

APPENDIX E1

TRANSITION MATERIAL PARTICLE SIZE ANALYSIS RESULTS

PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA03

SAMPLE DESCRIPTION: Type B - 150 mm Minus
Transition Rock

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01

MOISTURE CONT. : 1.3%

DATE SAMPLED: Nov 11/16 **By:** IM

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

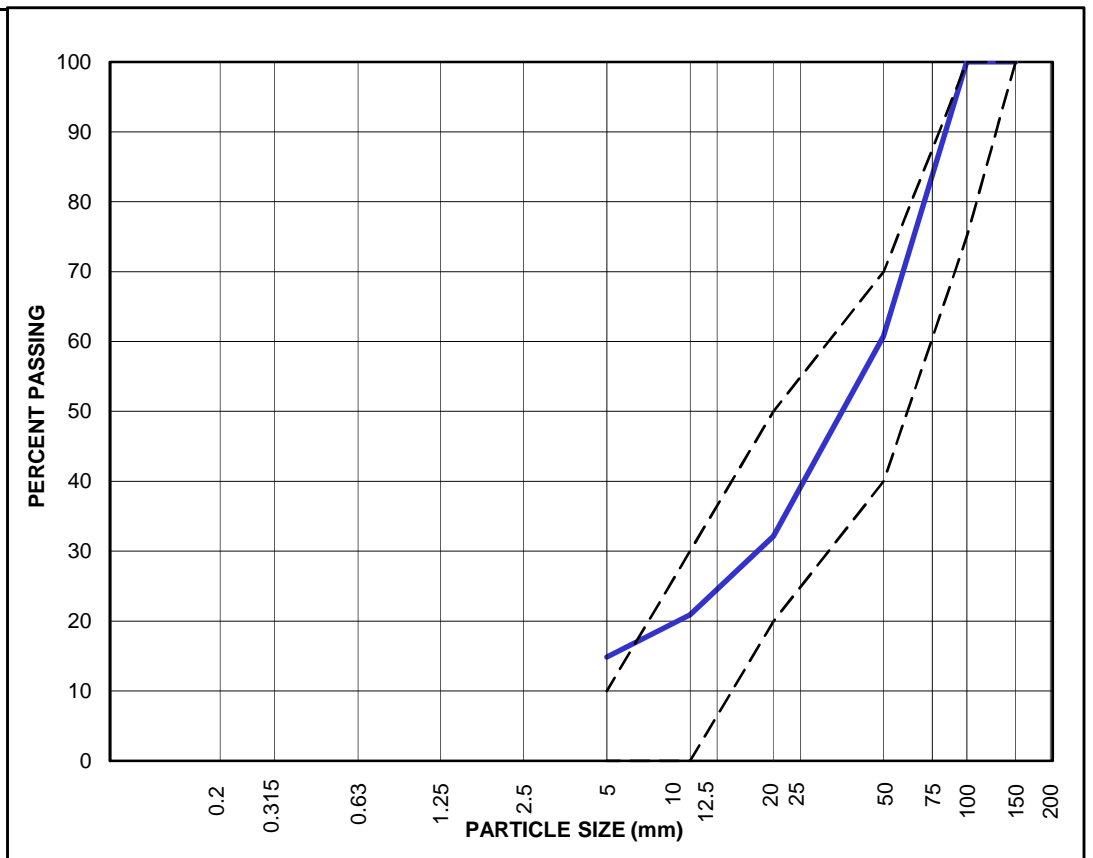
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
150	100
100	100
50	61
20	32
10	21
5	15



Remarks: _____

Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA04

SAMPLE DESCRIPTION: Type B - 150 mm Minus

Transition Rock

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01.023

MOISTURE CONT. : 2.8%

DATE SAMPLED: Nov 13/16 **By:** IM

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

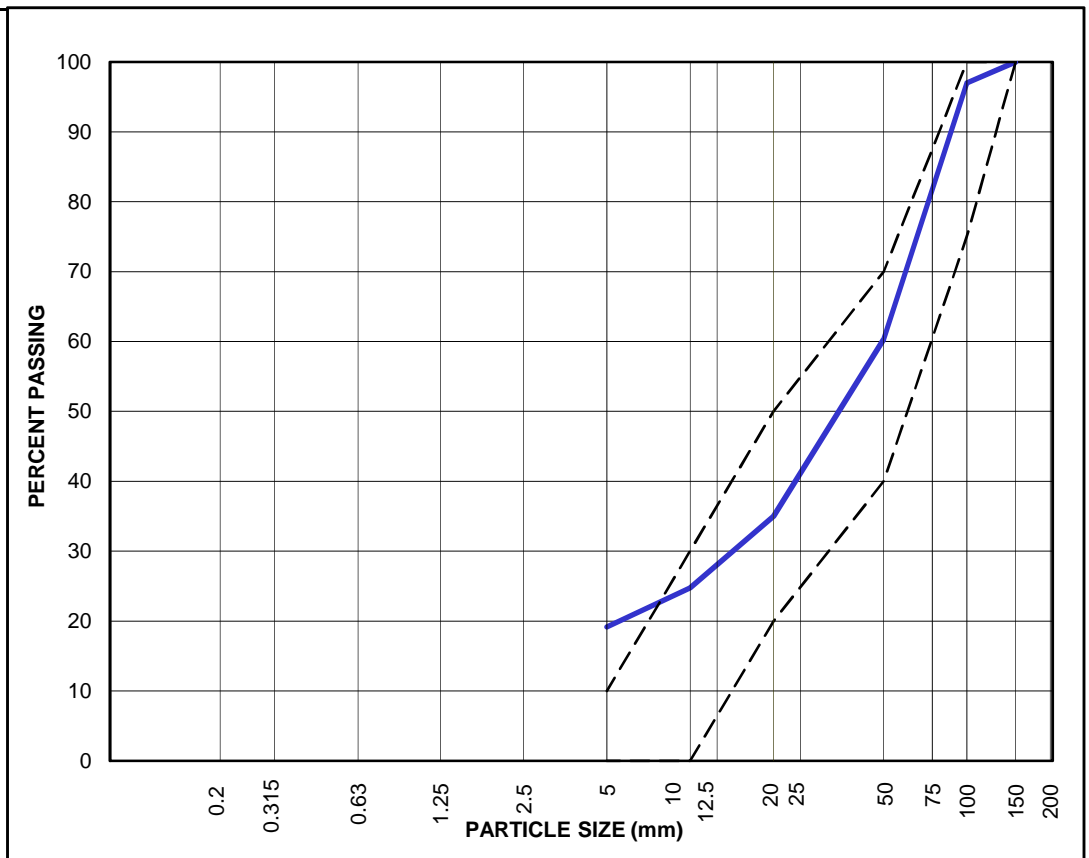
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
150	100
100	97
50	60
20	35
10	25
5	19



Remarks: _____

Reviewed by: _____ **P.Eng.**

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Table E1.1: Moisture Content Results for Transition (150 mm minus) Material - Types B and B1

Sample No.	Date Tested	Moisture Content (%)	Sample Source
SA01	9-Nov-16	5.2	Sampled from Type B1 stockpile
SA02	9-Nov-16	4.3	Sampled from Type B1 stockpile
SA03	11-Nov-16	1.3	Sampled from Type B1 stockpile
SA04	13-Nov-16	2.8	Sampled from Type B1 stockpile
SA05	19-Dec-16	8.6	Sampled from Type B1 stockpile
SA06	1-Mar-17	8.1	Sampled from Type B stockpile
SA07	1-Mar-17	8.7	Sampled from Type B stockpile
SA08	2-Mar-17	7.2	Sampled from Type B stockpile
SA09	29-Mar-17	6.1	Sampled from Type B1 stockpile
SA10	30-Mar-17	6.1	Sampled from Type B1 stockpile
SA11	2-Apr-17	6.5	Sampled from Type B1 stockpile

Average Moisture Content	5.9%
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APPENDIX E2

TYPE C MATERIAL QA/QC TEST RESULTS

PARTICLE SIZE ANALYSIS REPORT

PROJECT: DCP-1/DCP-5
 ADDRESS: Meliadine
 PROJECT NO: E14103230-01, Task 23
 UP TO DATE: May 15/17 By: Tetra Tech
 CLIENT: Agnico Eagle

 ATTENTION: Duy Nguyen

SAMPLE NO: SA01 to SA53

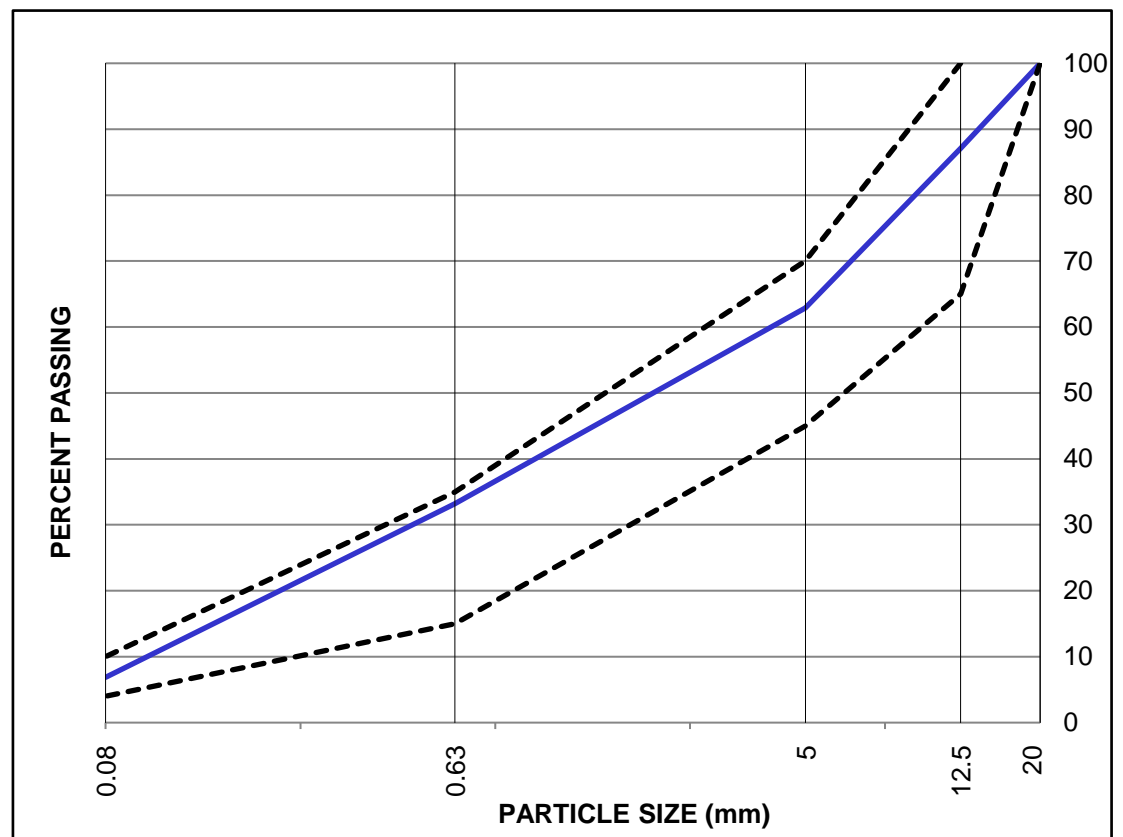
SAMPLE DESCRIPTION:

Type C (20 mm minus)

Overall Material Average, (%)NAT. MOISTURE CONT (%): 8.2%

Test Req'ments = 1 sample/500 m3 production

PARTICLE SIZE, mm	PERCENT PASSING
20	100.0
12.5	87.1
5	62.9
0.63	33.2
0.08	6.9

Remarks: All samples taken from Meliadine Esker.Type C gradation specs as per Geotechnical Specifications Rev 1 Table 3 (Tetra Tech, November 9, 2016)

Reviewed by: _____

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EBA.

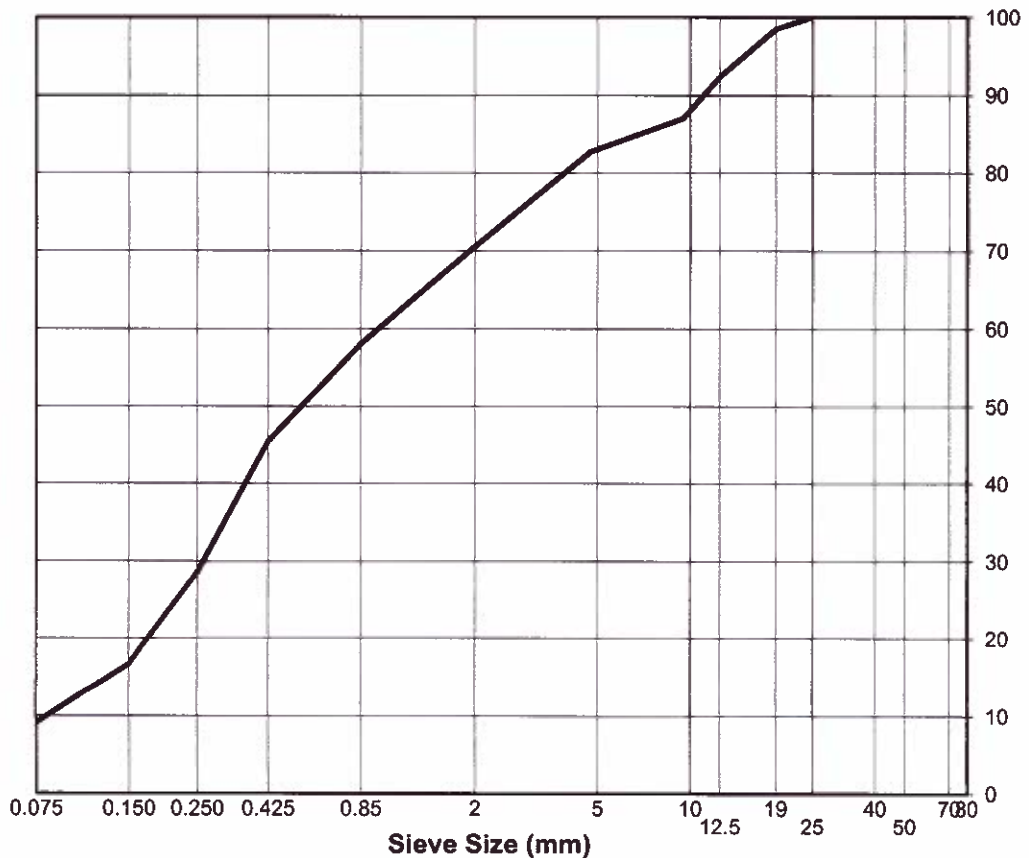
SIEVE ANALYSIS REPORT

Washed Sieve: ASTM C136 and C117

Project No.: Meliadine Gold Project
Project: E14103230-01.023
Client: Agnico Eagle Mines Ltd
Attention: _____
Email: _____
Description: SAND, some gravel, trace silt, brown
Source: Meliadine Project, Dike Construction
Supplier: _____
Sample Location: Type C Stockpile
Specification: _____

Sample No.: Type C Sample No 1
Date Received: October 26, 2016
Sampled by: Dike QC Team
Date Tested: October 26, 2016
Tested by: JH Office: Edmonton
Moisture Content (as received): 3.0%
No. Crushed Faces: Two (2) or Three (3)
By Particle Mass: _____

Sieve Size	Percent Passing
25	100
19	98
12.5	92
10	87
5	83
2.0	71
0.85	58
0.425	45
0.250	29
0.150	17
0.075	9.1



Remarks: _____

Reviewed By:  P.Eng.

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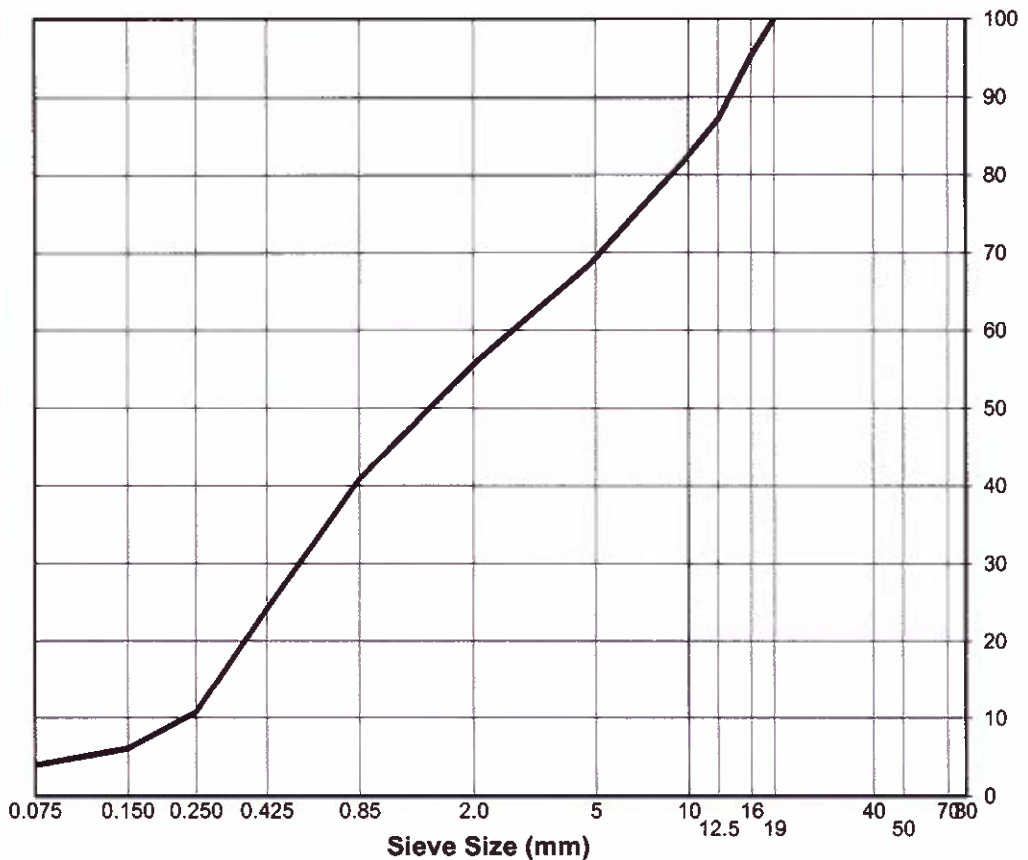
SIEVE ANALYSIS REPORT

Washed Sieve: ASTM C136 and C117

Project No.: Meliadine Gold Project
Project: E14103230-01.023
Client: Agnico Eagle Mines Ltd
Attention: _____
Email: _____
Description: SAND, gravelly, trace silt, grey
Source: Meliadine Project, Dike Construction
Supplier: _____
Sample Location: Type C Stockpile
Specification: _____

Sample No.: Type C Sample No 2
Date Received: November 21, 2016
Sampled by: Dike QC Team
Date Tested: November 23, 2016
Tested by: MC Office: Edmonton
Moisture Content (as received): 2.1%
No. Crushed Faces: Two (2) or Three (3)
By Particle Mass: _____

Sieve Size	Percent Passing
19	100
16	95
12.5	87
10	81
5	68
2.0	56
0.85	41
0.425	24
0.250	11
0.150	6
0.075	3.9



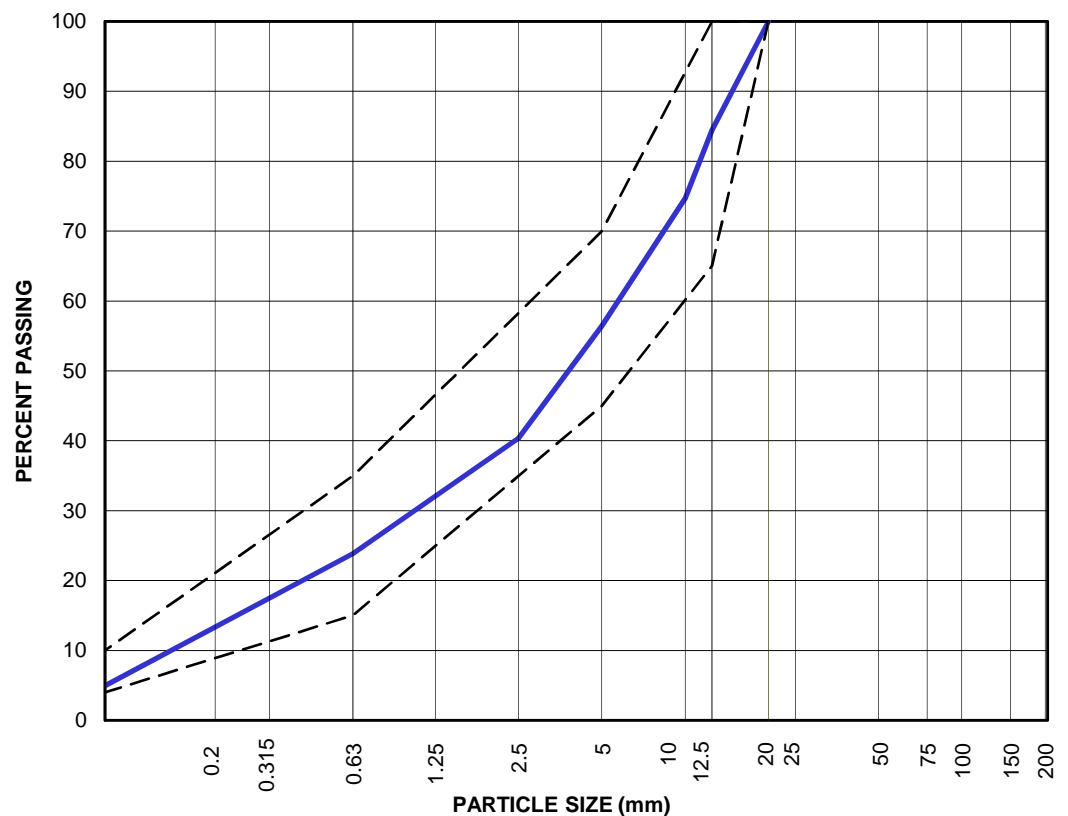
Remarks: _____

Reviewed By: AS P.Eng.

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA02**SAMPLE DESCRIPTION:** 20 mm minus
samled from belt**ADDRESS:** Meliadine Mine**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 7.1%**DATE SAMPLED:** Oct 22/16 **By:** TW**CLIENT:** Agnico Eagle**BULK REL DENSITY:** n/a**ATTENTION:** _____**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	84
10	75
5	56
2.5	40
0.63	24
0.08	5

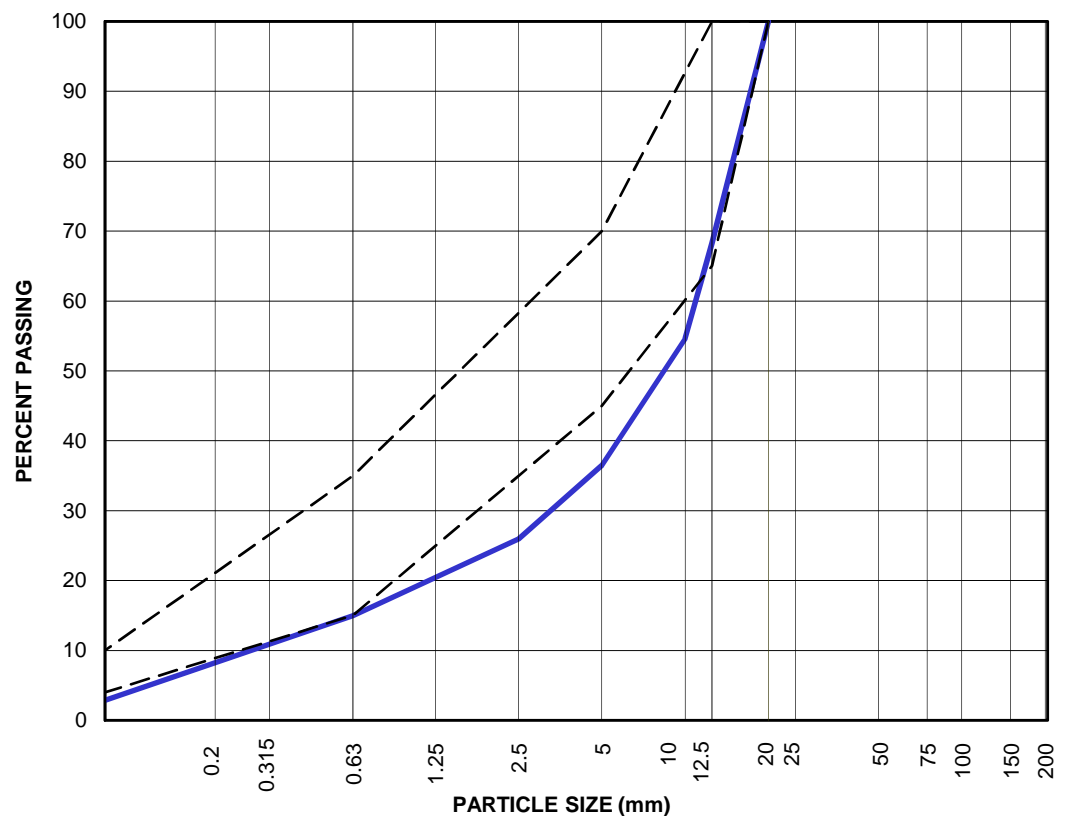
**Remarks:** 20 mm minus particle size distribution limits shown**Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA03**SAMPLE DESCRIPTION:** 20 mm minus
sampled from belt**ADDRESS:** Meliadine Mine**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 5.4%**DATE SAMPLED:** Oct 22/16 **By:** TW**CLIENT:** Agnico Eagle**BULK REL DENSITY:** n/a**ATTENTION:** _____**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	68
10	55
5	36
2.5	26
0.63	15
0.08	3

**Remarks:** 20 mm minus particle size distribution limits shown**Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA04
SAMPLE DESCRIPTION: 20 mm minus
sampled from belt

ADDRESS: Meliadine Mine

PROJECT NO: E14103230-01

MOISTURE CONT. : 8.7%

DATE SAMPLED: Oct 22/16 **By:** TW

CLIENT: Agnico Eagle

BULK REL DENSITY: n/a

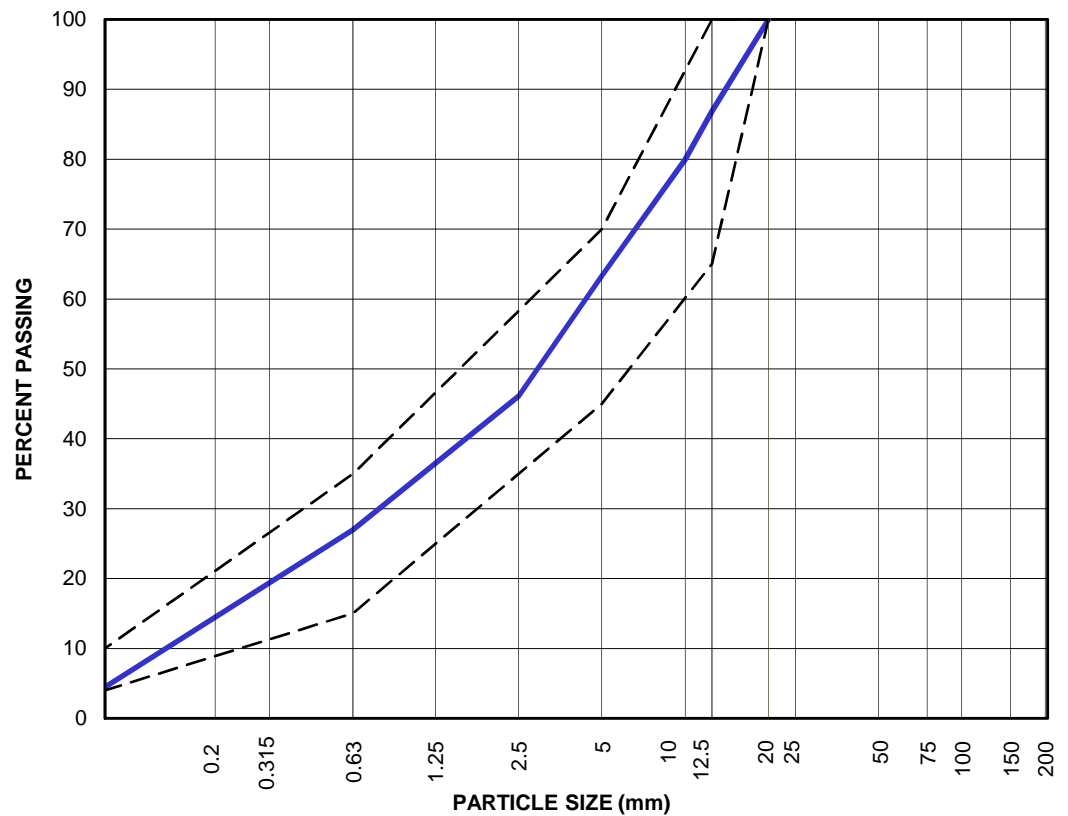
ATTENTION: _____

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	87
10	80
5	63
2.5	46
0.63	27
0.08	4



Remarks: 20 mm minus particle size distribution limits shown

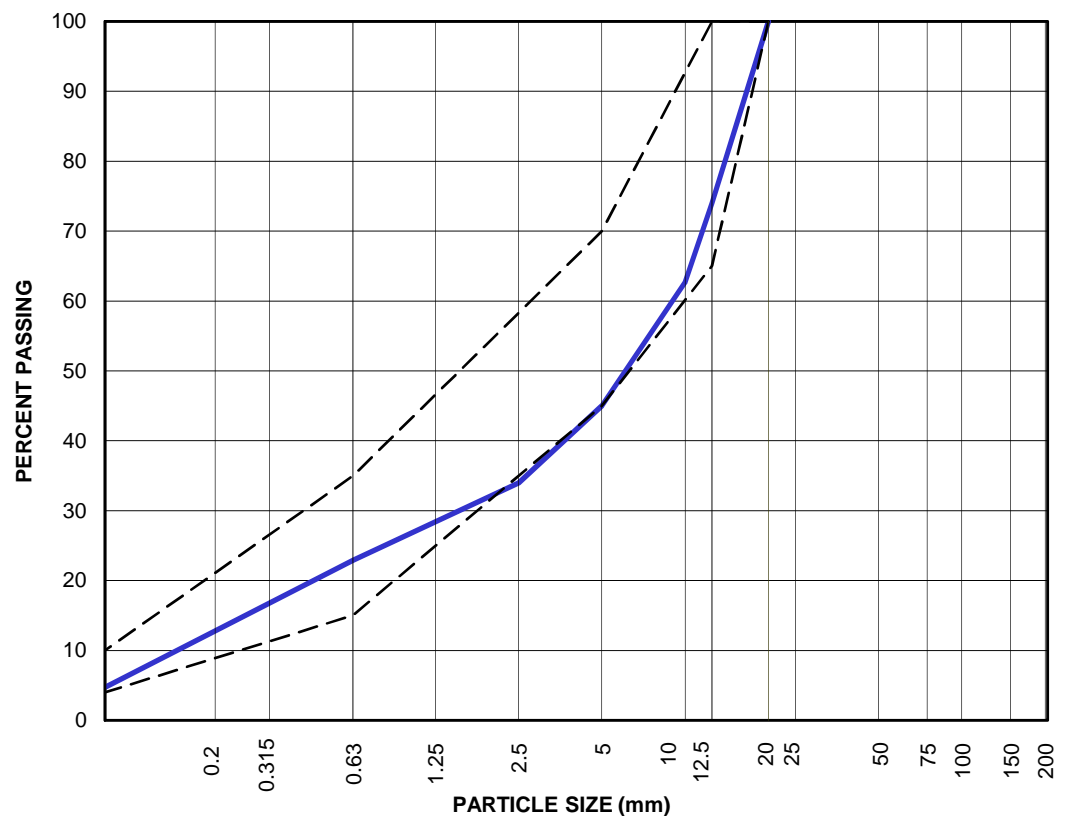
Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA05**SAMPLE DESCRIPTION:** 20 mm minus
sampled from belt**ADDRESS:** Meliadine Mine**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 6.0%**DATE SAMPLED:** Oct 22/16 **By:** TW**CLIENT:** Agnico Eagle**BULK REL DENSITY:** n/a**ATTENTION:** _____**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	74
10	63
5	45
2.5	34
0.63	23
0.08	5

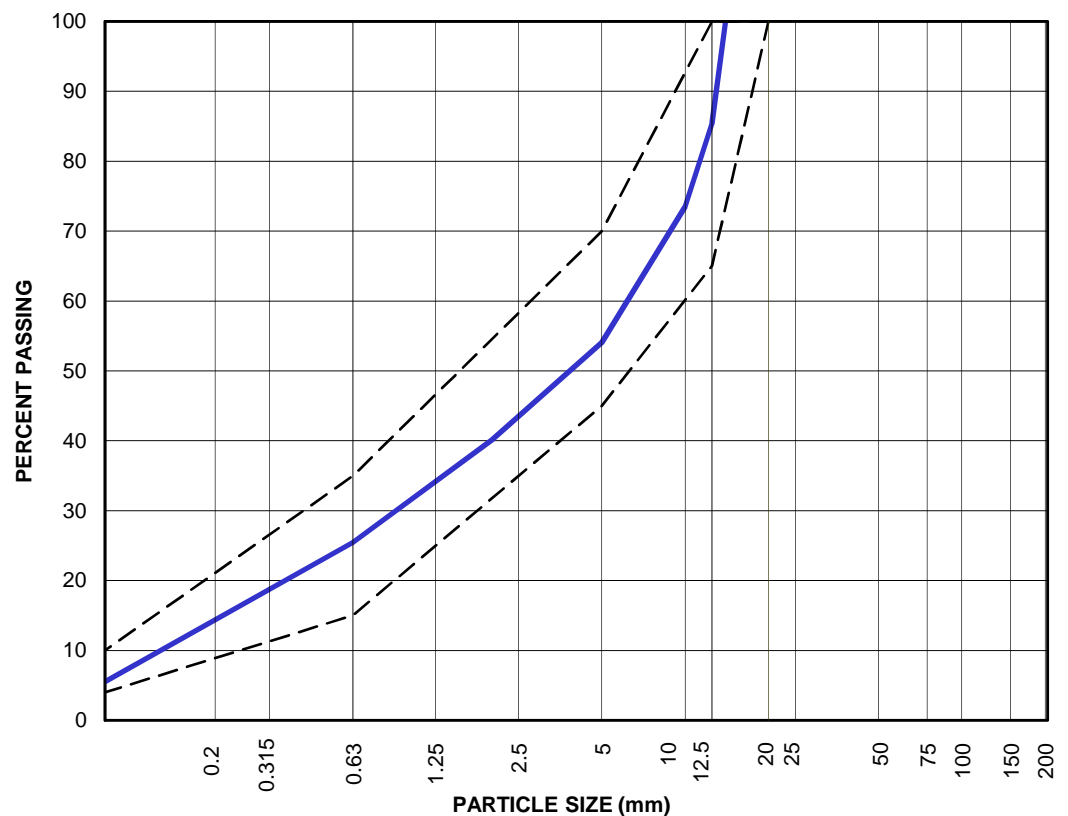
**Remarks:** 20 mm minus particle size distribution limits shown**Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA06**SAMPLE DESCRIPTION:** 20 mm minus
sampled from belt**ADDRESS:** Meliadine Mine**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 5.5%**DATE SAMPLED:** Oct 24/16 **By:** TW**CLIENT:** Agnico Eagle**BULK REL DENSITY:** n/a**ATTENTION:** _____**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
12.5	85
10	74
5	54
2	40
0.63	25
0.08	6

**Remarks:** 20 mm minus particle size distribution limits shown**Reviewed by:** _____ **P.Eng.**

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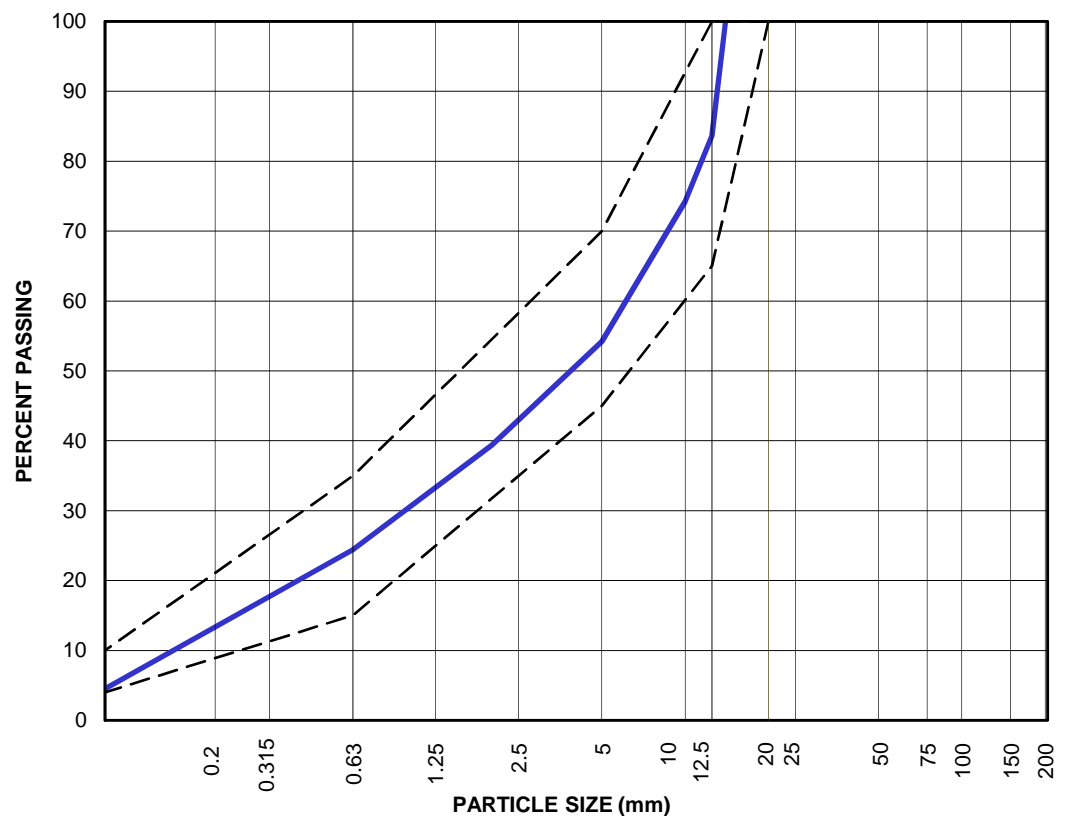
PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike ConstructionSAMPLE NO: SA07SAMPLE DESCRIPTION: 20 mm minus
sampled from beltADDRESS: Meliadine MinePROJECT NO: E14103230-01MOISTURE CONT. : 6.3%DATE SAMPLED: Oct 24/16 By: TWCLIENT: Agnico EagleBULK REL DENSITY: n/a

ATTENTION: _____

BULK REL. DENSITY (SSD): n/aAPPARENT REL. DENSITY: n/aABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
12.5	84
10	74
5	54
2	39
0.63	24
0.08	5

Remarks: 20 mm minus particle size distribution limits shown

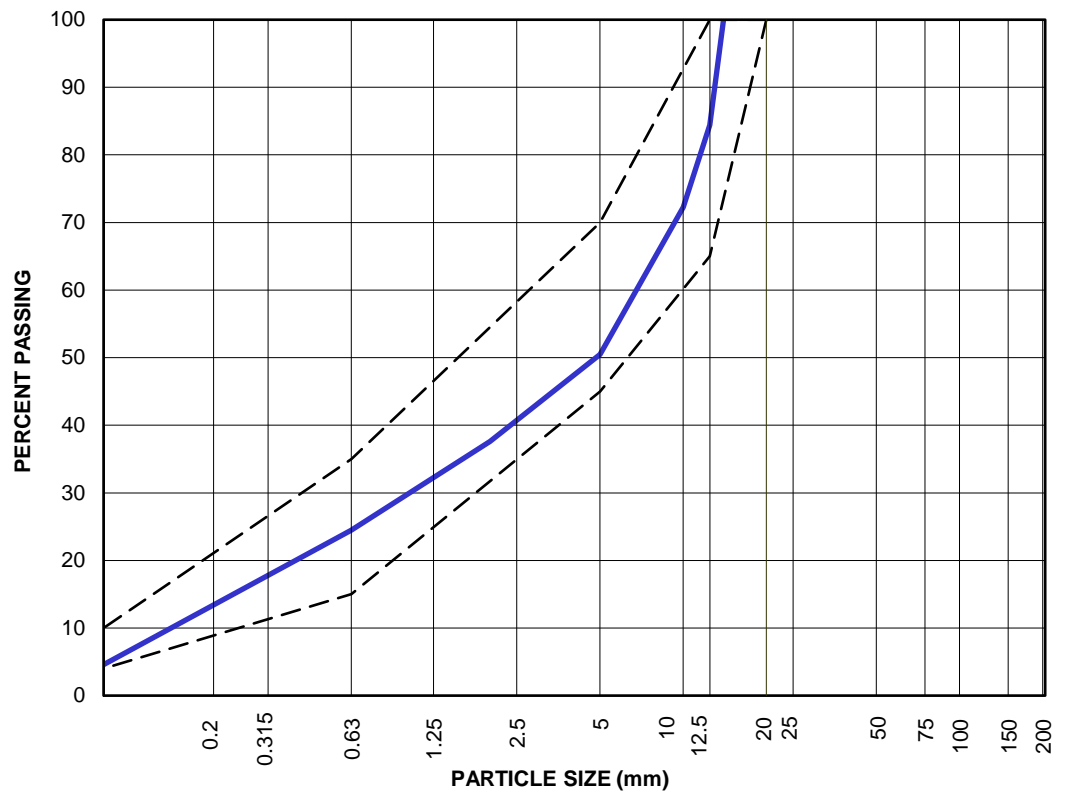
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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA08**SAMPLE DESCRIPTION:** 20 mm minus
sampled from belt**ADDRESS:** Meliadine Mine**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 5.0%**DATE SAMPLED:** Oct 25/16 **By:** TW**CLIENT:** Agnico Eagle**BULK REL DENSITY:** n/a**ATTENTION:** _____**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
12.5	84
10	72
5	50
2	38
0.63	24
0.08	5

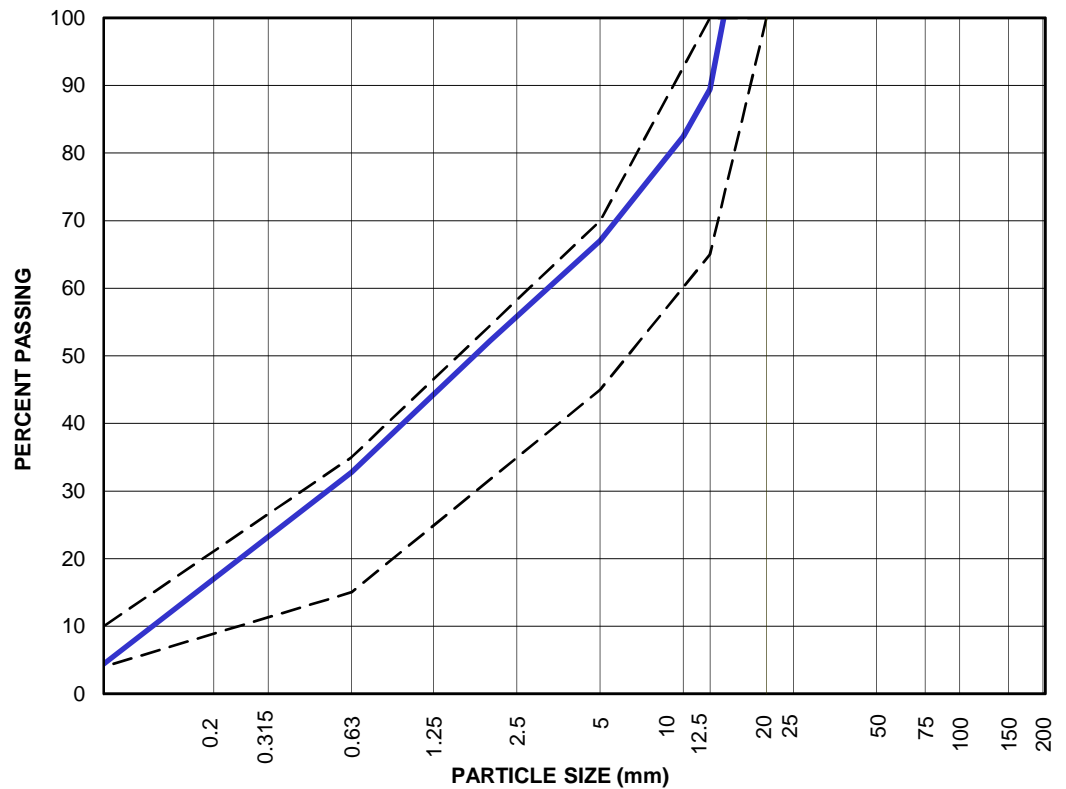
**Remarks:** 20 mm minus particle size distribution limits shown**Reviewed by:** _____ **P.Geo.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA09**SAMPLE DESCRIPTION:** 20 mm minus
sampled from belt**ADDRESS:** Meliadine Mine**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 8.4%**DATE SAMPLED:** Oct 26/16 **By:** TW**CLIENT:** Agnico Eagle**BULK REL DENSITY:** n/a**ATTENTION:** _____**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
12.5	89
10	83
5	67
2	52
0.63	33
0.08	4

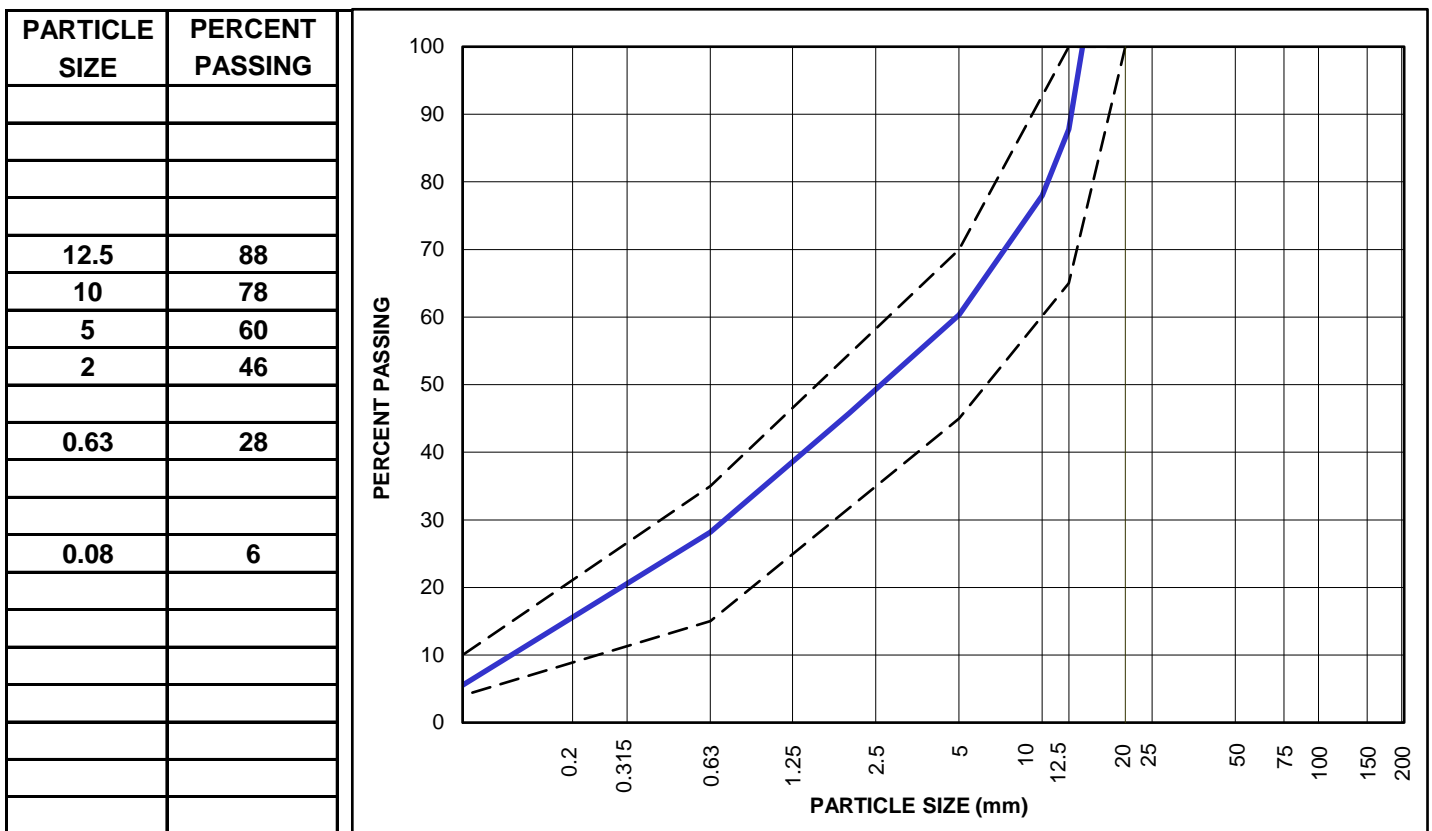
**Remarks:** 20 mm minus particle size distribution limits shown**Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT:	<u>Meliadine Dike Construction</u>	SAMPLE NO:	<u>SA10</u>
		SAMPLE DESCRIPTION:	<u>20 mm minus</u>
			<u>sampled from belt</u>
ADDRESS:	<u>Meliadine Mine</u>		
PROJECT NO:	<u>E14103230-01</u>	MOISTURE CONT. :	<u>7.1%</u>
DATE SAMPLED:	<u>Oct 27/16</u>	By:	<u>TW</u>
CLIENT:	<u>Agnico Eagle</u>	BULK REL DENSITY:	<u>n/a</u>
ATTENTION:		BULK REL. DENSITY (SSD):	<u>n/a</u>
		APPARENT REL. DENSITY:	<u>n/a</u>
		ABSORPTION:	<u>n/a</u>



Remarks: 20 mm minus particle size distribution limits shown

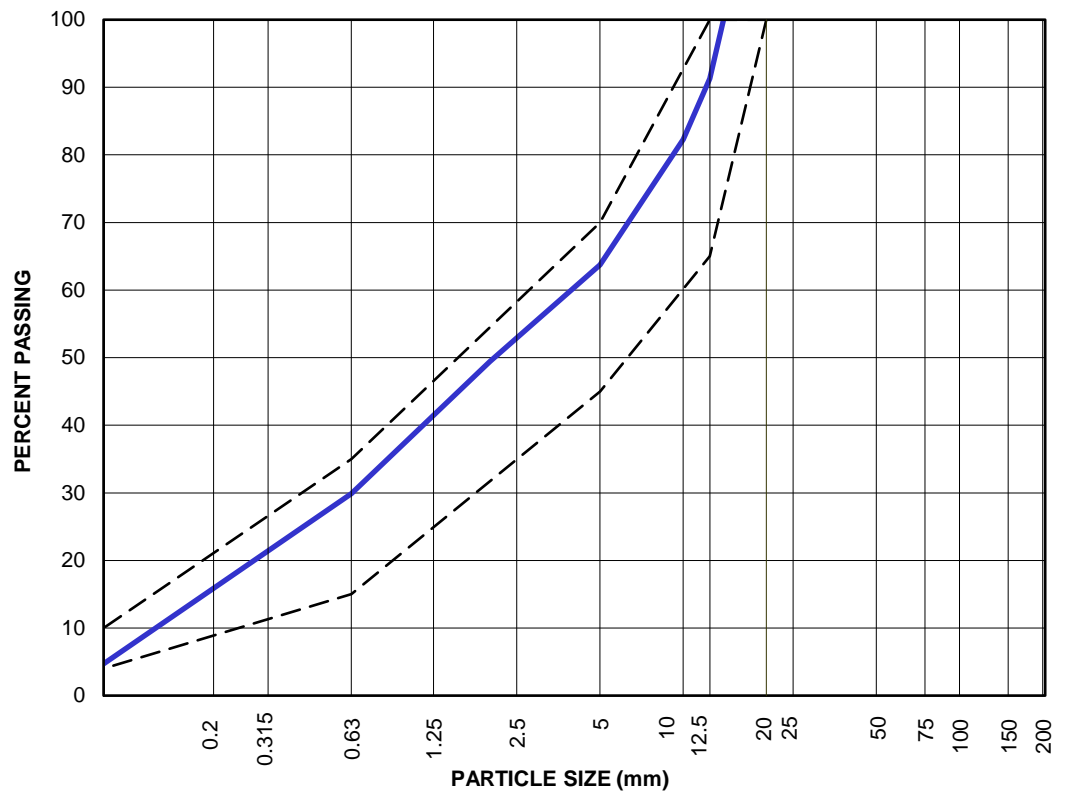
Reviewed by: _____ P.Eng.

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA11**SAMPLE DESCRIPTION:** 20 mm minus
sampled from belt**ADDRESS:** Meliadine Mine**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 6.1%**DATE SAMPLED:** Oct 29/16 **By:** TW**CLIENT:** Agnico Eagle**BULK REL DENSITY:** n/a**ATTENTION:** _____**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
12.5	91
10	82
5	64
2	49
0.63	30
0.08	5

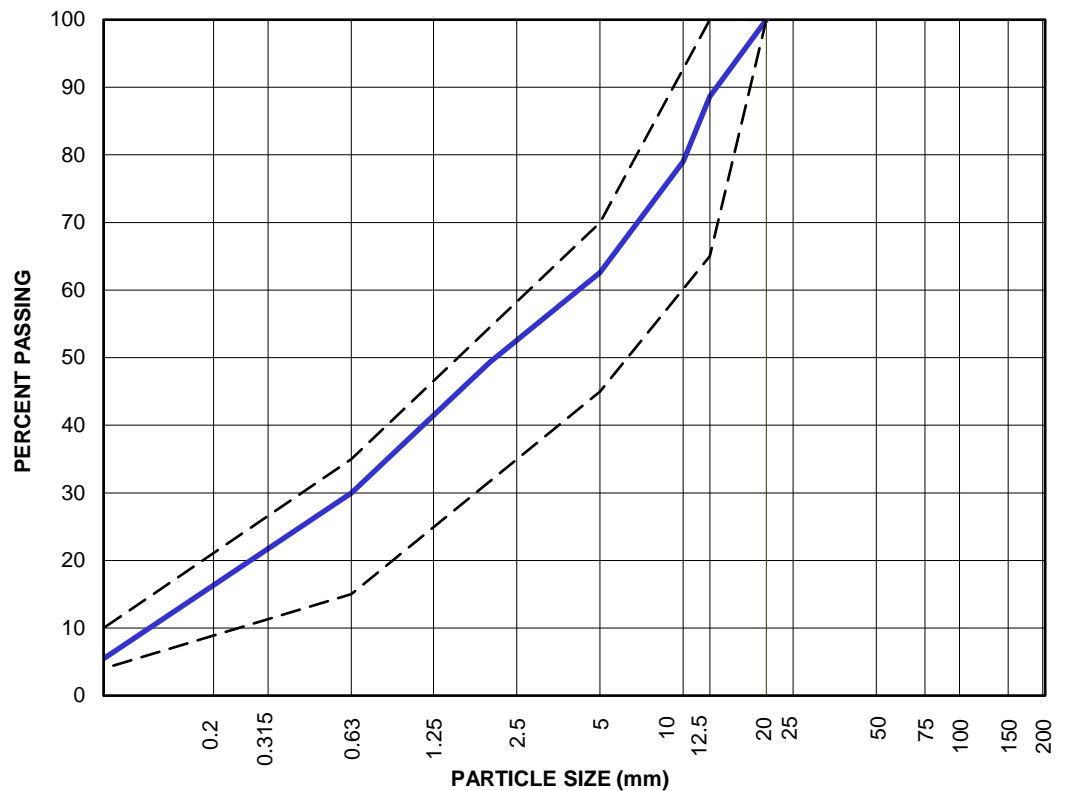
**Remarks:** 20 mm minus particle size distribution limits shown**Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA12**SAMPLE DESCRIPTION:** 20 mm minus
sampled from belt**ADDRESS:** Meliadine Mine**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 7.6%**DATE SAMPLED:** Nov 01/16 **By:** TW**CLIENT:** Agnico Eagle**BULK REL DENSITY:** n/a**ATTENTION:** _____**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	89
10	79
5	63
2	49
0.63	30
0.08	5

**Remarks:** 20 mm minus particle size distribution limits shown**Reviewed by:** _____ **P.Eng.**

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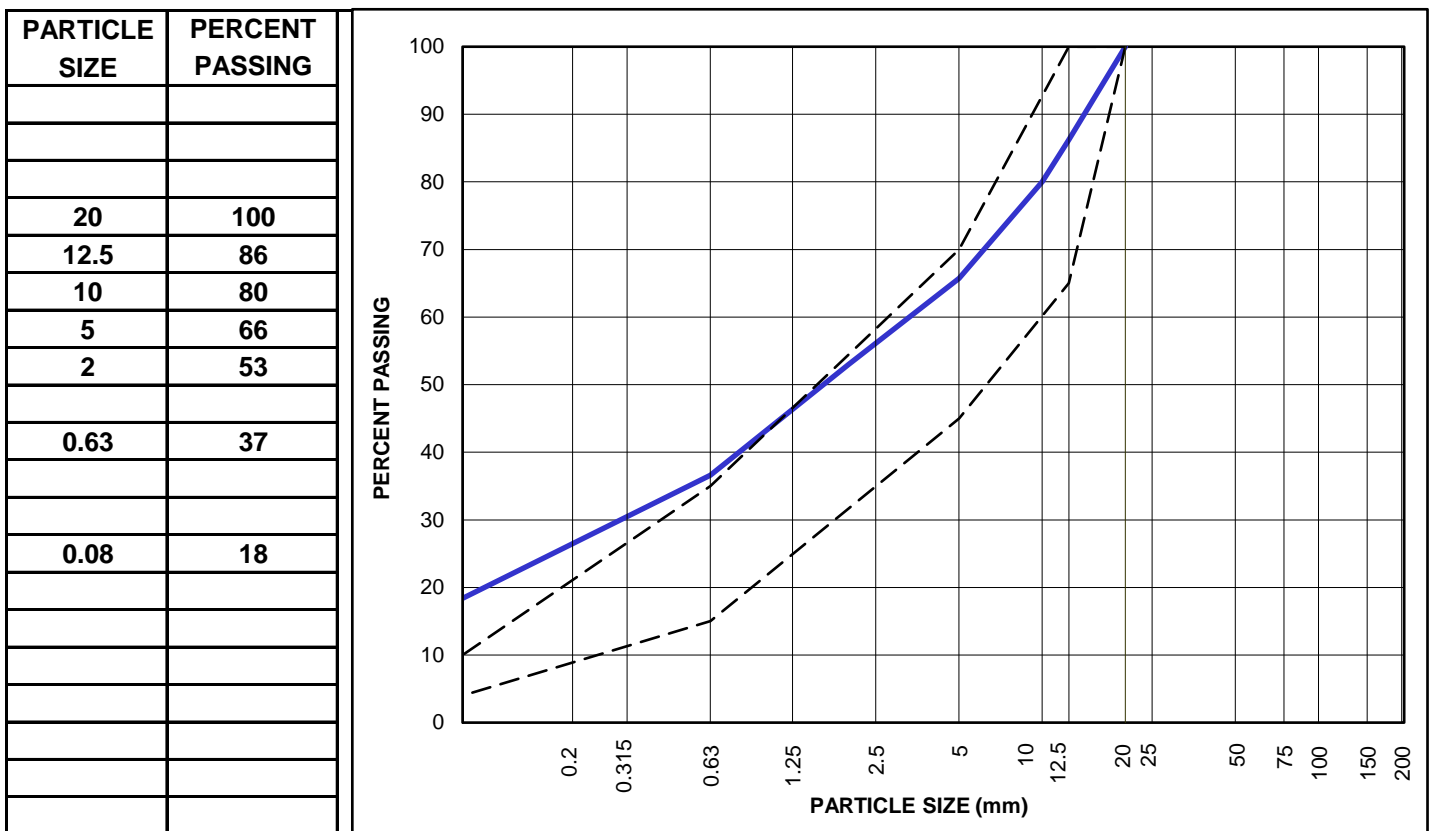
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ABSORPTION:	n/a
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PARTICLE SIZE ANALYSIS REPORT

PROJECT:	<u>Meliadine Dike Construction</u>	SAMPLE NO:	<u>SA15</u>
		SAMPLE DESCRIPTION:	<u>20 mm minus (Type C Mat.)</u>
			<u>Sampled from belt</u>
ADDRESS:	<u>Meliadine Gold Project, NU.</u>		
PROJECT NO:	<u>E14103230-01</u>	MOISTURE CONT. :	<u>4.2%</u>
DATE SAMPLED:	<u>Nov 05/16</u> By: <u>TW</u>		
CLIENT:	<u>Agnico Eagle Mines Ltd.</u>	BULK REL DENSITY:	<u>n/a</u>
ATTENTION:	<u>Mr. Duy Nguyen</u>	BULK REL. DENSITY (SSD):	<u>n/a</u>
		APPARENT REL. DENSITY:	<u>n/a</u>
		ABSORPTION:	<u>n/a</u>



Remarks: 20 mm minus particle size distribution limits shown

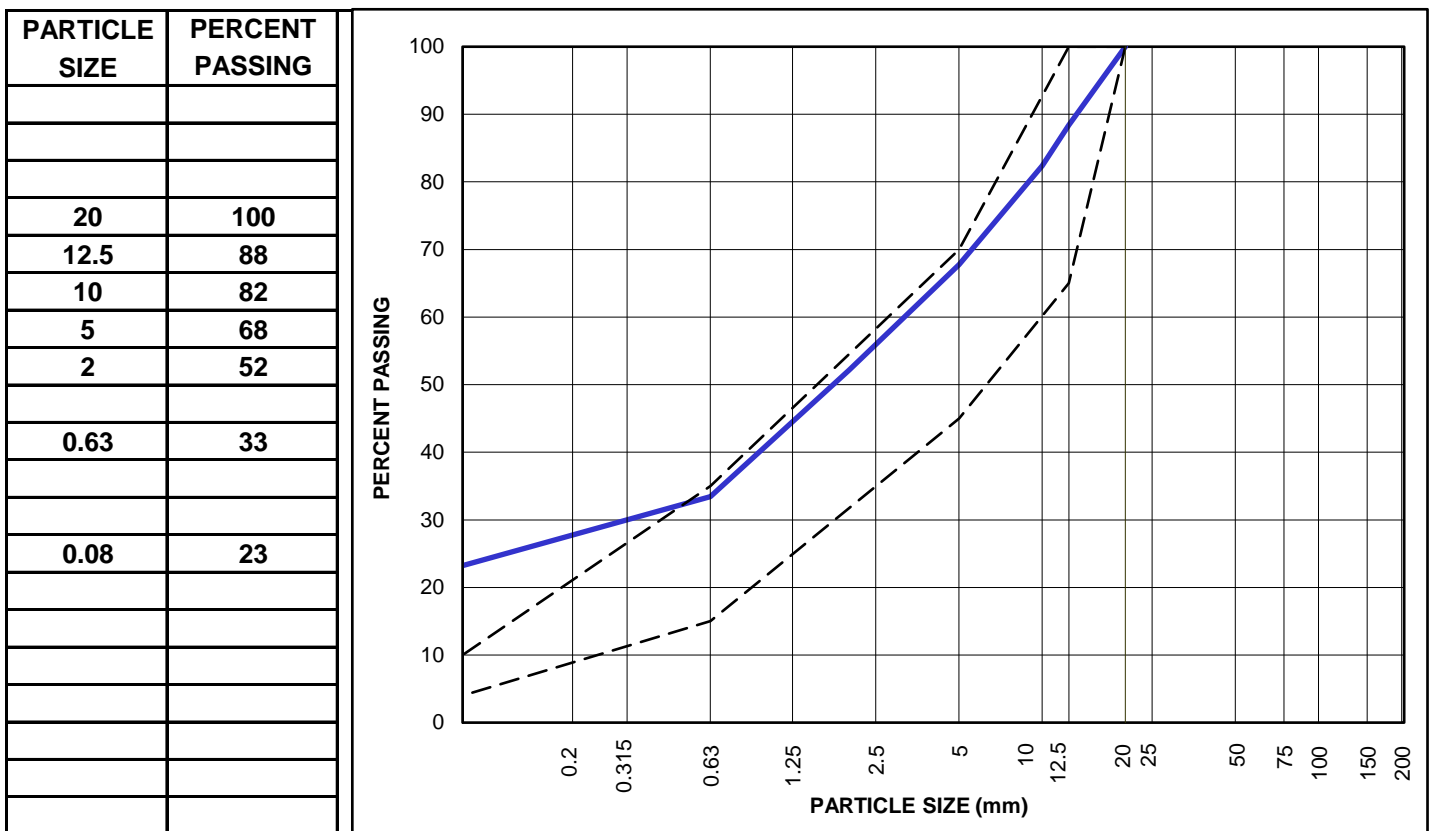
Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT:	<u>Meliadine Dike Construction</u>	SAMPLE NO:	<u>SA16</u>
		SAMPLE DESCRIPTION:	<u>20 mm minus (Type C Mat.)</u>
			<u>Sampled from belt</u>
ADDRESS:	<u>Meliadine Gold Project, NU.</u>		
PROJECT NO:	<u>E14103230-01</u>	MOISTURE CONT. :	<u>4.9%</u>
DATE SAMPLED:	<u>Nov 06/16</u> By: <u>TW</u>		
CLIENT:	<u>Agnico Eagle Mines Ltd.</u>	BULK REL DENSITY:	<u>n/a</u>
ATTENTION:	<u>Mr. Duy Nguyen</u>	BULK REL. DENSITY (SSD):	<u>n/a</u>
		APPARENT REL. DENSITY:	<u>n/a</u>
		ABSORPTION:	<u>n/a</u>



Remarks: 20 mm minus particle size distribution limits shown

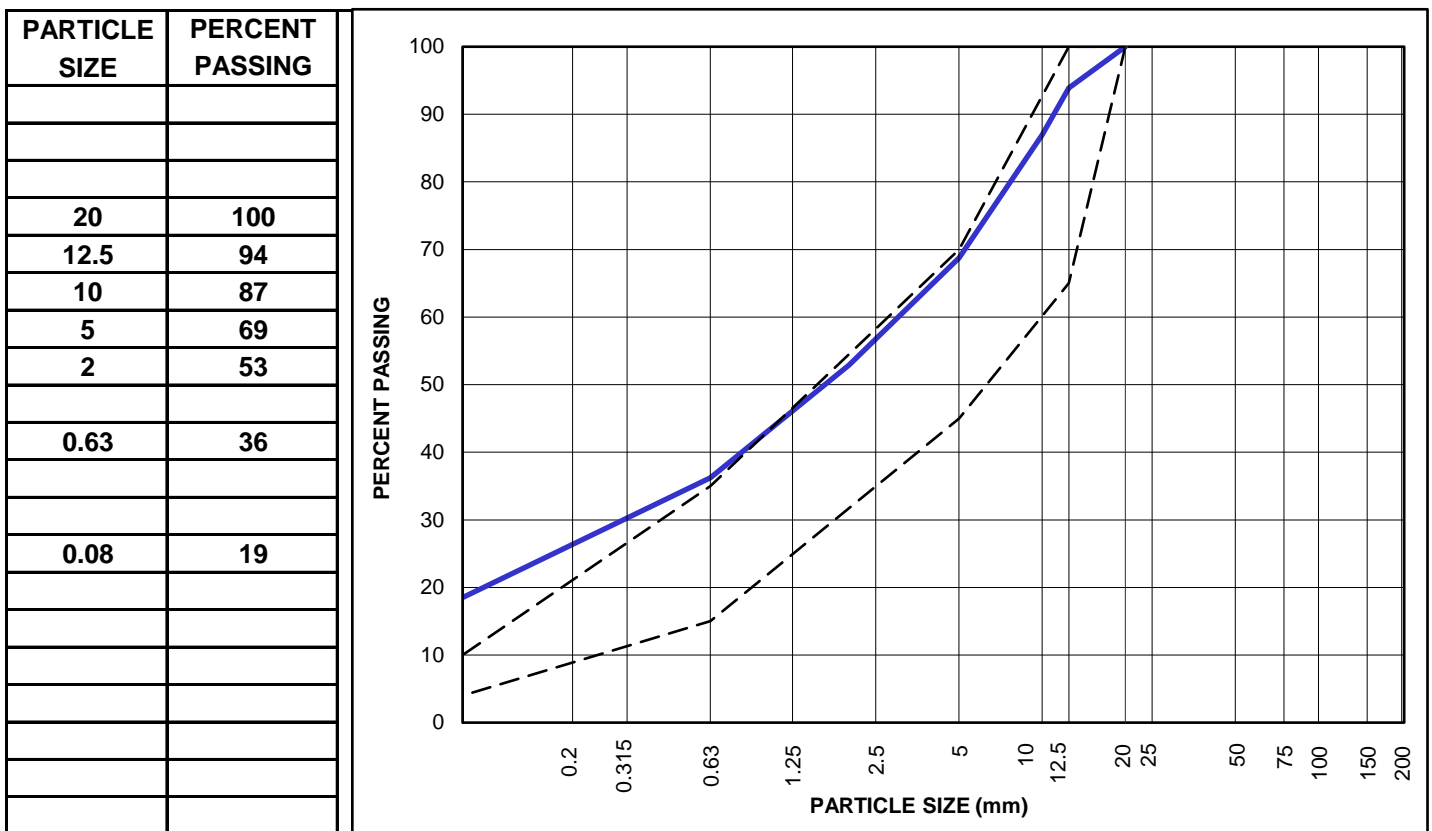
Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT:	<u>Meliadine Dike Construction</u>	SAMPLE NO:	<u>SA17</u>
		SAMPLE DESCRIPTION:	<u>20 mm minus (Type C Mat.)</u>
			<u>Sampled from belt</u>
ADDRESS:	<u>Meliadine Gold Project, NU.</u>		
PROJECT NO:	<u>E14103230-01</u>	MOISTURE CONT. :	<u>8.0%</u>
DATE SAMPLED:	<u>Nov 07/16</u> By: <u>TW</u>		
CLIENT:	<u>Agnico Eagle Mines Ltd.</u>	BULK REL DENSITY:	<u>n/a</u>
ATTENTION:	<u>Mr. Duy Nguyen</u>	BULK REL. DENSITY (SSD):	<u>n/a</u>
		APPARENT REL. DENSITY:	<u>n/a</u>
		ABSORPTION:	<u>n/a</u>



Remarks: 20 mm minus particle size distribution limits shown

Reviewed by: _____ **P.Eng.**

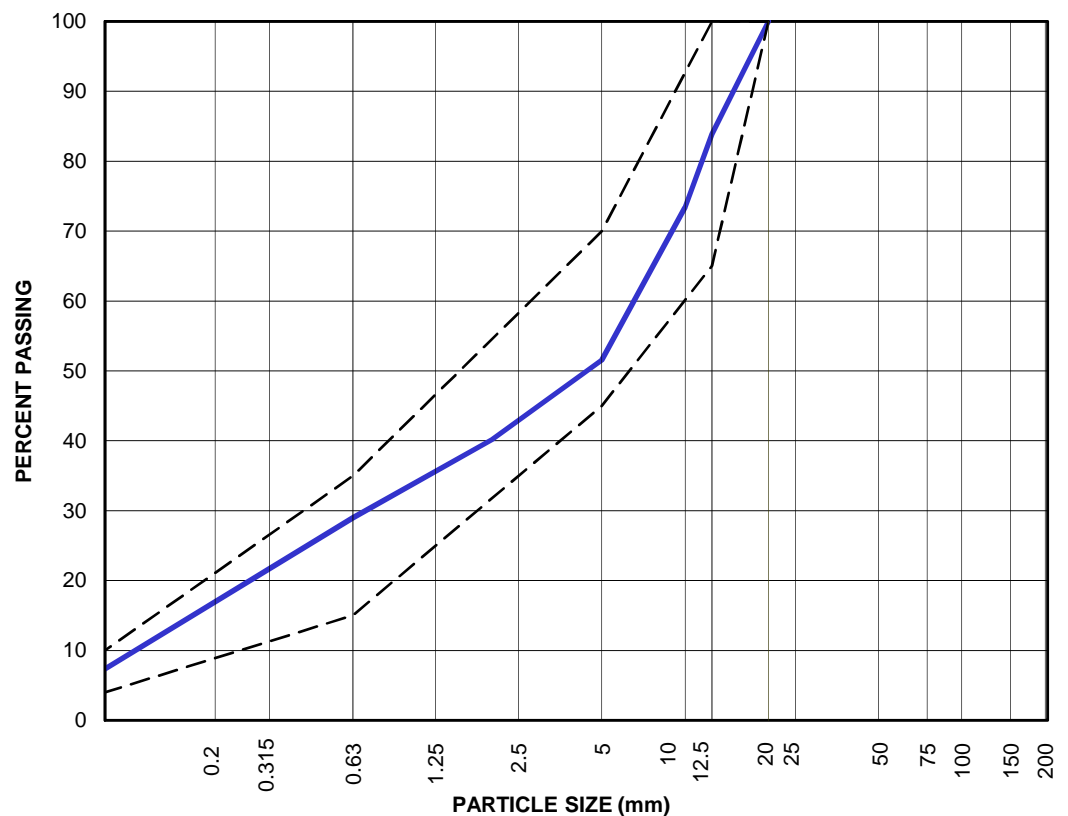
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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike ConstructionSAMPLE NO: SA18SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)
Sampled from beltADDRESS: Meliadine Gold Project, NU.PROJECT NO: E14103230-01MOISTURE CONT. : 4.5%DATE SAMPLED: Nov 08/16 By: TWCLIENT: Agnico Eagle Mines Ltd.BULK REL DENSITY: n/aATTENTION: Mr. Duy NguyenBULK REL. DENSITY (SSD): n/aAPPARENT REL. DENSITY: n/aABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	84
10	73
5	52
2	40
0.63	29
0.08	7

Remarks: 20 mm minus particle size distribution limits shown

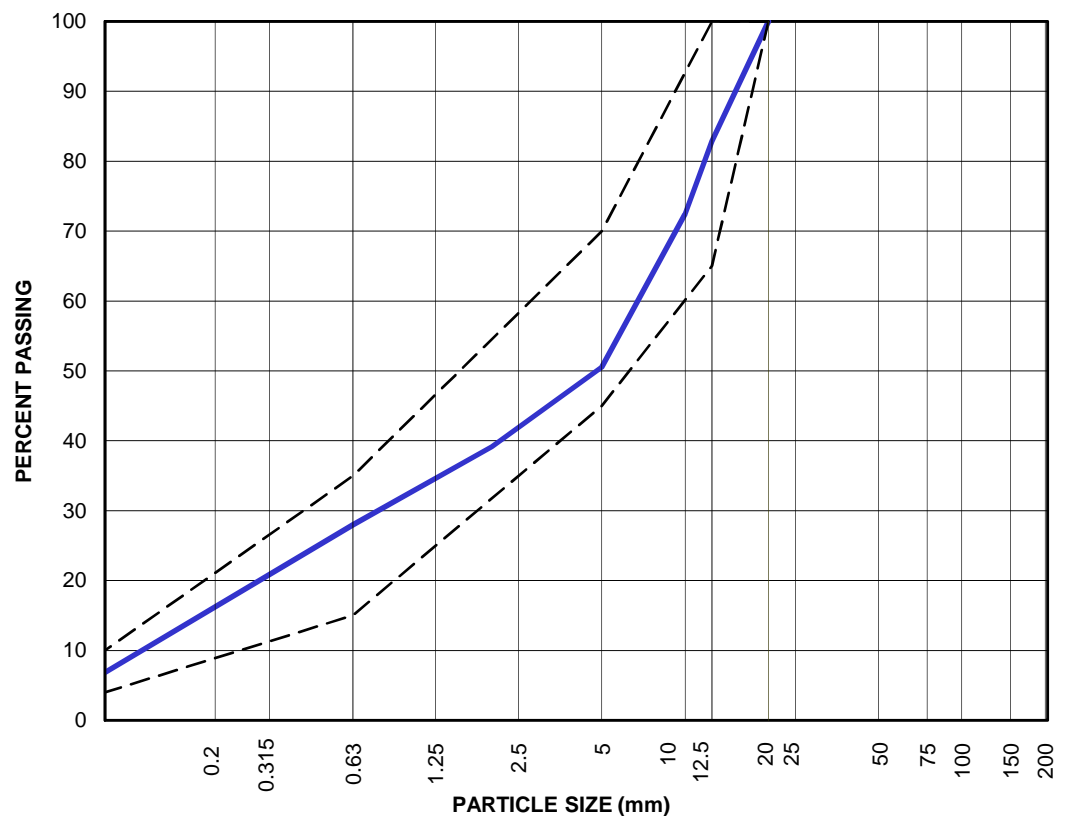
Reviewed by: _____ P.Eng.

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA19**SAMPLE DESCRIPTION:** 20 mm minus (Type C Mat.)
Sampled from belt**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 5.4%**DATE SAMPLED:** Nov 09/16 **By:** TW**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	83
10	72
5	51
2	39
0.63	28
0.08	7

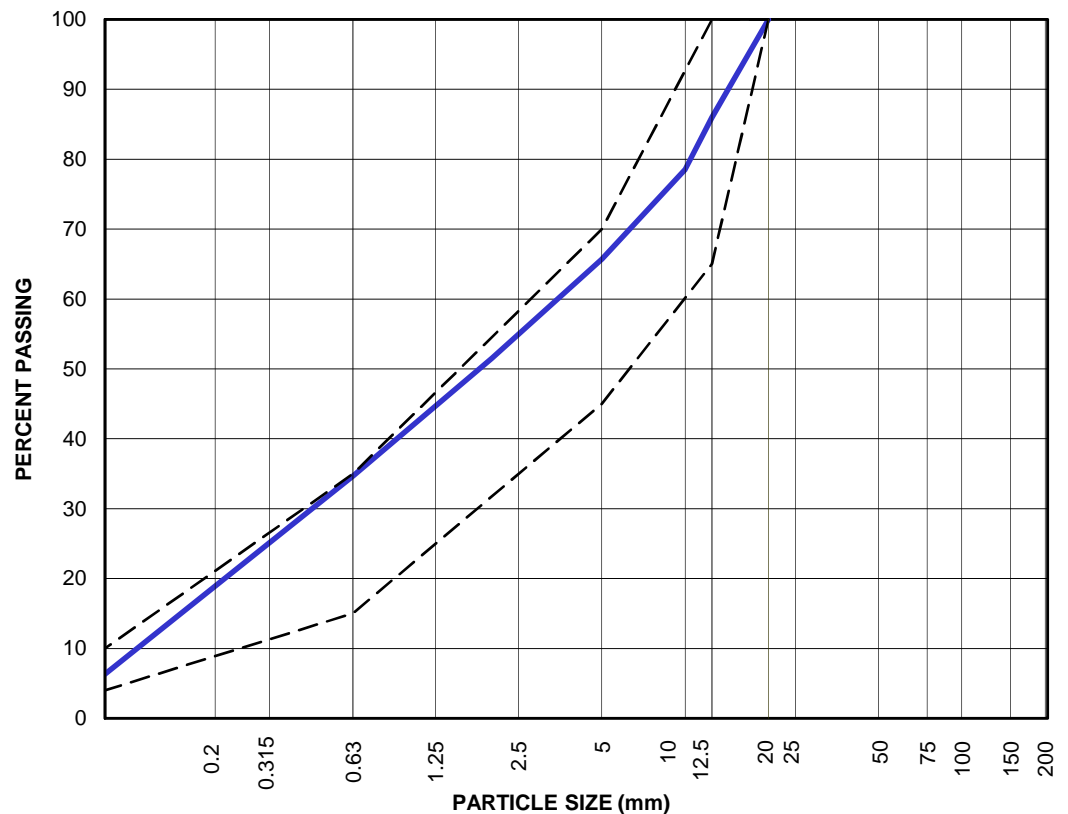
**Remarks:** 20 mm minus particle size distribution limits shown**Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA20**SAMPLE DESCRIPTION:** 20 mm minus (Type C Mat.)
Sampled from belt**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 9.4%**DATE SAMPLED:** Nov 10/16 **By:** TW**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	86
10	79
5	66
2	51
0.63	35
0.08	6

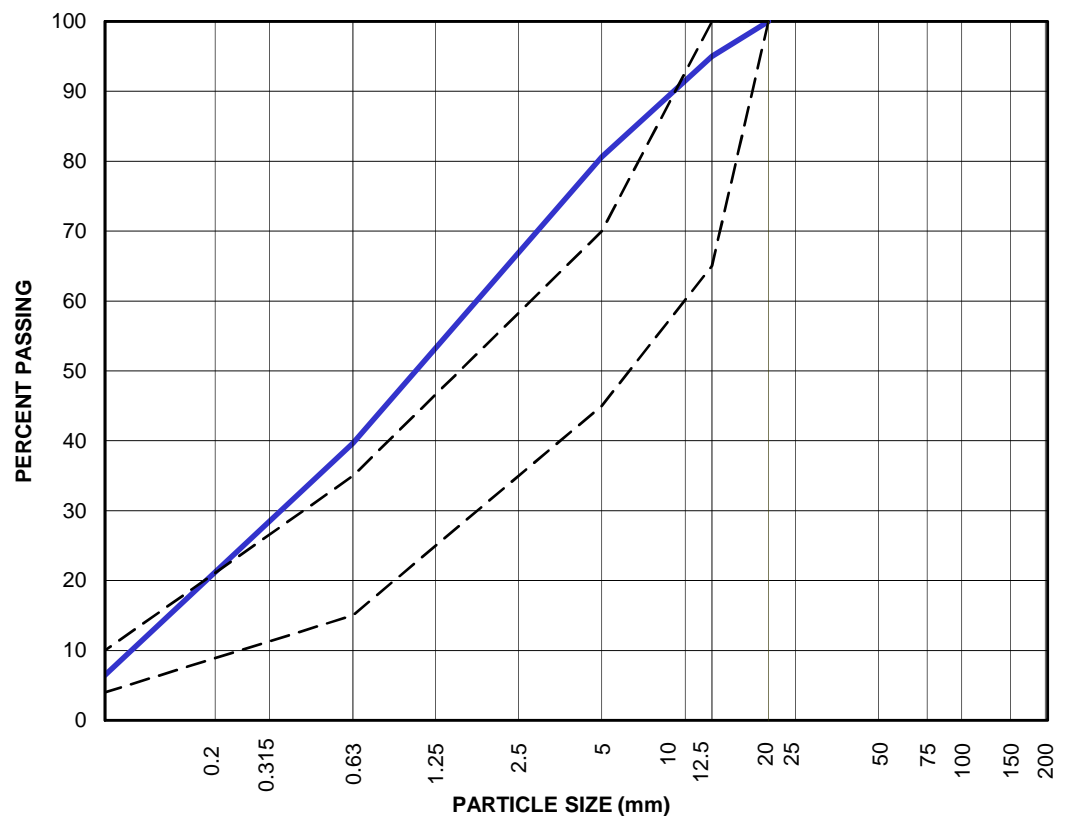
**Remarks:** 20 mm minus particle size distribution limits shown**Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA21**SAMPLE DESCRIPTION:** 20 mm minus (Type C Mat.)
Sampled from belt**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01.023**MOISTURE CONT. :** 10.0%**DATE SAMPLED:** Nov 12/16 **By:** IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	95
5	81
0.63	40
0.08	6

**Remarks:** _____**Reviewed by:** _____ P.Eng.

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA22
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)
Sampled from belt

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01.023

MOISTURE CONT. : 9.9%

DATE SAMPLED: Nov 13/16 **By:** IM

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

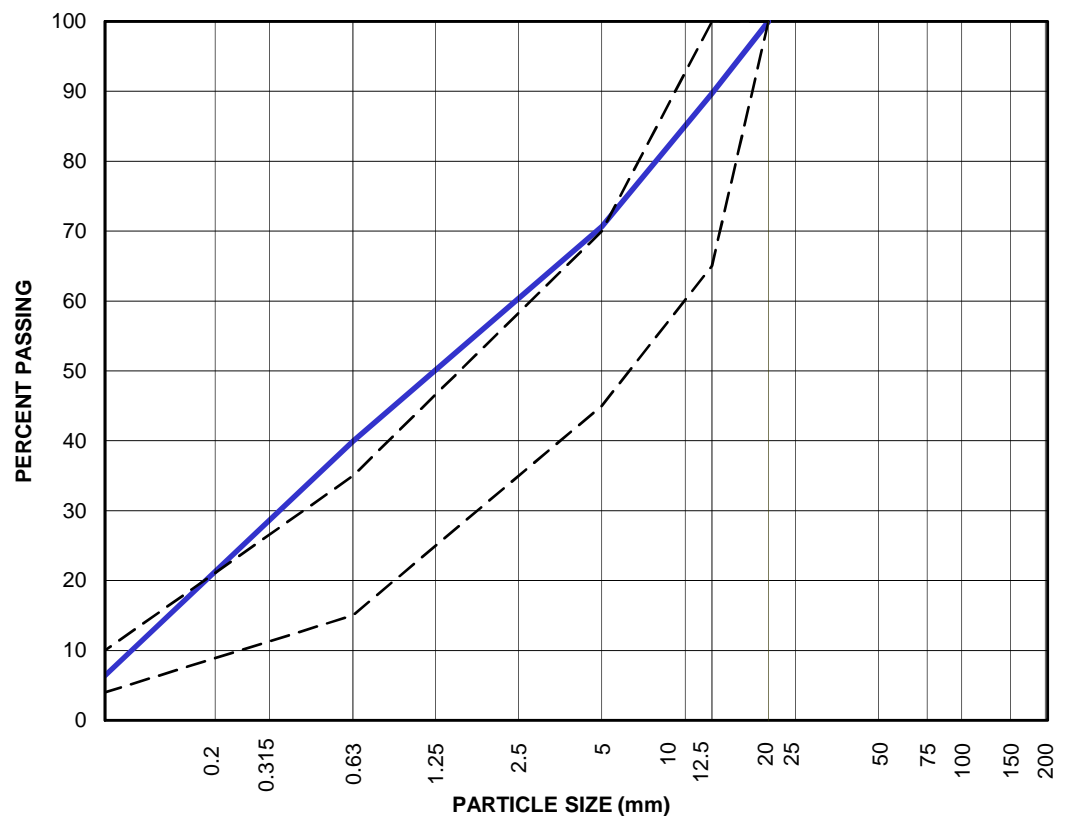
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	90
5	71
0.63	40
0.08	6



Remarks: Sampled at 22:00.

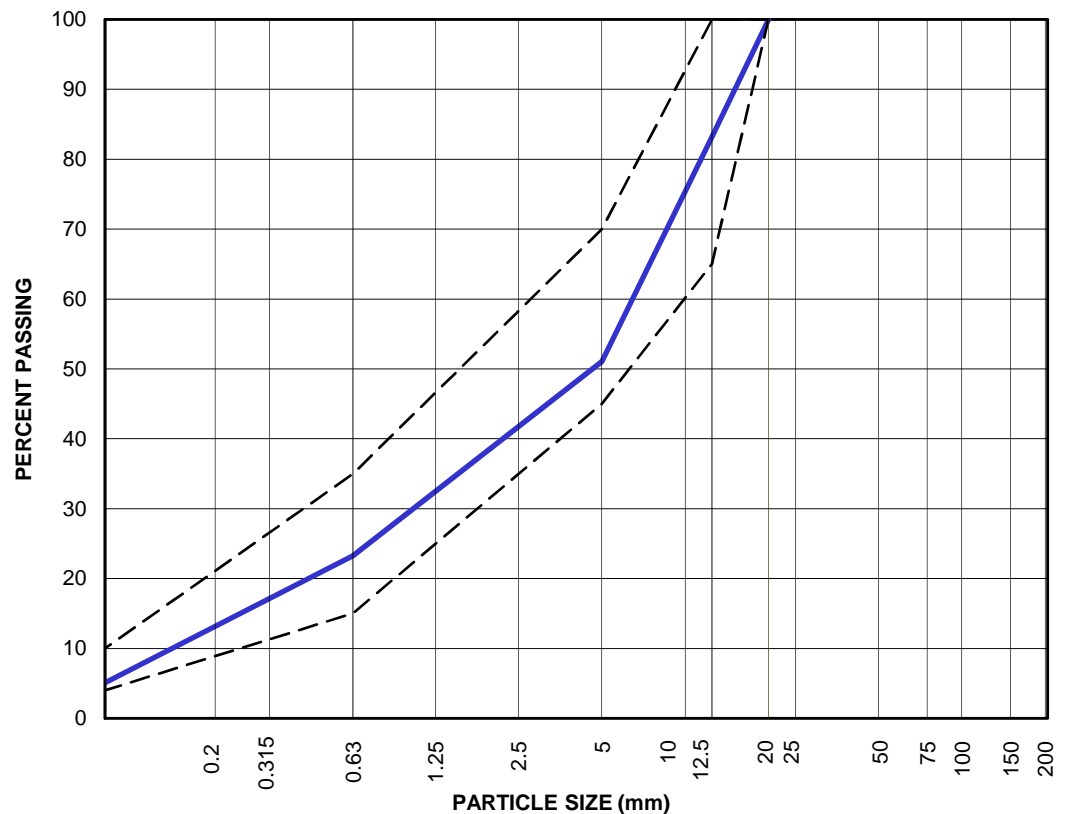
Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA23**SAMPLE DESCRIPTION:** 20 mm minus (Type C Mat.)
Sampled from belt**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01.023**MOISTURE CONT. :** 5.1%**DATE SAMPLED:** Nov 14/16 **By:** IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	83
5	51
0.63	23
0.08	5

**Remarks:** Sampled at 17:00.**Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA24
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)
Sampled from belt

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01.023

MOISTURE CONT. : 8.2%

DATE SAMPLED: Nov 17/16 **By:** IM

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

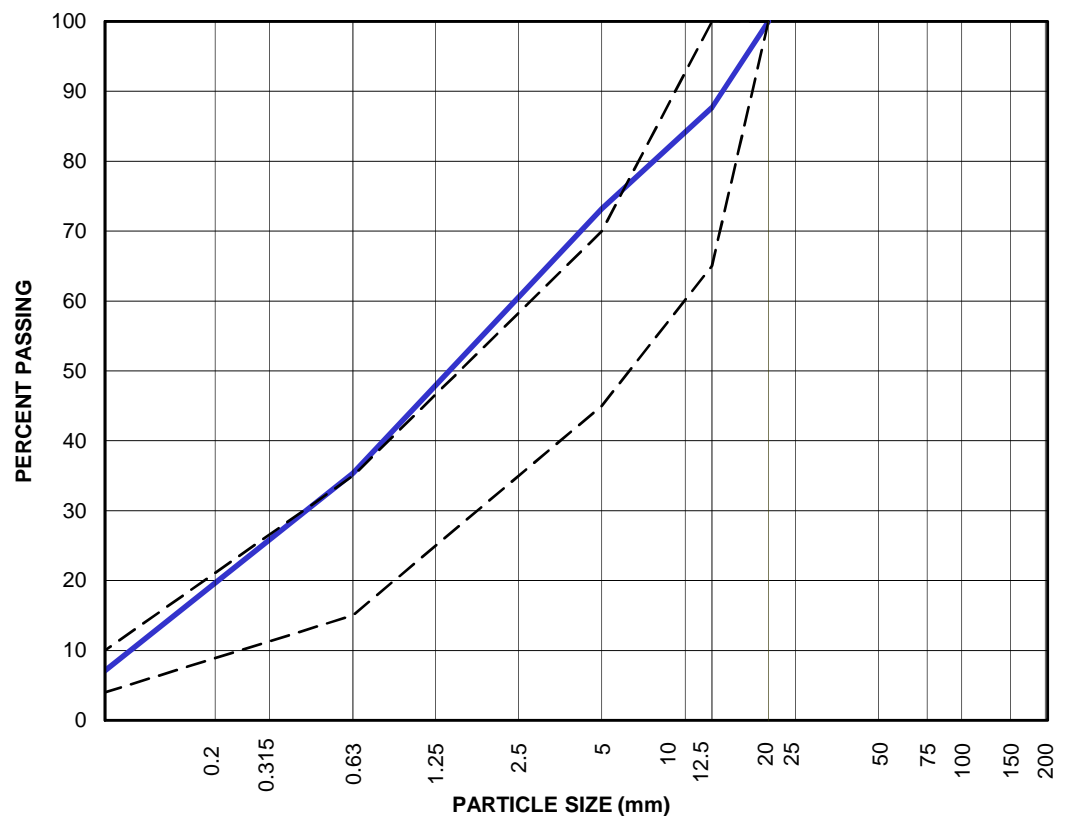
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	88
5	73
0.63	35
0.08	7



Remarks: Sampled at 19:00.

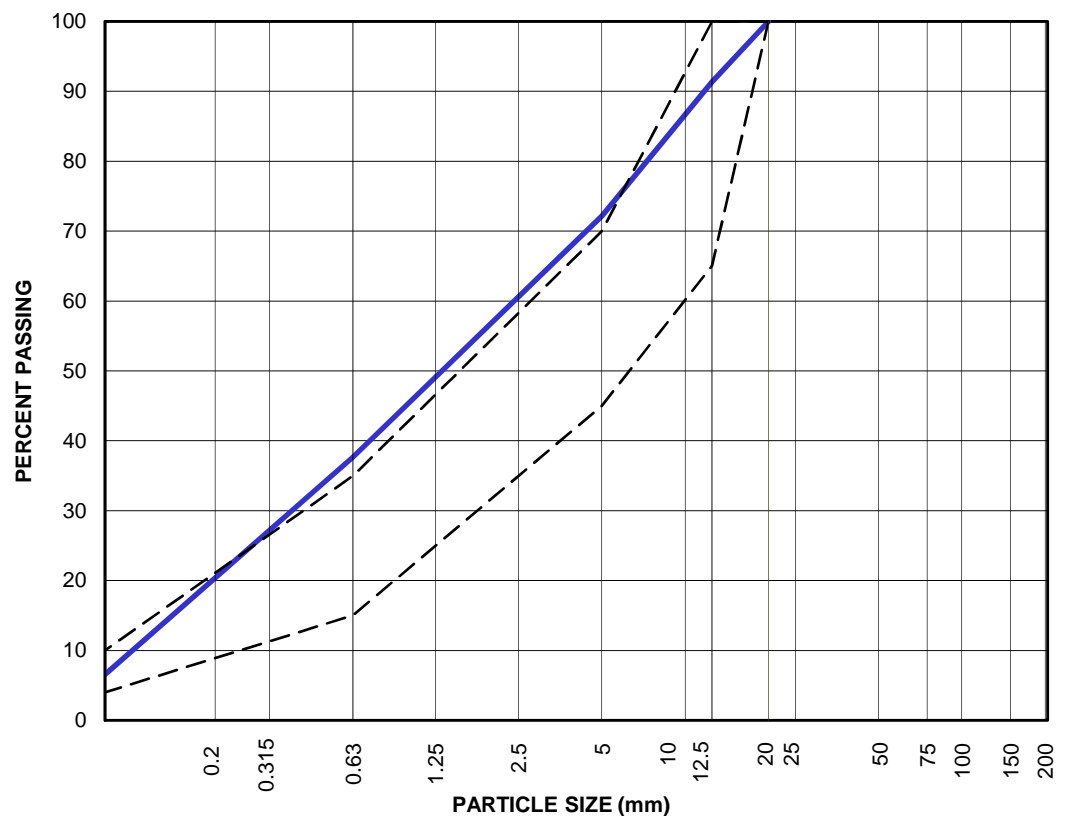
Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA25**SAMPLE DESCRIPTION:** 20 mm minus (Type C Mat.)
Sampled from stockpile**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01.023**MOISTURE CONT. :** 12.4%**DATE SAMPLED:** Nov 17/16 **By:** IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	91
5	72
0.63	38
0.08	7

**Remarks:** Sampled at 19:00. Layers of snow noted in stockpile.**Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA26
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)
Sampled from stockpile

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01.023

MOISTURE CONT. : 11.5%

DATE SAMPLED: Nov 17/16 **By:** IM

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

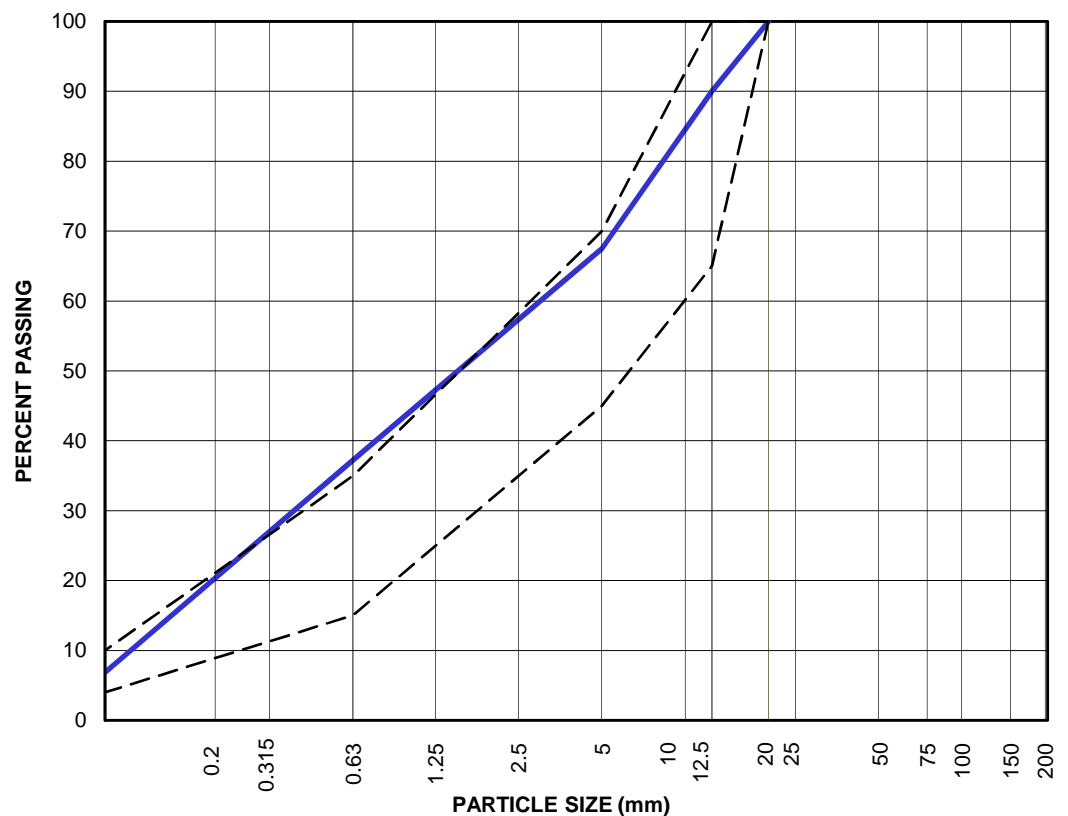
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	90
5	67
0.63	37
0.08	7



Remarks: Sampled at 19:00. Layers of snow noted in stockpile.

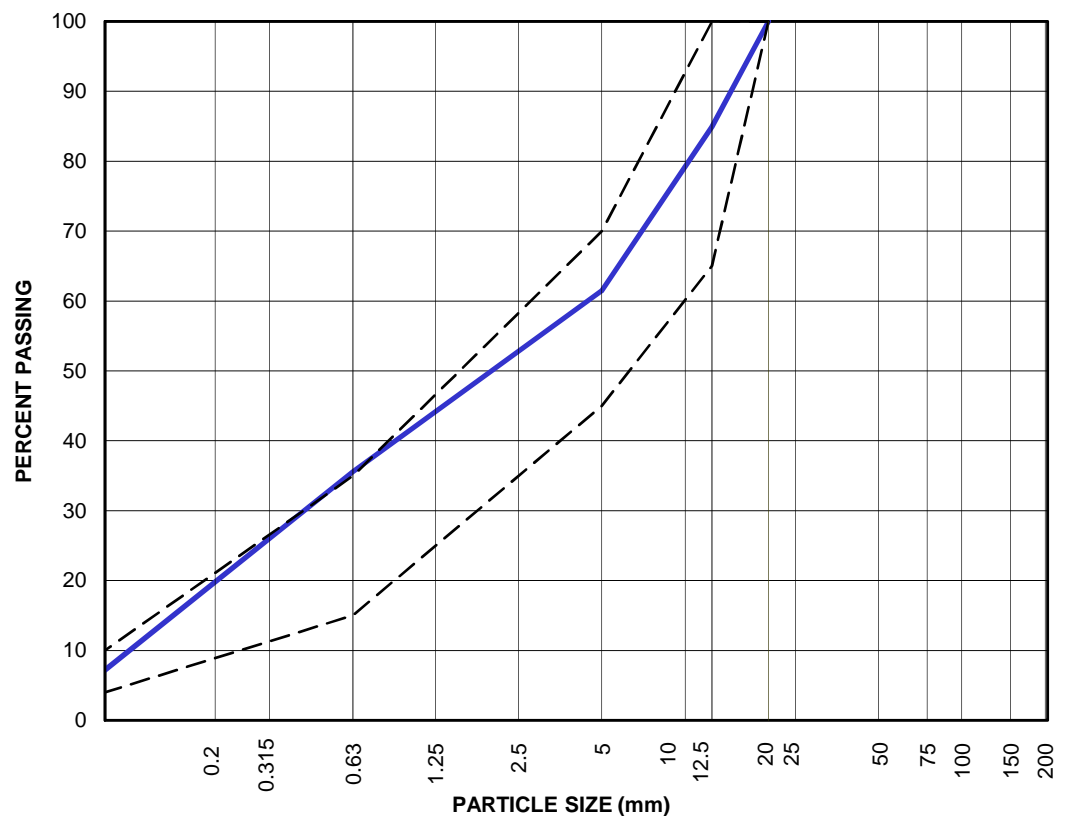
Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA27**SAMPLE DESCRIPTION:** 20 mm minus (Type C Mat.)
Sampled from stockpile**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01.023**MOISTURE CONT. :** 11.2%**DATE SAMPLED:** Nov 19/16 **By:** SH**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	85
5	61
0.63	36
0.08	7

**Remarks:** _____**Reviewed by:** _____ P.Eng.

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA28
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)
Sampled from stockpile

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01.023

MOISTURE CONT. : 9.2%

DATE SAMPLED: Nov 19/16 **By:** SH

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

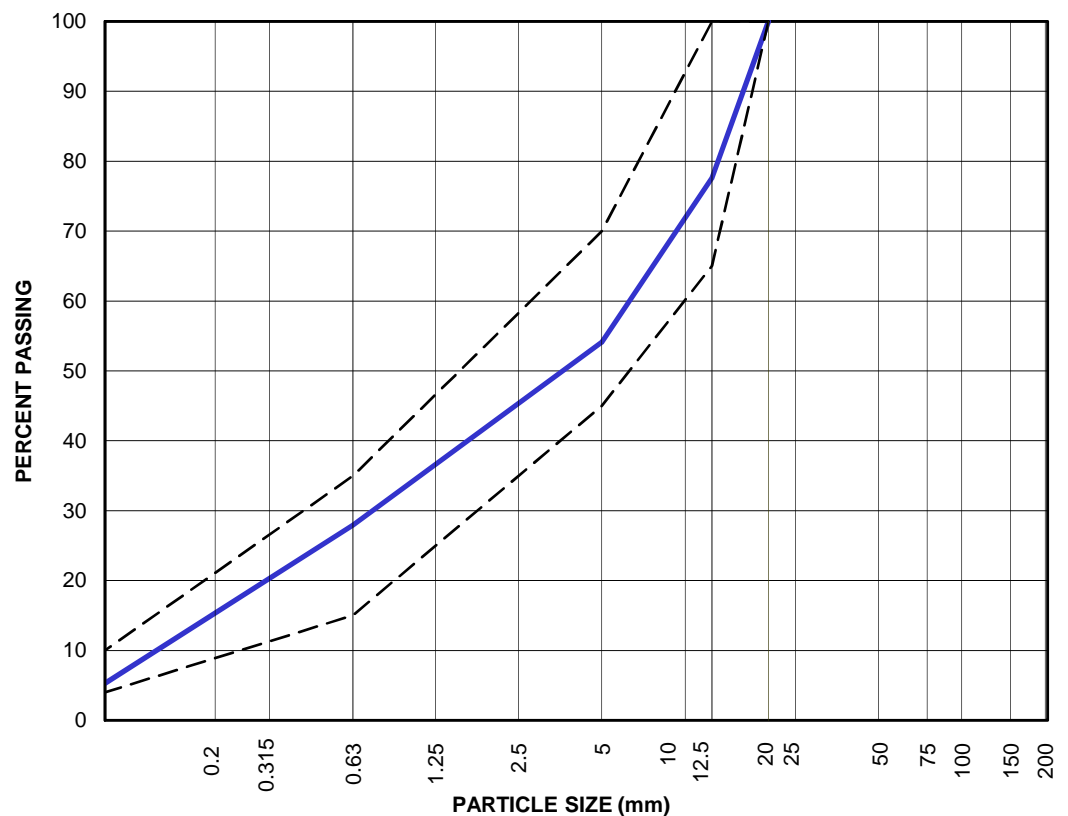
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	78
5	54
0.63	28
0.08	5



Remarks: _____

Reviewed by: _____ P.Eng.

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA29
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)
Sampled after belt (mixed by loader)

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01.023

MOISTURE CONT. : 11.9%

DATE SAMPLED: Nov 19/16 **By:** SH

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

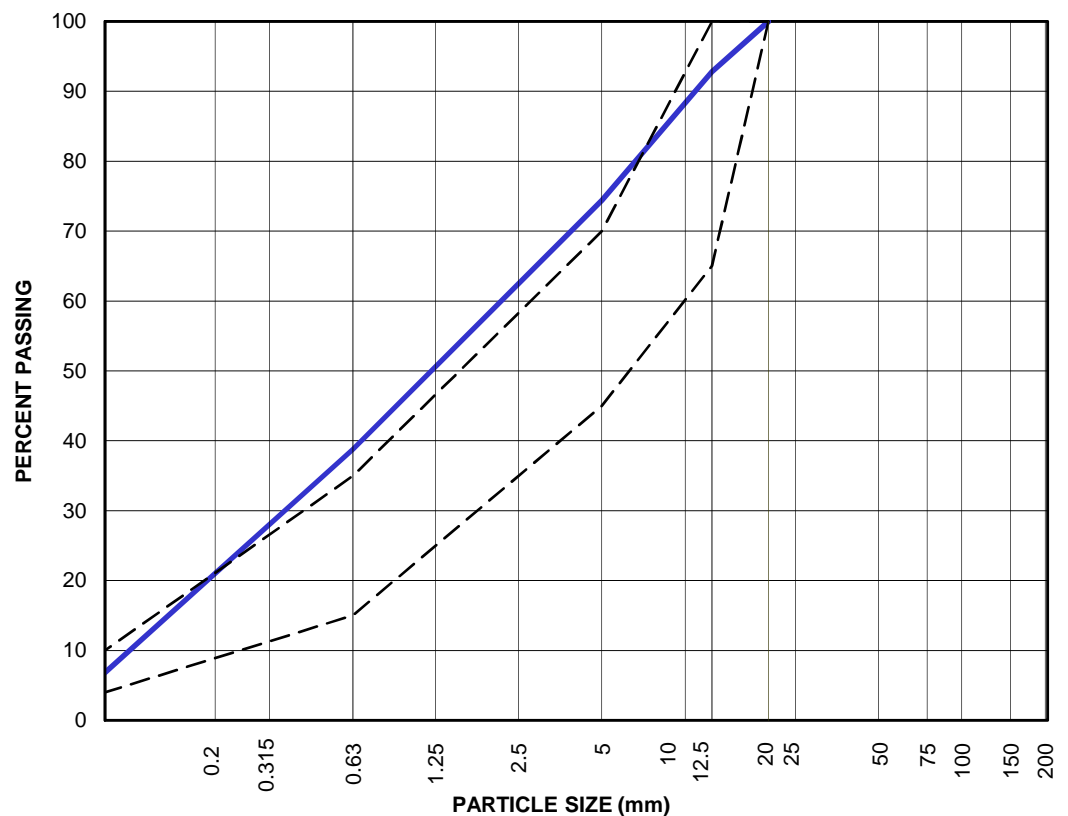
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	93
5	74
0.63	39
0.08	7



Remarks: _____

Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA30
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)
Sampled after belt (mixed by loader)

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01.023

MOISTURE CONT. : 11.1%

DATE SAMPLED: Nov 21/16 **By:** SH

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

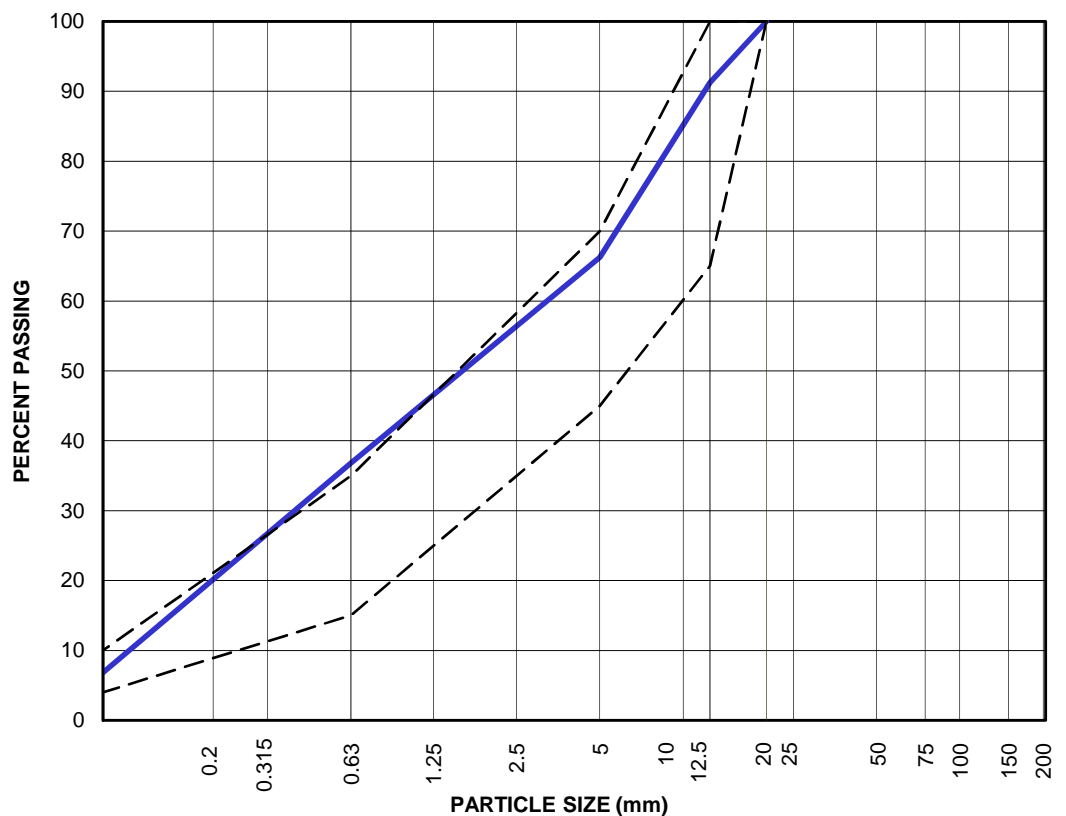
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	91
5	66
0.63	37
0.08	7



Remarks: _____

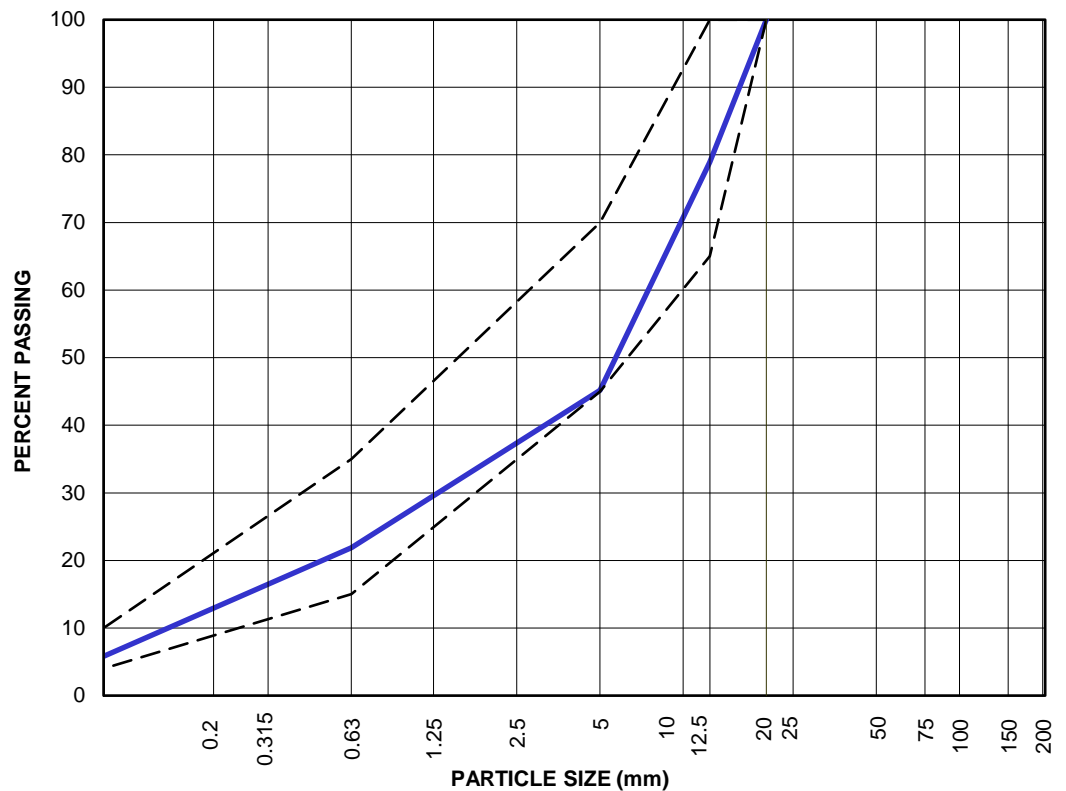
Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA31**SAMPLE DESCRIPTION:** 20 mm minus (Type C Mat.)Sampled after belt (mixed by loader)**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01.023**MOISTURE CONT. :** 4.5%**DATE SAMPLED:** Nov 23/16 **By:** SH/IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	79
5	45
0.63	22
0.08	6

**Remarks:****Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA32
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)
Sampled after belt

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01.023

MOISTURE CONT. : 10.3%

DATE SAMPLED: Nov 23/16 **By:** SH/IM

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

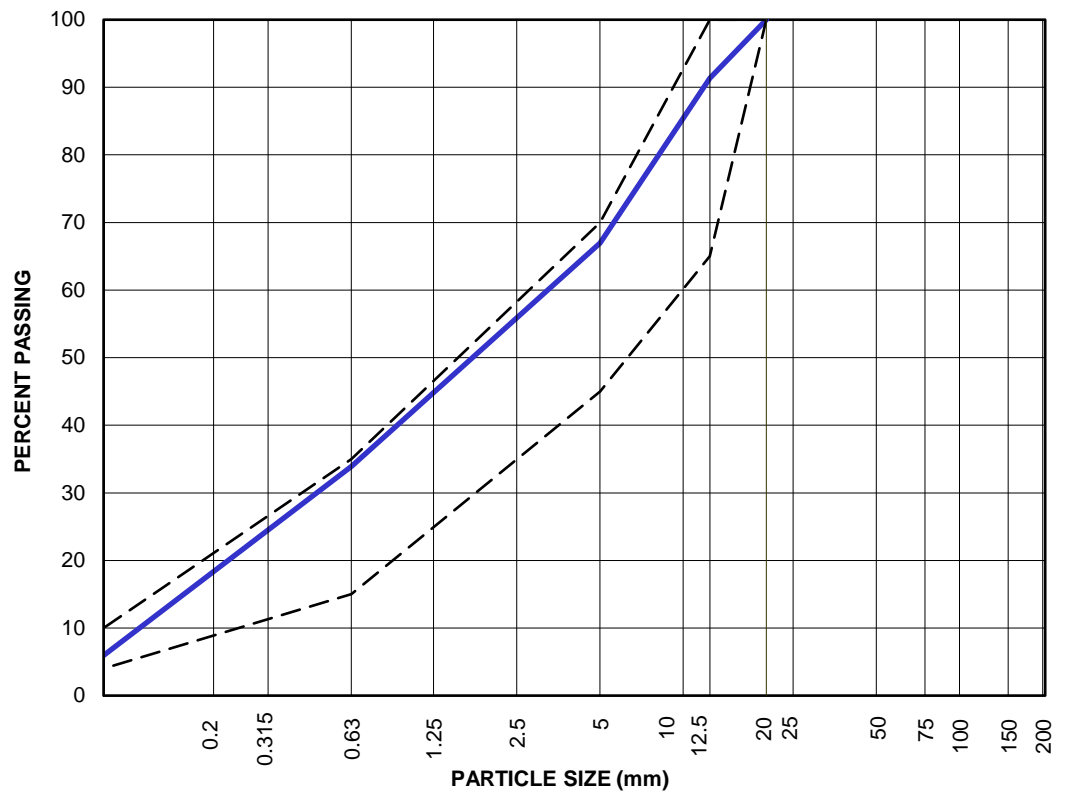
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	91
5	67
0.63	34
0.08	6



Remarks: _____

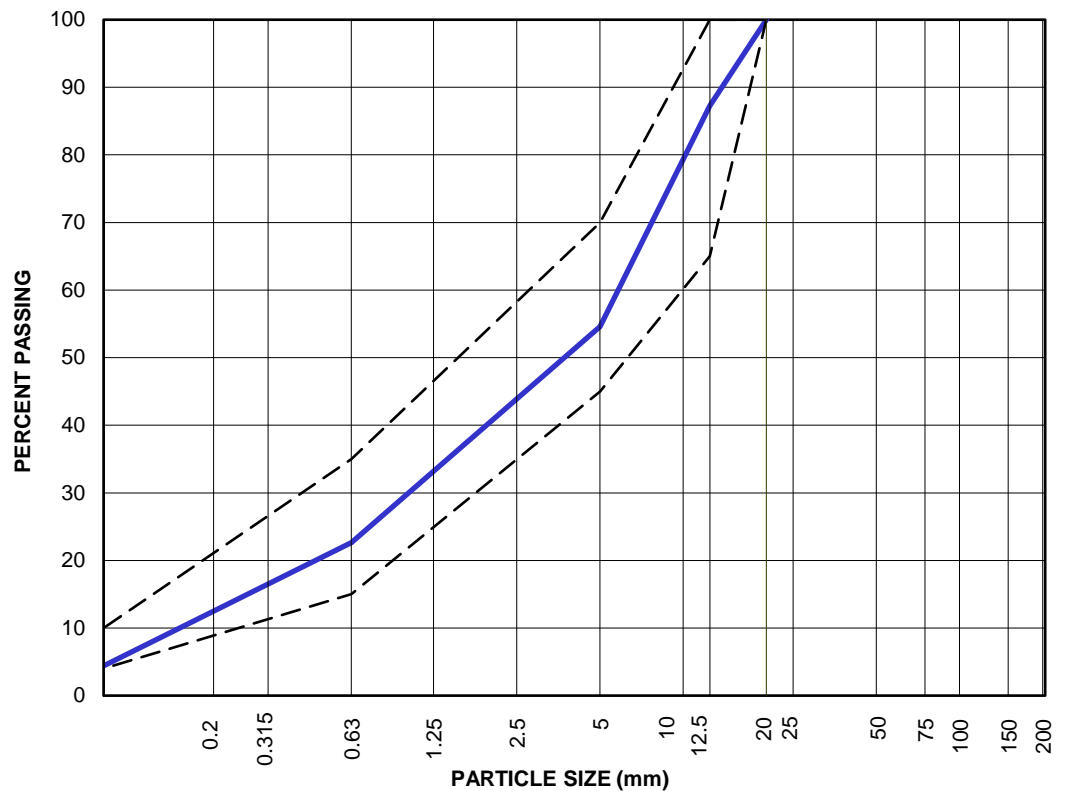
Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA33**SAMPLE DESCRIPTION:** Type C - 20 mmSampled from Dayshift Stockpile**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01.023**MOISTURE CONT. :** 7.5%**DATE SAMPLED:** Nov 26/16 **By:** SH/IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	87
5	55
0.63	23
0.08	4

**Remarks:****Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA34
SAMPLE DESCRIPTION: Type C - 20 mm
Sampled after belt

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01.023

MOISTURE CONT. : 6.7%

DATE SAMPLED: Nov 26/16 **By:** SH

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

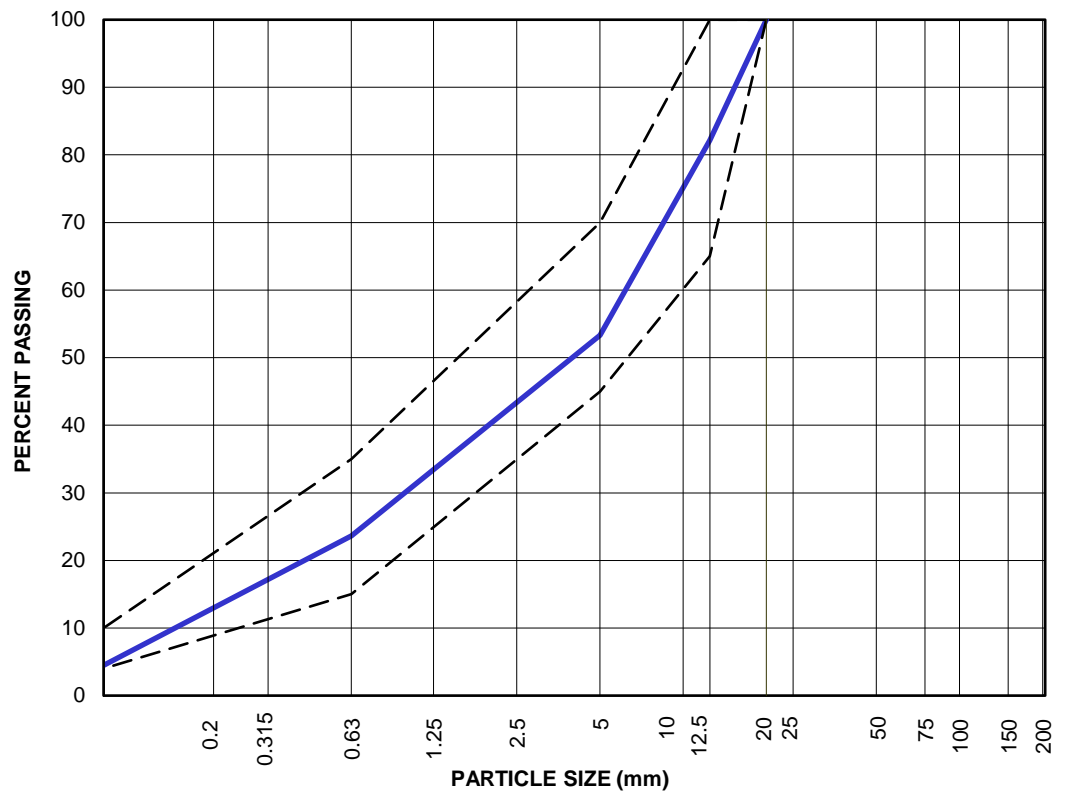
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	82
5	53
0.63	24
0.08	4



Remarks: _____

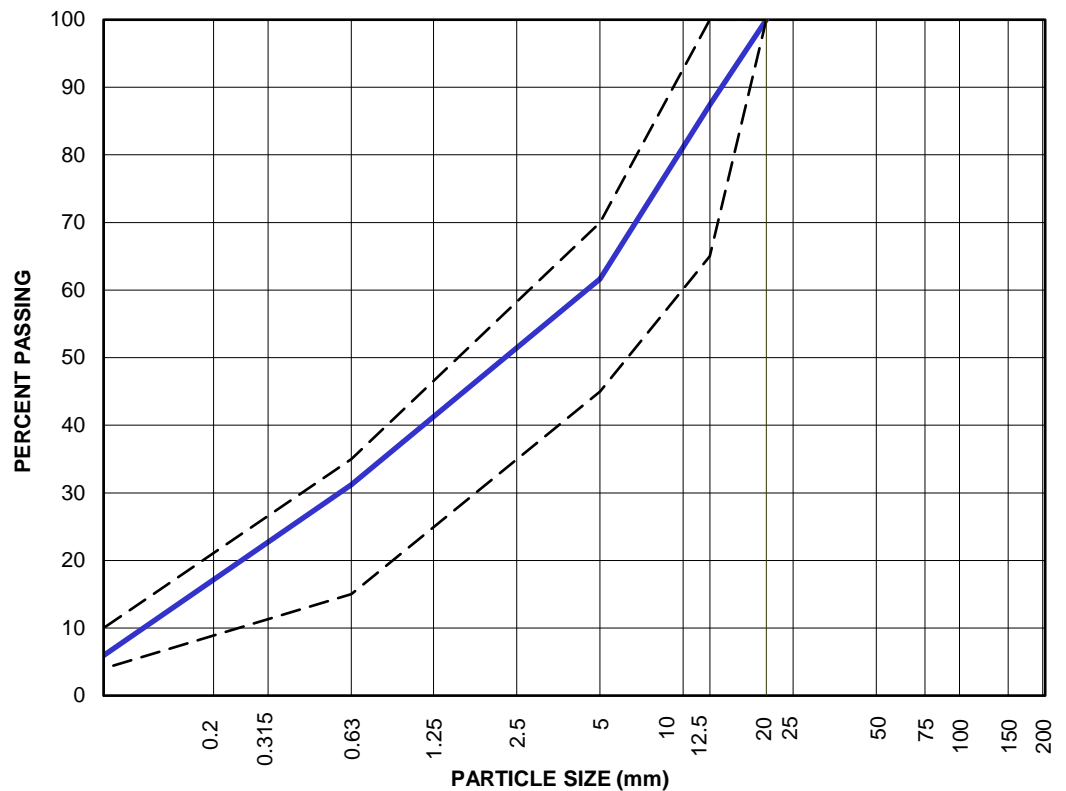
Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA35**SAMPLE DESCRIPTION:** Type C - 20 mmSampled from Dayshift Stockpile**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01.023**MOISTURE CONT. :** 8.0%**DATE SAMPLED:** Nov 26/16 **By:** SH/IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	87
5	62
0.63	31
0.08	6

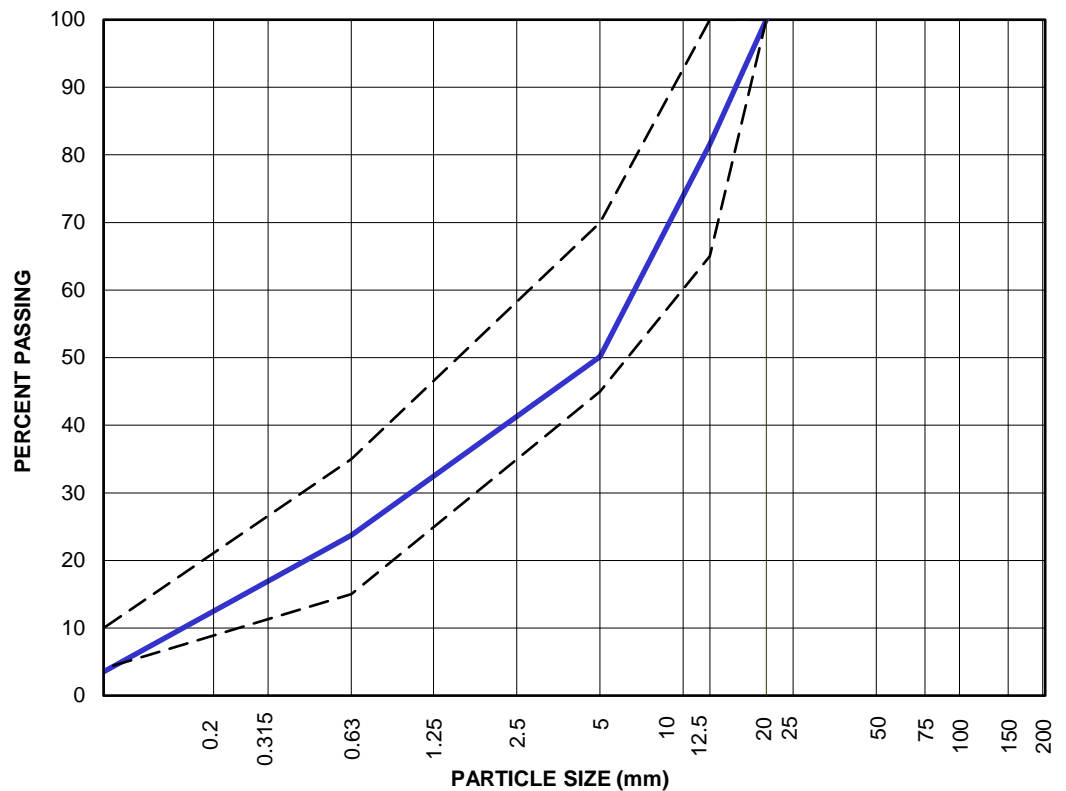
**Remarks:** _____**Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA36**SAMPLE DESCRIPTION:** Type C - 20 mmSampled November 29 N/S**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01.023**MOISTURE CONT. :** 7.1%**DATE SAMPLED:** Nov 29/16 **By:** SH/IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	82
5	50
0.63	24
0.08	4

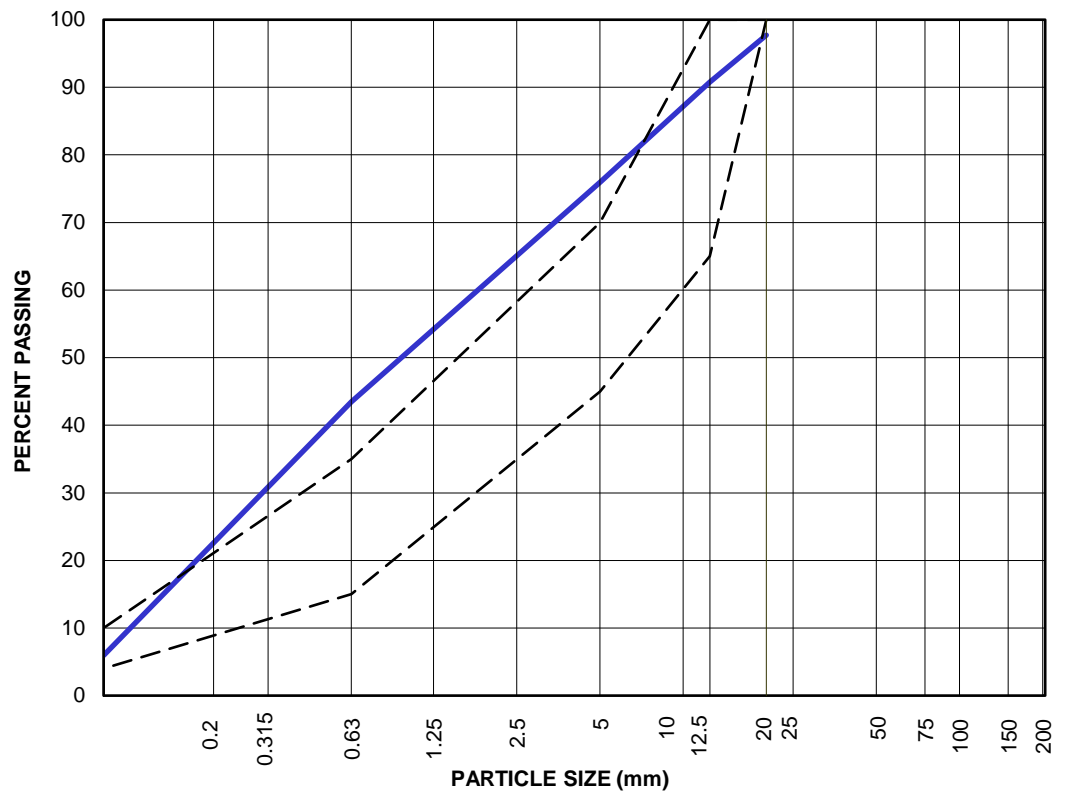
**Remarks:****Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA37**SAMPLE DESCRIPTION:** Type C - 20 mmSampled from Belt**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01.023**MOISTURE CONT. :** 14.3%**DATE SAMPLED:** Nov 30/16 **By:** SH/IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	98
12.5	91
5	76
0.63	43
0.08	6

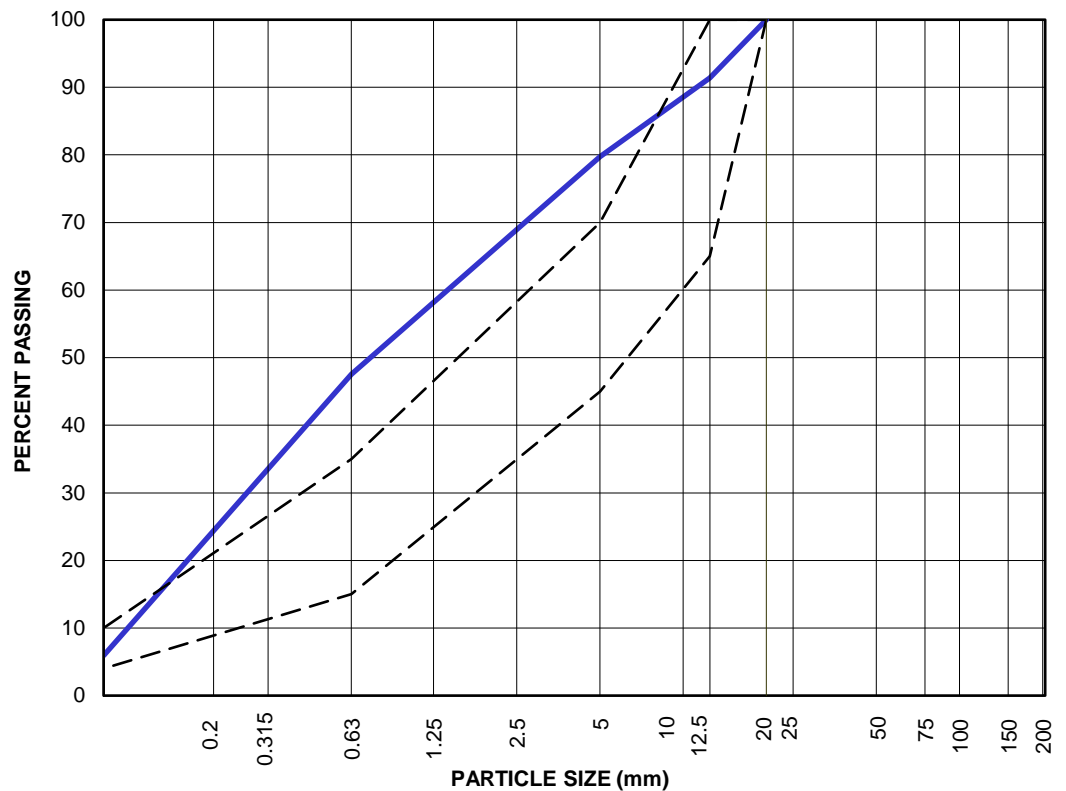
**Remarks:** _____**Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA38**SAMPLE DESCRIPTION:** Type C - 20 mmSampled from Belt**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01.023**MOISTURE CONT. :** 13.3%**DATE SAMPLED:** Dec 02/16 **By:** SH/IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	91
5	80
0.63	48
0.08	6

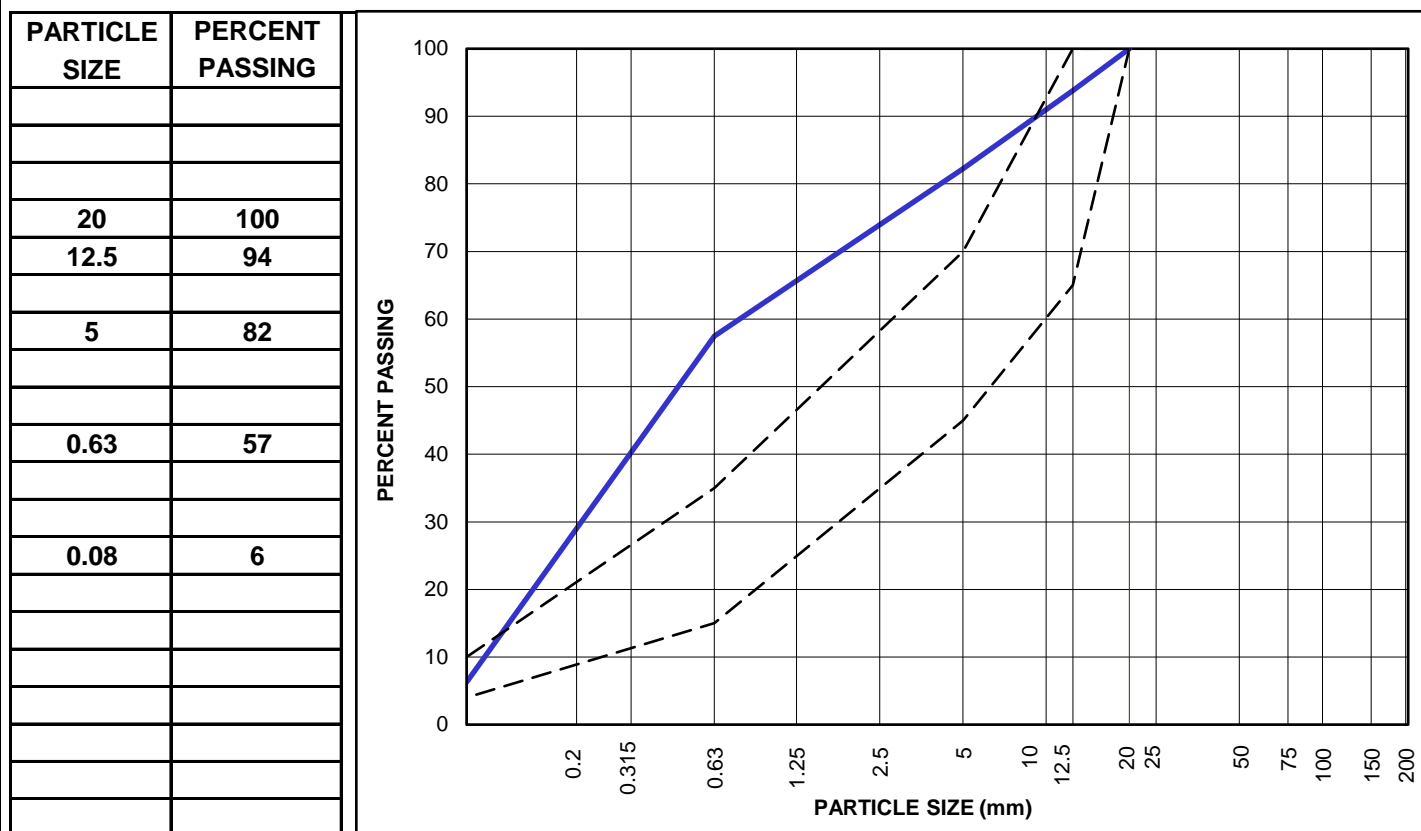
**Remarks:** _____**Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: <u>Meliadine Dike Construction</u> ADDRESS: <u>Meliadine Gold Project, NU.</u> PROJECT NO: <u>E14103230-01.023</u> DATE SAMPLED: <u>Dec 03/16</u> By: <u>IM/SH</u> CLIENT: <u>Agnico Eagle Mines Ltd.</u> ATTENTION: <u>Mr. Duy Nguyen</u>	SAMPLE NO: <u>SA39</u> SAMPLE DESCRIPTION: <u>Type C - 20 mm</u> <u>Sampled from Belt</u> MOISTURE CONT. : <u>13.8%</u> BULK REL DENSITY: <u>n/a</u> BULK REL. DENSITY (SSD): <u>n/a</u> APPARENT REL. DENSITY: <u>n/a</u> ABSORPTION: <u>n/a</u>
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Remarks: Sampled at 02:00 (Night shift)

Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA40
SAMPLE DESCRIPTION: Type C - 20 mm
Sampled from Belt

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01.023

MOISTURE CONT. : 14.4%

DATE SAMPLED: Dec 05/16 **By:** IM

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

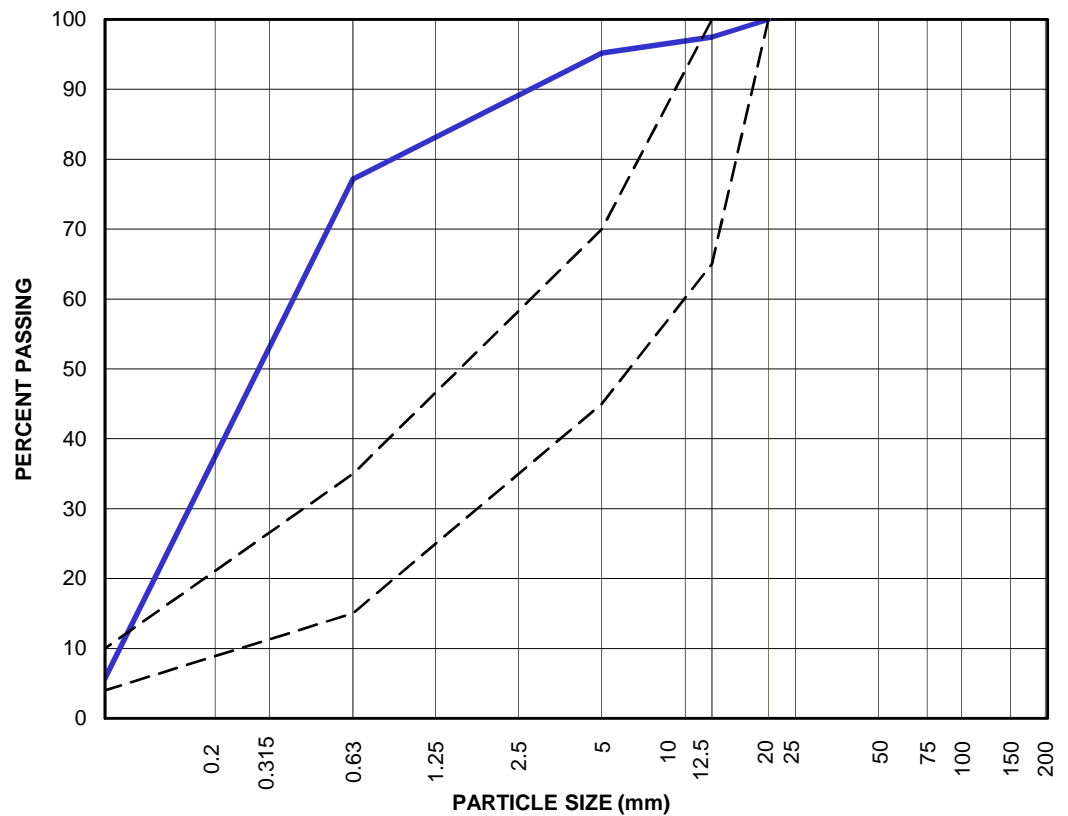
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	97
5	95
0.63	77
0.08	6



Remarks: Sampled at 03:00 (Night shift)

Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA41
SAMPLE DESCRIPTION: Type C - 20 mm
Sampled from stockpile

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01.023

MOISTURE CONT. : 6.7%

DATE SAMPLED: Mar 11/17 **By:** SH

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

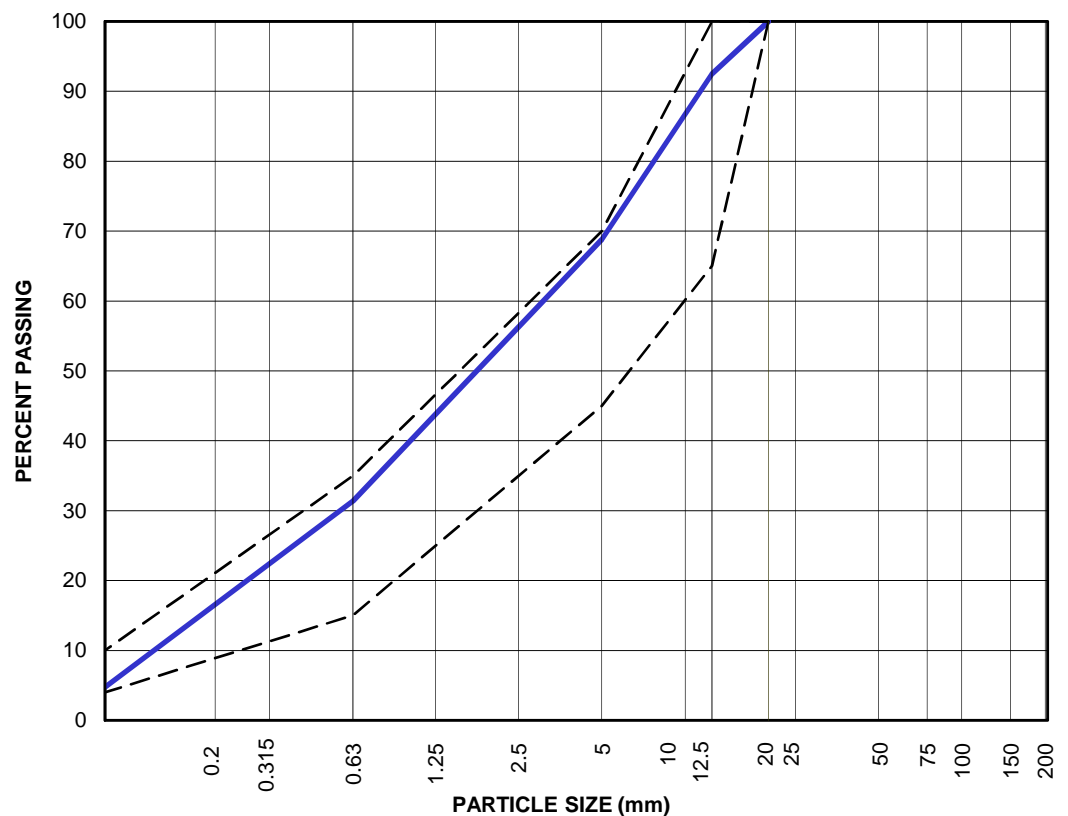
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	92
5	69
0.63	31
0.08	5



Remarks: Sampled at 02:00 (Night shift)

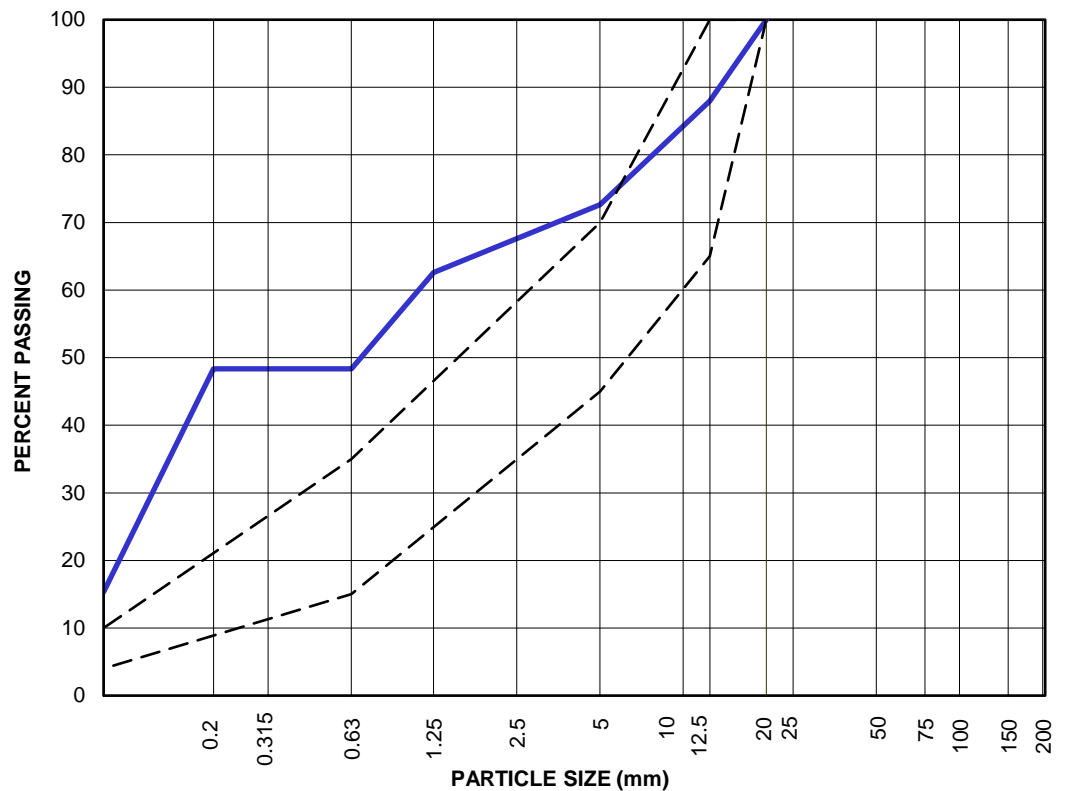
Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA43**SAMPLE DESCRIPTION:** Type C - 20 mmSampled from u/s Type C fillet ~0+280 @ D-CP5**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01.023**MOISTURE CONT. :** 11.5%**DATE SAMPLED:** Apr 18/17 **By:** WW**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	88
5	73
1.25	63
0.63	48
0.315	48
0.2	48
0.08	15

**Remarks:** Sampled from u/s Type C fillet ~0+280 @ D-CP5**Reviewed by:** P.Geo.

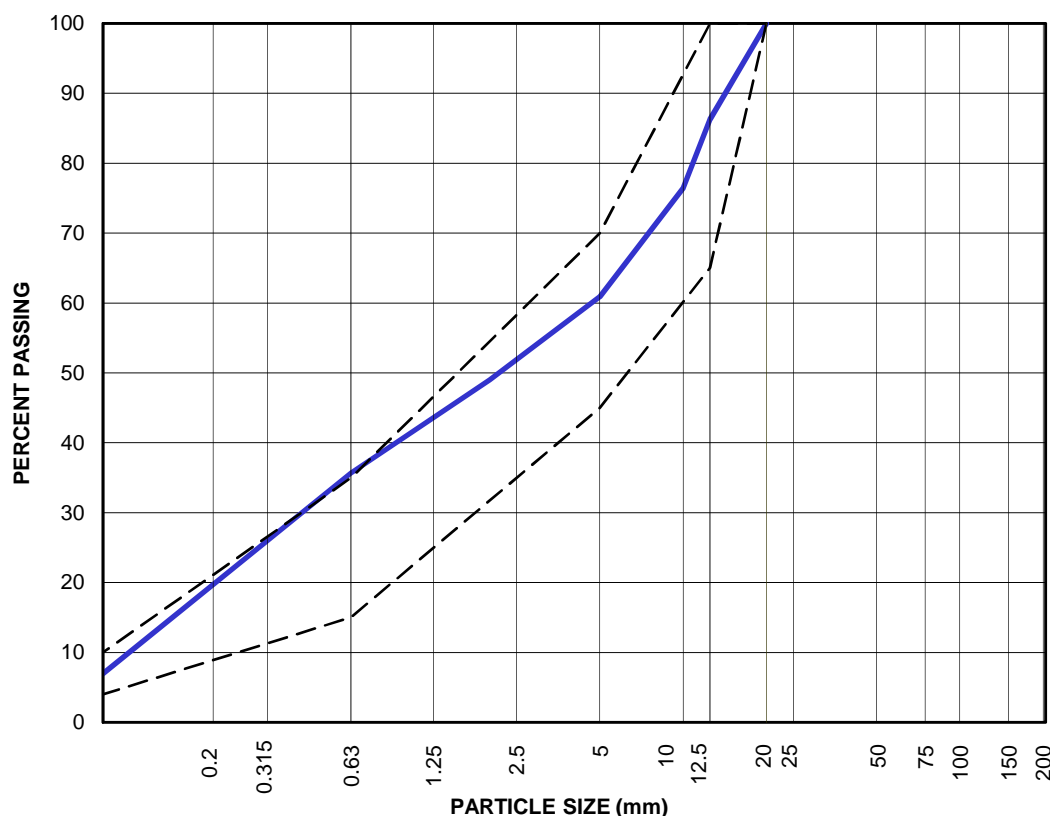
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PARTICLE SIZE ANALYSIS REPORT

PROJECT: <u>Meliadine Dike Construction</u> ADDRESS: <u>Meliadine Gold Project, NU.</u> PROJECT NO: <u>E14103230-01</u> DATE SAMPLED: <u>Apr 29/17</u> By: <u>TW</u> CLIENT: <u>Agnico Eagle Mines Ltd.</u> ATTENTION: <u>Mr. Duy Nguyen</u>	SAMPLE NO: <u>SA44</u> SAMPLE DESCRIPTION: <u>20 mm minus (Type C Mat.)</u> <u>Sampled from belt</u> MOISTURE CONT. : <u>8.5%</u> BULK REL DENSITY: <u>n/a</u> BULK REL. DENSITY (SSD): <u>n/a</u> APPARENT REL. DENSITY: <u>n/a</u> ABSORPTION: <u>n/a</u>
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PARTICLE SIZE	PERCENT PASSING
20	100
12.5	86
10	76
5	61
2	49
0.63	36
0.08	7



Remarks: 20 mm minus particle size distribution limits shown

Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA45
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)
Sampled from belt

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01

MOISTURE CONT. : 7.8%

DATE SAMPLED: Apr 29/17 **By:** IM

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

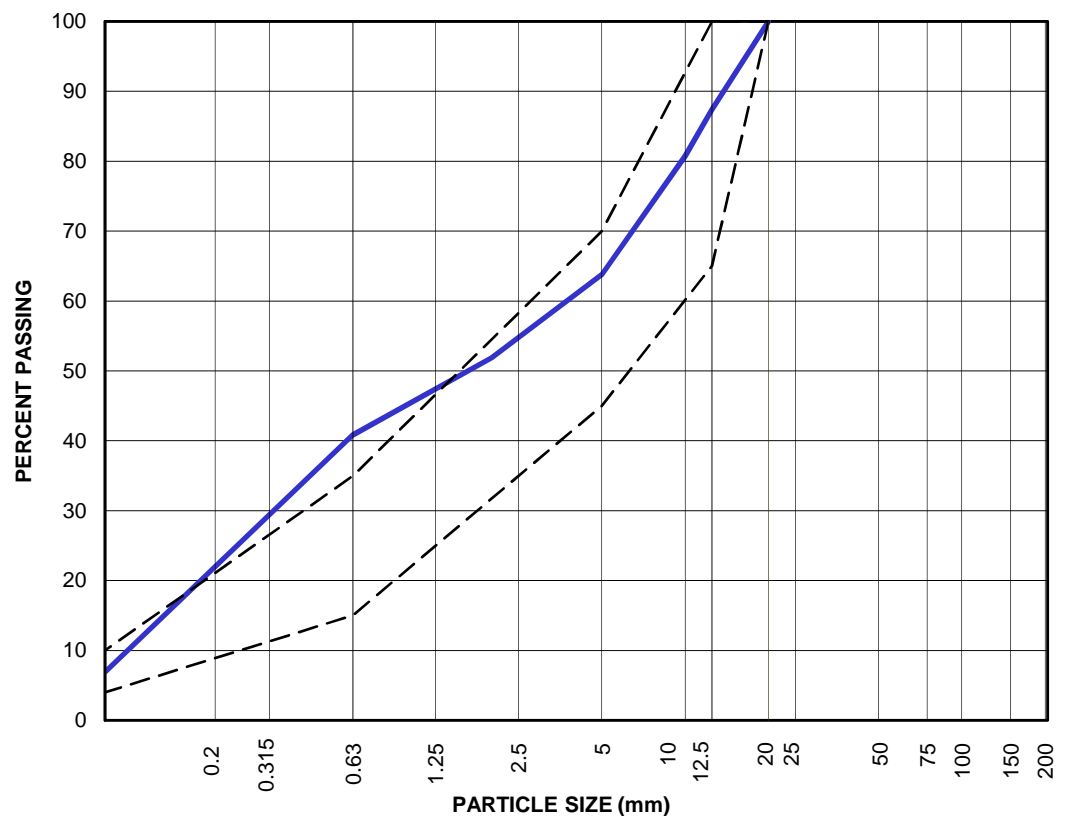
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	87
10	81
5	64
2	52
0.63	41
0.08	7



Remarks: 20 mm minus particle size distribution limits shown

Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA47
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)
Sampled from belt

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01

MOISTURE CONT. : 10.9%

DATE SAMPLED: Apr 30/17 **By:** IM

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

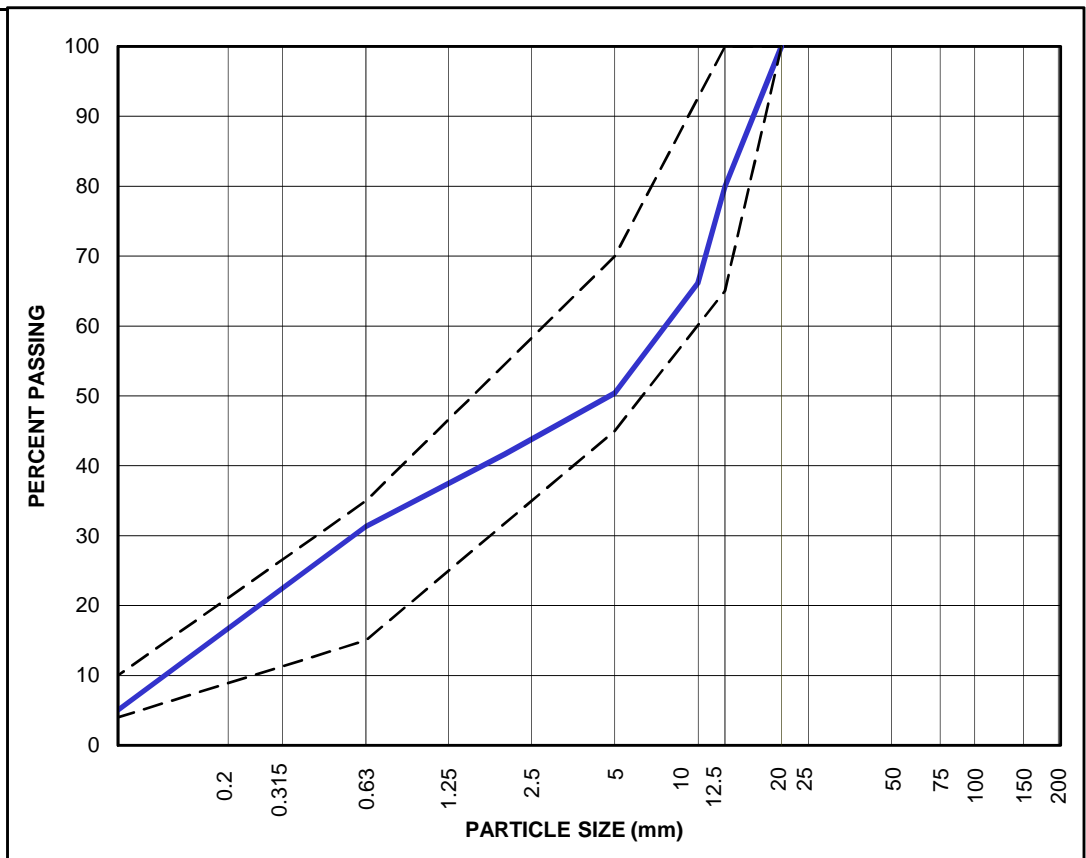
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	80
10	66
5	50
2	42
0.63	31
0.08	5



Remarks:

20 mm minus particle size distribution limits shown

Sampled on Night Shift at 02:00

Reviewed by: _____ P.Eng.

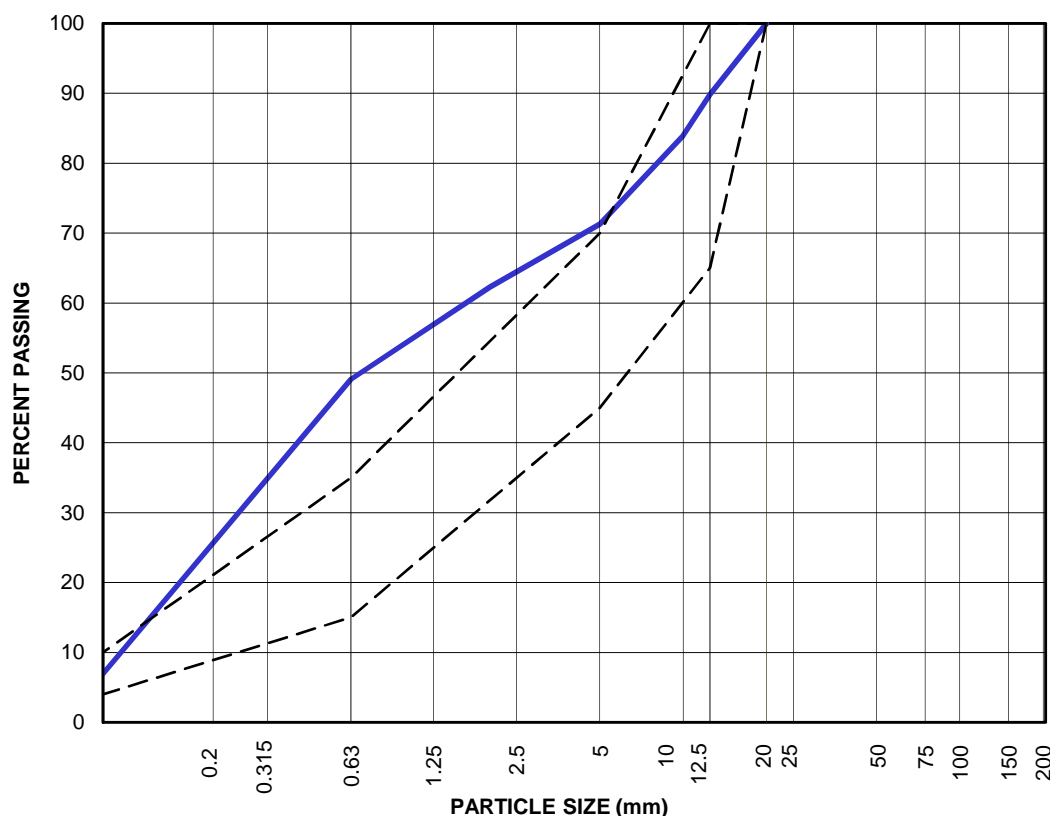
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PARTICLE SIZE ANALYSIS REPORT

PROJECT:	<u>Meliadine Dike Construction</u>	SAMPLE NO:	<u>SA46</u>
		SAMPLE DESCRIPTION:	<u>20 mm minus (Type C Mat.)</u>
			<u>Sampled from belt</u>
ADDRESS:	<u>Meliadine Gold Project, NU.</u>		
PROJECT NO:	<u>E14103230-01</u>	MOISTURE CONT. :	<u>12.6%</u>
DATE SAMPLED:	<u>May 01/17</u> By: <u>TW</u>		
CLIENT:	<u>Agnico Eagle Mines Ltd.</u>	BULK REL DENSITY:	<u>n/a</u>
ATTENTION:	<u>Mr. Duy Nguyen</u>	BULK REL. DENSITY (SSD):	<u>n/a</u>
		APPARENT REL. DENSITY:	<u>n/a</u>
		ABSORPTION:	<u>n/a</u>

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	90
10	84
5	71
2	62
0.63	49
0.08	7



Remarks: 20 mm minus particle size distribution limits shown

The moisture content of 12.6% is higher than the maximum moisture content of 10% specified.

Reviewed by: _____ P.Eng.

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA49
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)
Sampled from belt

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01

MOISTURE CONT. : 5.6%

DATE SAMPLED: May 01/17 **By:** TW

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

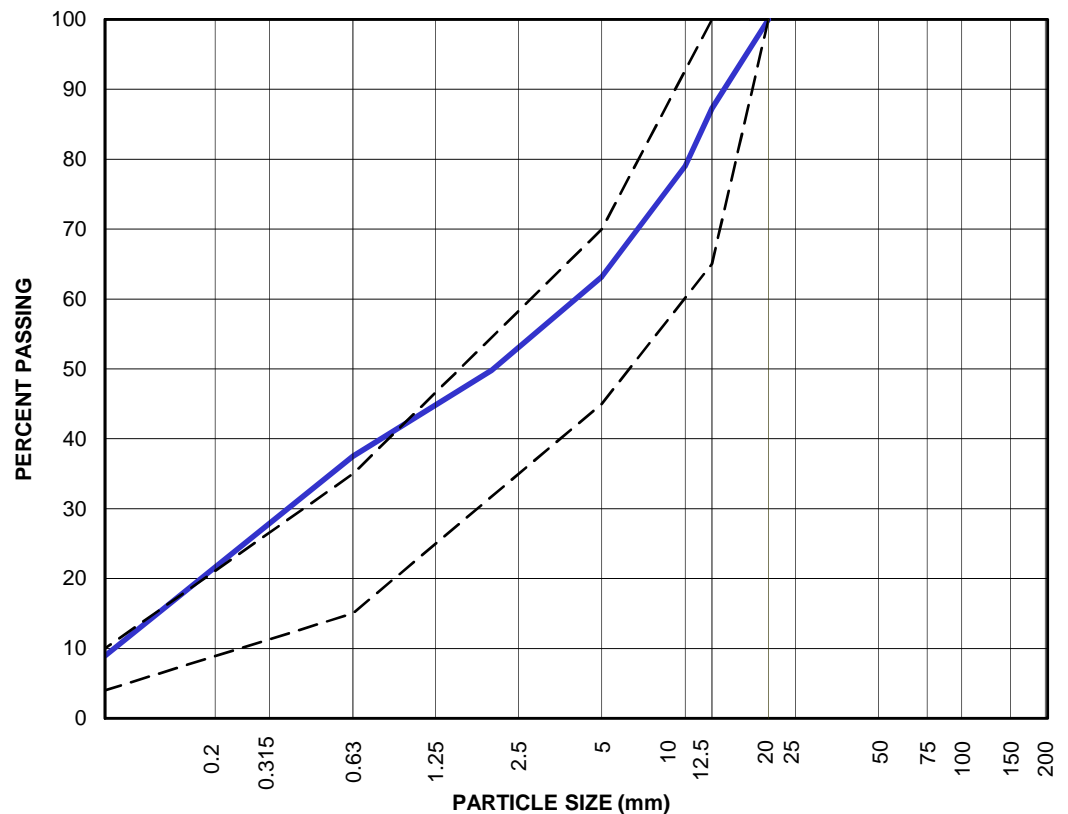
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	87
10	79
5	63
2	50
0.63	38
0.08	9



Remarks: 20 mm minus particle size distribution limits shown

Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT

PROJECT: Meliadine Dike Construction

SAMPLE NO: SA51
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)
Sampled from belt

ADDRESS: Meliadine Gold Project, NU.

PROJECT NO: E14103230-01

MOISTURE CONT. : 14.1%

DATE SAMPLED: May 10/17 **By:** TW

CLIENT: Agnico Eagle Mines Ltd.

BULK REL DENSITY: n/a

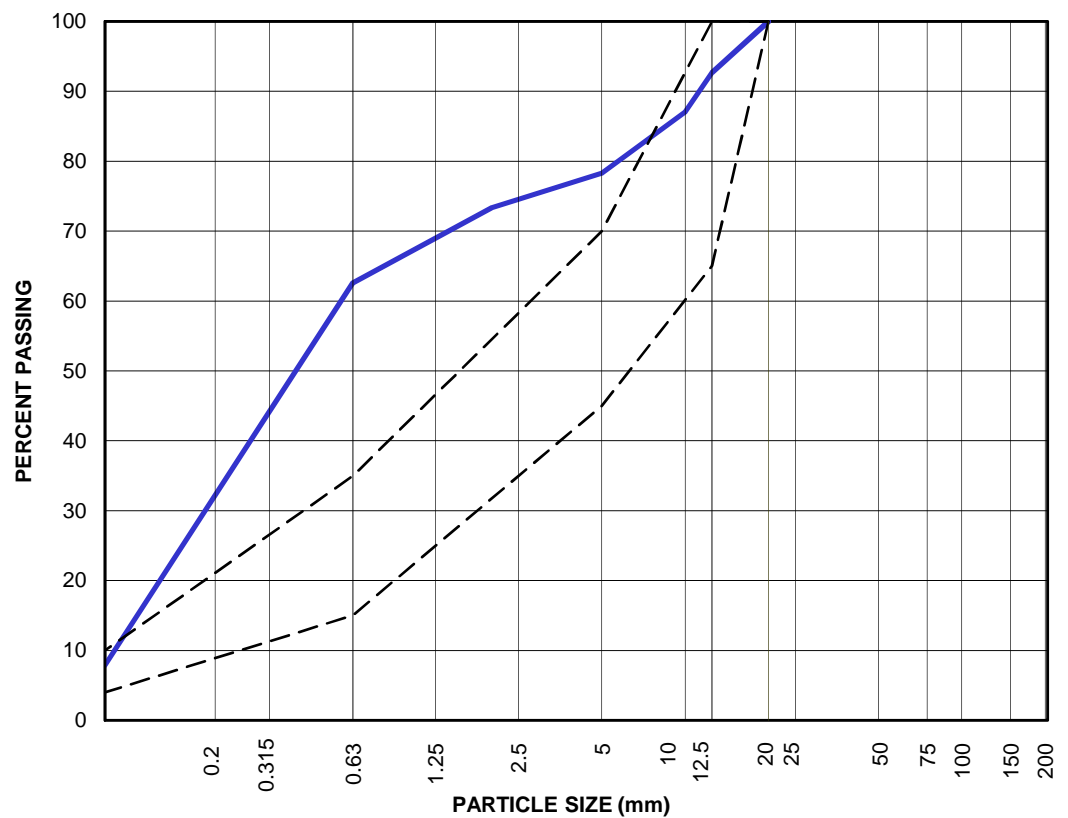
ATTENTION: Mr. Duy Nguyen

BULK REL. DENSITY (SSD): n/a

APPARENT REL. DENSITY: n/a

ABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	93
10	87
5	78
2	73
0.63	63
0.08	8



Remarks: 20 mm minus particle size distribution limits shown

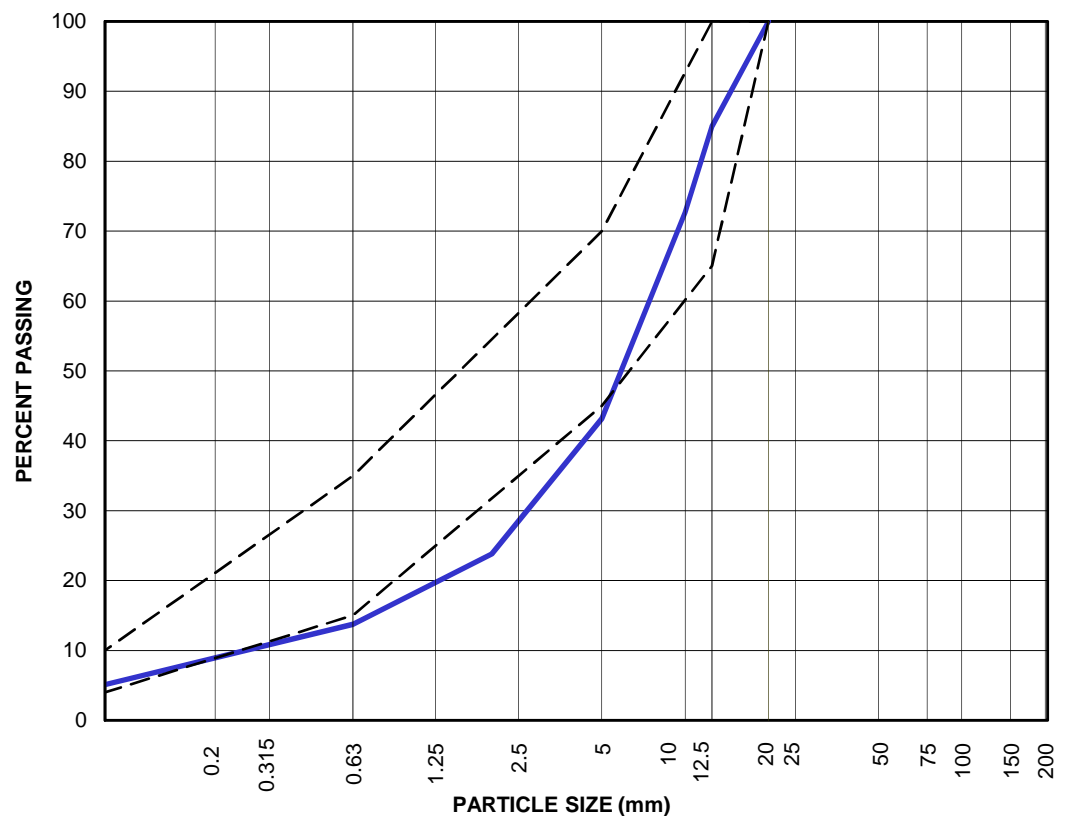
Reviewed by: _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORTPROJECT: Meliadine Dike ConstructionSAMPLE NO: SA52
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)ADDRESS: Meliadine Gold Project, NU.PROJECT NO: E14103230-01MOISTURE CONT. : 1.4%DATE SAMPLED: May 14/17 By: IMCLIENT: Agnico Eagle Mines Ltd.BULK REL DENSITY: n/aATTENTION: Mr. Duy NguyenBULK REL. DENSITY (SSD): n/aAPPARENT REL. DENSITY: n/aABSORPTION: n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	85
10	73
5	43
2	24
0.63	14
0.08	5

Remarks: 20 mm minus particle size distribution limits shownSampled from Stockpile Under BeltNote - Produced during dayshift

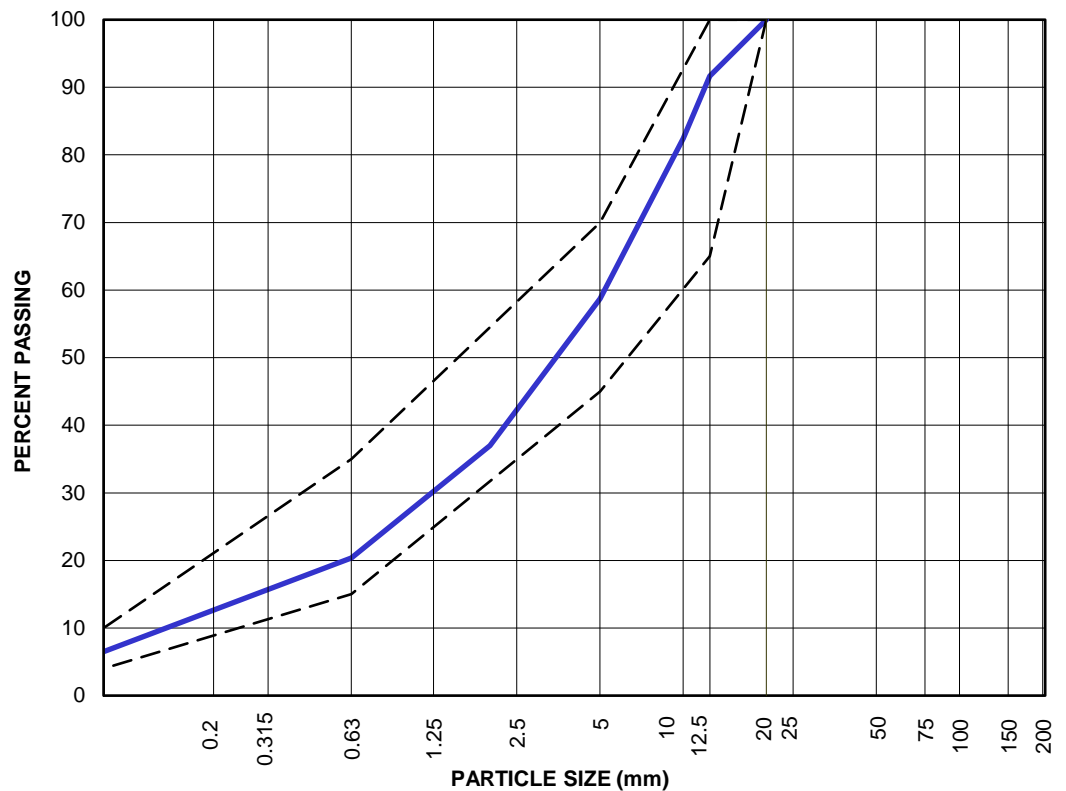
Reviewed by: _____ P.Eng.

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA53
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 2.1%**DATE SAMPLED:** May 15/17 **By:** IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	92
10	82
5	59
2	37
0.63	20
0.08	6

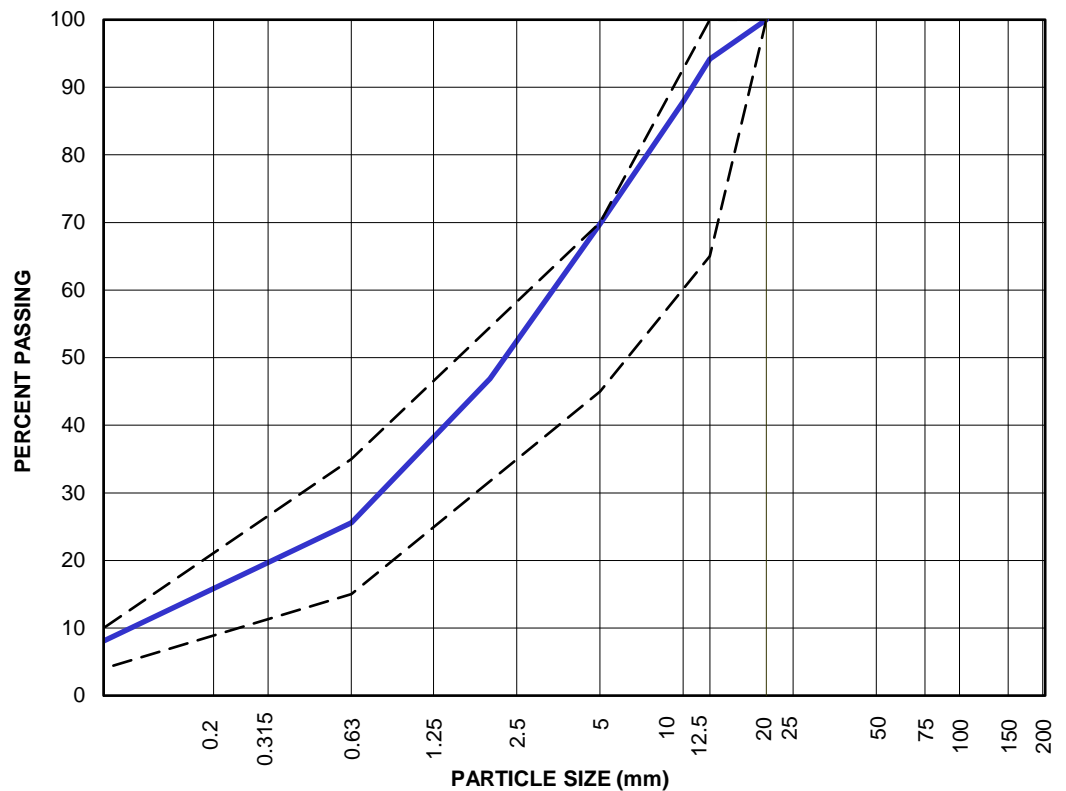
**Remarks:** 20 mm minus particle size distribution limits shownSampled from Stockpile**Note - Produced during dayshift****Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA54
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 2.1%**DATE SAMPLED:** May 16/17 **By:** IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	94
10	88
5	70
2	47
0.63	26
0.08	8

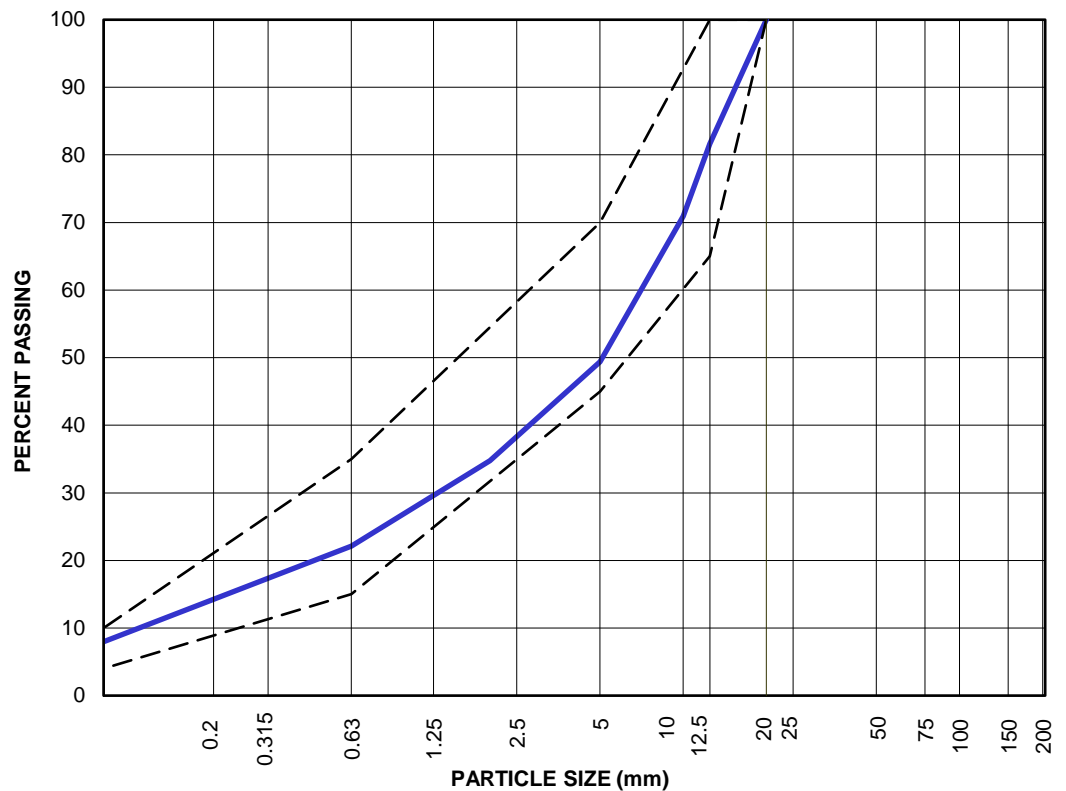
**Remarks:** 20 mm minus particle size distribution limits shownSampled from Stockpile**Note - Produced during dayshift****Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA55
SAMPLE DESCRIPTION: 20 mm minus (Type C Mat.)**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 2.7%**DATE SAMPLED:** May 18/17 **By:** IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	82
10	71
5	49
2	35
0.63	22
0.08	8

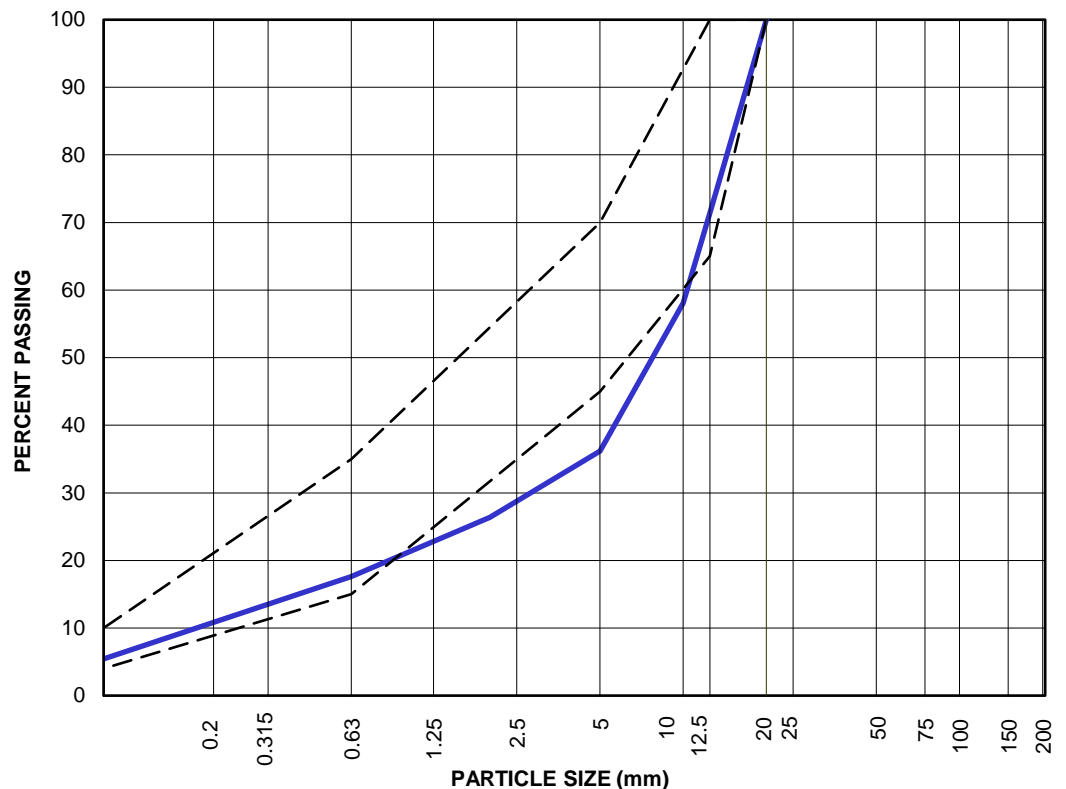
**Remarks:** 20 mm minus particle size distribution limits shownSampled from Stockpile**Note - Produced during nightshift****Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA56**SAMPLE DESCRIPTION:** 20 mm minus (Type C Mat.)**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 2.8%**DATE SAMPLED:** May 19/17 **By:** IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	71
10	58
5	36
2	26
0.63	18
0.08	5

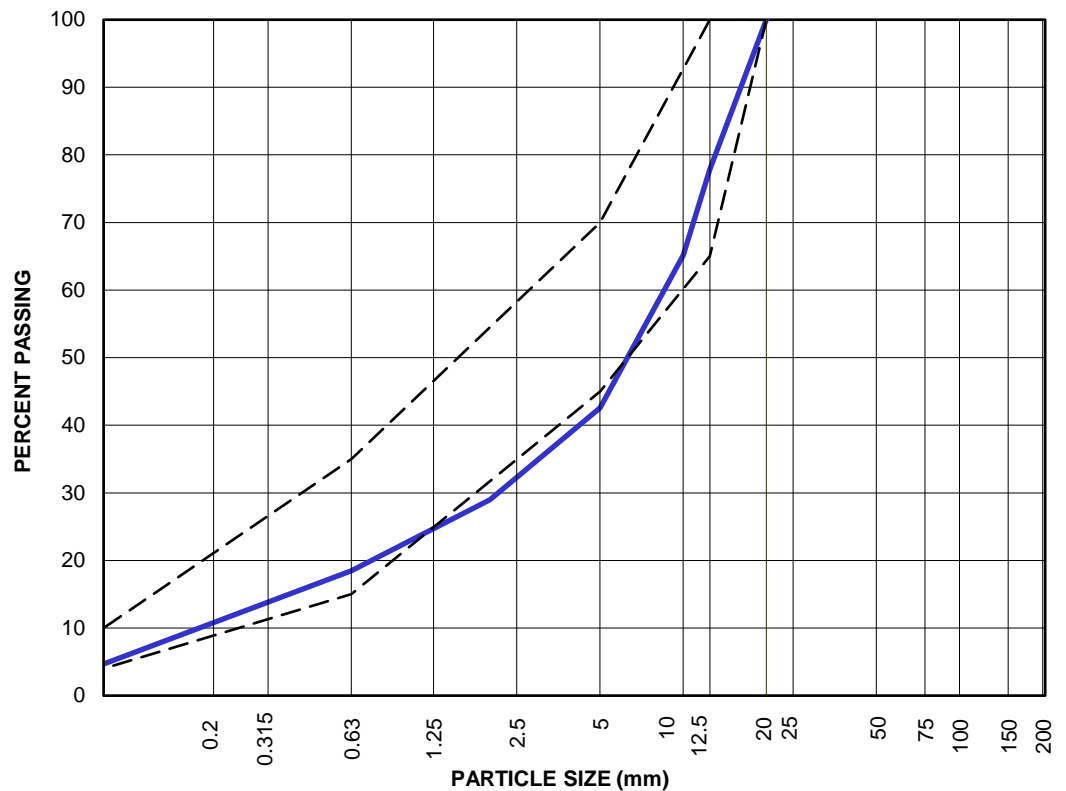
**Remarks:** 20 mm minus particle size distribution limits shownSampled from Stockpile**Note - Produced during dayshift****Reviewed by:** _____ **P.Eng.**

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PARTICLE SIZE ANALYSIS REPORT**PROJECT:** Meliadine Dike Construction**SAMPLE NO:** SA57**SAMPLE DESCRIPTION:** 20 mm minus (Type C Mat.)**ADDRESS:** Meliadine Gold Project, NU.**PROJECT NO:** E14103230-01**MOISTURE CONT. :** 3.9%**DATE SAMPLED:** May 20/17 **By:** IM**CLIENT:** Agnico Eagle Mines Ltd.**BULK REL DENSITY:** n/a**ATTENTION:** Mr. Duy Nguyen**BULK REL. DENSITY (SSD):** n/a**APPARENT REL. DENSITY:** n/a**ABSORPTION:** n/a

PARTICLE SIZE	PERCENT PASSING
20	100
12.5	78
10	65
5	43
2	29
0.63	18
0.08	5

**Remarks:** 20 mm minus particle size distribution limits shownSampled from Stockpile**Note - Produced during dayshift****Reviewed by:** _____ **P.Eng.**

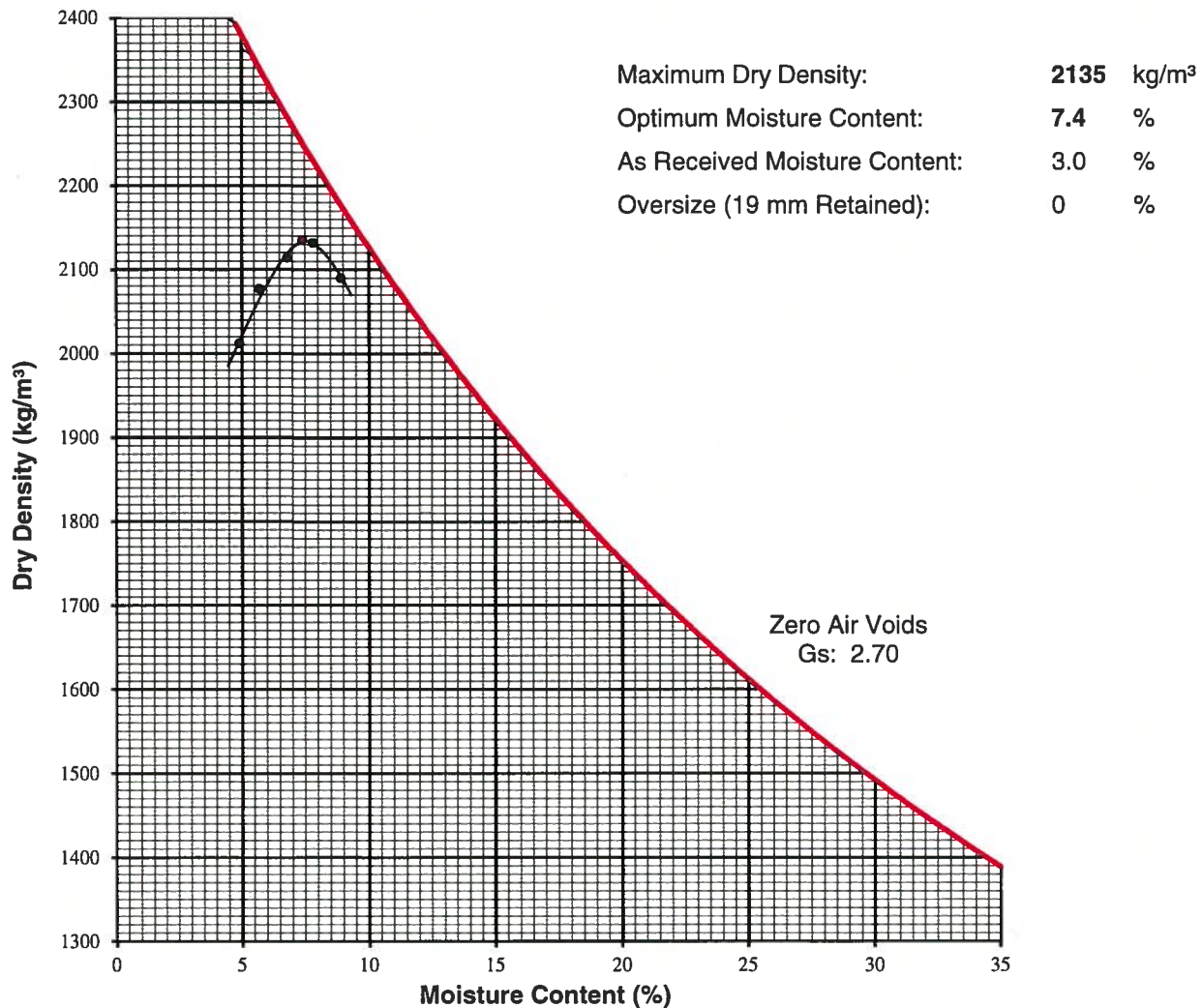
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MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D698 (Standard Proctor)

Project:	Meliadine Gold Project	Sample No.:	Type C, Sample No 1
Project No.:	E14103230-01.023	Sampled By:	Dike QC Team
Client:	Agnico Eagle Mines Ltd	Date Received:	7-Mar-17
Attention:		Test Date:	9-Mar-17
E-mail:		Test By:	MA
Source:	Meliadine Project, Dike Construction	Test Method:	C (Manual)
Sample Location:	Type C Stockpile		
Sample Description:	SAND, some gravel, trace silt, brown		



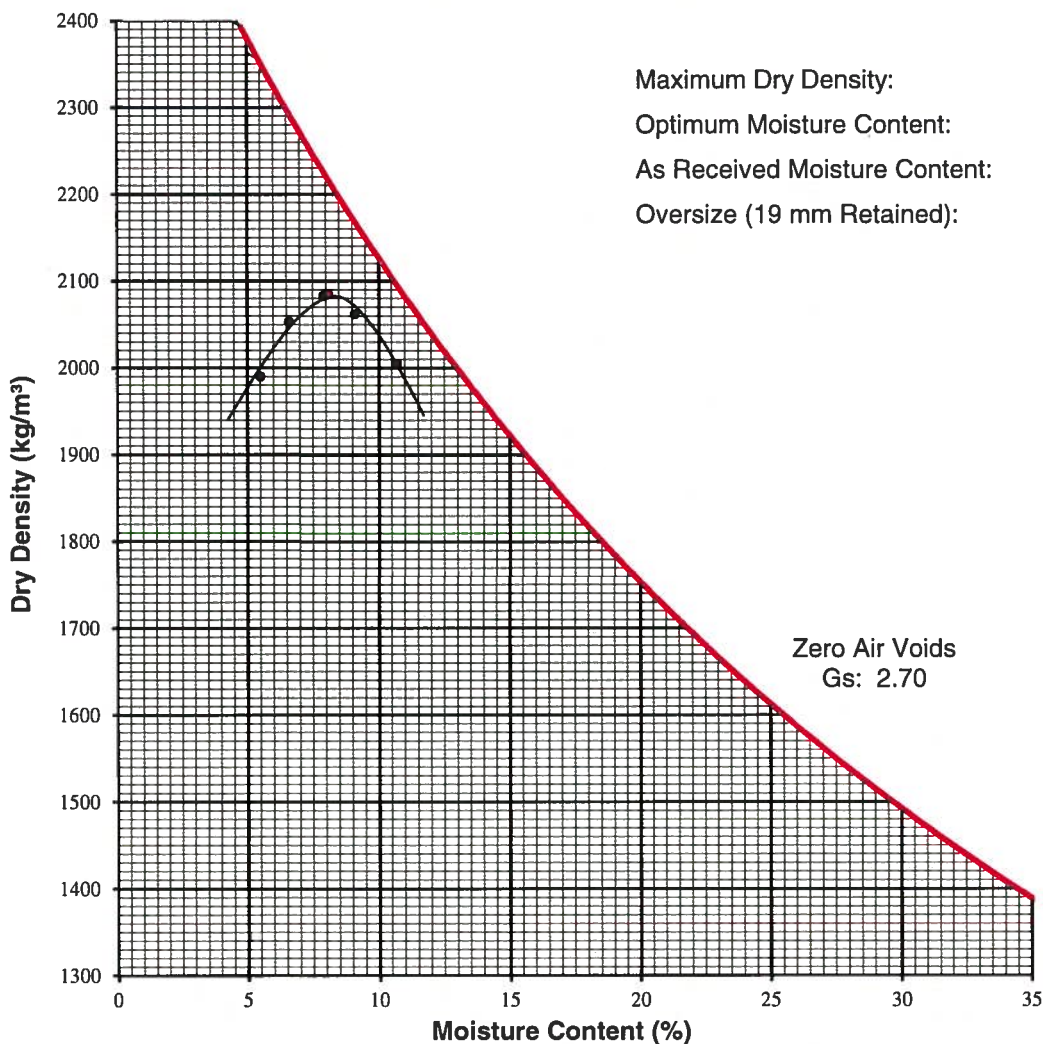
Remarks:

Reviewed By: AS P.Eng.

MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D698 (Standard Proctor)

Project:	Meliadine Gold Project	Sample No.:	Type C, Sample No 2
Project No.:	E14103230-01.023	Sampled By:	Dike QC Team
Client:	Agnico Eagle Mines Ltd	Date Received:	7-Mar-17
Attention:		Test Date:	9-Mar-17
E-mail:		Test By:	MA
Source:	Meliadine Project, Dike Construction	Test Method:	C (Manual)
Sample Location:	Type C Stockpile		
Sample Description:	SAND, some gravel, trace silt, brown		



Remarks:

Reviewed By: AS P.Eng.

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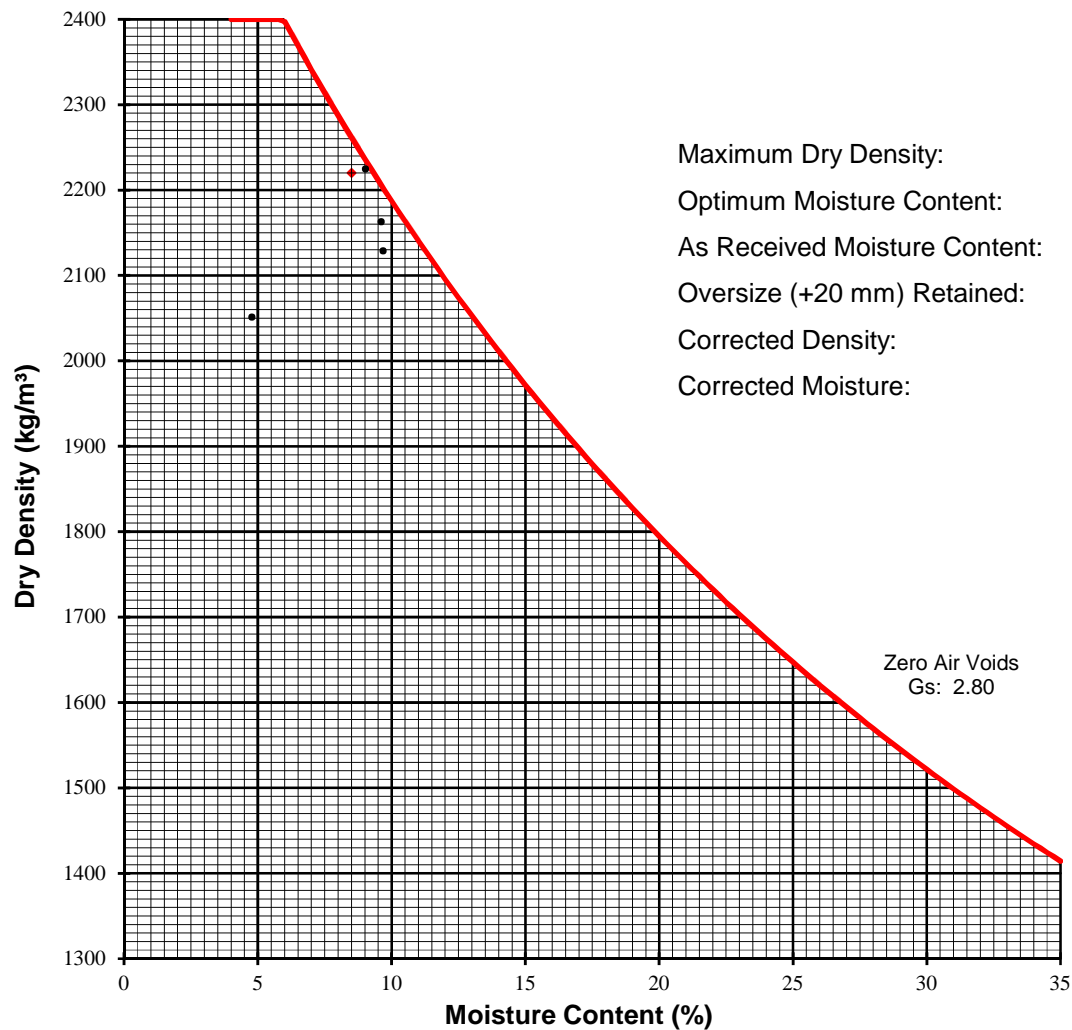


MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D698 Standard

Project: Meliadine Dike Construction
 Client: Agnico Eagle
 Attention:
 Project No.: E14103230-01
 Description: 20mm minus
 Source: On-Site Stockpile

Sample No.: SA01
 Sampled By: TW
 Sample Date: October 23, 2016
 Test Date: October 23, 2016
 Preparation: Moist
 Compaction: Manual



Remarks:

Reviewed By: C.E.T.

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MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D698 Standard

Project: Meliadine Dike Construction

Client: Agnico Eagle

Attention: Duy Nguyen

Project No.: E14103230-01

Description: Type C (20mm agg.)

Source: Crusher

Sample No.: SA02

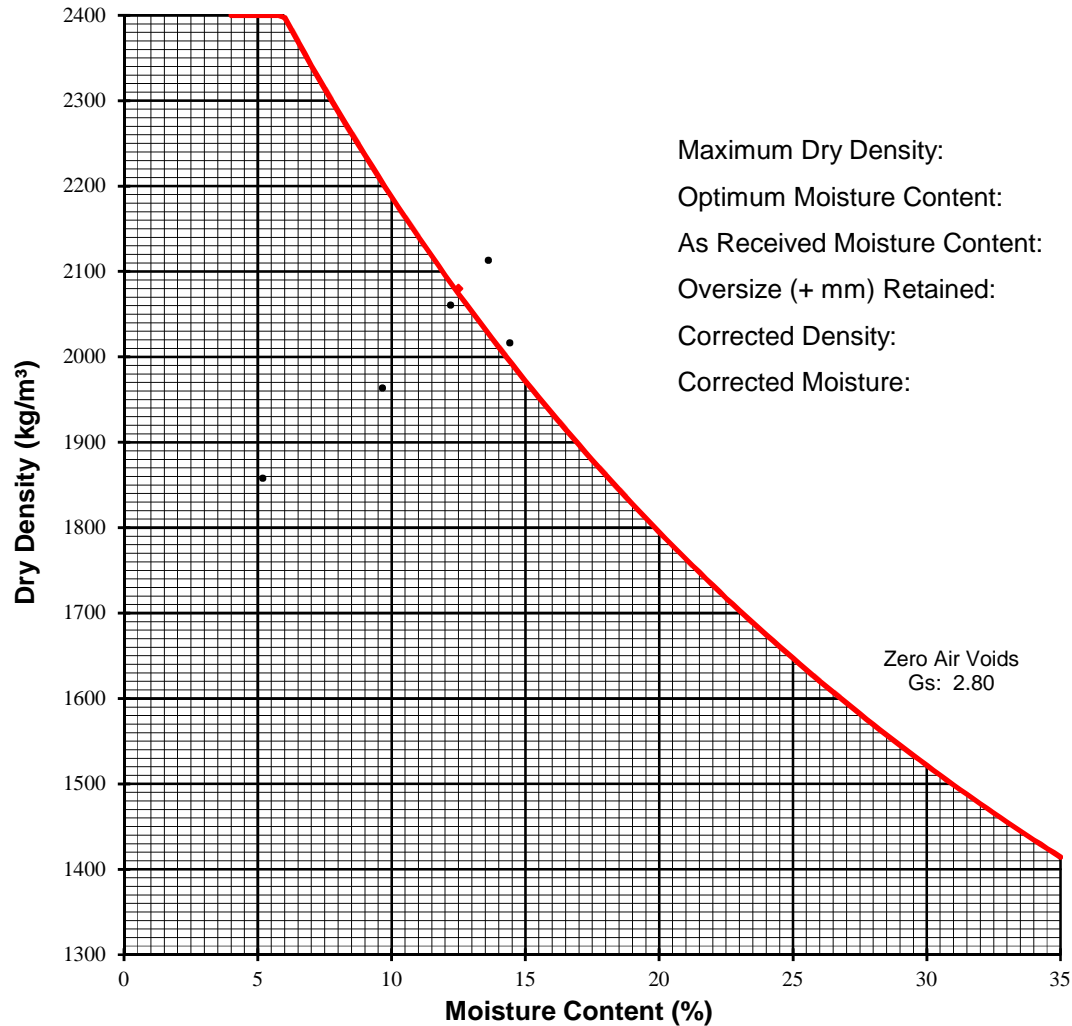
Sampled By: TW

Sample Date: November 8, 2016

Test Date: November 8, 2016

Preparation: Moist

Compaction: Manual



Remarks:

Reviewed By: _____ C.E.T.

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MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D698 Standard

Project: Meliadine Dike Construction

Client: Agnico Eagle

Attention: Duy Nguyen

Project No.: E14103230-01.023

Description: Type C (20 mm agg.)

Source: Crusher

Sample No.: SA03

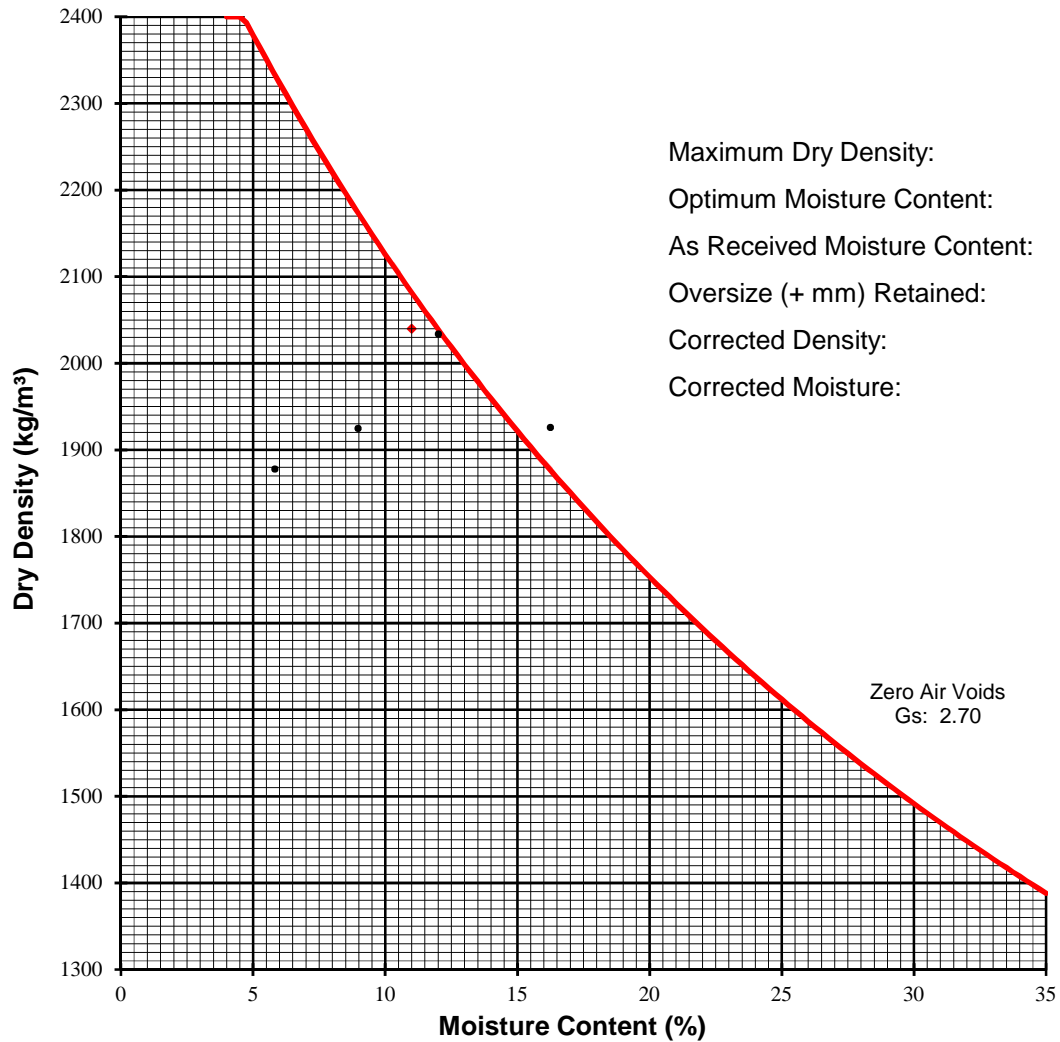
Sampled By: IM

Sample Date: November 30, 2016

Test Date: November 30, 2016

Preparation: Moist

Compaction: Manual



Remarks: Same material used for Sieve Sample SA37

Reviewed By: _____ C.E.T.

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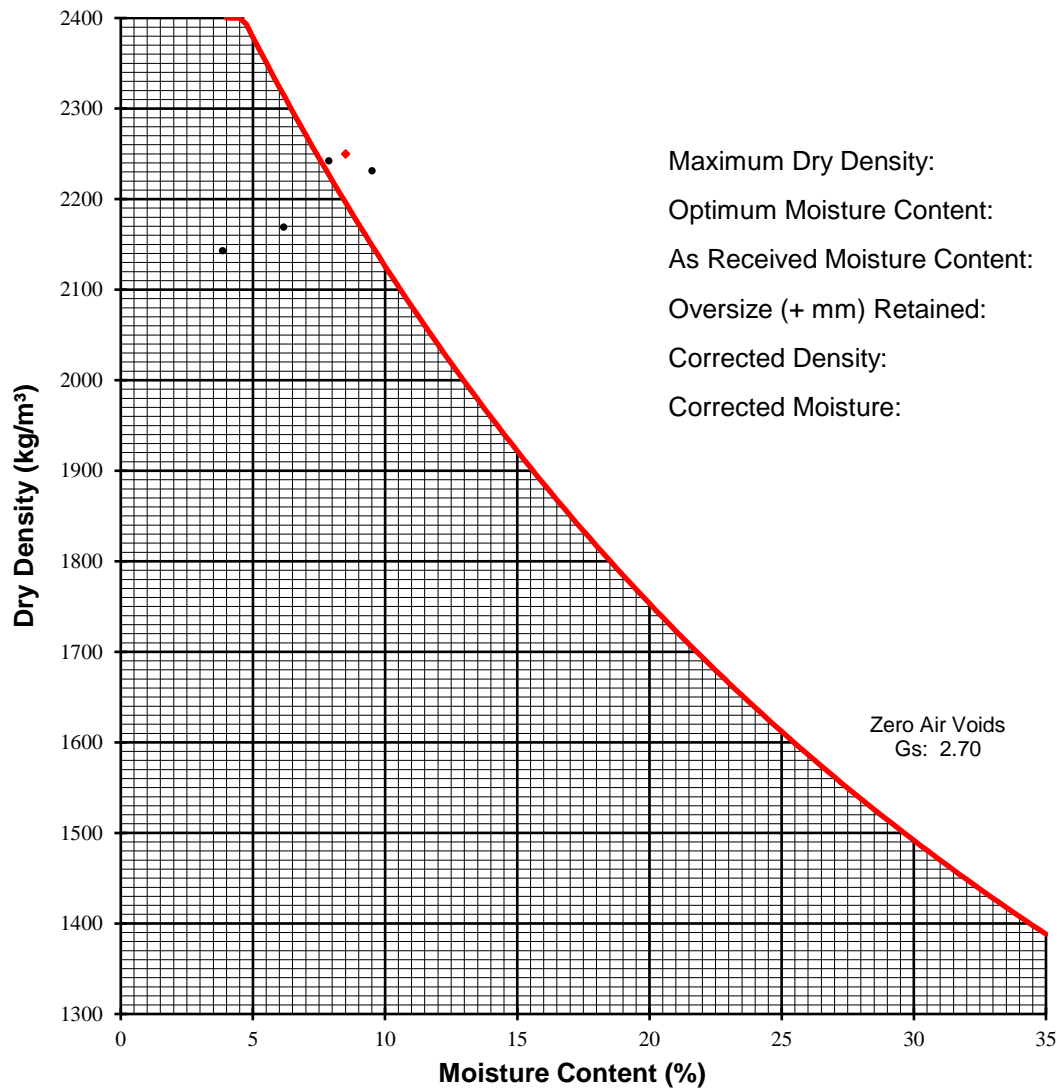


MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D698 Standard

Project: Meliadine Dike Construction
Client: Agnico Eagle
Attention: Duy Nguyen
Project No.: E14103230-01
Description: Type C (20mm agg.)
Source: Stockpile

Sample No.: SA04
Sampled By: TW
Sample Date: March 29, 2017
Test Date: March 29, 2017
Preparation: Moist
Compaction: Manual



Maximum Dry Density: **2250** kg/m³
Optimum Moisture Content: **8.5** %
As Received Moisture Content: %
Oversize (+ mm) Retained: %
Corrected Density: **2080** %
Corrected Moisture: **8.5** %

Zero Air Voids
Gs: 2.70

Remarks: _____

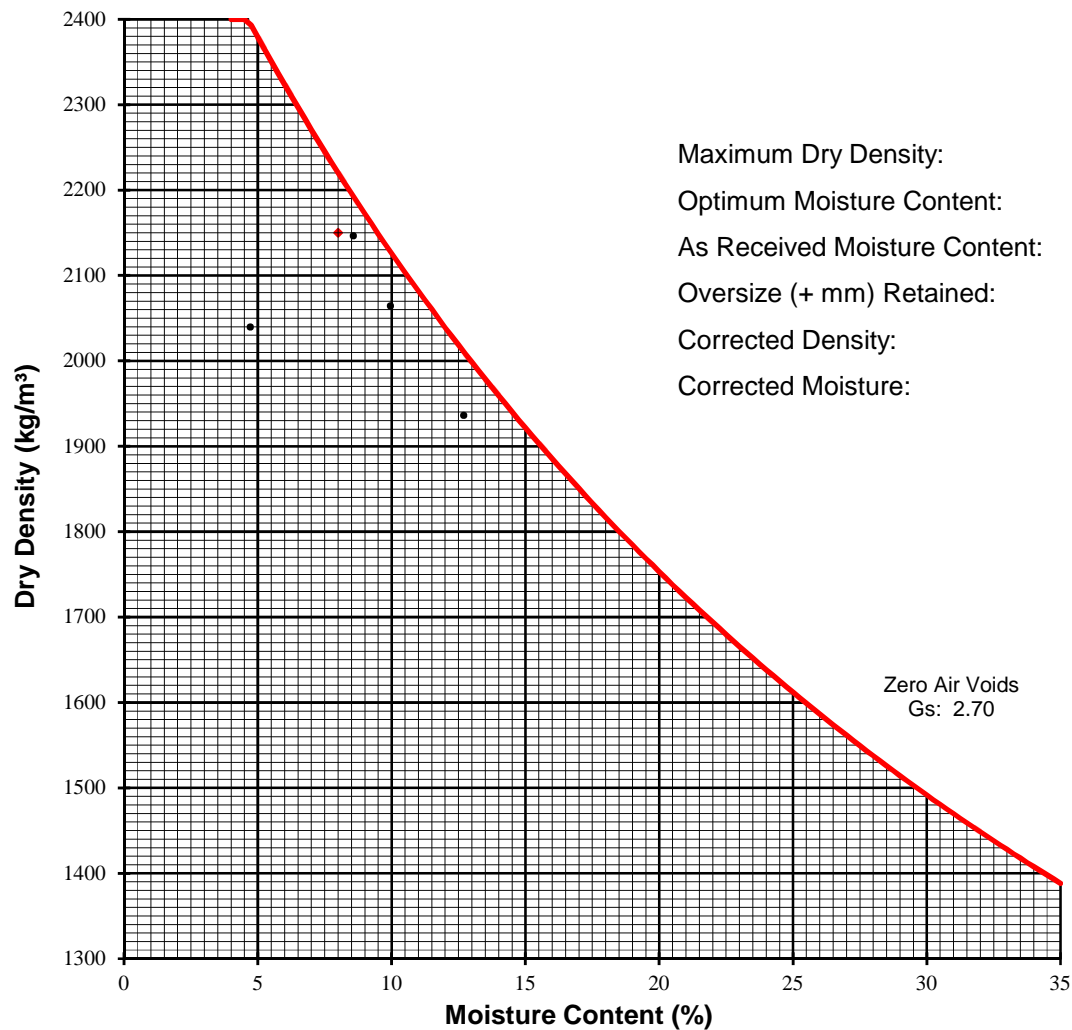
Reviewed By: _____ C.E.T.

MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT

ASTM D698 Standard

Project: Meliadine Dike Construction
 Client: Agnico Eagle
 Attention: Duy Nguyen
 Project No.: E14103230-01 Task 023
 Description: Type C (20mm minus)
 Source: Type C Stockpile

Sample No.: SA07
 Sampled By: TW
 Sample Date: May 1, 2017
 Test Date: May 1, 2017
 Preparation: Moist
 Compaction: Manual



Remarks: _____

Reviewed By: _____ C.E.T.

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Table E2.1: Moisture Content Results for Granular Fill (20 mm minus) Material - Type C

Sample No.	Date Tested	Moisture Content (%)	Sample Source
SA01	22-Oct-16	9.3	sampled from belt
SA02	22-Oct-16	7.1	sampled from belt
SA03	22-Oct-16	5.4	sampled from belt
SA04	22-Oct-16	8.7	sampled from belt
SA05	22-Oct-16	6.0	sampled from belt
SA06	24-Oct-16	5.5	sampled from belt
SA07	24-Oct-16	6.3	sampled from belt
SA08	25-Oct-16	5.0	sampled from belt
SA09	26-Oct-16	8.4	sampled from belt
SA10	27-Oct-16	7.1	sampled from belt
SA11	29-Oct-16	6.1	sampled from belt
SA12	01-Nov-16	7.6	sampled from belt
SA13	02-Nov-16	11.0	sampled from belt
SA14	03-Nov-16	5.3	sampled from belt
SA15	05-Nov-16	4.2	sampled from belt
SA16	06-Nov-16	4.9	sampled from belt
SA17	07-Nov-16	8.0	sampled from belt
SA18	08-Nov-16	4.5	sampled from belt
SA19	09-Nov-16	9.4	sampled from belt
SA20	10-Nov-16	9.4	sampled from belt
SA21	12-Nov-16	10.0	sampled from belt
SA22	13-Nov-16	9.9	sampled from belt
SA23	14-Nov-16	5.1	sampled from belt
SA24	17-Nov-16	8.2	sampled from belt
SA25	17-Nov-16	12.4	sampled from stockpile
SA26	17-Nov-16	11.5	sampled from stockpile
SA27	19-Nov-16	11.2	sampled from stockpile
SA28	19-Nov-16	9.2	sampled from stockpile
SA29	19-Nov-16	11.9	sampled from belt
SA30	21-Nov-16	11.1	sampled from belt
SA31	23-Nov-16	4.5	sampled from belt
SA32	23-Nov-16	10.3	sampled from belt
SA33	26-Nov-16	7.5	sampled from stockpile
SA34	26-Nov-16	6.7	sampled from belt
SA35	26-Nov-16	8.0	sampled from stockpile
SA36	29-Nov-16	7.1	sampled from belt
SA37	30-Nov-16	14.3	sampled from belt
SA38	02-Dec-16	13.3	sampled from belt
SA39	03-Dec-16	13.8	sampled from belt
SA40	05-Dec-16	14.4	sampled from belt
SA41	11-Mar-17	6.7	sampled from stockpile
SA42	12-Mar-17	8.2	sampled from belt
SA43	18-Apr-17	11.5	sampled from spread
SA44	29-Apr-17	8.5	sampled from belt
SA45	29-Apr-17	7.8	sampled from belt
SA46	30-Apr-17	6.9	sampled from belt
SA47	30-Apr-17	10.9	sampled from belt
SA48	01-May-17	12.6	sampled from belt

SA49	01-May-17	5.6	sampled from belt
SA50	09-May-17	2.4	sampled from belt
SA51	10-May-17	14.1	sampled from belt
SA52	14-May-17	1.4	sampled from belt
SA53	15-May-17	2.1	sampled from stockpile
SP1	16-Jan-17	15.3	Sampled from stockpile at Mix Pit
SP2	16-Jan-17	15.5	Sampled from stockpile at Mix Pit
SP3	16-Jan-17	8.4	Sampled from North Crusher Stockpile
SP4	16-Jan-17	5.6	Sampled from North Crusher Stockpile
SP5	16-Jan-17	4.2	Sampled from North Crusher Stockpile
SP6	16-Jan-17	6.4	Sampled from North Crusher Stockpile
SP7	16-Jan-17	5.7	Sampled from North Crusher Stockpile
SP8	16-Jan-17	5.3	Sampled from North Crusher Stockpile
SP9	16-Jan-17	16.3	Sampled from Middle Crusher Stockpile, North End
SP10	16-Jan-17	6.2	Sampled from Middle Crusher Stockpile, North End
SP11	16-Jan-17	6.9	Sampled from South Crusher Stockpile
SP12	16-Jan-17	9.4	Sampled from South Crusher Stockpile
SP13	16-Jan-17	8.2	Sampled from South Crusher Stockpile
SP14	16-Jan-17	13.3	Sampled from East Crusher Stockpile
SP15	16-Jan-17	8.7	Sampled from East Crusher Stockpile
SP16	18-Jan-17	6.3	Sampled from Type K Mixing Station
SP17	18-Jan-17	6.8	Sampled from Type K Mixing Station
SP18	18-Jan-17	7.3	Sampled from Type K Mixing Station
SP19	29-Jan-17	10.2	Sampled from reject pile North of Type F Mixing Station
SP20	29-Jan-17	16.9	Sampled from reject pile North of Type F Mixing Station
SP21	29-Jan-17	16.3	Sampled from reject pile North of Type F Mixing Station
SP22	30-Jan-17	7.7	Sampled from stockpile North of Type F Mixing Station
SP23	30-Jan-17	6.3	Sampled from stockpile North of Type F Mixing Station
SP24	31-Jan-17	7.7	Sampled from stockpile used for Type F
SP25	31-Jan-17	7.0	Sampled from stockpile used for Type F
SP26	01-Feb-17	8.2	Sampled from stockpile North of Type F Mixing Station
SP27	11-Feb-17	6.7	Dike D-CP1 fillet zone Station 0+300, -0.3 m
SP28	11-Feb-17	7.4	Dike D-CP1 fillet zone Station 0+340, -0.3 m
SP29	11-Feb-17	6.9	Dike D-CP1 fillet zone Station 0+380, -0.3 m
SP30	16-Mar-17	8.3	Dike D-CP1 first lift over liner Station 0+425
SP31	05-Apr-17	8.2	Recyled Type C from Stockpile
SP32	05-Apr-17	9.0	Recyled Type C from Stockpile
SP33	05-Apr-17	9.1	Recyled Type C from Stockpile
SP34	07-Apr-17	9.2	Recyled Type C from Stockpile
SP35	07-Apr-17	11.8	Recyled Type C from Stockpile
SP36	08-Apr-17	11.4	Recyled Type C from Stockpile
SP37	08-Apr-17	11.5	Recyled Type C from Stockpile
SP38	09-Apr-17	9.2	Recyled Type C from Stockpile
SP39	09-Apr-17	8.6	Recyled Type C from Stockpile
SP40	02-May-17	8.2	Sampled from Type C Stockpile 1
SP41	02-May-17	7.9	Sampled from Type C Stockpile 1
SP42	02-May-17	9.3	Sampled from Type C Stockpile 5
SP43	02-May-17	16.2	Sampled from Type C Stockpile 3 - Material Rejected
SP44	02-May-17	19.8	Sampled from Type C Stockpile 3 - Material Rejected
SP45	05-May-17	6.9	Sampled from Type C stockpile floor
SP46	05-May-17	6.5	Sampled from Type C stockpile floor

SP47	05-May-17	8.4	Sampled from Type C stockpile floor
SP48	13-May-17	5.4	Sampled from Type C stockpile
SP49	13-May-17	4.2	Sampled from Type C stockpile
SP50	13-May-17	3.3	Sampled from Type C stockpile
SP51	13-May-17	4.0	Sampled from Type C stockpile

Average Moisture Content	8.6%
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Table E2.2: Frozen / In-situ Single Point Proctors for Type C Material											
Date/Shift	Material Type	Sample	Mass of Soil in Mold (g)	Mold Volume (cm2)	Frozen Compacted Density (kg/m3)	Mass of Weight Soil and Tare (g)	Mass of Tare (g)	Mass of Dry Soil and Tare (g)	Moisture Content (%)	Dry Density (kg/m3)	Comments
Nov 26, 2016 / NS	Type C	SA01	4056.8	2122.5	1911	3701.3	1650.9	3568.8	6.9	1788	
Mar 5, 2017 / DS	Type C	SA02	3844.0	2122.5	1811	410.8	15.8	382.6	7.7	1682	Type C stockpile at Type F mixing station
Mar 7, 2017 / DS	Type C	SA03	3712.0	2122.5	1749	417.0	16.7	383.7	9.1	1603	Type C stockpile at Type F mixing station
Mar 11, 2017 / DS	Type C	SA04	3874.0	2122.5	1825	670.6	16.9	629.3	6.7	1710	Type C stockpile at Type F mixing station
Mar 12, 2017 / DS	Type C	SA05	3794.0	2122.5	1788	361.5	15.8	332.5	9.2	1638	Type C stockpile at Type F mixing station
April 5, 2017 / NS	Type C	SA06	3858.9	2122.5	1818	3509.4	1651.2	3377.4	7.6	1689	Type C used at DCP5 for U/S fillet
April 17, 2017 / DS	Type C	SA07	3890.0	2122.5	1833	5508.0	1634.0	5130.0	10.8	1654	Type C used at DCP 5 for U/S fillet between Stations 0+210 and 0+270
April 18, 2017 / DS	Type C	SA08	3694.0	2122.5	1740	4334.0	690.0	3934.0	12.3	1549	Sampled from U/s Type C fillet at D-CP5; Station ~0+280
April 30, 2017 / NS	Type C	SA09	3759.0	2126.6	1768	3562.5	695.5	3281.6	10.9	1594	Sampled from crusher belt

D-CP5 Type C Material Field Density Testing (Nuclear Densometer) Summary

Date	Density Test #	Tech	Probe Depth (mm)	Station	Depth from OG (m)	Wet Density (Mg/m3)	Moisture Content (%)	Dry Density (M/m3)	Single Point Frozen Proctor Dry Density (kg/m3)	% SPFPDD	Standard Proctor Maximum Dry Density (kg/m3)	% SPMDDD	Comments (All tests approx. along Centreline unless otherwise noted)
2017-04-01	1	TW	200	0+015	0.9	1969	6.2	1854	1685	110.0	2100	88.3	1st lift of Type C U/S fillet (below liner) -frozen
2017-04-01	2	TW	200	0+005	0.9	1908	6.4	1793	1685	106.4	2100	85.4	1st lift of Type C U/S fillet (below liner) -frozen
2017-04-01	3	TW	200	0+020	0.9	1900	6.2	1789	1685	106.2	2100	85.2	1st lift of Type C U/S fillet (below liner) -frozen
2017-04-01	4	TW	200	0+035	0.9	1936	6.3	1821	1685	108.1	2100	86.7	1st lift of Type C U/S fillet (below liner) -frozen
2017-04-02	5	WW	200	0+045	0.8	1836	6.8	1719	1685	102.0	2100	81.9	2nd lift Type C us fillet - frozen
2017-04-02	6	WW	200	0+020	0.8	1840	6.3	1731	1685	102.7	2100	82.4	2nd lift Type C us fillet - frozen
2017-04-02	7	WW	200	0+055	0.6	1856	6.2	1748	1685	103.7	2100	83.2	3rd lift Type C us fillet - frozen
2017-04-02	8	WW	200	0+025	0.6	1966	6.1	1853	1685	110.0	2100	88.2	3rd lift Type C us fillet - frozen
2017-04-03	9	WW	200	0+070	0.4	1852	6.4	1741	1685	103.3	2100	82.9	4th lift u/s fillet - frozen
2017-04-03	10	WW	200	0+030	0.4	1864	6.4	1752	1685	104.0	2100	83.4	4th lift u/s fillet - frozen
2017-04-03	11	WW	200	0+060	0.4	1880	6.5	1765	1685	104.8	2100	84.1	4th lift u/s fillet - frozen
2017-04-03	12	WW	200	0+023	0.4	1840	7.5	1712	1685	101.6	2100	81.5	4th lift u/s fillet - frozen
2017-04-03	13	WW	200	0+035	0.2	1858	7.4	1730	1685	102.7	2100	82.4	5th lift u/s fillet
2017-04-03	14	WW	200	0+035	0.2	1881	6.6	1765	1685	104.7	2100	84.0	6th lift u/s fillet
2017-04-03	15	WW	200	0+035	0.2	1894	6.4	1780	1685	105.6	2100	84.8	7th lift u/s fillet
2017-04-03	16	WW	200	0+035	0.2	1861	7.3	1734	1685	102.9	2100	82.6	8th lift u/s fillet
2017-04-03	17	TW	200	0+085	1.05	1842	7.0	1721	1685	102.2	2100	82.0	1st lift of Type C U/S fillet (below liner) -frozen
2017-04-03	18	TW	200	0+097	1.05	1876	6.7	1758	1685	104.3	2100	83.7	1st lift of Type C U/S fillet (below liner) -frozen
2017-04-03	19	TW	200	0+113	1.05	1952	5.3	1854	1685	110.0	2100	88.3	1st lift of Type C U/S fillet (below liner) -frozen
2017-04-03	20	TW	200	0+081	0.75	1925	5.6	1823	1685	108.2	2100	86.8	2nd lift of Type C U/S fillet (below liner) -frozen
2017-04-03	21	TW	200	0+098	0.75	1877	6.9	1756	1685	104.2	2100	83.6	2nd lift of Type C U/S fillet (below liner) -frozen
2017-04-03	22	TW	200	0+098	0.75	1857	7.0	1736	1685	103.0	2100	82.6	2nd lift of Type C U/S fillet (below liner) -frozen
2017-04-03	23	TW	200	0+098	0.75	1838	5.4	1744	1685	103.5	2100	83.0	2nd lift of Type C U/S fillet (below liner) -frozen
2017-04-03	24	TW	200	0+098	0.75	1865	5.9	1761	1685	104.5	2100	83.9	2nd lift of Type C U/S fillet (below liner) -frozen
2017-04-03	25	TW	200	0+080	0 (OG)	1835	5.6	1738	1685	103.1	2100	82.7	4th lift of Type C U/S fillet (below liner) -frozen
2017-04-03	26	TW	200	0+108	0 (OG)	1863	6.2	1754	1685	104.1	2100	83.5	4th lift of Type C U/S fillet (below liner) -frozen
2017-04-04	27	WW	200	0+122	0.9	1938	5.6	1835	1685	108.9	2100	87.4	u/s fillet 1st lift
2017-04-04	28	WW	200	0+127	0.2	1974	6.0	1862	1685	110.5	2100	88.7	u/s fillet final lift
2017-04-05	29	WW	200	0+170	0.75	1921	4.9	1831	1685	108.7	2100	87.2	u/s fillet 1st lift
2017-04-05	30	TW	200	0+182	0.3	1812	6.3	1705	1685	101.2	2100	81.2	2nd lift of Type C U/S fillet (below liner) -frozen
2017-04-05	31	TW	200	0+192	0.3	1824	6.7	1709	1685	101.5	2100	81.4	2nd lift of Type C U/S fillet (below liner) -frozen
2017-04-06	32	WW	200	0+153	0.2	1926	5.3	1829	1685	108.5	2100	87.1	top lift of Type C us fillet
2017-04-06	33	WW	200	0+185	0.4	1891	5.7	1789	1685	106.2	2100	85.2	us fillet Type C underliner - frozen
2017-04-06	34	WW	200	0+185	0.4	1895	5.7	1793	1685	106.4	2100	85.4	us fillet Type C underliner - frozen
2017-04-06	35	WW	200	0+185	0.4	1913	5.6	1812	1685	107.5	2100	86.3	us fillet Type C underliner - frozen
2017-04-06	36	WW	200	0+185	0.4	1929	5.9	1822	1685	108.1	2100	86.7	us fillet Type C underliner - frozen
2017-04-15	37	WW	200	0+210	0.4	1840	7.5	1712	1685	101.6	2100	81.5	us fillet Type C underliner
2017-04-16	38	IM	200	0+260	1.8	1864	7.3	1737	1685	103.1	2100	82.7	3rd Lift Type C U/S Fillet - Frozen
2017-04-16	39	IM	200	0+245	1.5	1850	6.9	1731	1685	102.7	2100	82.4	4th Lift Type C U/S Fillet - Frozen
2017-04-16	40	IM	200	0+230	1.5	1857	7.5	1727	1685	102.5	2100	82.3	4th Lift Type C U/S Fillet - Frozen
2017-04-22	41	TW	200	0+160	0.3	1865	6.5	1751	1685	103.9	2101	83.3	2nd Lift of the Type C D/S Fillet - Frozen
2017-04-22	42	TW	200	0+180	0.3	1876	6.8	1757	1685	104.2	2102	83.6	2nd Lift of the Type C D/S Fillet - Frozen
2017-05-03	43	TW	200	1+080	66.1 elev	1845	7.2	1721	1685	102.1	2102	81.9	First lift of Type C material placing on the U/S slope
2017-05-03	44	TW	200	1+150	65.3 elev	1790	6.4	1682	1685	99.8	2102	80.0	First lift of Type C material placing on the U/S slope
2017-05-03	45	TW	200	1+195	64.9 elev	1798	6.6	1687	1685	100.1	2102	80.2	First lift of Type C material placing on the U/S slope
2017-05-03	46	TW	200	1+235	64.9 elev	1823	7.0	1704	1685	101.1	2102	81.1	First lift of Type C material placing on the U/S slope
2017-05-04	47	TW	200	1+270	66.3 elev	1970	6.2	1855	1685	110.1	2102	88.2	Third lift of Type C material placed on the U/S slope
2017-05-04	48	TW	200	1+239	65.95 elev	1902	8.4	1755	1685	104.1	2102	83.5	Third lift of Type C material placed on the U/S slope
2017-05-04	49	TW	200	1+166	65.6 elev	1940	6.1	1828	1685	108.5	2102	87.0	Third lift of Type C material placed on the U/S slope
2017-05-05	50	TW	200	1+180	66 elev	1905	7.3	1775	1685	105.4	2102	84.5	Fifth lift of Type C material placed on the U/S slope
2017-05-05	51	TW	200	1+125	66.1	1920	6.4	1805	1685	107.1	2102	85.8	Fifth lift of Type C material placed on the U/S slope

Dike D-CP5 Type C Material Sand Cone Tests 2017 Summary

Date	Material Type	Station	Dry Density (kg/m3) (Densometer Avg.)	Densometer Moisture Content (% Avg.)	Bentonite placed (g)	Bentonite Bulk Density* (kg/m3)	Pit Volume (m3)	Soil weight (g)	Soil Bulk Density (kg/m3)	Moisture Content (%)	Soil Dry Density (kg/m3)	Comments
3-Apr-17	Type C	0+098	1749	6.3	2810	1056	0.00266	6696	2516.4	8.5	2319.2	TW- Type C Material was frozen
6-Apr-17	Type C	0+185	1804	5.7	3159	1056	0.00299	5606	1874.0	6.2	1764.6	WW - Type C material was frozen
17-Apr-17	Type C	0+240	1667	8.8	2620	1089	0.00241	4204	1747	10.5	1581	WW- Material was u/s fillet, frozen and appeared to have a high sand content.

APPENDIX E3

TYPE F MATERIAL QA/QC TEST RESULTS

Table E3.1: Moisture Content Results for Bentonite Augmented Material - Type F			
Sample No.	Date Tested	Moisture Content (%)	Sample Source
SA01	29-Jan-17	8.2	20 mm minus mixed with bentonite
SA02	30-Jan-17	7.2	20 mm minus mixed with bentonite
SA03	31-Jan-17	8.4	20 mm minus mixed with bentonite
SA04	31-Jan-17	7.4	20 mm minus mixed with bentonite
SA05	01-Feb-17	8.0	20 mm minus mixed with bentonite
SA06	18-Feb-17	6.4	20 mm minus mixed with bentonite
Average Moisture Content		7.6%	

Table E3.2: Frozen / In-situ Single Point Proctors for Type F Material											
Date/Shift	Material Type	Sample	Mass of Soil in Mold (g)	Mold Volume (cm3)	Frozen Compacted Density (kg/m3)	Mass of Wet Soil and Tare (g)	Mass of Tare (g)	Mass of Dry Soil and Tare (g)	Moisture Content (%)	Dry Density (kg/m3)	Comments
Nov 20, 2016 / NS	Type F	SA01	3847.6	2122.5	1813	4024.1	1643.7	3850.6	7.9	1681	
Nov 26, 2016 / NS	Type F	SA02	3879.6	2122.5	1828	1961.1	681.6	1839.4	10.5	1654	
Jan 31, 2017 / DS	Type F	SA03	3662.3	2122.5	1725	2690.7	696.7	2536.2	8.4	1592	
Jan 31, 2017 / DS	Type F	SA04	3712.4	2122.5	1749	2675.5	694.8	2539.3	7.4	1629	
Jan 31, 2017 / NS	Type F	SA05	3704.5	2122.5	1736	2783.5	693.2	2629.5	8.0	1608	
Feb 1, 2017 / DS	Type F	SA06	3707.0	2122.4	1747	2965.8	697.6	2814.9	7.1	1631	
Feb 1, 2017 / NS	Type F	SA07	3704.5	2122.5	1736	2783.5	693.2	2629.5	8.0	1608	
March 14, 2017 / DS	Type F	SA08	3865.4	2122.5	1821	160.2	4.3	148.2	8.3	1681	Mixing station - sampled from batch after mixing
April 10, 2017 / DS	Type F	SA09	3804.0	2122.5	1792	1438.6	690.3	1363.0	11.2	1611	

Dike D-CP5 Type F Material Field Density Testing (Nuclear Densometer) Summary

Note: Densities and saturation are based on Nuclear Gauge results which may not be accurate for frozen aggregate

Date	Density Test #	Tech	Probe Depth (mm)	Station	Depth from OG (m)	Wet Density (kg/m3)	Moisture Content (%)	Dry Density (kg/m3)	Single Point Frozen Proctor Dry Density Average (kg/m3)	% SPFPDD	Comments
31-Mar-17	001	TW	200	0+006	1.65	1842	6.6	1728	1635	105.7	Top of Type F below liner - frozen
31-Mar-17	002	TW	200	0+010	1.65	1848	7.2	1724	1635	105.4	Top of Type F below liner - frozen
31-Mar-17	003	TW	200	0+015	1.65	1947	5.7	1842	1635	112.7	Top of Type F below liner - frozen
31-Mar-17	004	TW	200	0+015	1.65	1883	6.9	1761	1635	107.7	Top of Type F below liner - frozen
31-Mar-17	005	TW	200	0+015	1.65	1889	6.6	1772	1635	108.4	Top of Type F below liner - frozen
31-Mar-17	006	TW	200	0+015	1.65	1890	6.4	1776	1635	108.6	Top of Type F below liner - frozen
31-Mar-17	007	TW	200	0+025	1.65	1867	6.8	1748	1635	106.9	Top of Type F below liner - frozen
1-Apr-17	008	TW	200	0+058	1.65	1885	6.3	1773	1635	108.5	Top of Type F below liner - frozen
1-Apr-17	009	TW	200	0+067	1.65	1846	6.5	1733	1635	106.0	Top of Type F below liner - frozen
1-Apr-17	010	TW	200	0+056	1.25	1856	6.8	1738	1635	106.3	Top of Type F U/S fillet - frozen
1-Apr-17	011	TW	200	0+072	1.25	1873	6.3	1762	1635	107.8	Top of Type F U/S fillet - frozen
1-Apr-17	012	WW	150	0+047	1.65	1862	7.3	1735	1635	106.1	Top lift of KT floor - frozen
1-Apr-17	013	WW	150	0+055	1.65	1882	6.1	1774	1635	108.5	Top lift of KT floor - frozen
1-Apr-17	014	WW	200	0+058	1.5	1871	5.8	1768	1635	108.2	Lift 1 of u/s Type F fillet
1-Apr-17	015	WW	150	0+040	1.5	1935	5.5	1834	1635	112.2	Lift 1 of u/s Type F fillet
1-Apr-17	016	WW	200	0+025	1.3	1933	5.3	1836	1635	112.3	Lift 2 of u/s Type F fillet
1-Apr-17	017	WW	200	0+060	1.35	1881	6.4	1768	1635	108.1	Lift 2 of u/s Type F fillet
1-Apr-17	018	WW	200	0+072	1.5	1862	6.2	1753	1635	107.2	Lift 1 of u/s Type F fillet
2-Apr-17	019	WW	200	0+070	1.5	1862	7.3	1735	1635	106.1	1st lift u/s fillet
2-Apr-17	020	WW	200	0+084	1.65	1862	6.2	1753	1635	107.2	1st lift above KT floor
3-Apr-17	021	WW	200	0+095	1.8	1859	6.5	1746	1635	106.8	1st lift above KT floor
3-Apr-17	022	WW	200	0+108	1.8	1840	7.5	1712	1635	104.7	1st lift above KT floor
3-Apr-17	023	TW	200	0+080	1.5	1852	8.4	1708	1635	104.5	1st lift of Type F U/S fillet -frozen
3-Apr-17	024	TW	200	0+095	1.5	1860	7.7	1727	1635	105.6	1st lift of Type F U/S fillet -frozen
3-Apr-17	025	TW	200	0+095	1.5	1840	8.1	1702	1635	104.1	1st lift of Type F U/S fillet -frozen
3-Apr-17	026	TW	200	0+095	1.5	1873	8.1	1733	1635	106.0	1st lift of Type F U/S fillet -frozen
3-Apr-17	027	TW	200	0+095	1.5	1805	7.9	1673	1635	102.3	1st lift of Type F U/S fillet -frozen
3-Apr-17	028	TW	200	0+100	1.35	1900	7.4	1769	1635	108.2	Top of Type F U/S fillet -frozen
3-Apr-17	029	TW	200	0+112	1.35	1948	7.4	1814	1635	110.9	Top of Type F U/S fillet -frozen
4-Apr-17	030	WW	200	0+122	1.5	1946	6.7	1824	1635	111.5	2nd lift above KT floor
5-Apr-17	031	WW	200	0+170	1.25	1897	6.1	1788	1635	109.4	1st lift u/s fillet
5-Apr-17	032	WW	200	0+165	1.4	1930	5.6	1828	1635	111.8	2nd lift above KT floor
5-Apr-17	033	TW	200	0+185	1.5	1823	6.8	1707	1635	104.4	Top of Type F U/S fillet (below liner) -frozen
7-Apr-17	034	WW	200	0+070	0.0	1904	7.0	1779	1635	108.8	Type F u/s fillet hinge under liner
7-Apr-17	035	WW	200	0+090	0.0	1844	6.7	1728	1635	105.7	Type F u/s fillet hinge under liner
14-Apr-17	036	WW	200	0+215	1.95	1820	7.9	1687	1635	103.2	2nd lift above KT floor
14-Apr-17	037	WW	200	0+210	1.8	1827	9.1	1675	1635	102.4	3rd lift above KT floor
16-Apr-17	038	WW	200	0+230	2.1	1910	7.7	1773	1632	108.6	Final lift above KT floor under liner
16-Apr-17	039	WW	250	0+245	2.4	1861	8.0	1723	1632	105.6	Final lift above KT floor under liner
16-Apr-17	040	WW	200	0+260	2.55	1949	7.7	1810	1632	110.9	Final lift above KT floor under liner
16-Apr-17	041	WW	200	0+260	2.55	1916	8.0	1774	1632	108.7	Final lift above KT floor under liner
16-Apr-17	042	WW	200	0+260	2.55	1908	8.2	1763	1632	108.0	Final lift above KT floor under liner
16-Apr-17	043	WW	200	0+260	2.55	1905	7.5	1772	1632	108.6	Final lift above KT floor under liner
16-Apr-17	044	WW	200	0+225	1.8	1881	8.3	1737	1632	106.4	Final (2nd) lift of U/S fillet under liner
16-Apr-17	045	WW	200	0+250	2.1	1917	7.6	1782	1632	109.2	Final (2nd) lift of U/S fillet under liner
17-Apr-17	046	WW	200	0+250	2	1917	7.4	1785	1632	109.4	2nd lift of U/S fillet above KT floor
18-Apr-17	047	IM	200	0+295	1	1749	7.4	1628	1632	99.8	North Abutment Type F U/S U/L
18-Apr-17	048	IM	200	0+295	0.85	1756	7.7	1630	1632	99.9	North Abutment Type F U/S U/L

Dike D-CP5 Type F Material Sand Cone Tests 2017 Summary

Date	Material Type	Station	Dry Density (kg/m3) (Densometer Avg.)	Densometer Moisture Content (% Avg.)	Bentonite placed (g)	Bentonite Bulk Density*	Pit Volume (m3)	Soil weight (g)	Soil Bulk Density (kg/m3)	Moisture Content (%)	Soil Dry Density (kg/m3)	Comments
03-04-2017	Type F	0+095	1709	8	2998	1056	0.0028	5546	1953.5	8.9	1793.8	
16-04-2017	Type F	0+260	1780	7.9	2552	1089	0.0023	4412	1882.7	9.1	1725.7	WW- Type F Material was frozen

APPENDIX E4

KEY TRENCH BASE MATERIAL JAR AND MOISTURE CONTENT TEST RESULTS

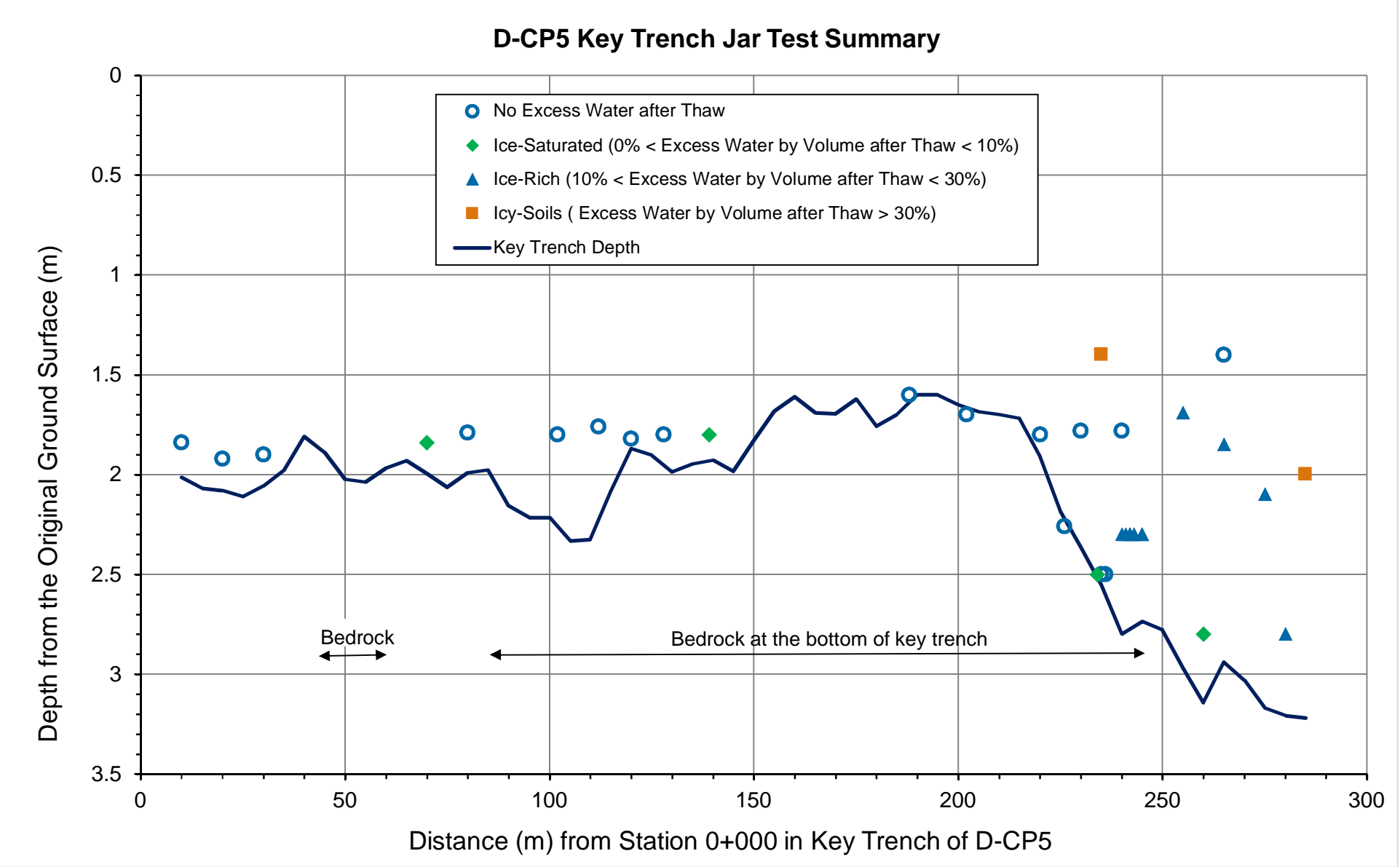


TABLE E4: DIKE D-CP5 KEY TRENCH JAR TEST SAMPLES SUMMARY RESULTS

Sample #	Date Tested	Sample Type	Survey Data		Jar Test Results							Soil Description
			Approx. Station	Sample Depth (m)	Height of Supernatant Water (mm)	Height of Saturated Sediment (mm)	Percentage of Excess Supernatant Water in Thawed Soil Sample (by volume) (%)	Moisture Content (%)	Bulk Density (kg/m3)	Ice Content Description	Material Acceptance	
1	16-Jan-17	Disturbed core	0+235	1.40	40	12	76.9	184%	1099	Icy Soil	Not Acceptable	SAND, some gravel, trace silt
2	16-Jan-17	Disturbed	0+265	1.40	0	65	0.0	4%	-	Non- Ice Saturated	Not Acceptable	SILT, some sand
3	19-Jan-17	Core	0+285	2.00	42	60	41.2	63%	1205	Icy Soil	Not Acceptable	SILT, some sand, some gravel
4	19-Jan-17	Core	0+275	2.10	25	60	29.4	55%	1457	Ice-Rich Soil	Not Acceptable	SILT
5	19-Jan-17	Core	0+265	1.85	15	90	14.3	29%	1761	Ice-Rich Soil	Not Acceptable	SILT, some gravel, trace sand
6	19-Jan-17	Core	0+255	1.69	16	54	22.9	70%	1080	Ice-Rich Soil	Not Acceptable	SILT, trace gravel
7	23-Jan-17	Disturbed	0+226	2.26	0	125	0.0	12%	'	Non- Ice Saturated	Not Acceptable	SILT, some gravel
8	23-Jan-17	Disturbed	0+202	1.90	0	130	0.0	13%	'	Non- Ice Saturated	Not Acceptable	SILT, some gravel
9	23-Jan-17	Disturbed	0+188	1.75	0	145	0.0	11%	'	Non- Ice Saturated	Not Acceptable	SILT, some gravel
10	23-Jan-17	Disturbed Core	0+020	1.92	0	110	0.0	13%	'	Nearly ice-saturated	Acceptable	SILT, some gravel
11	23-Jan-17	Disturbed Core	0+010	1.84	0	110	0.0	12%	-	Nearly ice-saturated	Acceptable	SILT, some gravel
12	23-Jan-17	Disturbed Core	0+002	1.74	0	115	0.0	15%	-	Nearly ice-saturated	Acceptable	SILT, some gravel
13	25-Jan-17	Disturbed Core	0+070	1.84	3	75	3.8	12%	-	Nearly ice-saturated	Acceptable	SILT, some gravel
14	25-Jan-17	Disturbed Core	0+080	1.79	0	80	0.0	12%	-	Nearly ice-saturated	Acceptable	SILT, some gravel
15	26-Jan-17	Disturbed Core	0+230	1.78	0	118	0.0	8%	-	Non- Ice Saturated	Not Acceptable	SILT, some gravel
16	26-Jan-17	Disturbed Core	0+240	1.78	0	118	0.0	10%	-	Non- Ice Saturated	Not Acceptable	SILT, some gravel
17	26-Jan-17	Disturbed Core	0+220	1.80	0	125	0.0	8%	-	Non- Ice Saturated	Not Acceptable	SILT, some gravel
18	4-Feb-17	Disturbed Core	0+128	1.80	0	55	0.0	17.4%	-	Nearly ice-saturated	Acceptable	SILT, sandy; fine sand
19	4-Feb-17	Disturbed Core	0+139	1.80	3	45	6.3	26.4%	-	Ice-saturated	Acceptable	SAND, silty; predominately fine sand
20	10-Feb-17	Disturbed Core	0+112	1.76	0	60	0.0	7.7%	V. SMALL SAMPLE	Non- Ice Saturated	Not Acceptable	SAND, silty, some gravel, fine gravel, rock cuttings
21	10-Feb-17	Disturbed Core	0+102	1.80	0	20	0.0	6.9%	-	Non- Ice Saturated	Not Acceptable	SAND, some silt, some gravel, fine and medium gravel (subangular)
22	11-Feb-17	Disturbed Core	0+120	1.82	0	60	0.0	10.1%	-	Non- Ice Saturated	Not Acceptable	SAND, silty, some gravel, rock cuttings; predominately fine grained sand and silt
23	11-Feb-17		0+090	UNABLE TO OBTAIN CORE - BEDROCK								BEDROCK
24	13-Feb-17	Disturbed Core	0+030	1.90	0	80	0.0	12.0%	-	Nearly ice-saturated	Acceptable	SILT, sandy or SAND, silty, some gravel; when thawed: moist, grey, firm/compact,
25	6-Apr-17	Disturbed Core	0+243	2.30	13	37	26.0	30.7%	1651	Ice-Rich Soil	Not Acceptable	SILT, some gravel
26	6-Apr-17	Disturbed Core	0+242	2.30	13	50	20.6	33.9%	--	Ice-Rich Soil	Not Acceptable	SILT, some gravel
27	6-Apr-17	Disturbed Core	0+245	2.30	16	57	21.9	24.6%	1543	Ice-Rich Soil	Not Acceptable	SILT, some gravel
28	6-Apr-17	Disturbed Core	0+245	2.30	10	32	23.8	19.2%	1660	Ice-Rich Soil	Not Acceptable	SILT, some gravel
30	10-Apr-17	Disturbed Core	0+240	2.30	5	35	12.5	19%	--	Ice-Rich Soil	Not Acceptable	SILT, some sand, trace gravel
31	10-Apr-17	Disturbed Core	0+242	2.30	14	40	25.9	33%	--	Ice-Rich Soil	Not Acceptable	SILT, some sand, trace gravel
32	10-Apr-17	Disturbed Core	0+241	2.30	12	28	30.0	48%	--	Ice-Rich Soil	Not Acceptable	SILT, some sand, trace gravel
33	10-Apr-17	Disturbed Core	0+235	2.50	0	80	0.0	15%	--	Nearly ice-saturated	Acceptable	SILT, some sand, trace gravel
34	10-Apr-17	Disturbed Core	0+236	2.50	0	70	0.0	22%	--	Ice Saturated	Acceptable	SILT, some sand, trace gravel
35	10-Apr-17	Disturbed Core	0+234	2.50	3	45	6.3	24%	--	Ice Saturated	Acceptable	SILT, some sand, trace gravel
36	14-Apr-17	Disturbed Core	0+260	2.80	5	52	8.8	27%		Ice Saturated	Acceptable	SILT, some sand, trace gravel
37	14-Apr-17	Disturbed Core	0+280	2.80	6	46	11.5	31%		Slightly IceRich Soil	Acceptable	SILT, some sand, trace gravel