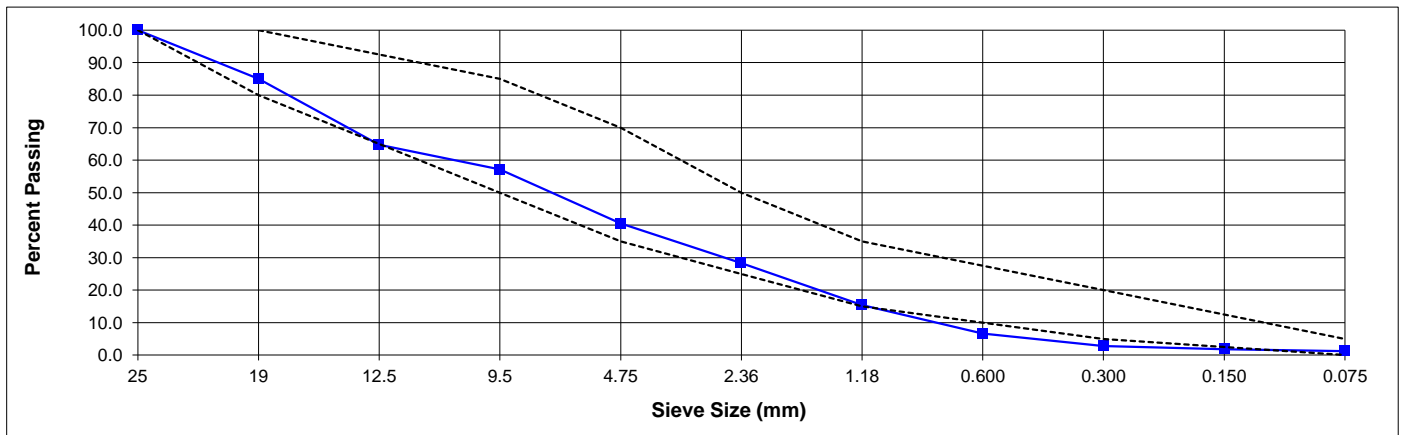
PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-9, SA 1 - Bag 720; Lab Crushed
Source:	Othello Pit, Fraser Valley District

DATE SAMPLED: December 19, 2013
DATE TESTED: December 20, 2013

SAMPLED BY: Client
TESTED BY: IC

SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, WELL GRADED BASE COURSE AGGREGATE, 25 MM	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
25	0	0.0	100.0	0.0		100	
19	4508	15.0	85.0	25.2		80	100
12.5	6100	20.3	64.7	34.1			
9.5	2272	7.6	57.1	12.7		50	85
4.75	5004	16.7	40.5	28.0		35	70
2.36	122.4	12.2	28.3		30.1	25	50
1.18	130.1	12.9	15.4		32.0	15	35
0.600	87.6	8.7	6.6		21.5		
0.300	38.6	3.8	2.8		9.5	5	20
0.150	9.5	0.9	1.9		2.3		
0.075	6.1	0.6	1.3		1.5	0	5
PAN	12.6	1.3	0		3.1		
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	17884.0 g	Mass before wash:	406.9 g
Total mass - 4.75mm:	12165 g	Mass after wash:	396.0 g
Total mass of sample:	30049 g	Wash loss fines:	10.9 g
		Fines from pan:	1.7 g

Reported by:

I. Chung

Reviewed by:

L. Hu, M. Sc. E., P. Eng.



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January 11, 2014
 Project Number: 12-1417-0015/3000

ATTENTION: Mr. Terence Lai, M.Sc.

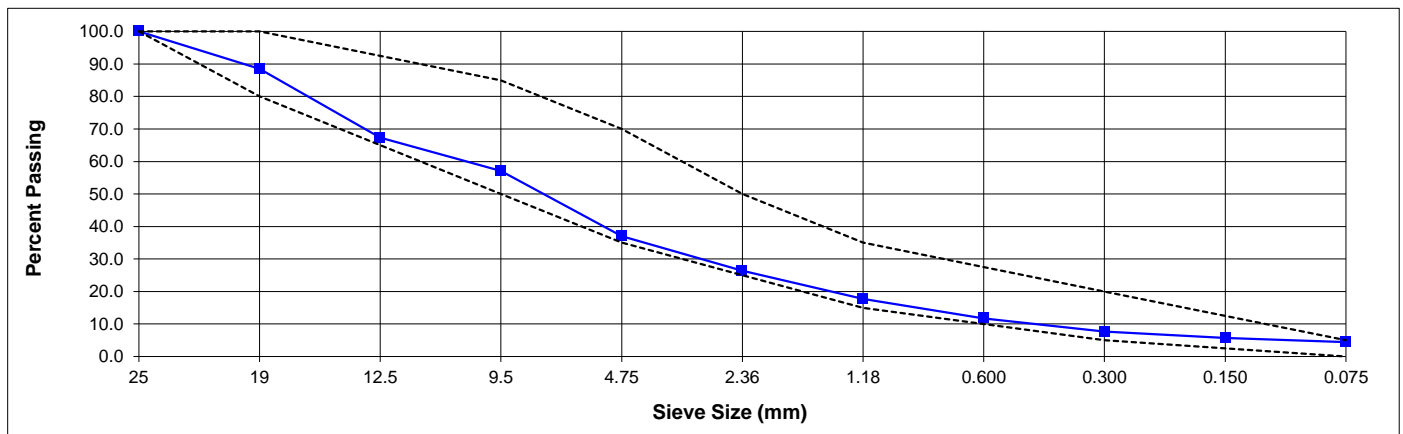
PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-10, SA 1 - Bag 721; Lab Crushed
Source:	Othello Pit, Fraser Valley District

DATE SAMPLED: December 19, 2013
 DATE TESTED: December 20, 2013

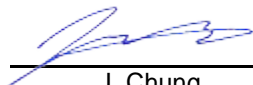
SAMPLED BY: Client
 TESTED BY: IC


SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, WELL GRADED BASE COURSE AGGREGATE, 25 MM	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
25	0	0.0	100.0	0.0		100	100
19	3435	11.5	88.5	18.2		80	100
12.5	6338	21.2	67.4	33.6			
9.5	3073	10.3	57.1	16.3		50	85
4.75	6013	20.1	37.1	31.9		35	70
2.36	154.4	10.7	26.3		28.9	25	50
1.18	123.8	8.6	17.7		23.2	15	35
0.600	86.6	6.0	11.7		16.2		
0.300	58.7	4.1	7.7		11.0	5	20
0.150	28	1.9	5.7		5.2		
0.075	19.2	1.3	4.4		3.6	0	5
PAN	63.1	4.4	0		11.8		
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	18859.0 g	Mass before wash:	533.8 g
Total mass - 4.75mm:	11103 g	Mass after wash:	476.2 g
Total mass of sample:	29962 g	Wash loss fines:	57.6 g
		Fines from pan:	5.5 g

Reported by: 
 I. Chung

Reviewed by: 
 L. Hu, M. Sc. E., P.Eng.



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MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
 Suite 310 – 1500 Woolridge St
 Coquitlam, BC V3K 0B8

January 11, 2014
 Project Number: 12-1417-0015/3000

ATTENTION: Mr. Terence Lai, M.Sc.

PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-10, SA 1 - Bag 721; As Received
Source:	Othello Pit, Fraser Valley District

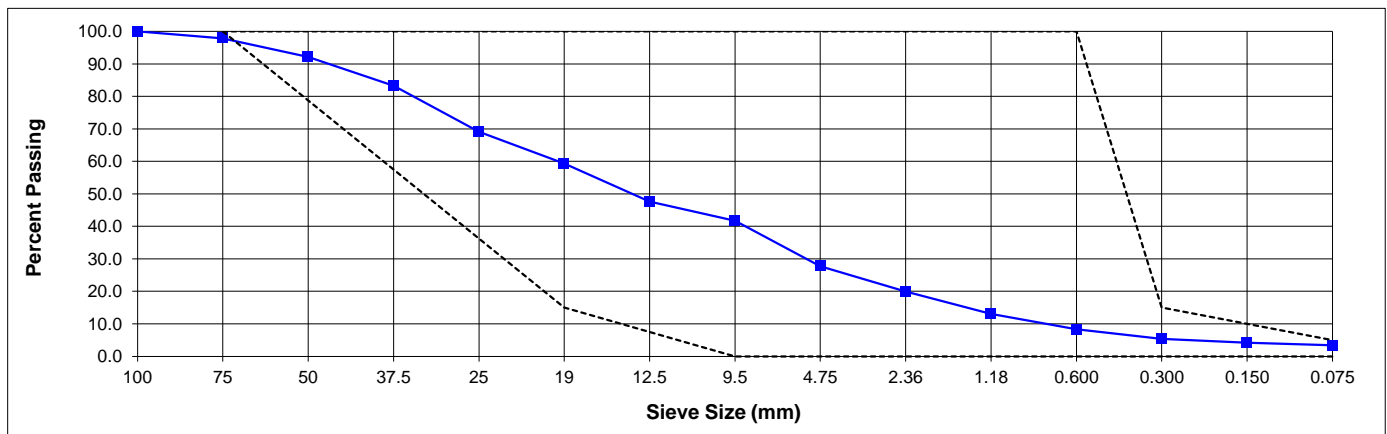
DATE SAMPLED: December 19, 2013

SAMPLED BY: Client

DATE TESTED: December 20, 2013

TESTED BY: IC

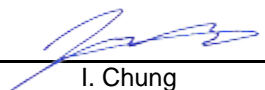
SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, SELECT GRANULAR SUB-BASE	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
100	0	0.0	100.0	0.0		100	100
75	652	2.1	97.9	2.9			
50	1748	5.7	92.2	7.9			
37.5	2719	8.9	83.3	12.3			
25	4338	14.2	69.1	19.6		15	100
19	2994	9.8	59.3	13.5			
12.5	3585	11.7	47.6	16.2			
9.5	1811	5.9	41.7	8.2			
4.75	4270	13.9	27.8	19.3		0	100
2.36	163.1	7.8	20.0		28.0		
1.18	145.5	6.9	13.0		25.0		
0.600	99	4.7	8.3		17.0		
0.300	62.1	3.0	5.3		10.7	0	15
0.150	24.3	1.2	4.2		4.2	0	5
0.075	16.2	0.8	3.4		2.8		
PAN	71.4	3.4	0		12.3		
Total		97.9		97.1	100.0		



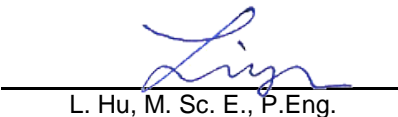
Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	22117.0 g	Mass before wash:	581.6 g
Total mass - 4.75mm:	8495 g	Mass after wash:	517.3 g
Total mass of sample:	30612 g	Wash loss fines:	64.3 g
		Fines from pan:	7.1 g

Reported by:


I. Chung

Reviewed by:


L. Hu, M. Sc. E., P.Eng.



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MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE
 Suite 310 – 1500 Woolridge St
 Coquitlam, BC V3K 0B8

January 11, 2014
 Project Number: 12-1417-0015/3000

ATTENTION: Mr. Terence Lai, M.Sc.

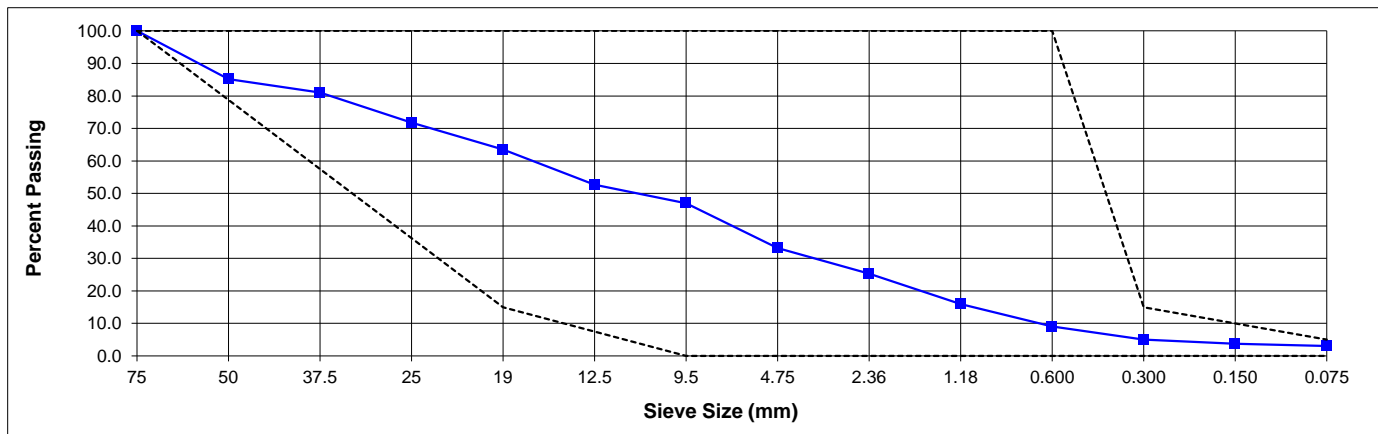
PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-11, SA 1 - Bag 722; As Received
Source:	Othello Pit, Fraser Valley District

DATE SAMPLED: December 19, 2013
 DATE TESTED: January 8, 2014

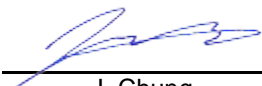
SAMPLED BY: Client
 TESTED BY: IC


SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, SELECT GRANULAR SUB BASE	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
75	0	0.0	100.0	0.0		100	100
50	4592	14.9	85.1	22.2			
37.5	1256	4.1	81.1	6.1			
25	2854	9.2	71.8	13.8			
19	2569	8.3	63.5	12.4		15	100
12.5	3338	10.8	52.7	16.2			
9.5	1766	5.7	47.0	8.6		0	100
4.75	4270	13.8	33.1	20.7			
2.36	74.2	7.9	25.3		23.8	0	100
1.18	87.8	9.3	15.9		28.1		
0.600	65.1	6.9	9.0		20.9		
0.300	38.0	4.0	5.0		12.2		
0.150	11.4	1.2	3.8		3.7		
0.075	7	0.7	3.0		2.2		
PAN	28.6	3.0	0		9.2	0	5
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	20645.0 g	Mass before wash:	312.1 g
Total mass - 4.75mm:	10234 g	Mass after wash:	288.5 g
Total mass of sample:	30879 g	Wash loss fines:	23.6 g
		Fines from pan:	5 g

Reported by: 
 I. Chung

Reviewed by: 
 L. Hu, M. Sc. E., P.Eng.



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Suite 310 – 1500 Woolridge St
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January 11, 2014
Project Number: 12-1417-0015/3000

ATTENTION: Mr. Terence Lai, M.Sc.

PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-12, SA 1 - Bag 729; Lab Crushed
Source:	Othello Pit, Fraser Valley District

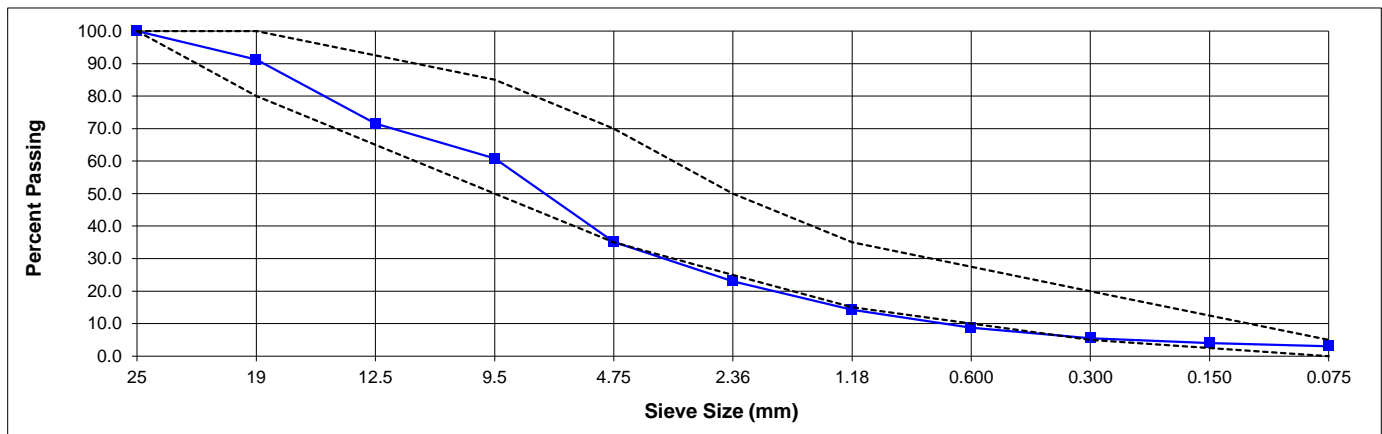
DATE SAMPLED: December 19, 2013

SAMPLED BY: Client

DATE TESTED: January 2, 2014

TESTED BY: IC

SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, WELL GRADED BASE COURSE AGGREGATE, 25 MM	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
25	0	0.0	100.0	0.0		100	100
19	2508	8.8	91.2	13.5		80	100
12.5	5610	19.6	71.6	30.3			
9.5	3081	10.8	60.8	16.6		50	85
4.75	7344	25.7	35.1	39.6		35	70
2.36	119.4	12.1	23.0		34.4	25	50
1.18	86.5	8.8	14.3		24.9	15	35
0.600	54.5	5.5	8.7		15.7		
0.300	32.3	3.3	5.5		9.3	5	20
0.150	14	1.4	4.1		4.0		
0.075	9.8	1.0	3.1		2.8	0	5
PAN	30.2	3.1	0		8.7		
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	18543.0 g	Mass before wash:	346.7 g
Total mass - 4.75mm:	10041 g	Mass after wash:	319.3 g
Total mass of sample:	28584 g	Wash loss fines:	27.4 g
		Fines from pan:	2.8 g

Reported by: _____

I. Chung

Reviewed by: _____

L. Hu, M. Sc. E., P. Eng.



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January 11, 2014
 Project Number: 12-1417-0015/3000

ATTENTION: Mr. Terence Lai, M.Sc.

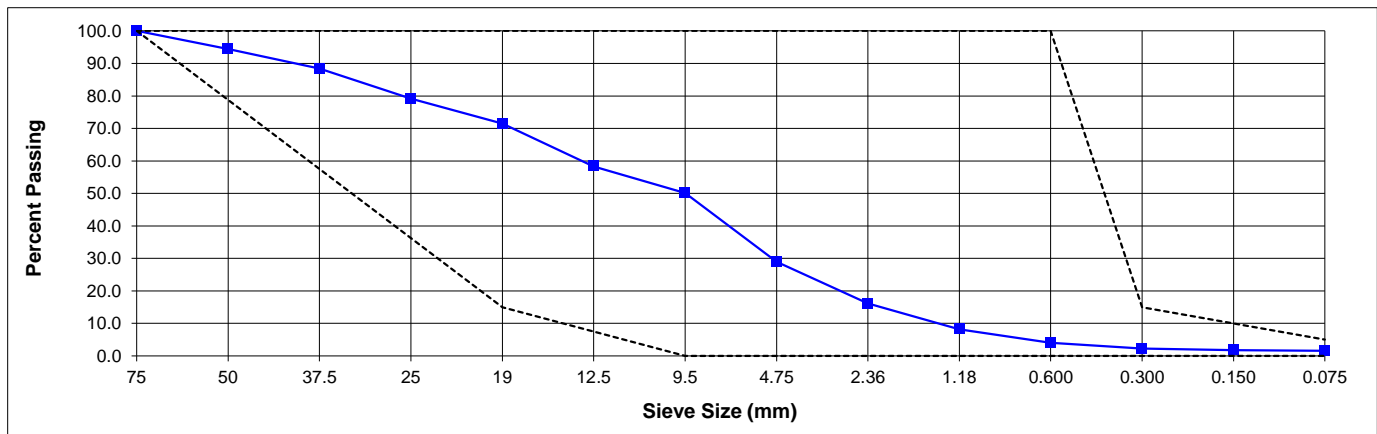
PROJECT: Othello Pit, Fraser Valley District

Sample:	TP 13-12, SA 1 - Bag 729; As Received
Source:	Othello Pit, Fraser Valley District

DATE SAMPLED: December 19, 2013
 DATE TESTED: January 2, 2014

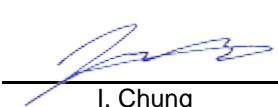
SAMPLED BY: Client
 TESTED BY: IC

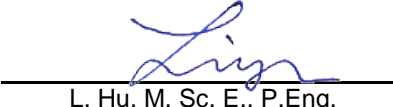
SIEVE ANALYSIS						MATERIAL SPECIFICATION : BCH, SELECT GRANULAR SUB BASE	
Sieve Size (mm)	Mass Ret. (g)	% Retained	% Passing	Individual % Retained (Split values)			
				+ 4.75	- 4.75		
75	0	0.0	100.0	0.0		100	100
50	1594	5.6	94.4	7.8			
37.5	1734	6.0	88.4	8.5			
25	2632	9.2	79.2	12.9			
19	2219	7.7	71.5	10.9		15	100
12.5	3767	13.1	58.3	18.5			
9.5	2355	8.2	50.1	11.6		0	100
4.75	6064	21.2	29.0	29.8			
2.36	268.9	12.8	16.1		44.3		
1.18	166	7.9	8.2		27.4		
0.600	87.7	4.2	4.0		14.5	0	100
0.300	37.2	1.8	2.2		6.1	0	15
0.150	9.3	0.4	1.8		1.5		
0.075	5.4	0.3	1.5		0.9	0	5
PAN	32.1	1.5	0		5.3		
Total		100.0		100.0	100.0		



Note: Tested sample represents entirety of sample provided by client.

Total mass + 4.75mm:	20365.0 g	Mass before wash:	606.6 g
Total mass - 4.75mm:	8300 g	Mass after wash:	577.3 g
Total mass of sample:	28665 g	Wash loss fines:	29.3 g
		Fines from pan:	2.8 g

Reported by: 
 I. Chung

Reviewed by: 
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