# **APPENDIX E1**

### TRANSITION MATERIAL PARTICLE SIZE ANALYSIS RESULTS



				PARTICLE SI			REPORT		
PROJECT:	Meliadine	Dik	e Co	nstruction	SAMPI				SA01
					SAMPI	LE DESC	RIPTION:		n minus
					_			from st	tockpile
ADDRESS:	Meliadine	Go	d Pro	oject, NU.	_				
PROJECT N	O: <u>E1410323</u>	0-01	.023		MOIST	URE CO	NT. :		5.2%
DATE SAMP	LED: Nov	09/1	6	By: TW	_				
CLIENT:	Agnico E	agle	Mine	es Ltd.	BULK	REL DEN	SITY:		n/a
ATTENTION:	Mr. Duy N	lguy	en		BULK	REL. DEN	NSITY (SSD):		n/a
					APPAR	RENT REL	DENSITY:		n/a
					ABSO	RPTION:			n/a
PARTICLE	PERCENT		100						
SIZE	PASSING		100						///
			90						
150	100								
20	26		80						<del>-                                     </del>
			70						/ / /
10	19	(2)	, 0						/ /   /   <i>j</i>
5	13	SING	60						/ / /
		PAS							<i>′</i> / /
		PERCENT PASSING	50					//	
		PER	40					/	
			30						
			20					/	
			10					/	
			0					/	
				0.2	0.63	1.25 2.5 2.5	CLE SIZE (mm)	20 20 25	50 75 100 150 200
Remarks:									
Reviewed by	<b>,</b> -					P.Enc	n		



PROJECT:	Meliadine	e Dik		PARTICLE SI	_ SAMPI			150 m	SA02 m minus
					_			from s	stockpile
ADDRESS:	Meliadine	Go	ld Pr	oject, NU.	_				
PROJECT N	O: <u>E1410323</u>	<b>30-0</b> 1	.023		MOIST	URE CON	IT. :		4.3%
DATE SAMP	LED: Nov	09/1	6	By: TW	_				
CLIENT:	Agnico E	agle	Mine	es Ltd.	BULK	REL DENS	SITY:		n/a
ATTENTION:	Mr. Duy M	lguy	en		BULK	REL. DEN	SITY (SSD):		n/a
					_ APPAF	RENT REL	. DENSITY:		n/a
					ABSO	RPTION:			n/a
DADTIOLE	DEDCENT	_							
PARTICLE SIZE	PERCENT PASSING		100						
SIZE	PASSING								/ //
			90						
150	100								
20	25		80						<i>i     </i>
			70						////
10	17	<u>o</u>							/
5	13	PERCENT PASSING	60						
		l PA	50					/	
		EN	50					//	
		JER(	40					//	
		"						./	//
			30						
			20				/		
							1	//	
			10					/	
			0				/		
			Ü	0.2	0.63	1.25 DABLIC 2.5	5 10	20 20 25	50 75 100 150
				0.8	Ö	PARTIC	LE SIZE (mm)	_	+ + 0
Remarks:									
Reviewed by	<i>j</i> .					P Eng	1		

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Transition Rock			REPORT	NALYSIS F	E SIZ	PARTICL	F			
ADDRESS: Meliadine Gold Project, NU. PROJECT NO: E14103230-01  DATE SAMPLED: Nov 11/16 By: IM  CLIENT: Agnico Eagle Mines Ltd.  ATTENTION: Mr. Duy Nguyen  PARTICLE PERCENT SIZE  PASSING  100  100  100  100  100  100  100  1		SA03		MPLE NO:		nstruction	ke Coı	e Dik	Meliadine	PROJECT:
ADDRESS: Meliadine Gold Project, NU. PROJECT NO: E14103230-01  DATE SAMPLED: Nov 11/16 By: IM  CLIENT: Agnico Eagle Mines Ltd.  ATTENTION: Mr. Duy Nguyen  PARTICLE PERCENT SIZE PASSING  100  100  100  100  100  100  100  1	linus	Type B - 150 mm Minu	SCRIPTION:	MPLE DESC						
PROJECT NO: E14103230-01		Transition Rock								
DATE SAMPLED:   Nov 11/16   By: IM   CLIENT:   Agnico Eagle Mines Ltd.   BULK REL DENSITY:   n/a   ATTENTION:   Mr. Duy Nguyen   BULK REL. DENSITY:   n/a   APPARENT REL. DENSITY:   n/a   n/a   APPARENT REL. DENSITY:   n/a   n/a   APPARENT REL. DENSITY:   n/a   n/a   N/a   APPARENT REL. DENSITY:   n/a   N	ckpile	Sampled From Stockp				oject, NU.	old Pro	e Go	Meliadine	ADDRESS:
CLIENT: Agnico Eagle Mines Ltd.   BULK REL DENSITY:   n/a		1.3%	ONT.:	ISTURE CO			1	30-01	E1410323	PROJECT NO:
ATTENTION: Mr. Duy Nguyen BULK REL. DENSITY (SSD): n/a APPARENT REL. DENSITY: n/a ABSORPTION: n/a  PARTICLE PERCENT SIZE PASSING  150 100 100 100 50 61 20 32 10 21 5 15 20 10 21 5 15					1	By: II	16	11/1	D: <u>Nov</u>	DATE SAMPLE
PARTICLE PERCENT SIZE PASSING  150 100 100 100  50 61  20 32  10 21 5 15  10 21 5 15  10 20 10 3		n/a	ENSITY:	LK REL DEN		s Ltd.	Mine	agle	Agnico E	CLIENT:
ABSORPTION:   n/a		n/a	ENSITY (SSD):	LK REL. DEI			yen	Nguy	Mr. Duy N	ATTENTION:
PARTICLE PERCENT SIZE PASSING  150 100 100 100  50 61  20 32  10 21 5 15  10 21 5 15  20 10 30  20 32  10 30  20 32  10 30  20 32  10 30  20 32  10 30 30  20 30 30 30 30 30 30 30 30 30 30 30 30 30		n/a	REL. DENSITY:	PARENT RE						
SIZE PASSING  150 100 100 100  50 61  20 32  10 21 5 15  10 21 5 15  10 20 10		n/a	N:	SORPTION:						
SIZE PASSING  150 100 100 100  50 61  20 32  10 21 5 15  10 21 5 15  10 20 10										
150 100 100 100 50 61 20 32 10 21 5 15 20 30 10 21 5 15							400			
150 100 100 100 50 61 20 32 10 21 5 15 20 10 21 5 15	<i> </i>						100		ASSING	SIZE
100 100  50 61  20 32  10 5 15  10 10  20 10 10 10 10 10 10 10 10 10 10 10 10 10		<b></b>					90			
100 100  50 61  20 32  10 5 15  10 10  20 10 10 10 10 10 10 10 10 10 10 10 10 10	$\parallel / \parallel \parallel \parallel$	/ /							100	150
50 61 20 32 5 15 0 0 10 0 0 0 0 10 0 0 0 0 10 0 0 0 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	+/	<del>                                     </del>					80			
50 61 20 32 10 21 5 15 0 10 0 1	/						70	•	100	100
10 21 30 5 15 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0		/////						<u> </u>	61	50
10 21 30 5 15 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0		/_/					60	SING		
10 21 30 5 15 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0		/ /   i					[	PAS		
10 21 30 5 15 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0							50	Ë	32	20
10 21 30 5 15 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0		<i>i</i>   /   i					40	I SS		
5 15 20 10 0 10 0 20 12 25 25 25 25 25 25 25 20 20 20 20 20 20 20 20 20 20 20 20 20		/ / / /					- 40	╽╽╏		
20 10 10 2; 2; 2; 2; 2; 2; 2; 2; 2; 2; 2; 2; 2;			/				30			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									15	5
0.2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2			1				20			
0.2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2		/					10	1		
2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		/						1		
0.0 0.3 15. 0.							<sub>0</sub> l	11		
PARTICLE SIZE (mm)	100	20 25 25 50 50 75 70	2.5	1.25	.315	0.2				
			(TICLE SIZE (mm)	PARTI	0					
Remarks:										Remarks:

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			ا	PARTICLE SI	ZE ANA	LYSIS R	EPORT		
PROJECT:	Meliadine	Dik	e Co	nstruction	SAMPL	E NO:			SA04
					SAMPL	E DESCI	RIPTION:	Type I	3 - 150 mm Minus
								Transi	tion Rock
ADDRESS:	Meliadine	Go	ld Pro	oject, NU.	_			Sampl	ed From Stockpile
PROJECT N	O: E1410323	0-01	.023		MOIST	URE CON	IT. :		2.8%
DATE SAMP	LED: Nov	13/1	6	By: IM	_				
CLIENT:	Agnico Ea	agle	Mine	es Ltd.	BULK	REL DENS	SITY:		n/a
ATTENTION:					BULK	REL. DEN	ISITY (SSD):		n/a
					_		DENSITY:		n/a
					_	RPTION:			n/a
					_				
PARTICLE	PERCENT								
SIZE	PASSING		100						
			90						
150	100								//   /
100	97		80						
100	31		70						// /
50	60		70						////
		SING	60						
		AS							<b>/                                    </b>
20	35	PERCENT PASSING	50						
		RCE	40					//	/ / /
		"	40					/ /	
10	25		30				/		/
5	19								<b>'</b>
			20				/		
			10				/	//	
			. •					/	
			0						
				0.2	0.63	1.25 <b>DVBLIC</b>	1 F C13F (mm)	20 25	50 75 100 150 200
				0		PARTIC	LE SIZE (mm)		
Remarks:									
	_								-
Reviewed by	<b>/</b> :					P.Eng	1.		



PROJECT:	Meliadine	Dike	e Cor	struction	SAMF	PLE NO:					SA05	
					SAMF	PLE DES	CRIPT	ION:	Туре	B - 150	mm miı	านร
						Sam	npled fr	om stock	kpile			
ADDRESS:	Meliadine	Gol	d Pro	ject, NU.								
PROJECT N	O: E1410323	0-01	.023		— MOIS	TURE CO	NT.:				8.6%	
DATE SAMP	LED: Dec	15/16	i	By: CC								
CLIENT:	Agnico E	agle	Mine		— BULK	REL DE	NSITY:	:			n/a	
ATTENTION					— BULK	REL. DE	NSITY	(SSD):			n/a	
						RENT RE		-			n/a	
					_	RPTION:					n/a	
-												
PARTICLE	PERCENT		100									<del></del>
SIZE	PASSING										/	<i>i</i>
150	100		90								<del>   //</del>	<del></del>
100	100		80								/	$i \mid \cdot \mid$
50	49		00								///	'
20	19		70								/ / /	
10	8	(2)								/	<b>       </b>	
5	2	SING	60							/	1//	
		PAS	50							/	<b>/</b> //	
		PERCENT PASSING							/		/ /	
		=RC	40						<u> </u>		/	
		=	20						/	//		
			30					/		/		
			20					//				
								//	/			
			10						//			
			0						<u>/</u>			
			J	0.2	0.63	.25	2.5	5 0	2.5	25	50 75	150
				2 6.0	Ö	_		ZE (mm)	<del>-</del>		<del>-</del>	2
								. ,				
Remarks:												



PROJECT:	Meliadine	Dike	e Cons	structio	n	SAME	PLE NO	:			,	SA06	
						SAME	PLE DE	SCRIP	TION:	Туре	B - 150	mm m	inus
						_	Sa	ampled	from stoc	kpile			
ADDRESS:	Meliadine	Gol	d Proj	ect, NU	l.	_							
PROJECT NO	D: E1410323	30-01	.023			MOIS	TURE (	CONT.			;	8.1%	
DATE SAMP	LED: Mar	01/17		By:	TW	_							
CLIENT:	Agnico E	agle	Mines	Ltd.		- BULK	REL D	ENSIT	Y:			n/a	
ATTENTION:						BULK	REL. [	DENSIT	Y (SSD):			n/a	
						_			ENSITY:			n/a	
						ABSC	RPTIO	N:				n/a	
-													
PARTICLE	PERCENT		100										
SIZE	PASSING												/ /
150	100		90							+		<i>i</i>	+
100	100		80 -									//	i
50	55		80									//	/
20	29		70									////	
10	8										/	/	
5	2	PERCENT PASSING	60								/	1 /	
		PAS	50								//	/ /	
		Ä								/		/	
		I I	40							_/_		/	
		=								/	/ /		
			30						/				
			20							/_	/		
									//	//			
			10							///			
			0							/			
			0 –		0.2	0.63	1.25	2.5	5 10	2.5	25	50	100
					0.3	Ö			SIZE (mm)	7			- <del>-</del>
									()				
Remarks:													

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PROJECT:	Meliadin	e Dike	e Cor	struction	SAMP	LE NO:				;	SA07	
					SAMP	LE DES	CRIPTIC	ON:	Туре	B - 150	) mm mi	nus
					_	San	npled fro	m stock	rpile			
ADDRESS:	Meliadin	e Gol	d Pro	ject, NU.	_							
PROJECT N	O: E141032				MOIS	TURE CO	NT.:				8.7%	
DATE SAMP	LED: Mar	01/17	•	By: TW	_							
CLIENT:	Agnico E	agle	Mine	s Ltd.	– BULK	REL DE	NSITY:				n/a	
ATTENTION					– BULK	REL. DE	NSITY (	(SSD):			n/a	
						RENT RE		-			n/a	
					_	RPTION					n/a	
PARTICLE	PERCENT		100									<del>-                                    </del>
SIZE	PASSING											j
150	100		90								//	+
100	100		80								//	i 📗
50	60		80								//	<i>'</i>
20	35		70								<del>// /</del>	
10	11	()								/	<b>'                                     </b>	
5	2	PERCENT PASSING	60							//	/ /	
		PAS	50							/ /		
		ENT							/		/	
		ERCI	40						<u>'</u>		/	
		=	20						/ /	/ /		
			30					/	1/	/		
			20					,	$\vee$	/		
								/	/ /			
			10						/			
			0						./			
			O	0.2	0.63	.25	2.5	0 0	12.5	25	50	150
				0.9	0.	~	ICLE SIZI		<del>-</del>		Ť	0
								,				
Remarks:												



PROJECT:	Meliadine	e Dike	e Cor	struction	SAMF	LE NO:					SA08	
					SAMF	LE DES	CRIPT	ION:	Тур	B - 15	0 mm m	inus
					<u> </u>	San	npled fr	om stock	kpile			
ADDRESS:	Meliadine	e Gol	d Pro	ject, NU.								
PROJECT N	O: E1410323	30-01	.023		MOIS	TURE CO	NT.:				7.2%	
DATE SAMP	LED: Mar	02/17	,	By: TW	<u> </u>							
CLIENT:	Agnico E	agle	Mine	s Ltd.	_ BULK	REL DE	NSITY:	1			n/a	
ATTENTION	Mr. Duy I	Nguy	en		_ BULK	REL. DE	NSITY	(SSD):			n/a	
						RENT RE		-			n/a	
					_	RPTION					n/a	
PARTICLE	PERCENT		100									<del></del>
SIZE	PASSING											/ /
150	100		90								<del> </del>	+/
100	100		80									i
50	62		80								//	/
20	37		70								//	<i>i</i>
10	10	<sub>(2</sub>								/	// //	
5	0	PERCENT PASSING	60							//		
		PAS	50							//	$\perp \prime \mid$	
		ENT							/ /		/	
		ERCI	40							/	/	
		=	20						/ /	/		
			30					/	1/	/		
			20					<u>'</u>	/	/		
								//	/ /			
			10						//			
			0						/			
			O	0.2	0.63	.25	2.5	5 01	5.5	25	50	150
				0.3	0	_		ZE (mm)	<del>-</del>			0
								,				
Remarks:												



PROJECT:	Meliadine	Dike	Cons	struction		SAMPLE	NO:					SA09		
						SAMPLE	DES	CRIP	TION:	Тур	e B1 -	150 mr	n minເ	ıs
							Sar	mpled	from Key					
ADDRESS:	Meliadine	Gol	d Proj	ect, NU.										
PROJECT NO:	E1410323	0-01.	.023		N	MOISTU	RE C	ONT.:				6.1%		
DATE SAMPLE	D: Mar 2	29/17		By: IM/T	w									
CLIENT:	Agnico E	agle	Mines			BULK R	EL DE	NSIT	<b>/</b> :			n/a		
ATTENTION:	Mr. Duy N	lguye	en			BULK R	EL. DI	ENSIT	Y (SSD):			n/a		
					<u> </u>	PPARE	NT R	EL. DE	ENSITY:			n/a		
						BSORI	PTION	l:				n/a		
	-													
	ERCENT		100 _											7
SIZE F	PASSING												1	
150	100		90										<i>i</i> / /	
100	95		80 -										/ //	
50	63		00									//	/	
20	22		70									-//-	//	
10	11	l o										./ /	/	
5	4	PERCENT PASSING	60									/ /		$\Box$
		PAS	50								/	// //		
		Ä								_/`		j		
		I SCI	40							/	<del>                                     </del>	/		++
		H	30 -							/				
			30						/					
			20						/-		1			
									/	//				
			10							/				$\Box$
			0							/				
				0.2	0.315	0.63	.25	2.5	5 01	12.5	20 25	50	75	150
					o j	0	_		SIZE (mm)	~			<del></del>	(V
Remarks:														

			P	ARTICLE SIZ	E ANAL	YSIS F	REPO	RT				
PROJECT:	Meliadin	e Dik	e Con	struction	SAMPLI	E NO:					SA10	
					SAMPLI	E DESC	CRIPTIC	ON:	Тур	e B1 - 1	50 mr	n minus
						Sam	pled fro	m Key	Trenc	h Stn. 0	+455 a	t O.G. ele
ADDRESS:	Meliadin	e Gol	d Pro	ject, NU.								
PROJECT NO	O: <u>E141032</u>	30-01	.023		MOISTU	IRE CO	NT.:				6.1%	
DATE SAMP	LED: Mar	30/17		By: TW/WW								
CLIENT:	Agnico E	Eagle	Mines	s Ltd.	BULK R	EL DEN	NSITY:				n/a	
ATTENTION:					BULK R	EL. DE	NSITY (	(SSD):			n/a	
					APPARI			-			n/a	
					ABSOR	PTION:					n/a	
PARTICLE	PERCENT		100 г				1					
SIZE	PASSING	]										///
4=0		41	90									<i>i [                                   </i>
150	100	41									/	<b>/</b>  //
100 50	93 58	11	80								1	/ /
20	20	11	70								//	/
10	12	11 .									/ /	
5	6	PERCENT PASSING	60							/		<del>,</del>
			50							/	/ /	
		l E	30						/	1 /	j	
		L SCE	40						//		/	
		"							/	/ /	/	
		41	30						•			
		11	20							<u>/</u>		
		11						/				
		11	10						/			
		11							/			
			0 I	2		וט ו	ა. ი	. 6	75.	20 25 25	50	150
				0.2	0.63	_			12.5	N N	ין מי	150
		] [				PARTI	CLE SIZI	= (mm)				
Remarks:												
Reviewed by	<u>,</u>					P.En	na					



PROJECT:	Meliadine	Dike	Con	structio	n	SAME	LE NO	:				SA11		
						SAME	LE DE	SCRIP	TION:	Туре	B1 - 1	50 mm	minus	5
						_	Sa	ampled	from stoc	kpile				
ADDRESS:	Meliadine	Gol	d Proj	ect, NU		_								
PROJECT NO	D: E1410323	0-01	.023			MOIS	TURE C	ONT. :				6.5%		
DATE SAMPL	_ED: Apr (	)2/17		By:	ww									
CLIENT:	Agnico E					BULK	REL D	ENSIT	<b>′</b> :			n/a		
ATTENTION:						BULK	REL. D	ENSIT	Y (SSD):			n/a		
						-			ENSITY:			n/a		
						ABSC	RPTIO	N:				n/a		_
PARTICLE	PERCENT		100 г											
SIZE	PASSING												,' <b>/</b> i	
150	100		90									<del>'</del>	1/	
100	90		80									/	i	
50	46		80									//	/	
20	16		70									///	1	
10	9	(2)									\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<b>/                                     </b>		
5	6	PERCENT PASSING	60								/	<del>    / /</del>		
		PAS	50								/	_//_		
		F								/		<b>]</b> /		
		- RCI	40							-/-			+	
		<u> </u>								/				
			30						/		/			
			20							<b>—</b>	//		$\perp$	
									$\parallel$ / $\parallel$	j				
			10							//			+++	
										/				
			5 -		0.2	0.63	1.25	2.5	5 10	2.5	25	50	00 05	2 6
				,	O.3	Ö			SIZE (mm)	7		•	÷ ÷	٠ ،
Remarks:														

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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%

# APPENDIX E2

### TYPE C MATERIAL QA/QC TEST RESULTS



				PARTICLE SIZE	ANALYSIS REPORT	
PROJECT:		DCP-1/	DCP-5		SAMPLE NO:	SA01 to SA53
ADDRESS:		Meliadi			SAMPLE DESCRIPTION:	
PROJECT NO	<b>)</b> :	E14103	230-01,	Task 23	Type C (20 mm minus)	
UP TO DATE	:	May 15		By: Tetra Tech	Overall Material Average, (%)	
CLIENT:		Agnico	Eagle		NAT. MOISTURE CONT (%).:	
					Test Req'ments = 1 sample/5	00 m3 production
ATTENTION:		Duy Ng	juyen			
PARTICLE	PERCE					
SIZE, mm	PASSI	NG				100
		-				90
		$\neg$				
						80
						70
		-	,,			· , , , , , , , , , , , , , , , , , ,
			PERCENT PASSING		200/	60
			ASS			50
			<u>F</u>			
20	100.		H		200	40
12.5	87.	<u>'</u>	ER(			30
5	62.9	<del>-</del>	•		acool .	
0.63	33.2					20
0.08	6.9	i			,	10
						0
				. 80	83	20 20
				0.08	PARTICLE SIZE (mr	
<u> </u>					PARTICLE SIZE (IIII	II)
Remarks:	All s	samples	taken f	from Meliadine Esker.		
Type C grada	ation sp	ecs as p	er Geot	echnical Specificatio	ns Rev 1 Table 3 (Tetra Tech, N	lovember 9, 2016)
Reviewed by	:					

Data presented hereon is for the sole use of the The testing services reported herein have been performed by an Tetra Tech EBA technician to recognized industry stipulated client. Tetra Tech EBA is not responsible, nor standards, unless otherwise noted. No other warranty is made. These data do not include or represent any interpretation can be held liable, for use made of this report by any or opinion of specification compliance or material suitability. Should engineering interpretation be required, Tetra Tech other party, with or without the knowledge of Tetra Tech EBA will provide it upon written request.

EBA.

#### SIEVE ANALYSIS REPORT

Washed Sieve: ASTM C136 and C117

Project No.:	Meliadine Gold Project
Droinet	E4.4402220.04.022

Project: E14103230-01.023

Client: Agnico Eagle Mines Ltd

Attention:

Description: SAND, some gravel, trace silt, brown

Source: Meliadine Project, Dike Construction

Supplier:
Sample Location: Type C Stockpile

Specification:

Email:

Sample No.: Type C Sample No 1

Date Received: October 26, 2016

Sampled by: Dike QC Team

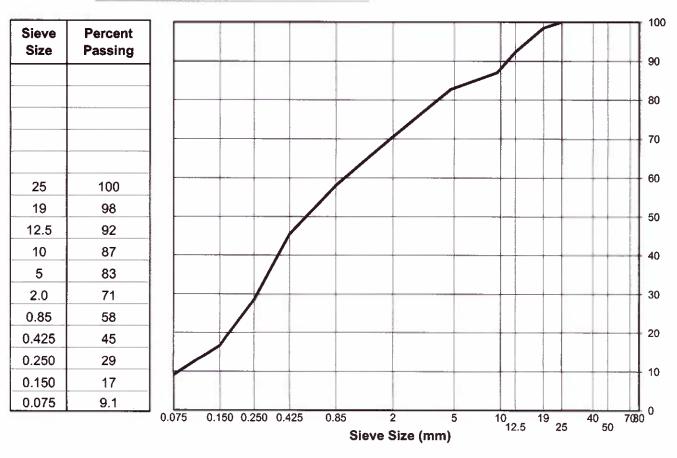
Date Tested: October 26, 2016

Tested by: JH Office: Edmonton

Moisture Content (as received): 3.0%

No. Crushed Faces: Two (2) or Three (3)

By Particle Mass:



Remarks:

Reviewed By:

A=

P.Eng.

Data presented hereon is for the sole use of the stipulated client. Tetra Tech EBA is not responsible, nor can be held liable, for use made of this report by any other party, with or without the knowledge of Tetra Tech EBA. The testing services reported herein have been performed to recognized industry standards, unless noted. No other warranty is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, Tetra tech EBA will provide it upon written request.

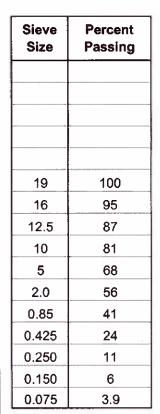


#### SIEVE ANALYSIS REPORT

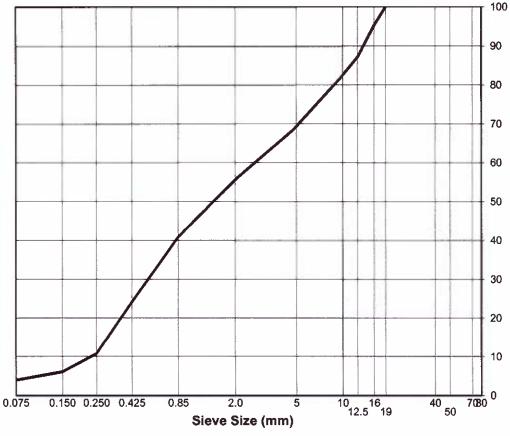
Washed Sieve: ASTM C136 and C117

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 Loca	ition: Type C Stockpile

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



Specification:



Remarks:

Reviewed By: \_\_

P.Eng.



			F	PARTICLE SI	ZE ANA	LYSIS	REPC	RT					
PROJECT:	Meliadine	Dik	e Cor	struction	SAMP	LE NO:					SA02	2	
					SAMP	LE DES	CRIPT	ON:	<b>20</b> n	nm mi	nus		
					_				sam	pled f	rom be	elt	
ADDRESS:	Meliadine	• Min	е		_								
PROJECT NO	D: <u>E1410323</u>	30-01			MOIST	TURE CO	ONT.:				7.1%	o O	
DATE SAMP	LED: Oct 22	2/16		By: TW	_								
CLIENT:	Agnico E	agle			BULK	REL DE	NSITY:				n/a		
ATTENTION:					BULK	REL. DE	ENSITY	(SSD):			n/a		
					APPAI	RENT RE	EL. DEI	NSITY:			n/a		
					ABSO	RPTION	:				n/a		
					_								
PARTICLE	PERCENT		100						,				
SIZE	PASSING	ì							/ /	<i>i</i>			
			90					/	//			++-	
			80					/	/ i				
20	100		80					/	/   /				
12.5	84	ì	70					/ /	/ <i>i</i>			++	
10	75						/		/				
5	56	SING	60				/	/ /				++-	
2.5	40	PERCENT PASSING	50			/		/					
		Ë	30			/		/					
0.63	24	RCE	40				//					++	
		"					/						
0.00	5	ì	30	ļ.		//						+++	
80.0	<b>5</b>		20			/							
					/								
			10								_	++	
			0	2 2	က	2	2	0 2	rů .	25	20	20	<u> </u>
				0.2	0.63	1.25	2.5	~	12.	N N	Ŋ	100	150 200
		L				PART	TCLE SIZ	ZE (mm)					
Remarks:	20 mm m	inus ŗ	oartic	e size distributio	n limits sh	nown							
	-												
Reviewed by						P.E	na —						<u></u>



PROJECT:	Meliadine	e Dike	e Cor	struction	SAMPL	E NO:			SA03	
					SAMPL	E DESCRI	PTION:	20 mm r	ninus	
					_			sampled	from be	lt
ADDRESS:	Meliadine	e Min	е		_					
PROJECT NO	D: <u>E141032</u> 3	30-01			MOIST	IRE CONT	.:		5.4%	
DATE SAMP	LED: Oct 2	2/16		By: TW	_					
CLIENT:	Agnico E	agle			BULKR	EL DENSI	TY:		n/a	
ATTENTION:					BULKR	EL. DENS	TY (SSD):		n/a	
					APPARI	ENT REL. I	DENSITY:		n/a	
					ABSOR	PTION:			n/a	
PARTICLE	PERCENT									
SIZE	PASSING		100					./ /		
<u> </u>			90				/			
			50				/			
			80					+/ $+$		
20	100		70				//	//		
12.5	68		70				/	//		
10 5	55 36	NG	60			/		/		
2.5	26	ASSI				//				
		PERCENT PASSING	50				//			
0.63	15	CEI	40				///			
		PEF			,	/				
			30		/	//				
80.0	3		20							
			20							
			10							
			0	2 15		2.5	5	2.5 20 25	50	0 0
				0.2	0.63	_		2 44	ν, γ	100
						PARTICLE	SIZE (mm)			
Remarks:	20 mm m	inus p	articl	e size distributio	n limits sho	wn				



PROJECT:	Meliadin	e Dike	e Const	ruction		IPLE NO:	SCRIPTION	:	20 mm		SA04 IS		
					<u> </u>				sampl			lt	
ADDRESS:	Meliadin	e Min	е										
PROJECT N	O: <u>E141032</u>	30-01			MO	STURE C	ONT.:				8.7%		
DATE SAMP	LED: Oct 2	2/16		By: TW									
CLIENT:	Agnico E	agle			BUL	K REL DE	ENSITY:				n/a		
ATTENTION:	<u> </u>				BUL	K REL. D	ENSITY (S	SD):			n/a		
					APF	ARENT R	EL. DENSI	ΓΥ:			n/a		
					ABS	ORPTION	۱:				n/a		
PARTICLE	PERCENT	П											
SIZE	PASSING		100								T		
<u> </u>			90					_/					
			30					//	$i \mid \cdot$				
			80 —					//	/				
20	100						//		i				
12.5	87		70				//		/				
10	80	၂ မွ	60				//	/	<u>'</u>				
5 2.5	63 46	IISS)					.1 /	/					
2.5	40	PERCENT PASSING	50			/	////	/			_		+-
0.63	27	EN EN	40			/ /							
		PER	40		/		/						
			30		//	/ /	<u> </u>						
0.08	4												
			20								+		
		1	10										
			<sub>0</sub> L										
				0.2	0.63	1.25	2.5	10	20	<b>6</b> 7	50	100	150
					5		TICLE SIZE (r	nm)					
Remarks:	20 mm m	inus r	particle:	size distribu	tion limits	shown							
			2										



PROJECT:	Meliadin	e Dike	e Construction	SAMP	LE NO:			SA05	
				 SAMP	LE DESCRIPTION	: 20	mm min	us	
						sa	mpled fro	om belt	
ADDRESS:	Meliadin	e Min	ie						
PROJECT N	O: <u>E141032</u>	30-01		MOIST	TURE CONT.:			6.0%	
DATE SAMP	LED: Oct 2	2/16	By: TV	<u> </u>					
CLIENT:	Agnico E	agle		BULK	REL DENSITY:			n/a	
ATTENTION:	<u> </u>			BULK	REL. DENSITY (S	SD):		n/a	
				APPA	RENT REL. DENSI	ΓY:		n/a	
				ABSO	RPTION:			n/a	
PARTICLE	PERCENT								
SIZE	PASSING		100				7		
OILL	. 7.000		90						
						/   /	<i>i</i>		
			80			<del>/    /</del> /			
20	100				/	<b> </b>   <b> </b>			
12.5	74		70		/	//			
10 5	63 45	NG	60		/	//			
2.5	34	PERCENT PASSING							
	<u> </u>	<del> </del>	50						
0.63	23	CE	40	<u> </u>	/ /				
		PEF							
			30	_//					
0.08	5		20						
			20	_//					
			10						
			00	3 5	2.5	10	20 25	50 75 100	9 9
			0.2	0.315	~	•	00	5 7 10	150
					PARTICLE SIZE (r	nm)			
Remarks:	20 mm m	inus p	particle size distri	oution limits sl	hown				



			F	PARTICLE SI	ZE ANA	LYSIS I	REPO	RT					
PROJECT:	Meliadine	e Dik	e Cor	nstruction	SAMPL	LE NO:					SA06	វ	
					SAMP	LE DESC	CRIPTI	ON:	<b>20</b> r	nm miı	nus		
					_						rom be	elt	
ADDRESS:	Meliadine	∍ Min	ıe		<u>-</u>								
PROJECT NO	O: E1410323	30-01			MOIST	URE CO	NT.:				5.5%	,	
DATE SAMPI	LED: Oct 24	4/16		By: TW	_								
CLIENT:	Agnico E	agle			_ BULK	REL DEN	NSITY:				n/a		
ATTENTION:	:				BULK	REL. DEI	NSITY	(SSD):			n/a		
					_ APPAF	RENT RE	L. DEN	ISITY:			n/a		
					_ ABSOF	RPTION:					n/a		
PARTICLE	PERCENT	П											
SIZE	PASSING	<sub>i</sub>	100				$\overline{}$	$\overline{}$	1	1		<del></del>	$\neg \neg \mid$
0122	1 700	,	90							/  <u> </u>			
		<sub>i</sub>	90					/	Ţį			$\top$	$\Box$
		,	80				-	-/-	<del>/</del>			+-	+
		1	_					// /	j				
12.5	85	<sub>i</sub>	70					<del>                                     </del>	<del> </del> /			++-	+
10	74	NG NG	60				/_		/				$\perp \! \! \perp \! \! \mid \! \mid$
5 2	54 40	ASSI	. 1			/	1	/ /					
	40	PERCENT PASSING	50			_//		//	+			++-	+
0.63	25	GEN	40			<u> </u>							
		PER	40				/						
		,	30		//	//	-	-	+	+		++	+
0.08	6	,											
		,	20						+			+	
		,	10						$\perp$				
		,	1										
		,	0	40				:- 0			$\frac{1}{2}$	:	
		,		0.2	0.63	~	2	10	12.5	20	20	75 100	150
		ı 🖳				PARTI	ICLE SIZ	:E (mm)					
Remarks:	20 mm m	inus r	partic	cle size distributio	on limits sh	nown							
ı <del></del>													
Reviewed by	<i> </i> :					P.En	ng.						



PROJECT:	Meliadin	e Dik	e Cor	nstruction	SAMPLE	E NO:					SA07		
			<del></del>	,	SAMPLE		RIPTION	l:	20 mi	m min			
			-		-					led fro		lt	
ADDRESS:	Meliadin	e Min	e		-								
PROJECT N	O: E141032	30-01			MOISTU	RE CON	NT. :				6.3%		
DATE SAMP	PLED: Oct 2	24/16		By: TW	_								
CLIENT:	Agnico E	Eagle			BULK R	EL DEN	SITY:				n/a		
ATTENTION:	:				BULK R	EL. DEN	ISITY (S	SD):			n/a		
					APPARE	ENT REL	DENSI	TY:			n/a		
					ABSORF	PTION:					n/a		
PARTICLE	PERCENT	П											
SIZE	PASSING		<sup>100</sup> [						1				$\neg \neg$
SIŁL	1 Addite	1	200	1				/					
		1	90					/	i				
	ĺ	]	80			-		///	1 /				+
		]					/		i				
12.5	84	41	70						/				
10 5	74 54	<u>မ</u> ှု	60			<u> </u>	/	/ /			-		$\perp$
2	39	ASS	J			//		/					
<del>-</del>			50			//		<b>,</b>					+
0.63	24	PERCENT PASSING	40				_/_						$\perp$
		]  🖫				///							
	<del></del>	4	30	<del>      .</del>	///	1/							+
0.08	5	41	20		//								Ш
	<del></del>	41	20		_//								
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		]		0.2	0.63	_	i CLE SIZE (I		1 "	(A	י נו	10	15
	<u> </u>	] [				PAR IIC	LE SIZE (I	mini <i>j</i>					
Remarks:	20 mm m	ıinus r	oarticl	le size distributio	n limits sho	wn							
Reviewed by	J:					P.Eng	<b>j</b> .						



					CLE S				REPO	RT							
PROJECT:	Meliadine	Dik	e Cons	truction	on		MPLE				-			SA08	3		
						_ SA	MPLE	DES	CRIPTI	ON:		mm r					_
						_					sar	npled	d fro	m be	elt		
ADDRESS:	Meliadine	Min	е			_											
PROJECT NO:	E1410323	0-01				_ MC	DISTU	RE CO	NT.:				,	5.0%	)		
DATE SAMPLE	D: Oct 25	/16		By:	TW	_											
CLIENT:	Agnico Ea	agle				_ BU	ILK RE	EL DEI	NSITY:					n/a			
ATTENTION:						BU	ILK RE	EL. DE	NSITY	(SSD):				n/a			
						AP	PARE	NT RE	L. DEN	ISITY:				n/a			
						AE	SORF	TION:						n/a			
											-						
_	PERCENT		100 —														_
SIZE	PASSING										/	/					
			90 —							<del>  /</del>		<del>/    </del>		+			+
										/ /	<b>,</b>						
			80							//	/ i						11
12.5	84		70							<i>i</i>	/ //						41
10	72	l _							//	/							
5	50	PERCENT PASSING	60 —							//		++		+			+ $ $
2	38	ASS						/		//							
			50					/		/							11
0.63	24	CE	40				_/_		//	1							4
		P. H.				_	,		, , ,								
			30 —			/		/						+			+
80.0	5		00				,/										
$\vdash$			20	/			/										11
<u> </u>			10											_		_	41
			0		10									_			-
					0.2	0.63	, t	5	2.5	10	12.5	20 25		20	75 100	150	200
					J			PARTI	CLE SIZ	Œ (mm)							
Remarks:	20 mm mi	nus p	oarticle	size d	istributi	on limi	ts shov	vn									
Reviewed by:								P.Ge									



						ZE AN			REPC	RT						
PROJECT:	Meliadine	Dik	e Con	struction	on	_	IPLE N				_			A09		
						_ SAN	IPLE	DESC	RIPTI	ON:		mm n				
						=					sa	mpled	fron	n be	lt	
ADDRESS:	Meliadine					_										
	D: <u>E1410323</u>	0-01				_ MOI	STURI	E CO	NT. :				8	.4%		
DATE SAMPI	LED: Oct 26	6/16		Ву:	TW	_										
CLIENT:	Agnico E	agle				BUL	K REL	_ DEN	ISITY:					n/a		
ATTENTION:						BUL	K REL	DEI	NSITY	(SSD):			ı	n/a		
						APP	AREN	T RE	L. DEI	NSITY:			1	n/a		
						ABS	ORPT	ION:					ı	n/a		
		_														
PARTICLE	PERCENT		100 <b>г</b>													$\overline{}$
SIZE	PASSING										/	i				
-			90							<del>  /</del>		/				
			80							//		<b>,</b>				
			00							//	/					
12.5	89		70								-/-					+
10	83	(7)									1					
5	67	PERCENT PASSING	60													
2	52	PAS	50							/						
		Į.								/						
0.63	33	RCE	40				//		/							
		F						/								
0.00	4		30					/								
0.08	4		20		///		/									
			_,			/	,									
			10													+
			0 [		2 2	က	.25	ц С	n	2 0	75.	20 25	ç	000	0 0	
					0.2	0.63	~				12.5	00		Ω 1	100	150 200
							l	PARTI	CLE SIZ	ZE (mm)						
Remarks:	20 mm mi	inus p	oarticle	e size di	istributio	on limits	showr	า								
		_													_	_
Reviewed by	':	_						P.En	a		_		_	_		

			P	ARTIC	CLE S	SIZE	ANAL'	YSIS	REPO	RT					
PROJECT:	Meliadine	Dik	e Cons	structi	on	s	AMPLE	NO:					SA	10	
						s	AMPLE	DES	CRIPTI	ON:	<b>20</b> n	nm m	inus		
											sam	pled	from l	oelt	
ADDRESS:	Meliadine	Min	e												
PROJECT N	O: E1410323	0-01				N	IOISTU	RE CO	NT. :				7.1	%	
DATE SAMP	LED: Oct 27	7/16		By:	TW										
CLIENT:	Agnico E	agle				— в	ULK R	EL DEI	NSITY:				n/a	<u></u> а	
ATTENTION						— В	ULK R	EL. DE	NSITY	(SSD):			n/a	——— а	
							PPARE						n/a		
							BSORF						n/a		
PARTICLE	PERCENT		100 -												
SIZE	PASSING		100									/			
			90								<u> </u>				$\perp$
										/	/ !				
			80							,	<del>/                                     </del>				
			70							/ /	\j				
12.5	88		70						/		/				
10 5	78 60	S	60						/		/				$\perp$
2	46	PERCENT PASSING						/		/					
		A	50					/ /		/					
0.63	28	N	40				/		/	1					
		ER(	40				//		/						
		"	30			/		/							
0.08	6				//			/							
			20				1								
			40	//			1								
			10		7										
			o L												
					0.2	2	0.63	ς <u>γ</u>	5.5	5 10	2.5	20 25	50	75	150
						j.	0	<del>.</del>	ICLE SIZ		-			~	+ ()
		Ш													
Remarks:	20 mm m	nus	particle	size d	istribu	tion lin	nits sho	wn							
Reviewed by	<b>/</b> :							P.Er	ng.						



PROJECT:	Meliadine	. Dik				ZE AI	NALY MPLE		REPO	RT				SA11		
PROJECT.	Wellaume	DIN	e Collai	iructio	<u>'11</u>	_			CRIPTI	ON.		mm				
						_ SAI	VIPLE	DES	SKIPII	ON:						
						_					Sa	mple	a tro	m be	Ήt	
ADDRESS:	Meliadine					_										
	O: <u>E1410323</u>					_ мо	ISTU	RE CO	NT. :					6.1%	)	
DATE SAMP	LED: Oct 29	9/16		By:	TW	_										
CLIENT:	Agnico E	agle				_ BU	LK RE	L DEN	NSITY:					n/a		
ATTENTION:	: <u> </u>					_ BU	LK RE	L. DE	NSITY	(SSD):				n/a		
						API	PARE	NT RE	L. DEN	NSITY:				n/a		
						AB	SORP	TION:						n/a		
	,															
PARTICLE	PERCENT		100				ı		1							
SIZE	PASSING										///	/				
			90							<del>                                     </del>	1/	1				+
										/ /	<b>/</b>	/				
			80							//	$\uparrow \uparrow i$					
40.5	04		70							//	!					
12.5 10	91 82		70						/							
5	64	S S	60						//		$\not\vdash$					
2	49	PERCENT PASSING						/		/ /						
		M	50					///		/						
0.63	30		40				/		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
0.00		ER(	40						/							
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0.08	5				_/		,	/								
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			0 —	,	0.2	53	25	) I	2.5	5	12.5	20 25		50	75	150
				(	0.2	0.63	-	-			12	.,.,		4,	7 2	15
								PARII	ICLE SIZ	LE (mm)						
Remarks:	20 mm mi	nus	oarticle :	size di	stributi	on limit	s shov	vn								
Reviewed by								P.Er	na.							

			F	PARTIC	CLE S	IZE /	ANAL	YSIS F	REPO	RT						
PROJECT:	Meliadine	Dik	e Cor	structio	on	_ s	AMPLE	NO:					5	SA12	<u> </u>	
						_ s	AMPLE	DESC	CRIPTI	ON:	20	mm	minu	S		
						_					sa	mple	d fro	m be	≱lt	
ADDRESS:	Meliadine	Min	е													
PROJECT N	O: <u>E141032</u> 3	0-01				M	IOISTU	RE CO	NT.:				-	7.6%	)	
DATE SAMP	LED: Nov 0	1/16		Ву:	TW											
CLIENT:	Agnico E	agle				_ В	ULK RI	EL DEN	ISITY:					n/a		
ATTENTION:	:					— В	ULK RI	EL. DE	NSITY	(SSD):				n/a		
						_ A	PPARE	NT RE	L. DEN	ISITY:				n/a		
						_ A	BSORF	TION:						n/a		
PARTICLE	PERCENT		100						ı	1	_	4				
SIZE	PASSING										/ /	<i>[</i>				
			90							/		<del>/    </del>			++	+
										/	/ ;	'				
20	100		80							//	1					
12.5	89		70							//	//					
10	79	45							/		/					
5	63	PERCENT PASSING	60						//	/						+
2	49	ASS	50					//		/						
		F	50				,			/						
0.63	30	3CE	40				1/									$\perp$
		PEF				/	//		/							
			30		].	//		/								
80.0	5		20		//		/									
			20	_//			, ,									
			10													+
			0		2 2		<u>ო</u> .	n 1	Ω	2 0	2	2		20	2 0	
					0.2		0.63	<del>-</del>	N	~	12.	20 25		2	100	150
								PARTI	CLE SIZ	Œ (mm)						
Remarks:	20 mm m	nus p	articl	e size d	istribut	on lin	nits show	wn								
Reviewed by	/:							P.En	ıq.							



			PARTICLE	SIZI	E ANAL	YSIS	REPORT				
PROJECT:	Meliadine	Dike C	onstruction		SAMPLE	NO:			S	A13	
					SAMPLE	DES	CRIPTION:	20 mr	n minus	(Type	C Mat.)
									led from		
ADDRESS:	Meliadine	Gold F	roject, NU.								
PROJECT N	O: E1410323				MOISTU	RE CO	NT. :		11	.0%	
DATE SAMP	LED: Nov	02/16	By: TV	<u> </u>							
CLIENT:	Agnico E				BULK R	EL DEI	NSITY:	1	r	n/a	
ATTENTION:	•				BULK R	EL. DE	NSITY (SSD)	:	r	n/a	
		<u> </u>					L. DENSITY:		r	n/a	
					ABSORI	TION:			r	n/a	
PARTICLE	PERCENT	10				ı		1 1 1			
SIZE	PASSING							/ /i			
		9		+				<del>// /</del>			
		8						1   /			
20	100	0	,								
12.5	93	7						/			
10	85	(2)						/			
5	72	SING 6									
2	58	PAS 5	,				/				
		PERCENT PASSING					/				
0.63	33	BC 4					//				
		-				/					
0.08	4	3	)	///		/					
0.00		2		4							
			//	<u> </u>							
		1	/								
			0.2	0.315	0.63	25	5 5	12.5	25	75	150
			0	0.5	0	_	∾ ICLE SIZE (mm)	•			- ← ď
Remarks:	20 mm m	nus par	icle size distril	oution	limits sho	wn					
Reviewed by						D Fr	20				



			P	ARTIC	LE SI	ZE AN	NALY	'SIS F	REPO	RT						
PROJECT:	Meliadine	Dik	e Con	structio	n	SAN	ИPLE	NO:					S	SA14		
						SAN	ИPLE	DESC	CRIPTI	ON:	20	mm r	ninu	s (Ty	/pe C	Mat.
											Saı	mple	d fro	m be	elt	
ADDRESS:	Meliadine	Gol	d Pro	ject, NU												
PROJECT N	O: E1410323	0-01				MO	ISTUF	RE CO	NT.:				5	5.3%		
DATE SAMP	LED: Nov	03/16	5	By:	TW											
CLIENT:	Agnico E	agle	Mines	Ltd.		- BUI	_K RE	L DEN	NSITY:					n/a		
ATTENTION	: Mr. Duy N	lguy	en			– BUI	_K RE	L. DE	NSITY	(SSD):				n/a		
						– APF	PARE	NT RE	L. DEN	ISITY:				n/a		
						ABS	SORP	TION:						n/a		
		_														
PARTICLE	PERCENT		100 г						1			<b>A</b>				
SIZE	PASSING										/ /	$i \mid \cdot$				
			90									++		+		+
			80							1	<u> </u>					
20	100		00							//	/					
12.5	89		70											-		+
10	83	(3)									1					
5	69	PERCENT PASSING	60											+		$\top$
2	54	PAS	50							/						
		Ä								/						
0.63	33	RCE	40						/					+-		+
						.//		/								
0.08	13		30					/								
0.00	13		20				/							₩		$\perp \perp \downarrow$
						/										
			10											+		+
			٥													
			0 -		0.315	33	25		c. 7.	10	2:2	20 25		50	100	150
				C	0.3	0.63	-	-		` 'E (mm)	77			I	. 7	7
								FARII	OLE SIZ	. <b>-</b> (111111)						
Remarks:	20 mm mi	nus p	oarticle	e size dis	stributio	on limits	shov	vn								
-																
Reviewed by	<b>/</b> :							P.En	ıg.							



			P	ARTICI	LE SI	ZE AI	NALY	'SIS I	REPO	RT						
PROJECT:	Meliadine	Dik	e Con	struction	า	SAI	MPLE	NO:					8	SA15		
						SAI	MPLE	DESC	CRIPTI	ON:	20	mm ı	minu	s (Ty	/pe C	Mat.)
											Sa	mple	d fro	m be	elt	
ADDRESS:	Meliadine	Gol	d Pro	ject, NU.												
PROJECT N	O: E1410323	0-01				МО	ISTU	RE CO	NT.:				4	1.2%		
DATE SAMP	LED: Nov	05/16	5	By:	TW											
CLIENT:	Agnico E	agle	Mine	s Ltd.		- BU	LK RE	L DEN	NSITY:					n/a		
ATTENTION	: Mr. Duy N	lguy	en			- BU	LK RE	L. DE	NSITY	(SSD):				n/a		
						- API	PARE	NT RE	L. DEN	ISITY:				n/a		
						AB	SORP	TION:						n/a		
		_														
PARTICLE	PERCENT		100													
SIZE	PASSING										/ /	i				
			90									<del>/    </del>		+		
			80							/	<u> </u>					
20	100		00							/ <b>/</b>	/					
12.5	86		70							//	<del>-  </del>			$\vdash$		
10	80	(2)							//		<u>,                                    </u>					
5	66	PERCENT PASSING	60							/						
2	53	PAS	50					//		/				_		
		F								/						
0.63	37	RCE	40						/					+		
		1 2	00					/								
0.08	18		30					/								
0.00	10		20				/							_		
				//		'										
			10											+		
			0													
			0	0.0	15	33	25	) I	Z.5	5	.5	20 25		50	75	150 200
				C	0.315	0.63	-	-	N CLE SIZ		7			I	. 7	7
								FANII	CLE 312	.E (IIIII <i>)</i>						
Remarks:	20 mm mi	nus p	oarticl	e size dis	tributio	on limit	s shov	vn								
Reviewed by	<b>/</b> :							P.En	ıg.							



			F	PARTIC	LE SI	ZE AN	ALYS	IS F	REPO	RT							
PROJECT:	Meliadine	Dik	e Cor	structio	n	SAM	PLE N	0:					9	SA16	;		
						SAM	PLE D	ESC	RIPTI	ON:	20	mm r	minu	s (T	уре С	Mat.	)
						_	_				Saı	mple	d fro	m be	∍lt		
ADDRESS:	Meliadine	Gol	d Pro	ject, NU.	ı	_											
PROJECT N	O: E1410323	30-01				MOIS	STURE	COI	NT. :				4	4.9%	1		
DATE SAMP	LED: Nov	06/16	6	By:	TW	_											
CLIENT:	Agnico E	agle	Mine	s Ltd.		BULI	K REL	DEN	ISITY:					n/a			
ATTENTION	: Mr. Duy N	lguy	en			- BULI	K REL.	DEN	NSITY	(SSD):				n/a			
	_					APP	ARENT	REI	L. DEN	SITY:				n/a			
						ABS	ORPTI	ON:						n/a			
	DED 6 :	_															$\neg$
PARTICLE			100									<u> </u>				$\overline{}$	i
SIZE	PASSING										<i>i</i>   /	i					
			90							/	/ ;	$^{\prime + +}$		+		+	
			80							/	<u> </u>						
20	100										/						
12.5	88		70								<del>-  </del>	++		+		+	
10	82	ا ق									/						
5	68	PERCENT PASSING	60							/							
2	52	PAS	50					//		/	_	$\perp$		┷		$\perp \!\!\! \perp \!\!\! \perp$	
		F							,	·							
0.63	33	l RCI	40			./			/		+	++		+	++	+	
		=	30					/									
0.08	23		30				/										
0.00			20				/				_			_		$\dashv$	
			10		-1						+	++		+	++	+	
			0	7													
			Ū	0	0.315	0.63	.25	ر ب	) L	c 6	2.5	20 25		20	100	150	3
					0.3	Ö.	~		SLE SIZ		<del></del>			·	<del>-</del>	2 –	1
							•		OLL OIL	_ ()							Ш
Remarks:	20 mm m	inus p	oarticl	e size dis	tributio	n limits	shown										_
																	_
																	_
Reviewed by	<b>/</b> :						F	P.En	g.								



			P	ARTIC	LE SI	ZE AN	ALYSIS	S REP	ORT					
PROJECT:	Meliadine	e Dik					PLE NO					SA17		
						SAM	PLE DE	SCRIP	ΓΙΟΝ:	<b>20</b> m	m min	us (Ty	pe C	Mat.)
						_				Sam	pled fr	om be	lt	
ADDRESS:	Meliadine	Gol	d Proj	ect, NU		_								
PROJECT N	O: E1410323					– MOIS	STURE (	CONT. :		1		8.0%		
DATE SAMP				By:	TW	_								
CLIENT:	Agnico E					- BUL	K REL D	ENSIT	<b>′</b> :			n/a		
ATTENTION						_			Y (SSD):			n/a		
	<u></u>	- <u>5</u> -,	<del></del>				ARENT I		• •	•		n/a		
1						_	ORPTIO					n/a		
						0								
PARTICLE	PERCENT		100 _											
SIZE	PASSING													
			90							/ ;		+	Ш_	
									//					
			80						1//	1		+		+
20	100		70							1.				
12.5 10	94 87		70							/				
5	69	2	60							/				
2	53	PERCENT PASSING						/	/ /					
	- 55	T P/	50						//			+		+
0.63	36	l en	40						/					
		l H	40					/						
		-	30									+	-	+
0.08	19													
			20			/								
			10											
					1									
			<sub>0</sub> L											
				c	0.315	0.63	1.25	2.5	5 10	12.5	25	50	100	150 200
					0	J	PA	RTICLE S	IZE (mm)					
Domorto	20	ـــا	ortiols	ماتحد ما:م		an limita	ohown							
Remarks:	20 mm m	iiius	Janucie	size dis	SUIDUIIC	אווזווו ווכ	SHOWN							
Reviewed by	<b>/</b> :						Ρ.	Eng.						



PROJECT:	Meliadin	e Dike	e Con	struction	SAMP	LE NO:			SA1	8	
					SAMP	LE DESCR	PTION:	20 mm	minus (T	√ype C ľ	Mat.)
					<u> </u>			Sample	ed from b	elt	
ADDRESS:	Meliadin	e Gol	d Pro	ject, NU.	_			-			
PROJECT NO	D: <u>E141032</u>	30-01			_ MOIST	URE CONT	.:		4.5%	6	
DATE SAMPI	LED: Nov	08/16	<u> </u>	By: TW	_			-			
CLIENT:	Agnico E	agle	Mine	Ltd.	BULK	REL DENSI	TY:		n/a	1	
ATTENTION:	Mr. Duy I	Nguye	en		BULK	REL. DENS	ITY (SSD):		n/a	1	
					APPAI	RENT REL.	DENSITY:		n/a	l	
					ABSO	RPTION:			n/a	1	
Ī											
PARTICLE	PERCENT		100					<b>/</b>			$\overline{}$
SIZE	PASSING							/   <b>/</b>			
			90				/	///			+
			80				/	$\int i$			
20	100						j	/ /			
12.5	84		70				//	<u> </u>			+
10	73	၂ ဖ	00				/   /	/			
5	52	PERCENT PASSING	60				//				
2	40	PA	50			//	//				
0.00	20	H				/					
0.63	29	ERC	40								+
		-	30		//						
0.08	7		00			/					
			20			_					
			10								
			0								
				0.2	0.63	1.25	5 10	2.5	20	75	150 200
				o o	0	_	E SIZE (mm)	~		•	- (1
		<b>L</b>									
Remarks:	20 mm m	inus p	particl	e size distributi	on limits sh	nown					



		ъ	•		0.444	- NO				_			
PROJECT:	Meliadin	∌ DIK€	<u>∍ Con</u>	struction	_ SAMPI						A19		
					_ SAMPI	LE DESC	CRIPTI	ON:		m minu			<u>//at.</u> )
					_				Samp	oled fro	m belt	:	
ADDRESS:	Meliadin			ject, NU.	_								
PROJECT NO					_ MOIST	URE CO	NT. :			5	5.4%		
DATE SAMP	-	09/16		By: TW	_								
CLIENT:	Agnico E	agle	Mines	s Ltd.	_ BULK	REL DEN	NSITY:				n/a		
ATTENTION:	Mr. Duy I	<b>\guy</b>	en		_ BULK	REL. DE	NSITY	(SSD):			n/a		
					_ APPAF	RENT RE	L. DEN	NSITY:			n/a		
					_ ABSO	RPTION:					n/a		
DARTIO E	DEDOENT	г											
PARTICLE SIZE	PERCENT PASSING		<sup>100</sup> [						/ /				$\neg \bot$
SIZE	FASSING								'				
			90					/	//i				
			80					/	[ ]				
20	100							1	$ \cdot '$				
12.5	83		70					/ /	/				+
10	72	ပ					//	/	/				
5	51	NISS	60					//					
2	39	PA	50					//					
						,/		./					
0.63	28	PERCENT PASSING	40				1						+
		6	30										
0.08	7		30										
0.00	<u> </u>		20									_	
					/								
			10										
			o [										
			O	0.2	0.63	1.25	2.5	2 10	5 5	25	50	8 6	150
				0.3	o O			: ZE (mm)	<u> </u>			÷ ÷	5 ;
		l					ICLL 312	-L (IIIII)					
Remarks:	20 mm m	inus ŗ	oarticle	e size distributi	on limits sh	iown							
Reviewed by	/:					P.Er	ng.						



ADDRESS: Meliadine Gold Project, NU.  PROJECT NO: E14103230-01	PROJECT:	Meliadine	Dike		RTICLE ruction		SAMPL		KEP	JRI			SA	<b>A20</b>		
ADDRESS: Meliadine Gold Project, NU. PROJECT NO: E14103230-01 DATE SAMPLED: Nov 10/16 By: TW CLIENT: Agnico Eagle Mines Ltd. ATTENTION: Mr. Duy Nguyen  BULK REL DENSITY: n/a ABSORPTION: n/a ABSORPTION: n/a  PARTICLE PERCENT SIZE PASSING  10 79 5 66 2 51 10 79 5 66 2 51 0.63 35 0.08 6									CRIPT	ION:	20	) mm n			ne C	Mat.)
ADDRESS: Meliadine Gold Project, NU. PROJECT NO: E14103230-01  DATE SAMPLED: Nov 10/16 By: TW  CLIENT: Agnico Eagle Mines Ltd.  ATTENTION: Mr. Duy Nguyen  BULK REL. DENSITY: n/a  APPARENT REL. DENSITY: n/a  ABSORPTION: n/a  PARTICLE PERCENT SIZE PASSING  10 79 5 66 2 51 10 79 5 66 2 51 0 603 35 0 608 0 608 0 608 0 70 0 70 0 70 0 70 0 70 0 70 0 70 0		-									_					<u></u> ,
PROJECT NO: E14103230-01  DATE SAMPLED: Nov 10/16 By: TW  CLIENT: Agnico Eagle Mines Ltd.  ATTENTION: Mr. Duy Nguyen  BULK REL DENSITY: n/a  APPARENT REL. DENSITY: n/a  ABSORPTION: n/a  ABSORPTION: n/a  PARTICLE PERCENT SIZE PASSING  20 100 12.5 86 10 79 5 66 2 51  0.63 35  0.08 6  0.08 6  0.08 6	ADDRESS:	Meliadine	Gol	d Projec	et NU										-	
DATE SAMPLED: Nov 10/16					ot, 140.		MOISTI	IRF CO	ONT .				9,			
CLIENT: Agnico Eagle Mines Ltd.   BULK REL DENSITY:   n/a					Rv: TW								<u> </u>	770		
ATTENTION: Mr. Duy Nguyen BULK REL. DENSITY (SSD): n/a APPARENT REL. DENSITY: n/a ABSORPTION: n/a  PARTICLE PERCENT SIZE PASSING  20 100 12.5 86 10 79 5 66 2 51 0.63 35 0.08 6  0.08 6  20 100 0.08 6  PARTICLE SIZE (mm)							BIII K B	EI DE	NCITY				n	/2		
APPARENT REL. DENSITY: n/a n/a  ABSORPTION: n/a  PARTICLE PERCENT SIZE PASSING  20 100 12.5 86 10 79 5 66 2 51 0.63 35 0.63 35 0.08 6  0.08 6  PARTICLE SIZE (mm)					.tu.						_					
PARTICLE PERCENT SIZE PASSING  20 100 12.5 86 10 79 5 66 2 51 0.63 35 0.08 6	ATTENTION.	. Wil. Duy N	guy	en						-	_					
PARTICLE PERCENT SIZE PASSING  20 100 12.5 86 10 79 5 66 2 51  0.63 35  0.08 6  20 100 10 79 5 90 80 70 70 80 70 80 70 80 70 80 70 80 70 80 80 70 80 80 70 80 80 70 80 80 70 80 80 70 80 80 70 80 80 70 80 80 70 80 80 70 80 80 70 80 80 70 80 80 80 70 80 80 70 80 80 80 70 80 80 80 70 80 80 80 80 70 80 80 80 80 80 70 80 80 80 80 80 80 80 80 80 80 80 80 80										14 I I G KI	_					
SIZE PASSING  90  100  12.5 86  10 79  5 66  2 51  0.63 35  0.08 6  10 008 6  10 008 6  10 008 6  10 008 6							ADSUK	FIION	•				n	1a		
SIZE PASSING  20 100 12.5 86 10 79 5 66 2 51  0.63 35  0.08 6  10 70 10 79 10 70 10	PARTICLE	PERCENT														
20 100 12.5 86 10 79 5 66 2 51 0.63 35 0.08 6 20 10 0 70 10 0 80 0 80 0 80 0 80 0 80 0 80 0 80	SIZE	PASSING		100							//	/				$\Box$
20 100 12.5 86 10 79 5 66 2 51 0.63 35 0.08 6 0.08 6 0.08 6 0.08 6 0.09 00 0.09 00 0.00 00				90							/ /	<b>/</b> /				
20 100 12.5 86 10 79 5 66 2 51 0.63 35 0.08 6 0.08 6 0.08 6 0.08 6 0.09 00 0.09 00 0.00 00										/		!				
12.5 86 10 79 5 66 2 51 				80 —						+ /		<i>!</i>				++
12.3										//	j					
5 66 2 51 				70							$\top /\!\!\!/$					
0.08 6 20 10 20 89.0 PARTICLE SIZE (mm)			٥	60					//		//					
0.08 6 20 10 20 89.0 PARTICLE SIZE (mm)			ISSI							/						
0.08 6 20 10 20 89.0 PARTICLE SIZE (mm)	2	51	T PA	50				//		//						
0.08 6 20 10 20 89.0 PARTICLE SIZE (mm)	0.63	35	H													
0.08 6 20 10 20 89.0 PARTICLE SIZE (mm)	0.03	33	ER(	40					//							
0.08 6 20 10 10 27: 27: 27: 27: 27: 27: 27: 27: 27: 27:			"	30				/	·1							
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.08	6						/								
0.02 0.03 0.03 0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05				20			/									-
0.02 0.03 0.03 0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05				_			-									
PARTICLE SIZE (mm)  20.0  0.315  0.63  0.7  1.75  0.85  0.85  0.85  0.95				10												
PARTICLE SIZE (mm)  20.0  0.315  0.63  0.7  1.75  0.85  0.85  0.85  0.95				ا ، ا												
PARTICLE SIZE (mm)				-	7.5	315	63	25	5:2	70 0	2.5	20	50	75	2 8	20
					J	0.	o.				-				~	7 2
Remarks: 20 mm minus particle size distribution limits shown										_ ()						
	Remarks:	20 mm mi	nus p	particle s	size distrib	ution li	imits sho	wn								
	Reviewed by							ΡF	na							

Data presented hereon is for the sole use of the stipulated client. Tetra Tech EBA is not responsible, nor can be held or without the knowledge of Tetra Tech EBA.



			F	PARTICLE SI	ZE ANAL	YSIS R	REPOF	RT					
PROJECT:	Meliadine	∍ D <u>ik</u>	e Cor	nstruction	SAMPLE	E NO:					SA21		
					SAMPLE	E DESC	RIPTIO	N:	20 m	nm min	us (Ty	pe C	Mat.)
					<u>-</u> _					pled fr			
ADDRESS:	Meliadine	. Gol	d Prc	oject, NU.	_	· <del>-</del>							
PROJECT NO	O: E1410323	<b>30-01</b>	.023		MOISTU	RE CON	۱T. :				10.0%	D	
DATE SAMP	LED: Nov	12/16	6	By: IM	_								
CLIENT:	Agnico Ea	agle	Mine	s Ltd.	BULK R	EL DEN	SITY:				n/a		
ATTENTION:	: Mr. Duy N	1guy	en		BULK R	EL. DEN	SITY (	SSD):			n/a		
					APPARE	NT REL	DENS	SITY:			n/a		
					_ ABSORF	PTION:					n/a		
PARTICLE	PERCENT												
SIZE	PASSING		100							1			$\neg \neg \bot$
0.22			90						!				
			00						<i>j</i>				
			80					/	1				+
20	100		70					$^{\prime}$	/,				
12.5	95		70						/				
5	81	NG NG	60				/		<u> </u>			-	
	- 01	ASS				//		/					
		<del> </del>	50			/		,	+				
0.63	40	PERCENT PASSING	40				_/						
		PEI				/	/						
2.22			30			//			+				+
0.08	6		20			1							
			20		/								
			10	/					-			+-	+
			0										
			0	0.2	53	.25	ن ر <del>ن</del>	0 1	رن در در	25	50	100	150
	<u> </u>			0.2	0.63	~	¹ CLE SIZE		72 .	4.4	4, ,	, ,	15
						1 /1111		. (111111)					
Remarks:													
Reviewed by	<i></i>					P.Eng	g.						



			PAF	RTICLE S	IZE ANA	LYSIS	REPOR	Т				
PROJECT:	Meliad	ine Dik	e Constr	uction	SAMPI	LE NO:				SA	22	
					SAMPI	LE DES	CRIPTION	N:	20 mm	minus (	Туре С	Mat.)
									Sample	d from	belt	
ADDRESS:	Meliad	ine Gol	d Projec	t, NU.	_							
PROJECT N	O: <u>E1410</u>	3230-01	.023		MOIST	URE CO	NT.:			9.9	%	
DATE SAMP	LED: No	ov 13/16	<u> </u>	By: IM								
CLIENT:	Agnico	Eagle	Mines Lt	d.	BULK	REL DE	NSITY:			n/	а	
ATTENTION:	Mr. Du	y Nguy	en		BULK	REL. DE	NSITY (S	SD):		n/	а	
					APPAF	RENT RE	L. DENSI	ITY:		n/	а	
					ABSOI	RPTION:				n/	а	
PARTICLE	DEDCEN	- 11										
SIZE	PERCENT PASSING		100						/ /			$\neg \neg \bot$
SIZL	1 Addition	$\exists \sqcup$	00					/	//			
		1	90					//	<i>i</i>			
			80					//	/			
20	100						/		/			
12.5	90		70						/			
		_   ១	60					/	/			
5	71	PERCENT PASSING						/				
		-   ¥	50				/	/				
0.63	40	—  <u> </u>										
0.03	70	<b>-</b>    ₩	40		//		/					
		٦١ "	30		//							
0.08	6											
			20									
			10	/ _								
		41	10	.——								
		41	۰ ــــــ									
		$\dashv$		0.2	0.63	1.25	2.5	10	20 25 25	50	75 100	150 200
		$\dashv$		0	J	PART	ICLE SIZE (	(mm)				
Remarks:	Sample	—	.00									
iveillai ko.	Sample	ou al ZZ	.00.									
Reviewed by	/:					P.Er	na.					



				PARTICLE SIZ			KEPOI	KI.					
PROJECT:	Meliadine	<u>∍ Dike</u>	e Con	nstruction	SAMPL	E NO:					SA23		
					SAMPL	E DESC	RIPTIC	N:	20 mr	n minւ	ıs (Ty	pe C I	Vlat.)
					_				Samp	led fro	m be	lt	
ADDRESS:	Meliadine	e Gol	d Pro	ject, NU.	_								
PROJECT NO	D: E1410323	30-01	.023		MOIST	URE COI	NT.:				5.1%		
DATE SAMPL	_ED: Nov	14/16	 }	By: IM	-								
CLIENT:	Agnico E	agle	Mine		BULK	REL DEN	ISITY:				n/a		
ATTENTION:					_	REL. DEN		SSD):			n/a		
		<u>-3-7</u>				ENT REI	-	-			n/a		
					-	RPTION:	L. DLIN	J			n/a		
					_ /.200.						1.,, 0.		
PARTICLE	PERCENT	П	400										
SIZE	PASSING		100						/ /				
			90					/	<b>⊥/</b> /⊥				
		<u> </u>						/	//				
		i	80					<i>'</i>	<del>/                                    </del>				+
20	100							/ /	I				
12.5	83		70						/				$\Box$
		ပ္ခ	60				/		/				
5	51	SSII				/		/ /					
		I PA	50			/		/					
0.63	23	PERCENT PASSING				.1		<b>'</b>					
0.03	23	ER	40				/						
			30		/								
0.08	5												
			20		/	, '							+
					/								
			10										
			0										
			0	0.2		.25	ύ ru	10	2.5	25	50	100	150
				0.2	0.63	_			7		4, 1	, 5	5 4
		i L				PARII	CLE SIZE	: (mm)					
Remarks:	Sampled	at 17:	:00.										
Reviewed by:	_					P.En	~						



PROJECT NO: E1/DATE SAMPLED: CLIENT: Ag ATTENTION: Mr.  PARTICLE PERC SIZE PASS  20 10 12.5 88	1410323 Nov	30-01. 17/16 agle I	By By Mines Ltd.	y: IM	N	MOISTU BULK RI BULK RI APPARE	RE CO EL DEN EL. DE	NSITY: NSITY: NSITY	(SSD):		nm mi		elt	Mat.)
PROJECT NO: E1/ DATE SAMPLED: CLIENT: Ag ATTENTION: Mr.  PARTICLE PERC SIZE PASS  20 10 12.5 88 5 73 0.63 35	Nov function in the second sec	30-01. 17/16 agle I	.023 By Mines Ltd.	y: IM	B	BULK RI BULK RI APPARE	EL DEN EL. DE ENT RE	NSITY: NSITY EL. DEN	(SSD):			8.2% n/a n/a	elt	
PROJECT NO: E1/ DATE SAMPLED: CLIENT: Ag ATTENTION: Mr.  PARTICLE PERC SIZE PASS  20 10 12.5 88 5 73  0.63 35	Nov function in the second sec	30-01. 17/16 agle I	.023 By Mines Ltd.	y: IM	B	BULK RI BULK RI APPARE	EL DEN EL. DE ENT RE	NSITY: NSITY EL. DEN	(SSD):			n/a n/a		
DATE SAMPLED: CLIENT: Ag ATTENTION: Mr.  PARTICLE PERC SIZE PASS  20 10 12.5 88 5 73  0.63 35	Nov / gnico Ea Ir. Duy N	17/16 agle I	Mines Ltd.		B	BULK RI BULK RI APPARE	EL DEN EL. DE ENT RE	NSITY: NSITY EL. DEN	(SSD):			n/a n/a		
Ag	gnico Ea	agle l	Mines Ltd.		B	BULK RI	EL. DE	NSITY	(SSD):			n/a		
PARTICLE PERC SIZE PASS  20 10 12.5 88 5 73 0.63 35	CENT		en		B	BULK RI	EL. DE	NSITY	(SSD):			n/a		
PARTICLE PERC PASS  20 10 12.5 88  5 73  0.63 35	CENT	Nguye			A	PPARE	NT RE	L. DEN	-					
20 10 12.5 88 5 73 0.63 35	SSING	 T	100						ISITY:			n/a		
20 10 12.5 88 5 73 0.63 35	SSING		100		A	\BSORF	PTION:							
20 10 12.5 88 5 73 0.63 35	SSING		100									n/a		
20 10 12.5 88 5 73 0.63 35	SSING		100											
12.5 88 5 73 0.63 35	00		1			Т				/ /	<u>/</u>			
12.5 88 5 73 0.63 35	00		90						/	/ / i	<u> </u>			
12.5 88 5 73 0.63 35	00	. ]							//	1!				
12.5 88 5 73 0.63 35	'00 I	.	80			+			<del>                                     </del>	+i				+
5 73 0.63 35	00	.	70						//	/				
0.63 35	38	.	,					//	1	Į,				
0.63 35	73	SING	60			+			<del>                                     </del>	<del></del>	+			+
		PAS	50											
		PERCENT PASSING	50											
0.08 7	35	RCE	40					//						
0.08 7	$\longrightarrow$	<b>H</b>					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\						
0.00	7	.	30			†	/							
	<del>'</del>		20			<del>  //</del>	1							
						-								
		.	10			+								
		.	ه ا											
				0.2	0.315	0.63	1.25	2.5	10	2.5	20 25	90	75	150 200
				-	0	0	_	ICLE SIZ		~			•	Υ
Remarks: Sai			00											
Remarks: Sai	ampled a	ત્રા 1ઇ.	00.											



PROJECT:	Meliadine	Dike	e Construction	ZE ANALY SAMPLE		LIONI		SA25		
				SAMPLE		RIPTION:	20 mm m			Mat.)
				_	2200.		Sampled			
ADDRESS:	Meliadine	Gold	d Project, NU.	_			Gumpiou		<u> </u>	
PROJECT NO:			•	– Moistuf	E CON	IT ·		12.4%		
DATE SAMPLE	-			_ 111010101	L OON	••••		12.7/	<u>,                                      </u>	
CLIENT:			Mines Ltd.	– BULK RE	I DEN	SITV.		n/a		
ATTENTION:	Mr. Duy N			_		ISITY (SSD):		n/a		
ATTENTION.	Wir. Duy N	guye	en	_		DENSITY:	-			
				_ APPAREI		DENSITY:		n/a n/a		
				_ ADSURF	IION.			II/a		
PARTICLE	PERCENT									
SIZE	PASSING		100							$\Box$
			90				///			
			80				+/+			
20	100									
12.5	91		70			//	7/			
5	72	D D	60			//	/			
5	12	PERCENT PASSING				/				
		T P/	50							
0.63	38	CEN	40			/				
		PER	40							
			30	//	/					
80.0	7									
			20	_//						
			10							
<b>-</b>			0							
			0.2	0.63	2.5	5 10	12.5 20 25	20	75 100	150 200
			0	- `		LE SIZE (mm)				
Pomorto: C	ompled at 40	.00 '	overe of energy neter	lin atackaila						
Remarks: S	ampied at 19	.UU. L	Layers of snow noted	по втоскрпе.						

Data presented hereon is for the sole use of the stipulated client. Tetra Tech EBA is not responsible, nor can be held or without the knowledge of Tetra Tech EBA.



		PA	ARTICLE	SIZE ANA	LYSIS RE	<b>EPORT</b>			
PROJECT: Melia	adine Dik	e Cons	truction	SAMPI	LE NO:			SA26	
				SAMP	LE DESCR	RIPTION:	20 mm n	ninus (Type (	C Mat.)
							Sampled	d from stock	pile
ADDRESS: Melia	adine Gol	d Proje	ect, NU.	<del></del>					
PROJECT NO: E141	03230-01	.023		MOIST	URE CON	Т. :		11.5%	
DATE SAMPLED:	Nov 17/16	ô	By: IM						
CLIENT: Agni	co Eagle	Mines	Ltd.	BULK	REL DENS	SITY:		n/a	
ATTENTION: Mr. D	Ouy Nguy	en		BULK	REL. DENS	SITY (SSD):		n/a	
				APPAF	RENT REL.	DENSITY:		n/a	
				ABSO	RPTION:			n/a	
PARTICLE PERCE	AIT								
SIZE PASSIN		100		<u> </u>			1 /		$\neg \neg 1$
OILL		90							
		30				_ //	7 <i>i</i>		
		80		+			+/ $+$		
20 100						//	i		
12.5 90		70					7		
5 67	<u>9</u>	60				.//	<u> </u>		
3 01	HSS					//			
		50							
0.63 37	PERCENT PASSING	40				/			
					/	<b>'</b>			
200		30			1/				
0.08 7		20			/				
		[		/					
		10	/				+ +		
		۰Ł							
		0 -	0.2	0.315	.25	5 10	2.5 20 25 25	50 75 100	150
1			C (	0.3	~	_E SIZE (mm)	7	~	7 7
	11								
Remarks: Sam	pled at 19	:00. La <u>y</u>	yers of snow	v noted in sto	ckpile.				
Remarks: Sam	oled at 19	:00. Lay	yers of snow	v noted in stc	ockpile.				



PROJECT:	Meliadin	e Dike	e Const	ructio	n	SAN	PLE N	Ю:						SA	27		
						- San	PLE D	DESC	RIPT	ION:		20 m	m mi	nus	(Тур	e C	Mat.)
						_	_						pled 1				
ADDRESS:	Meliadin	e Gol	d Proje	ct, NU.		_											
PROJECT NO	): <u>E141032</u>	30-01	.023			MOI	STURE	COI	NT. :					11.	2%		
DATE SAMPL	.ED: Nov	19/16	<u> </u>	Ву:	SH	_											
CLIENT:	Agnico E	agle	Mines I	_td.		BUL	K REL	DEN	ISITY:	•				n/	a		
ATTENTION:	Mr. Duy I	Nguy	en			BUL	K REL	. DEI	NSITY	(SSD	):			n/	a		
						_	AREN		L. DEI	NSITY	<b>'</b> :			n/			
						_ ABS	ORPTI	ION:						n/	а		
PARTICLE	PERCENT	П															
SIZE	PASSING		100														
			90								_/_	<b>/</b> /i			$\perp$	4	$\perp \perp$
										/	·	!					
	400		80							+/		1			+	+	+
20 12.5	100 85		70							//		/					
12.3	03								/			į					
5	61	PERCENT PASSING	60						<i>'</i>		/				+	_	+
		PAS	50					//		/							
		Ä	30							/							
0.63	36	ERCE	40						/						+	+	+
			20					_/									
0.08	7		30				/										
5.55	-		20	.//			/								+	+	+
				//		/											
			10														
			ه ک														Ш
				c	0.315	0.63	1.25	C R	C.7	2	10.5		25	50	75	100	150
					0	J	-	PARTIC	CLE SI		,						
Remarks:																	
. tomarks.																	
-																	



PROJECT:	Meliadin	e Dik	e Cons	structio	n	S	AMPLE	E NO:						SA	28		
						 	AMPLE	E DES	CRIPT	ION:		20 m	m mi	nus (	Туре	e C I	Mat.)
													pled f				
ADDRESS:	Meliadin	e Gol	d Proj	ect, NU	ı <u>.                                    </u>												
PROJECT NO	: <u>E141032</u>	30-01	.023			M	OISTU	IRE CO	NT.:					9.2	%		
DATE SAMPL	ED: Nov	19/16	<u> </u>	Ву:	SH												
CLIENT:	Agnico E	agle	Mines	Ltd.		B	ULK R	EL DEI	NSITY	:				n/	a		
ATTENTION:	Mr. Duy l	Nguy	en			B	ULK R	EL. DE	NSITY	(SSE	)):			n/	a		
						A	PPARE	ENT RE	L. DE	NSITY	<b>′</b> :			n/	a		
						A	BSORI	PTION:						n/	<u>a</u>		
PARTICLE	PERCENT	П															
SIZE	PASSING		<sup>100</sup> [									1			$\top$	T	
<u> </u>		11	90								/						
			00								/	<b>/</b> į					
			80							<del>  /</del>		//			+	+-	+
20	100		70							/		!					
12.5	78		70						/		/	/					
5	54	S S	60						/	_/	/				_	_	
	<u> </u>	PERCENT PASSING						//		/ /	/						
			50					/		/							
0.63	28	RCE	40				/		/						_		
		#				_/	//		/								
0.00			30			//		/							+		
80.0	5	11	20				,,'								$\perp$		
		11					/										
		11	10		. – –										+		
		]	ا و														
			0 -		0.2	)	0.63	1.25	2.5	2	10	) (	25	50	75	00	150 200
				,	S 6	5	o	_	™ ICLE SI	ZE (mn	,	:				_	<b>−</b> Ø
		J L								,	•						
Remarks:																	



			P	ARTIC	LE SI	ZE ANAL	YSIS	REPO	RT					
PROJECT:	Meliadir	e Dik	e Con	structio	n	SAMPL	E NO:					SA29	ł	
						SAMPL	E DES	CRIPTI	ON:	20 m	m min	us (Ty	/pe C	Mat.)
							Sam	npled at	fter belt	(mixe	d by lo	ader)		
ADDRESS:	Meliadir	e Gol	d Proj	ect, NU	•									
PROJECT N	O: <u>E141032</u>	30-01	.023			MOIST	JRE CO	NT. :				11.9%	)	
DATE SAMP	LED: Nov	19/16	<u> </u>	Ву:	SH									
CLIENT:	Agnico	Eagle	Mines	Ltd.		BULK	REL DEI	NSITY:				n/a		
ATTENTION	: Mr. Duy	Nguy	en			BULK	REL. DE	NSITY	(SSD):			n/a		
						APPAR	ENT RE	L. DEN	ISITY:			n/a		
						ABSOR	PTION:					n/a		
PARTICLE	PERCENT	Т												
SIZE	PASSING		<sup>100</sup> [							/ /				$\neg \neg \bot$
- OILL	17.00	11	90						/					
		11	30							j				
			80							1				-
20	100								//	i				
12.5	93	4	70					//		/				
5	74	၂၂ ဗွ	60					//		/				
3	74	PERCENT PASSING							/					
		<u> </u>	50						,'					
0.63	39		40			//		/						
							٠	/						
		41	30				//							++
80.0	7	41	20				1							
		+	20			_/								
		-	10	//_										
		1												
			0 L	(	7 15		.25	2.5	5 01	ri č	25	50	100	9 9
				C	0.315	0.63	_			12	I (V	() (	, 0	150
							FARI	ICLE SIZ	. <b>-</b> (mm)					
Remarks:														
Reviewed by	<i>r</i> :						P.Er	ng.						



PROJECT:	Meliadin	∍ Dik∈	∍ Cor	struction	SAMPL	E NO:			SA30	)	
					SAMPL	E DESCRIP	TION:	20 mm	minus (Ty	уре С Ма	<u>.t.)</u>
					<u>_</u>	Sample	d after belt				
ADDRESS:	Meliadine	∍ Gol	d Pro	ject, NU.	_						
PROJECT NO	O: E1410323	30-01	.023		MOIST	URE CONT.	:		11.1%	<u>′</u>	
DATE SAMPI	LED: Nov	21/16	<u>,                                      </u>	By: SH	_						
CLIENT:	Agnico E	agle	Mine	s Ltd.	_ BULK F	REL DENSIT	Ύ:		n/a		
ATTENTION:	Mr. Duy N	\guy(	∍n		_ BULK F	REL. DENSI	TY (SSD):		n/a		
					_ APPAR	ENT REL. D	ENSITY:		n/a		
					_ ABSOR	PTION:			n/a		
PARTICLE	PERCENT	П									
SIZE	PASSING		100					1 /			$\neg$ $\downarrow$
0122	17.00		90					///			_
							//	<b>/</b>   <u>i</u>			
			80			_		+/+		+++	+!
20	100		70				//				
12.5	91		/0					7			7/
5	66	NG NG	60			- //		<del></del>			-  !
							/				
		l F	50				//				7
0.63	37	PERCENT PASSING	40			·	/				ا <u>ا</u>
		H H				//					!
0.08	7		30			/					1
0.00			20			1					4
				.//	/						
			10	/	-	+ +		+++			+
			0								
				0.2	0.63	2.5	5 01	2.5 20 25	20	75 100 150	8
				0.	0.	PARTICLE		<del>-</del>		~ ~	2
		. L									
Remarks:											
											—



			P	ARTICLE	SIZ	E ANAL	YSIS	REPO	RT					
PROJECT:	Meliadine	Dike	Cons	struction		SAMPLE	NO:					SA31		
						SAMPLE	DES	CRIPTI	ON:	20 m	m min	us (Ty	уре С	Mat.)
							Sam	pled a	fter belt	(mixe	d by lo	oader)		
ADDRESS:	Meliadine	Gol	d Proj	ect, NU.										
PROJECT N	O: <u>E1410323</u>	<del>30-01</del> .	.023			MOISTU	RE CO	NT.:				4.5%	ı	
DATE SAMP	LED: Nov	23/16	<u> </u>	By: SH	/IM									
CLIENT:	Agnico E	agle l	Mines	Ltd.		BULK R	EL DEI	NSITY:				n/a		
ATTENTION:	Mr. Duy N	lguye	en			BULK R	EL. DE	NSITY	(SSD):			n/a		
						APPARE	NT RE	L. DEN	ISITY:			n/a		
						ABSORI	PTION:					n/a		
DADTIOL E	DEDOENT	_												
PARTICLE SIZE	PERCENT PASSING		100 Г							/ /			$\overline{\Box}$	$\neg \neg 1$
SIZE	FASSING								/	/				
			90						/	<b>/</b> /				
			80						$\parallel / \parallel$	//		$\perp$	$\vdash$	$\perp \parallel \parallel$
20	100								/	/ ;				
12.5	79		70					_/		/				+
		ā	60					/		/				Ш
5	45	PERCENT PASSING					/	·	///					
		T PA	50				/		//			_		+
0.63	22	N	40			/								
		)ER(	40			/								
		-	30			/	//					_	$\vdash$	+
0.08	6				1		<b>,</b>							
			20	//										
			10										$\perp \perp$	$\perp \perp \mid$
			<sub>0</sub> L	21	2	<u> </u>	0	10	s 0	2 2	. 10		10 0	
				0.2	0.315	0.63	_	7		12.5	25	50	100	150
							PART	ICLE SIZ	E (mm)					
Remarks:														
			_											
Reviewed by	<b>/</b> :						P.Er	ng.						

PROJECT:	Meliadine		PARTICLE SIZ	SAMPLE			A32
				SAMPLE	Sampled after belt	•	(Type C Mat.)
ADDRESS:	Meliadine	Gold Pro			Campica arter ben	•	
	O: E1410323		, , , , , , , , , , , , , , , , , , , ,	MOISTUR	E CONT. :	10	.3%
DATE SAMP	LED: Nov	23/16	By: SH/IM				
CLIENT:	Agnico E	agle Mine	es Ltd.	<b>BULK RE</b>	L DENSITY:	r	n/a
ATTENTION:	Mr. Duy N	lguyen		<b>BULK RE</b>	L. DENSITY (SSD):	r	n/a
				APPAREN	IT REL. DENSITY:	r	n/a
				ABSORP	ΓΙΟΝ:	r	n/a
DADTICI E	DEDCENT	1					
PARTICLE SIZE	PERCENT PASSING	100					
SIZE	1 7001140	00				/ <b>/</b>	
		90			/	/ /	
		80			//	1	
20	100				//	$ \cdot '$	
12.5	91	70				<u>'</u>	
5	67	<b>9</b> 60				/	
5	67	PERCENT PASSING					
		<b>6</b> 50 <b>1 1 1 1 1 1 1 1 1 1</b>			// //		
0.63	34	US 40					
		PER					
		30			/		
0.08	6	20					
		20					
		10					
		0	2 - 15 -	- 63	2.5	2.5 20 25 25	
			0.2	0.63		2 2 2	75 75 100 150 200
					PARTICLE SIZE (mm)		
Remarks:							
							_
Reviewed by	,.				P.Eng.		

			Р	ARTICLE S	SIZE	ANAL'	YSIS	REPO	RT						
PROJECT:	Meliadine	Dik	e Con	struction	_	SAMPLE	NO:					SA	33		
					_	SAMPLE	DES	CRIPTI	ON:	Тур	oe C -	20 mr	n		
							Sam	npled f	rom Da	yshift	Stock	cpile			
ADDRESS:	Meliadine	Gol	d Pro	ject, NU.											
PROJECT NO	O: <u>E1410323</u>	30-01	.023		'	MOISTU	RE CO	NT.:				7.5	%		
DATE SAMP	-			By: SH/I	VI_										
CLIENT:	Agnico E	agle	Mines	s Ltd.	_ •	BULK R	EL DEI	NSITY:				n/	а		
ATTENTION:	Mr. Duy N	lguy	en		_	BULK R						n/			
İ						APPARE			NSITY:			n/			
					_ ′	ABSORF	PTION:					n/	<u>a</u>		
PARTICLE	PERCENT														
SIZE	PASSING		100							/	/!			$\overline{}$	I
			90						/						
									/ /	/ !					
			80						<del>  / /</del>	/ /				+	$\exists 1$
20 12.5	100 87		70						//	1					
12.3	01		, ,					/							
5	55	PERCENT PASSING	60					,/	///					_	+
		ASS	50				/		//						
		Ä	30				/		/						
0.63	23	RCE	40			//		/						_	-
		PE				-	/								
0.08	4		30		/		/								
0.00	·		20			//								_	
				./		+									
			10												
			<sub>0</sub> [												_
				0.2	)	0.63	1.25	2.5	5 10	12.5	20 25	50	75	150	500
				C	)	υ,		ICLE SIZ		`			·	•	
Remarks:															
. tomal no.	-														—
Reviewed by	<u></u>			_			P.Er	าต							

			F	PARTICLE SIZ	ZE ANAL	YSIS I	REPOR	Т				
PROJECT:	Meliadin	e Dik	e Cor	nstruction	SAMPL	E NO:				SA3	34	
					SAMPL	E DES	CRIPTION	N:	Type C	- 20 mm	1	
						Sam	pled afte	er belt				
ADDRESS:	Meliadin	e Gol	d Pro	oject, NU.	•							
PROJECT NO	O: <u>E141032</u>	30-01	.023		MOISTU	IRE CO	NT.:			6.79	%	
DATE SAMP	LED: Nov	26/16	6	By: SH					,			
CLIENT:	Agnico E	agle	Mine	s Ltd.	BULK R	EL DE	NSITY:			n/a	ì	
ATTENTION:	Mr. Duy	Nguy	en		BULK R	EL. DE	NSITY (S	SSD):		n/a	ì	
					APPARI	ENT RE	L. DENS	ITY:		n/a	ì	
					ABSOR	PTION:				n/a	1	
PARTICLE	DEDCENT	П										
SIZE	PERCENT PASSING		100									$\neg \neg \bot$
SIZE	1 Addito	11	90					/	/			
		11	90					/	<b>/</b> i			
		]	80					///	1		++	
20	100	]					,	/ /	i'			
12.5	82		70						,			
		၂၂ မွ	60				/	/ /	1		$\perp \perp$	
5	53	PERCENT PASSING				/		//				
		}	50			/		/				
0.63	24	11 8	40		/		//					
		]	40									
		]  _	30			/					++	
0.08	4	41	20									
		-	20									
		$\{ \}$	10		. – '						+	
		11										
		11	0	21 22	· · · · · · · · · · · · · · · · · · ·	10	o o	0 10	0 40			
		]		0.2	0.63	_	<b>%</b>	10 12 5	20 25 25	50	75 100	150
						PART	ICLE SIZE (	(mm)				
Remarks:												
-												
Reviewed by	/:					P.Er	ng.					

			P	ARTICL	E SIZ	ZE ANA	LYSIS	REPO	RT					
PROJECT:	Meliadine	Dik	e Con	struction		SAMP	LE NO:					SA35	5	
						SAMP	LE DES	CRIPTI	ON:	Тур	e C - 2	0 mm		
							San	npled f	rom Day	/shift \$	Stockp	ile		
ADDRESS:	Meliadine	e Gol	d Pro	ject, NU.										
PROJECT N	O: <u>E1410323</u>	30-01	.023			MOIST	URE CO	NT.:				8.0%	<u>,</u>	
DATE SAMP	LED: Nov	26/16	<u> </u>	By: S	H/IM									
CLIENT:	Agnico E	agle	Mine	s Ltd.		BULK	REL DE	NSITY:				n/a		
ATTENTION:	Mr. Duy l	<b>lg</b> uy	en			BULK	REL. DE	NSITY	(SSD):			n/a		
							RENT RE		NSITY:			n/a		
						ABSO	RPTION:	•				n/a		
PARTICLE	PERCENT													
SIZE	PASSING		100							/				
- OILL			90							/ //				
			30						/	/ i				
			80						//	/ /				
20	100								///	- i				
12.5	87		70					/		/				
5	62	S S	60					/		/				
<u> </u>	02	PERCENT PASSING					/		/					
		L P/	50						/					
0.63	31	CEN	40					/	1					
		PER						/						
			30				//							
80.0	6		20	J.			/							
			20											
			10											
			0 1	0.2	15		5	2.5	5 0	rvi d	25	- 06	100	9 9
				Ö	0.315	0.63	_			7 ,	v (v	4)	7	150
							PAKI	ICLE SIZ	(mm)					
Remarks:														
Reviewed by	<i>r</i> :						P.Eı	na.						

			F	PARTICL	E SI	ZE A	NAL'	YSIS I	REPO	RT						
PROJECT:	Meliadin	e Dik	e Cor	nstruction		SA	MPLE	NO:					SAS	36		
						SA	MPLE	DESC	CRIPTI	ON:	Ту	oe C - 2	20 mm	ı		
								Sam	pled N	lovemb	er 29	N/S				
ADDRESS:	Meliadine	e Gol	d Pro	ject, NU.		_										
PROJECT N	O: <u>E141032</u> 3	30-01	.023			_ MC	DISTU	RE CO	NT.:				7.1	%		
DATE SAMP	LED: Nov	29/16	6	By: S	H/IM	_										
CLIENT:	Agnico E	agle	Mine	s Ltd.		BU	LK R	EL DEN	NSITY:				n/a	a		
ATTENTION:	Mr. Duy I	Nguy	en			BU	LK R	EL. DE	NSITY	(SSD):			n/a	a		
						AP	PARE	NT RE	L. DEN	ISITY:			n/a	a		
						_ AB	SORF	PTION:					n/a	a		
PARTICLE	PERCENT	П														$\neg$
SIZE	PASSING		100													1
0			90								/ /					
			00							/ /	/!					
			80							/	//					$\  \ $
20	100		70							///	i					
12.5	82		70						/		/					
5	50	NG NG	60						/					$\perp$		$\  \ $
		PERCENT PASSING	<b>5</b> 0					/		//						
			50				,	/		/						11
0.63	24	  CEI	40				_/_		//					$\perp$		$\  \ $
		H				_/	, '									
0.08	4		30					/								11
0.08	4		20				/									
				//			/									
			10	/												11
			0													
			Ů	0.2	0.315	0.63	L	ς, i	7.5	5 0	12.5	20 25	20	75	150	8
				3	0.:	Ö	•	_	CLE SIZ		<del>-</del>			~	~	.
										. ,						
Remarks:																—
Reviewed by	<i>r</i> :							P.En	ng.							

without the knowledge of Tetra Tech EBA.



			Р	ARTIC	LE SI	ZE AN	ALYSI	S RE	PORT	Γ					
PROJECT:	Meliadine	Dike	e Con	struction	า	SAM	PLE NO	:					SA37	,	
						SAM	PLE DE	SCRI	PTION	l:	Туре	C - 20	mm		
							S	ample	d fron	n Belt					
ADDRESS:	Meliadine	Gol	d Pro	ject, NU.											
PROJECT NO	D: <u>E1410323</u>	0-01	.023			MOIS	TURE (	CONT	. :				14.3%	6	
DATE SAMP	LED: Nov	30/16	5	By:	SH/IM	="									
CLIENT:	Agnico E	agle	Mines	s Ltd.		BUL	K REL D	ENSI	TY:				n/a		
ATTENTION:	Mr. Duy N	lguy	en			BUL	K REL. I	DENS	ITY (S	SD):			n/a		
						APP	ARENT	REL. I	DENSI	TY:			n/a		
						ABS	ORPTIO	N:					n/a		
		_													
PARTICLE	PERCENT		100 <b>[</b>								/ /				<del></del>
SIZE	PASSING									/	1				
			90							1/	1				
			80								$\downarrow i$				
20	98									<b>'</b>	/				
12.5	91		70								<del>'</del> /				
		g	00						.'		1				
5	76	PERCENT PASSING	60					_/		/					
		PAS	50				///			<u> </u>					
0.63	43						/		/						
0.63	43	ERC	40			//		/							
		=	30			/		/							
0.08	6				//		/								
			20				/								+
			4.0	///											
			10												
			o L												
				0	0.315	0.63	.25	2.5	2	10	20	25	20	75 100	150 200
					0.	0	PA	RTICLE	E SIZE (r					•	
Remarks:															
nemarks:															
Reviewed by							D	Eng.							

without the knowledge of Tetra Tech EBA.

			F	PARTICLE S	SIZE	ANAL	/SIS I	REPO	RT					
PROJECT:	Meliadine	Dik	e Cor	nstruction	;	SAMPLE	NO:				;	SA38		
					_ ;	SAMPLE	DESC	CRIPTIC	ON:	Туре	C - 20	mm		
							Sam	pled fr	om Belt					
ADDRESS:	Meliadine	Gol	d Pro	ject, NU.										
PROJECT N	O: <u>E1410323</u>	0-01	.023		ı	MOISTU	RE CO	NT. :			1	13.3%	1	
DATE SAMP	LED: Dec	02/16	5	By: SH/II	<u> </u>									
CLIENT:	Agnico E	agle	Mine	s Ltd.	'	BULK R	EL DEN	NSITY:				n/a		
ATTENTION:	Mr. Duy N	lguy	en			BULK RE						n/a		
					_	APPARE			SITY:			n/a		
					_ ′	ABSORF	TION:					n/a		
PARTICLE	PERCENT	Т												
SIZE	PASSING		100							/ /				o
			90						/	///				
										j				
			80						,	11		+		+
20	100		70						/	ļ <i>i</i>				
12.5	91		70					/		}'				
5	80	PERCENT PASSING	60					/		/				
		ASS	50				/		/					
		F	30				′		/					
0.63	48	RCE	40			//		/						
		H					/							
0.08	6		30		/		/							
0.00			20			/								
				1		. + _								
			10											
			0											
				0.2	5	0.63	, (	ري د	c 0t	20	25	50	100	150 200
					•	0 7	-	CLE SIZ		•				"
Remarks:														
. tomains.														
Reviewed by	/:						P.En	na.					_	



			Р	ARTICL	E SIZ	ZE A	NAL	/SIS I	REPC	RT							
PROJECT:	Meliadine	Dike	e Con	struction		SA	MPLE	NO:					;	SA39	)		
						SA	MPLE	DES	CRIPTI	ON:	T	/pe C	- 20	mm			
								Sam	pled f	rom Be	elt						_
ADDRESS:	Meliadine	Gol	d Pro	ject, NU.		•											
PROJECT NO	D: <u>E1410323</u>	0-01	.023			MC	ISTU	RE CO	NT.:		_		1	3.8%	ó		_
DATE SAMPI	LED: Dec	03/16	<u> </u>	By: IN	1/SH						_						_
CLIENT:	Agnico E	agle	Mines	Ltd.		BU	LK R	EL DEI	NSITY:		_			n/a			_
ATTENTION:	Mr. Duy N	lguy	en			BU	LK R	EL. DE	NSITY	(SSD)	: _			n/a			_
										NSITY:	_			n/a			_
						AB	SORF	TION:			_			n/a			_
PARTICLE	PERCENT	T															٦
SIZE	PASSING		100												$\overline{1}$		
0			90									/					
			00							//		$j \mid \cdot \mid$					
			80							/		/		+	++		
20	100		70							/	$   _{i}$						
12.5	94		70						/		\						
5	82	S <sub>N</sub>	60						/								
		PERCENT PASSING						/		/							
		ΑÞ	50					/		/							
0.63	57	CEI	40		$\mathcal{L}$		_/_		/								
		PEF				_/	, '	./									
0.00			30					/									
0.08	6		20	//			_/										
			10	/													
			0														
			Ü	0.2	0.315	0.63	ц	C !	2.5	2 2	12.5	20		20	100	150 200	
				0	0.8	0.0	7	_		ZE (mm)					<del>-</del>	← Q	
										()							ل
Remarks:	Sampled a	at 02:	00 (N	ight shift)													_
																	_
Reviewed by								P.Er									_

without the knowledge of Tetra Tech EBA.



		Dile		ICLE SIZ			REPORT	Γ		0.4	10	
PROJECT:	Meliadine	DIKE	Construc	tion	SAMPLE		DIDTION	ı	T 0	SA4		
					SAMPLE		RIPTION		Type C -	20 mm	1	
4555500						Sam	pled from	1 Beit				
ADDRESS:			d Project, I	NU.	MOIOTII	DE 001						
	O: <u>E1410323</u>				MOISTU	RE COI	NI.:			14.4	<u>-%</u>	
DATE SAMP	-			r: IM								
CLIENT:			Mines Ltd.		BULK R					n/a		
ATTENTION:	Mr. Duy N	guye	en				NSITY (SS	-		n/a		
							L. DENSI	TY:		n/a		
					ABSORF	TION:				n/a	ì	
PARTICLE	PERCENT											$\overline{}$
SIZE	PASSING		100									$\neg \Box$
0.22	7,00,110		90						/			
			90					/	i			
			80					/-	1			
20	100						//		i			
12.5	97		70						/			
		ō	60		/		/	/	1			
5	95	PERCENT PASSING				/		/				
		l PA	50	$-\!$		/						-
0.63	77	ËN			/							
0.03	,,	ER(	40		/		/					
		"	30			_/						
0.08	6			<b>/</b>		/						
			20								_	
					/							
			10	.——								
			-	0.2	0.63	57: 57:		10 12 5	20 22	20	75	150
				0.8	· ·	_	` CLE SIZE (n		<u>-</u>		~	- 0
Remarks:	Sampled a	at 03:	00 (Night s	hift)								
Reviewed by	<i>,</i> .					P Fn	a					

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SAMPLE DESCRIPTION: Type C - 20 mm   Sampled from stockpile	PROJECT:	Meliadine	Dike		TICLE SI		LE NO:	IXEI O	IX I			SA41		
Sampled from stockpile						_		CRIPTIC	ON:	Type (				
ADDRESS: Meliadine Gold Project, NU.  PROJECT NO: E14103230-01.023  DATE SAMPLED: Mar 11/17 By: SH  CLIENT: Agnico Eagle Mines Ltd.  ATTENTION: Mr. Duy Nguyen  BULK REL DENSITY: n/a  APPARENT REL. DENSITY: n/a  ABSORPTION: n/a  PARTICLE PERCENT SIZE PASSING  20 100  12.5 92  5 69  5 69  6.7%  MOISTURE CONT.: 6.7%  MOISTURE CONT.: 6.7%  MOISTURE CONT.: 6.7%  BULK REL DENSITY: n/a  ABSORPTION: n/a  100  90  80  70  80  70  80  80  70  90  80  70  80  80  70  80  80  70  80  8						_								
PROJECT NO: E14103230-01.023   MOISTURE CONT.: 6.7%	ADDRESS:	Meliadine	Gol	d Project,	NU.	-		•						
DATE SAMPLED:   Mar 11/17   By: SH						- MOIST	URE CO	NT.:				6.7%		
CLIENT: Agnico Eagle Mines Ltd.   BULK REL DENSITY:   n/a					By: SH	-								
ATTENTION: Mr. Duy Nguyen BULK REL. DENSITY (SSD): n/a APPARENT REL. DENSITY: n/a ABSORPTION: n/a  PARTICLE PERCENT SIZE PASSING  20 100 12.5 92 5 69 5 69 0.63 31 0.08 5 0.08 5 0.08 5 PARTICLE SIZE (mm)		-				- BULK	REL DEI	NSITY:				n/a		
PARTICLE PERCENT SIZE PASSING 90 90 12.5 92 50 60 5 69 5 69 5 69 5 69 5 60 100 100 10.63 31 00 100 100 100 100 100 100 100 100						_			(SSD):					
PARTICLE   PERCENT   100   90   80   70   12.5   92   90   80   70   90   12.5   92   90   80   90   90   90   90   90   90		<u> </u>	<u> </u>			_			-					
PARTICLE PERCENT SIZE PASSING  20 100 12.5 92 5 69 0.63 31 0.08 5 0.08 5 0.08 5 0.08 5 0.08 5 0.08 5 0.08 5 0.09 0.08 5 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09						_								
SIZE PASSING  90  100  12.5 92  5 69  0.63 31  0.08 5  0.08 5  0.08 5  PARTICLE SIZE (mm)						-								
SIZE PASSING  20 100 12.5 92  5 69  0.63 31  0.08 5  10 0  1				100										
80 100 12.5 92 50 60 50 60 50 60 50 60 50 60 50 60 50 60 60 60 60 60 60 60 60 60 60 60 60 60	SIZE	PASSING								///				
20 100 12.5 92 5 69 0.63 31 0.08 5 0 10 0 20 10 0 20 10 10 10 10 10 10 10 10 10 1				90						/ <u>/</u>				
20 100 12.5 92 5 69 0.63 31 0.08 5 0 10 0 20 10 0 20 10 10 10 10 10 10 10 10 10 1									_//	/				
12.5 92  5 69  0.63 31  0.08 5  10  0 7 10  0 8 10  10  0 8 10  10  0 9 10  10  10  10  10  10  10  10  10  10	20	100		80					//	11				
5 69  0.63 31  0.08 5  0.08 5  PARTICLE SIZE (mm)				70					/	_//				<u>Ш</u> П
0.08 5  0.08 5  10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12.5	32								/				
0.08 5  0.08 5  0.08 5  0.08 5  0.08 5  0.08 5  0.08 5  0.08 5  0.08 6  0.08 7  0.08 6  0.08 7  0.08 6  0.08 7  0.08 6  0.08 6  0.08 7  0.08 6	5	69	SING	60										+HI
0.08 5  0.08 5  0.08 5  0.08 5  0.08 5  0.08 5  0.08 5  0.08 5  0.08 6  0.08 7  0.08 6  0.08 7  0.08 6  0.08 7  0.08 6  0.08 6  0.08 7  0.08 6			PAS	50			//		/					
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0.08 5  0.08 5  0.08 5  0.08 5  0.08 5  0.08 5  0.08 5  0.08 5  0.08 6  0.08 7  0.08 6  0.08 7  0.08 6  0.08 7  0.08 6  0.08 6  0.08 7  0.08 6	0.63	31	RCE	40				/						
0.08 5  10  20  10  20  20  10  20  20  20  20			H					/						
20 10 27 15 10 10 10 10 10 10 10 10 10 10 10 10 10	0.00	-		30	<u>,                                     </u>		/							
PARTICLE SIZE (mm)  Description of the property of the propert	0.06	<b>5</b>		20			.1							
20 0.3 15 0.0 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				_   _/		/								
PARTICLE SIZE (mm)  2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				10										+
PARTICLE SIZE (mm)  2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				,										
PARTICLE SIZE (mm)				υ	15		55	rċ n	ი <u>ი</u>	5. 0.	3	00	. 00	00 00
					0.3	9.0	~			2 (1)	. •	47	1, 1	15
Remarks: Sampled at 02:00 (Night shift)							PAKI	ICLE SIZI	c (iiim)					
	Remarks:	Sampled a	at 02:	:00 (Night	shift)									
	Reviewed by						ΡFr							

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DDO IECT.	Maliadina	D:Iz		RTICLE SI			ALI OKI		C A 42		
PROJECT:	Meliadine	DIKE	e Const	truction	SAMPLI		RIPTION:	Tuna C	SA43	-	
l					SAMPLI		oled from u/s	Type C			
ADDRESS:	Meliadine	Gold	d Proje	ct NII	-	Samp	oleu Itolii u/s	rype C III	161 ~0+20	<u>0 @ D-C</u>	<u>5F3</u>
PROJECT NO				ci, NO.	MOISTU	IDE CON	ut .	•	11.5%	,	
DATE SAMPL				D \A/\A/	_ WOISTC	IKE COI	NI	-	11.5%	<u> </u>	
CLIENT:				By: WW		EL DEN	CITY.	-	n/a		
	Agnico E			Lta.	BULKR			-	n/a		
ATTENTION:	Mr. Duy N	iguye	en		_		ISITY (SSD):		n/a		
1					ABSOR		DENSITY:	-	n/a n/a		
					- ABSUR	PIION:			n/a		—
PARTICLE	PERCENT										
SIZE	PASSING		100					/ /			$\Box$
			90					///			_
							//	1!			
			80 —					+/+			-
20	100		70					i			
12.5	88		/0 <u> </u>				/	}			
5	73	S S	60 —				/	,			
	- 75	ASS				//					
1.25	63	PERCENT PASSING	50				//				
0.63	48	E	40		/		_/1				
0.315	48	PER			/		/				
0.2	48		30 —			//				+++	-
0.08	15										
			20	/	//						
			10							$\square$	
			-								
			0			10 :-	10 0	0 0 10			_
				0.2	0.63	1.25	10	12.5 20 25	20	100	200
						PARTIC	CLE SIZE (mm)				
Remarks:	Sampled f	rom i	u/s Tvpe	e C fillet ~0+2	80 @ D-CP	 5					
1			7								
Reviewed by	:					P.Ge	0.				



			P	ARTICLE	SIZE A	NALYS	SIS RE	PORT				
PROJECT:	Meliadine	Dike	e Con	struction	SA	MPLE N	<b>O</b> :			SA	44	
					SA	MPLE C	DESCR	PTION:	20 mm	minus	(Type C	Mat.)
	<u></u>					_			Sampl	ed from	belt	
ADDRESS:	Meliadine	Gol	d Pro	ject, NU.								
PROJECT N	O: <u>E1410323</u>	0-01			МС	ISTURE	CONT	<b>.</b> :		8.5	5%	
DATE SAMP	LED: Apr 2	29/17		By: TW								
CLIENT:	Agnico E	agle	Mines	s Ltd.	BU	LK REL	DENSI	TY:		n/	'a	
ATTENTION	: Mr. Duy N	lguye	en		BU	LK REL	. DENS	ITY (SSD):		n/	'a	
					AP	PARENT	ΓREL.	DENSITY:		n/	'a	
					AB	SORPTI	ON:			n/	'a	
	ı — I	_										
PARTICLE			100									<u> </u>
SIZE	PASSING								/ /i			
			90					/	//			
			80					/	/ i			
20	100							1/	/   /			
12.5	86		70						<u> </u>			
10	76	l o						/ /	/			
5	61	PERCENT PASSING	60					/				
2	49	PAS	50				//	/				
								, '				
0.63	36	ERC	40									
		=	20				/					
0.08	7		30									
	-		20			/						
				///	/							
			10									
			ا ٥									
			Ū	0.2	0.315	.25	2.5	5 10	12.5 20 26	20	75 100	150
				S	0.	_		E SIZE (mm)	<del>-</del>		~	- 2
								. 7				
Remarks:	20 mm mi	nus p	articl	e size distribu	ution limit	s shown						
Reviewed by	<i>j</i> .					İ	P.Ena.					



			P	ARTICLI	E SIZ	E ANAL	YSIS	REPC	ORT					
PROJECT:	Meliadine	Dike	e Con	struction		SAMPL						SA4		
						SAMPL	E DES	CRIPT	ION:	<b>20</b> n	nm miı	nus (T	ype C	Mat.)
										San	pled f	rom b	elt	
ADDRESS:	Meliadine	Gol	d Proj	ject, NU.										
PROJECT N	O: <u>E1410323</u>	0-01				MOIST	URE CC	NT.:				7.8%	)	
DATE SAMP	LED: Apr 2	29/17		By: IN	<u> </u>									
CLIENT:	Agnico E	agle	Mines	Ltd.		BULK F	REL DE	NSITY:	:			n/a		
ATTENTION:	: Mr. Duy N	lguy	en			BULK F	REL. DE	NSITY	(SSD):			n/a		
					_	APPAR	ENT RE	EL. DEI	NSITY:			n/a		
						ABSOR	RPTION:	:				n/a		
PARTICLE	PERCENT		100 г			1				,	4			
SIZE	PASSING									/ /	<i>"</i>			
			90							//				
									/	/ i				
20	100		80						//	1,				
12.5	87		70						//	_/				
10	81	_								1				
5	64	PERCENT PASSING	60											
2	52	AS	50						/					
		Ę	50						/					
0.63	41	RCE	40					//						
		F						/						
			30				//							
80.0	7		20			/								
			20			_//								
			10	//										
			F											
			0 L	01	ις		Ю	10	٠ 0	ر ک	) N	0	10 C	
				0.2	0.315	0.63	~	2.5	~	12.	70 72 72	20	100	150 200
							PART	ICLE SI	ZE (mm)					
Remarks:	20 mm mi	nus r	oarticle	e size distri	ibution	limits sh	own							
Reviewed by	<u></u>						P.Eı	na.						



			F	PARTIC	CLE S	SIZE	ANAL	YSIS	REPC	RT					
PROJECT:	Meliadine	Dike	e Cor	structi	on	S	AMPLE	E NO:					SA4	7	
						s	AMPLE	E DES	CRIPTI	ON:	20 m	m mir	nus (T	ype (	C Mat.)
											Sam	pled fi	om b	elt	
ADDRESS:	Meliadine	Gol	d Pro	ject, N	U.										
PROJECT N	O: E1410323	0-01				N	IOISTU	RE CC	ONT.:				10.99	%	
DATE SAMP	LED: Apr	30/17		Ву:	IM										
CLIENT:	Agnico E	agle	Mine	s Ltd.		B	ULK R	EL DE	NSITY:		n/a				
ATTENTION:	Mr. Duy N	lguye	en			B	ULK R	EL. DE	NSITY	(SSD):	n/a				
							PPARE	NT RE	EL. DEN	NSITY:	n/a				
							BSOR	PTION	•				n/a		
	DEDOENT	_													
PARTICLE SIZE	PERCENT PASSING		100								/ /			$\overline{\top}$	
SIZE	PASSING										'				
			90							/	1/i				
			80							//	//				
20	100									/	<b>/</b>   /				
12.5	80		70						,	/	1			+++	
10	66	g	00						//		/				
5	50	NISS	60					,		//					
2	42	PA.	50					/		//				++	
0.63	31	PERCENT PASSING					/			./					
0.63	31	ERC	40				//		/					+++	
		-	30			1		/							
0.08	5		50		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			/							
			20				//							++	
				//											
			10	/											
			0												
					0.2	<u>0</u>	0.63	.25	2.5	10	2.5	25	20	75	150 200
						j.	0	~	ICLE SIZ		<del>-</del>			<b>,</b>	` ' ' '
D							at at a t		n. e	Park 1					
Remarks:							rticle siz			limits sh	own				
				<u> </u>	ampie	u on iv	igni on	nt at UZ	00						
Reviewed by	r							P F	na						

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PROJECT:	Meliadin	e Dike	e Cor	struction	SAMPLE	E NO:			SA4	6	
					SAMPLE	DESCRI	PTION:	20 mm	minus (T	ype C I	Mat.)
								Sample	ed from b	elt	
ADDRESS:	Meliadin	e Gol	d Pro	ject, NU.	_	•					
PROJECT N	O: E141032	30-01			MOISTU	RE CONT.	:		12.69	<b>%</b>	
DATE SAMP	LED: May	01/17	,	By: TW	_						
CLIENT:	Agnico E	agle	Mine	s Ltd.	BULK R	EL DENSIT	ГΥ:		n/a		
ATTENTION:	Mr. Duy I	Nguy	en		BULK R	EL. DENSI	TY (SSD):		n/a		
					APPARE	ENT REL. D	ENSITY:		n/a		
					ABSORI	PTION:			n/a		
PARTICLE	PERCENT PASSING		100					/ /			$\neg \neg$
SIZE	PASSING						١,	/			
			90				/	/ /			$\Box$
			80				//	1		$\perp \perp$	
20	100							$\parallel i' \parallel \parallel$			
12.5	90		70					/			+
10	84	<u>ა</u>	60				.	/			
5	71	SSIN	60				/				
2	62	PERCENT PASSING	50			/	/_				+
0.63	49				/ /						
0.03	43	ERC	40								
		"	30		/	//					
0.08	7										
			20							_	+
			40								
			10								
			0								Ш ∣
				0.2	0.63	1.25	5 01	20 25	50	75	150 200
				Ö	S		SIZE (mm)	•		•	`
Damari	20		ادائست	a alma allatulla. Ca	باج جانمسال من						
Remarks:				e size distributio er than the maxi			of 10% spo	ocified			
THO IIIOISIUI E	COINCIN OF 12.	U /U IS	riigili	a alan ale maxi	mani moisil	aro contont	<u>σι το /υ σρο</u>	onica.			



			F	PARTICLE	SIZE	E ANAL	YSIS	REPO	RT				
PROJECT:	Meliadine	Dike	e Cor	nstruction		SAMPLE	NO:				SA49	9	
						SAMPLE	DES	CRIPTI	ON:	20 mm r	ninus (T	уре С	Mat.)
										Sample	d from b	elt	
ADDRESS:	Meliadine	Gol	d Pro	ject, NU.						-			
PROJECT N	O: <u>E1410323</u>	0-01				MOISTU	RE CO	NT.:			5.6%	, D	
DATE SAMP	LED: May	01/17	7	By: TV	V								
CLIENT:	Agnico E	agle	Mine	s Ltd.		<b>BULK</b> R	EL DE	NSITY:		-	n/a		
ATTENTION:	: Mr. Duy N	lguy	en			<b>BULK</b> R	EL. DE	NSITY	(SSD):	n/a			
						APPARE	NT RE	L. DEN	ISITY:	n/a			
						ABSOR	PTION:				n/a		
PARTICLE	PERCENT	Г											
SIZE	PASSING		100							/ /			$\neg \neg \bot$
- OILL	171001110		90							/   / /			
			90						//	/ i			
			80						//	/ / /			
20	100								///	i			
12.5	87		70							/			
10	79	٥	60					//		/			
5	63 50	SSII					/		/				
	50	T P/	50				//		/				-
0.63	38	PERCENT PASSING	40					/					
		PER	40					/					
			30				/						
80.0	9												
			20			//							
			10										
			0		10		_			10 :-			<u></u>
				0.2	0.315	0.63	1.25	2.5	10	12.5 20 25	20	75 100	150
					•		PART	ICLE SIZ	Œ (mm)				
Remarks:	20 mm mi	nus r	oartic	le size distril	oution I	limits sho	wn						
		- r											
Reviewed by	<b>/</b> :						P.Er	ng.					

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			F	PARTICLE	SIZE	E ANAL	YSIS	REPO	RT				
PROJECT:	Meliadine	Dike	e Cor	struction		SAMPLE	NO:				SA50	)	
						SAMPLE	DES	CRIPTI	ON:	20 mm n	ninus (T	уре С Г	Mat.)
										Sampled	from be	elt	
ADDRESS:	Meliadine	Gol	d Pro	ject, NU.									
PROJECT N	O: <u>E1410323</u>	0-01				MOISTU	RE CO	NT.:			2.4%	)	
DATE SAMP	LED: May	09/17	7	By: TW									
CLIENT:	Agnico E	agle	Mine	s Ltd.		BULK R	EL DE	NSITY:			n/a		
ATTENTION	: Mr. Duy N	lguy	en			BULK R	EL. DE	NSITY	(SSD):	n/a			
						APPARE	NT RE	L. DEN	ISITY:	n/a			
						ABSORE	PTION:				n/a		
PARTICLE	PERCENT	Г											
SIZE	PASSING		100							/ /			$\neg \bot$
- OILL	7.55		90										
			90						//	/			
			80						//				+
20	100								///	j			
12.5	90		70					/		/			$\Box$
10	82	S S	60					/		/			ШI
5	60 41	SSII					/	1 /	/				
	41	T P/	50				/		/				+H
0.63	23	PERCENT PASSING	40			/		/					
	_	PER	40			/		/					
			30		/		/						
80.0	8			,									
			20			/							
			10										
			0		10		_						
				0.2	0.315	0.63	1.25	2.5	10	12.5 20 25	20	75 100	150
					•		PART	ICLE SIZ	'E (mm)				
Remarks:	20 mm mi	nus p	articl	le size distrib	ution I	limits sho	wn						
	· · ·												
Reviewed by	<b>/</b> :						P.Er	ng.					

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			F	PARTICLE SIZ	ZE ANAL	YSIS R	EPORT			
PROJECT:	Meliadine	∍ Dik	e Cor	nstruction	SAMPLE	E NO:			SA51	
					SAMPLE	E DESCI	RIPTION:	20 mm m	ninus (Type C I	Mat.)
					_ _			Sampled	from belt	
ADDRESS:	Meliadine	∍ Gol	d Pro	ject, NU.						
PROJECT N	O: E1410323	30-01			MOISTU	RE CON	IT. :		14.1%	
DATE SAMP	LED: May	10/17	7	By: TW	_					
CLIENT:	Agnico E				BULK R	EL DENS	SITY:		n/a	
ATTENTION:					BULK R	EL. DEN	SITY (SSD):		n/a	
					_		DENSITY:		n/a	
					- ABSORF	PTION:			n/a	
PARTICLE	PERCENT		100			<del></del>		4		<u> </u>
SIZE	PASSING							' /i		
			90					<del>/                                    </del>		+HI
			80					/		
20	100		80				//	//		
12.5	93		70				/	/  -		+
10	87	()						/		
5	78	SINC	60							+
2	73	PAS	50			//	//			
		PERCENT PASSING			'   ,	/	//			
0.63	63	RCE	40			+	/			+
0.08	8		30			//				
0.00	0		20			1				$\perp \parallel \parallel$
					/					
			10							
				-						
			0	0.2		2.5	5 10	2.5 20 25	50 75 100	150
				0.2	0.63	~		7	7 7 2	15
						PARTIC	LE SIZE (mm)			
Remarks:	20 mm m	inus ŗ	particl	le size distributio	on limits sho	wn				
Reviewed by	<i>r</i> :					P.Ena	1.			



			PAI	RTICLE S	IZE ANA	LYSIS	REPORT			
PROJECT:	Meliadine	Dik	e Constr	uction	SAMPI	E NO:			SA52	
					SAMPI	E DES	CRIPTION:	20 mm m	ninus (Type	C Mat.)
					_					
ADDRESS:	Meliadine			t, NU.	_					
	O: <u>E1410323</u>				_ MOIST	URE CO	ONT.:		1.4%	
DATE SAMP				By: IM	_					
CLIENT:	Agnico E	agle	Mines L	td.	_ BULK	REL DE	NSITY:		n/a	
ATTENTION:	Mr. Duy N	lguy	en		_ BULK	REL. DE	ENSITY (SSD):		n/a	
					_		EL. DENSITY:		n/a	
					_ ABSO	RPTION			n/a	
PARTICLE	PERCENT									
SIZE	PASSING		100					/ /		
OIZL	1 Addite		00					/		
			90				/	//		
	_		80				/ /	/ /		
20	100						/	<b>/</b>  //		
12.5	85		70					//		
10	73	<u>o</u>	60					/ <b> </b>		
5	43	SSIN	80			,	/ //			
2	24	PA	50			/				
0.63	14	PERCENT PASSING				. 4				
0.63	14	ERC	40				///			
		-	30		_/_	/				
0.08	5		00			///				
			20 —							
				/						
			10							
			$_{\circ}$ $\sqsubseteq$							
				0.2	0.63	.25	2.5	2.5 20 25	50	100 150 200
				0.0	Ö	~	TCLE SIZE (mm)	~		0
							. ,			
Remarks:				ize distributi		own				
				Under Belt						
	Note - Pro	oduc	ed durin	g dayshift						
Reviewed by	<b>/:</b>					P.E	na.			



			PARTICLE SIZ	ZE ANALYSIS RI	EPORT		
PROJECT:	Meliadine	e Dike Co	nstruction	SAMPLE NO:			SA53
				SAMPLE DESCR	RIPTION:		us (Type C Mat.)
						,	
ADDRESS:	Meliadine	Gold Pr	oject, NU.				
PROJECT NO	D: <u>E1410323</u>	30-01		MOISTURE CON	T. :	1	2.1%
DATE SAMPI	LED: <u>May</u>	15/17	By: IM			,	
CLIENT:	Agnico E	agle Mine	es Ltd.	BULK REL DENS	SITY:		n/a
ATTENTION:	Mr. Duy N	lguyen		BULK REL. DEN	SITY (SSD):		n/a
				APPARENT REL	. DENSITY:		n/a
				ABSORPTION:			n/a
PARTICLE	PERCENT	1					
SIZE	PASSING	100					
0.22		90					
					//	<b>/</b>	
		80			//		+
20	100	70			///	i	
12.5	92	70			///	<i>y</i>	
10 5	82 59	<b>9</b> 60				<u>,                                     </u>	
2	37	PERCENT PASSING					
	<del></del>	<b>6</b> 50					
0.63	20	S 40					
		PER			,		
		30					++++
0.08	6	20					
<b>-</b>		20					
		10					
		0	0.2	.63	2 10	2.5	50 75 100 150 200
			0.2	0 -		2 (1)	50 75 100 150 200
				PARTICI	LE SIZE (mm)		
Remarks:			cle size distribution	n limits shown			
	Sampled		•				
-	Note - Pro	oduced d	uring dayshift				
Reviewed by	:			P.Eng			

		Р	ARTICLE SIZ	ZE ANALYSIS	REPORT		
PROJECT:	Meliadine	Dike Con	struction	SAMPLE NO:			SA54
				SAMPLE DES	CRIPTION:	20 mm min	us (Type C Mat.)
ADDDECC.	Maliadina	Cold Dro	ings NIII	. <u> </u>			
ADDRESS:		Gold Pro	ject, NU.	MOISTUDE O	ONT -		0.40/
PROJECT NO				MOISTURE CO	JNI.:		2.1%
DATE SAMPL		16/17	By: IM				
CLIENT:		agle Mines	s Ltd.	BULK REL DE		-	n/a ,
ATTENTION:	Mr. Duy N	Nguyen			ENSITY (SSD):	-	<u>n/a</u>
				APPARENT R			n/a ,
				ABSORPTION	I <b>:</b>	-	n/a
PARTICLE	PERCENT						
SIZE	PASSING	100					
		90					
						j	
		80				1	
20	100					i	
12.5	94	70				/	
10	88	<b>9</b> 60			1//	/	
5 2	70 47	PERCENT PASSING		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
2	47	<b>6</b> 50					
0.63	26	H H		///			
5.55		40 ERC		//	/		
		30		////			
0.08	8						
		20					
		10	///				
		10					
		0					
			0.2	0.63	2.5 5 10	20 20 25	50 75 100 150 200
			Ö	0 +	TICLE SIZE (mm)	•	
Remarks:	20 mm m	inue partial	e size distribution	n limite ehown			
nemarks:		from Stock		II IIIIIIS SIIUWII			
			ring dayshift				
Reviewed by			y aayoniit	P.E	ina		

Reviewed by:

		F	PARTICLE SIZ	ZE ANALYSIS	REPORT				
PROJECT:	Meliadine	e Dike Cor	struction	SAMPLE NO:	:		SA55		
				SAMPLE DE	SCRIPTION:	20 mm mini	us (Type C Mat.)		
ADDRESS:	Meliadina	e Gold Pro	viact NII						
PROJECT NO			gect, NO.	MOISTURE C	ONT .		2.7%		
DATE SAMPI			Dv. IM	WOISTORE	JONT		2.1 /0		
CLIENT:		18/17	By: IM	BULK REL D	ENGITY.		n/a		
		agle Mine	S Ltu.		_	-			
ATTENTION:	Mr. Duy N	nguyen		•	ENSITY (SSD):		n/a		
				•	REL. DENSITY:	n/a n/a			
				ABSORPTIO	N:		n/a		
PARTICLE	PERCENT								
SIZE	PASSING	100				/ /			
		90				/			
						<b> /</b>			
		80			<del>                                     </del>	///			
20	100				/	<b>/</b>   <i>i</i>			
12.5	82	70			//	/			
10	71	<b>9</b> 60				/			
5 2	49 35	SSII			./				
2	33	PERCENT PASSING							
0.63	22								
5.55		40 40							
		30							
0.08	8								
		20							
		10							
		0							
			0.2	0.63	2.5	20 20 25	50 75 100 150 200		
			ó	0 +	RTICLE SIZE (mm)	`			
Damas' -	00			a Basita al					
Remarks:			e size distribution	n iimits shown					
		from Stock							
		oduced at	uring nightshift						
Reviewed by	:			P.1	Eng.				

Reviewed by:



			D/	ARTICLE	CIZE	- ANIAL	vele	DEDO	от					
PROJECT:	Meliadine	Dike				SAMPLE SAMPLE	NO:			20 mr	n min	SA56 us (T		Mat.)
ADDRESS: PROJECT NO DATE SAMP CLIENT: ATTENTION:	ECT NO: E14103230-01  SAMPLED: May 19/17 By: IM  IT: Agnico Eagle Mines Ltd.  NTION: Mr. Duy Nguyen  FICLE PERCENT			MOISTU BULK RI BULK RI APPARE ABSORF	EL DEI EL. DE	NSITY: :NSITY ( :L. DEN		2.8% n/a n/a n/a n/a						
PARTICLE	PERCENT				<u> </u>									
SIZE	PASSING		100 ┌		$\overline{}$					/ /	T		$\top$	
SIZE	1 200110									′   <b>/</b>				
			90							/				
									/	//				
	400		80						/	li li				
20	100		70						<i>i</i>	//				
12.5	71		′					/		<b>/</b> }'				
10	58	စ္ခ	60					/		,			$\perp \perp$	
5	36	SSII					/	<b>'</b>	//					
2	26	PA	50				/		//				+	+
						/		./	′/					
0.63	18	PERCENT PASSING	40		_	-/-		//						
		Ⅱ				/								
	_		30				//							
0.08	5			/	1									
			20	/										
			10			-1								
			10											
			<sub>o</sub> L											
				0.2	0.315	0.63	CZ.	2.5	0 0	2.5	25	20	75	150 200
				O	0.:	o ,	_	ICLE SIZE		←			_	7 2
							FARI	IOLE SIZI	_ (111111)					
Remarks:	20 mm mi	nus p	article	size distrib	oution I	imits sho	wn							
	Sampled													
	•			ing daysh	ift									
Reviewed by				<u> </u>			P.Er	ng.						



PROJECT:  ADDRESS: PROJECT NO DATE SAMPI CLIENT: ATTENTION:	Meliadine D: E1410323 LED: May Agnico E	e Dike Construction e Gold Project, NU. 30-01 20/17 By: IN	MOISTURE CONT. : 20 mm minus (T	ype C Mat.)
			APPARENT REL. DENSITY: n/a ABSORPTION: n/a	
PARTICLE	PERCENT	100		
SIZE	PASSING	100		
		90		
		80		
20	100		$ \cdot \cdot \cdot $	
12.5	78	70		
10	65	<b>9</b> 60	/ //	
5	43	PERCENT PASSING  00  00		
2	29	50		
0.63	18			
0.03	10	04 ERC		
		30		
0.08	5			
		20		
		10		
		0.2	0.315 0.63 1.25 10 12.5 20 20 25 25	75 100 150 200
			PARTICLE SIZE (mm)	T T 7
		l [		
Remarks:		inus particle size distr	ribution limits shown	
-		from Stockpile		
	Note - Pr	oduced during days	hift	
Reviewed by	<b>':</b>		P.Eng.	



1-30-500	MOISTURE-DENSITY RELATIONSHIP	(Proctor) REPORT		
### T	ASTM D698 (Standard Pro	ctor)		
Project:	Meliadine Gold Project	Sample No.:	Type C, Sa	imple No 1
Project No.:	E14103230-01.023	Sampled By:	Dike QC To	eam
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:	С	(Manual)
Sample Loca	ation: Type C Stockpile			
Sample Des	cription: SAND, some gravel, trace silt, brown			
2300 2300 2100 2100 1900 1500 1400 1300 0	Optimum As Receiv	Dry Density: Moisture Content: ved Moisture Content: (19 mm Retained):  Zero Air Voids Gs: 2.70	2138 7.4 3.0 0	5 kg/m³ % % %
Remarks:				-
	Reviewed	Ву:А	5	P.Eng.

Data presented hereon is for the sole use of the stipulated client. Tetra Tech EBA is not responsible, nor can be held liable, for use made of this report by any other party, with or without the knowledge of Tetra Tech EBA. The testing services reported herein have been performed to recognized industry standards, unless noted. No other warranty is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, Tetra Tech EBA will provide it upon written request.



	MOISTURE-DENSITY RELATION	SHIP (Proctor) REPORT			-	
	ASTM D698 (Standa	rd Proctor)				
Project:	Meliadine Gold Project	Sample No.:	Type C	C, Sam	ple No 2	
Project No.:	E14103230-01.023	Sampled By:	Dike Q	C Tea	m	
Client:	Agnico Eagle Mines Ltd	Date Received:	7-Mar-	17		
Attention:		Test Date:	Test Date: 9-Mar-17			
E-mail:		Test By:	MA	MA		
Source:	Meliadine Project, Dike Construction	Test Method:	C	(1	Manual)	
Sample Loca	tion: Type C Stockpile					
Sample Desc	cription: SAND, some gravel, trace silt, brown	1				
2300 2200 2100 2000 1800 1500 1500 1300 0	Opti As 8 Ove	Zero Air Voids Gs: 2.70		<b>2085 8.1</b> 2.1 0	kg/m³ % %	
	Moisture Content (%	o)				
Remarks:		(4.0)				
	Revie	ewed By:	5		P.Eng.	



#### MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT ASTM D698 Standard Project: Meliadine Dike Construction Sample No.: **SA01** TW Client: Agnico Eagle Sampled By: Sample Date: October 23, 2016 Attention: Project No.: E14103230-01 Test Date: October 23, 2016 Description: 20mm minus Preparation: Moist Source: On-Site Stockpile Compaction: Manual 2400 2300 Maximum Dry Density: 2220 kg/m<sup>3</sup> 2200 **Optimum Moisture Content:** 8.5 % As Received Moisture Content: 5.0 % 2100 Oversize (+20 mm) Retained: % Corrected Density: % 2000 Dry Density (kg/m³) Corrected Moisture: 8.5 % 1900 1700 Zero Air Voids Gs: 2.80 1600 1500 1400 1300 10 **Moisture Content (%)** Remarks: Reviewed By: -- C.E.T.



#### MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT ASTM D698 Standard Project: Meliadine Dike Construction Sample No.: **SA02** Client: Agnico Eagle Sampled By: TW Sample Date: Attention: Duy Nguyen November 8, 2016 Project No.: E14103230-01 Test Date: November 8, 2016 Description: Type C (20mm agg.) Preparation: Moist Source: Compaction: Crusher Manual 2400 2300 Maximum Dry Density: 2080 kg/m<sup>3</sup> 2200 **Optimum Moisture Content:** 12.5 % As Received Moisture Content: % 2100 Oversize (+ mm) Retained: % Corrected Density: 2080 % 2000 Dry Density (kg/m³) 12.5 Corrected Moisture: % 1900 1700 Zero Air Voids Gs: 2.80 1600 1500 1400 1300 10 **Moisture Content (%)** Remarks: Reviewed By: -- C.E.T.



#### **MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT** ASTM D698 Standard Meliadine Dike Construction **SA03** Project: Sample No.: Client: Sampled By: Agnico Eagle IM Attention: Sample Date: November 30, 2016 Duy Nguyen Project No.: E14103230-01.023 Test Date: November 30, 2016 Preparation: Description: Type C (20 mm agg.) Moist Source: Compaction: Crusher Manual 2400 2300 Maximum Dry Density: 2040 kg/m<sup>3</sup> 2200 **Optimum Moisture Content:** 11.0 % As Received Moisture Content: 14.3 % 2100 Oversize (+ mm) Retained: % Corrected Density: % 2000 Dry Density (kg/m3) Corrected Moisture: 11.0 % 1900 1800 1700 Zero Air Voids 1600 Gs: 2.70 1500 1400 1300 15 **Moisture Content (%)** Remarks: Same material used for Sieve Sample SA37 Reviewed By: -- C.E.T.



### **MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT** ASTM D698 Standard Project: Meliadine Dike Construction Sample No.: **SA04** Client: Agnico Eagle Sampled By: $\mathsf{TW}$ Attention: Sample Date: March 29, 2017 Duy Nguyen Project No.: E14103230-01 Test Date: March 29, 2017 Description: Type C (20mm agg.) Preparation: Moist Source: Stockpile Compaction: Manual 2400 2300 Maximum Dry Density: 2250 kg/m<sup>3</sup> 2200 Optimum Moisture Content: 8.5 % As Received Moisture Content: % 2100 Oversize (+ mm) Retained: % Corrected Density: 2080 % 2000 Dry Density (kg/m³) 8.5 Corrected Moisture: % 1900 1800 1700 Zero Air Voids 1600 Gs: 2.70 1500 1400 1300 10 **Moisture Content (%)** Remarks: Reviewed By: C.E.T.



### MOISTURE-DENSITY RELATIONSHIP (Proctor) REPORT ASTM D698 Standard SA07 Project: Meliadine Dike Construction Sample No.: Client: Agnico Eagle Sampled By: TW Sample Date: Attention: Duy Nguyen May 1, 2017 Project No.: E14103230-01 Task 023 Test Date: May 1, 2017 Description: Type C (20mm minus) Preparation: Moist Source: Type C Stockpile Compaction: Manual 2400 2300 Maximum Dry Density: 2150 kg/m<sup>3</sup> 2200 **Optimum Moisture Content:** 8.0 % As Received Moisture Content: 12.7 % 2100 Oversize (+ mm) Retained: % Corrected Density: % 2000 Dry Density (kg/m³) Corrected Moisture: % 1900 Zero Air Voids 1600 Gs: 2.70 1500 1400 1300 10 30 **Moisture Content (%)** Remarks: Reviewed By: -- C.E.T.



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 of Material Rejected
SP46	05-May-17	6.5	Sampled from Type C stockpile floor
	JU IVIUY II	0.0	Campica nom 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%



Date/Shift	Material Type	Sample	Mass of Soil in Mold (g)	Mold Volume (cm2)	(`omnactad	Mass of Weight Soil and 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 Densembler) Summary

Date	Density Test	Tech	Probe Depth	Station	Depth from	Wet Density	Moisture	Dry Density	Single Point Frozen	%	Standard Proctor	% SPMDD	Comments
	#		(mm)		OG (m)	(Mg/m3)	Content (%)	(M/m3)	Proctor Dry Density (kg/m3)	SPFPDD	Maximum Dry Density (kg/m3)		(All tests approx. along Centreline unless otherwise noted)
017-04-01	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
017-04-01	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
017-04-01	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
017-04-01	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
017-04-02	5	WW	200	0+045	0.8	1836	6.8	1719	1685	102.0	2100	81.9	2nd lift Type C us fillet - frozen
17-04-02	6	WW	200	0+020	0.8	1840	6.3	1731	1685	102.7	2100	82.4	2nd lift Type C us fillet - frozen
17-04-02	7	WW	200	0+055	0.6	1856	6.2	1748	1685	103.7	2100	83.2	3rd lift Type C us fillet - frozen
17-04-02	8	WW	200	0+025	0.6	1966	6.1	1853	1685	110.0	2100	88.2	3rd lift Type C us fillet - frozen
17-04-03	9	WW	200	0+070	0.4	1852	6.4	1741	1685	103.3	2100	82.9	4th lift u/s fillet - frozen
17-04-03	10	WW	200	0+030	0.4	1864	6.4	1752	1685	104.0	2100	83.4	4th lift u/s fillet - frozen
17-04-03	11	WW	200	0+060	0.4	1880	6.5	1765	1685	104.8	2100	84.1	4th lift u/s fillet - frozen
17-04-03	12	WW	200	0+023	0.4	1840	7.5	1712	1685	101.6	2100	81.5	4th lift u/s fillet - frozen
17-04-03	13	WW	200	0+035	0.2	1858	7.4	1730	1685	102.7	2100	82.4	5th lift u/s fillet
17-04-03	14	WW	200	0+035	0.2	1881	6.6	1765	1685	104.7	2100	84.0	6th lift u/s fillet
17-04-03	15	WW	200	0+035	0.2	1894	6.4	1780	1685	105.6	2100	84.8	7th lift u/s fillet
17-04-03	16	WW	200	0+035	0.2	1861	7.3	1734	1685	102.9	2100	82.6	8th lift u/s fillet
17-04-03	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
17-04-03	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
17-04-03	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
17-04-03	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
17-04-03	21	TW	200	0+001	0.75	1877	6.9	1756	1685	104.2	2100	83.6	2nd lift of Type C U/S fillet (below liner) -frozen
17-04-03	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
17-04-03	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
17-04-03	24	TW	200	0+098	0.75	1865	5.9	1761	1685	103.5	2100	83.9	2nd lift of Type C U/S fillet (below liner) -frozen
17-04-03	25	TW	200	0+098	0.75 0 (OG)	1835	5.6	1738	1685	104.5	2100	82.7	4th lift of Type C U/S fillet (below liner) -frozen
17-04-03	26	TW	200	0+000	0 (OG)	1863	6.2	1754	1685	103.1	2100	83.5	4th lift of Type C U/S fillet (below liner) -frozen
17-04-03	27	WW	200	0+108	0.9	1938	5.6	1835	1685	104.1	2100	87.4	u/s fillet 1st lift
17-04-04	28	WW	200	0+122	0.9	1936	6.0	1862	1685	110.5	2100	88.7	u/s fillet final lift
17-04-04	29	WW	200	0+127	0.2	1974	4.9	1831	1685	10.5	2100	87.2	u/s fillet 11st lift
17-04-05	30	TW	200	0+170	0.73	1812	6.3	1705	1685	100.7	2100	81.2	2nd lift of Type C U/S fillet (below liner) -frozen
17-04-05 17-04-05		TW	200	0+102	0.3	1824	6.7	1709	1685	101.2	2100	81.4	2nd lift of Type C U/S fillet (below liner) -frozen
17-04-05	31 32	WW	200	0+192	0.3	1926			1685	101.5	2100	87.1	top lift of Type C us fillet
		WW		0+153	0.2		5.3	1829 1789					· · · · · · · · · · · · · · · · · · ·
17-04-06			200			1891	5.7	1769	1685	106.2	2100	85.2	us fillet Type C underliner - frozen
17-04-06		WW	200	0+185	0.4	1895	5.7		1685	106.4	2100	85.4	us fillet Type C underliner - frozen
17-04-06		WW	200	0+185	0.4	1913	5.6	1812	1685	107.5	2100	86.3	us fillet Type C underliner - frozen
17-04-06		WW	200	0+185	0.4	1929	5.9	1822	1685	108.1	2100	86.7	us fillet Type C underliner - frozen
17-04-15		WW	200	0+210	0.4	1840	7.5	1712	1685	101.6	2100	81.5	us fillet Type C underliner
17-04-16		IM	200	0+260	1.8	1864	7.3	1737	1685	103.1	2100	82.7	3rd Lift Type C U/S Fillet - Frozen
17-04-16		IM	200	0+245	1.5	1850	6.9	1731	1685	102.7	2100	82.4	4th Lift Type C U/S Fillet - Frozen
17-04-16		IM	200	0+230	1.5	1857	7.5	1727	1685	102.5	2100	82.3	4th Lift Type C U/S Fillet - Frozen
17-04-22		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
17-04-22		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
17-05-03		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
17-05-03		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
17-05-03	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
17-05-03		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
17-05-04	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
17-05-04	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
17-05-04	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
17-05-05		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
17-05-05	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)	Dit Vallima (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



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%
in crage moretane controlle	11070



Date/Shift	Material Type	Sample	Mass of Soil in Mold (g)	Mold Volume (cm3)	(`omnactad	Soil and Tare (a)	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	

1

### 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 Probe Station Wet Moisture Dry **Single Point Frozen** Density Tech Depth Comments Test Depth from OG **Density** Content Density **Proctor Dry Density SPFPDD** # (mm) (m) (kg/m3) (%) (kg/m3) Average (kg/m3) 31-Mar-17 001 TW 200 0+006 1.65 1635 1842 6.6 1728 105.7 Top of Type F below liner - frozen 31-Mar-17 002 TW 200 0+010 1.65 7.2 1724 1635 105.4 Top of Type F below liner - frozen 1848 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 TW 1.65 1772 1635 Top of Type F below liner - frozen 005 200 0+015 1889 6.6 108.4 31-Mar-17 006 TW 200 0+015 1.65 1890 6.4 1776 1635 108.6 Top of Type F below liner - frozen TW 1748 31-Mar-17 007 200 0+025 1.65 1867 6.8 1635 106.9 Top of Type F below liner - frozen 1-Apr-17 800 TW 200 0+058 1.65 1885 6.3 1773 1635 108.5 Top of Type F below liner - frozen TW 200 1.65 1733 1635 1-Apr-17 009 0+067 1846 6.5 106.0 Top of Type F below liner - frozen TW 1.25 1738 1635 1-Apr-17 010 200 0+056 1856 6.8 106.3 Top of Type F U/S fillet - frozen TW 1762 1635 Top of Type F U/S fillet - frozen 1-Apr-17 011 200 0+072 1.25 1873 107.8 6.3 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 WW 200 0+058 1.5 1871 1768 1635 108.2 Lift 1 of u/s Type F fillet 014 5.8 1-Apr-17 WW 150 Lift 1 of u/s Type F fillet 015 0+040 1.5 1935 5.5 1834 1635 112.2 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 WW 200 1.35 1881 1768 1635 Lift 2 of u/s Type F fillet 017 0+060 6.4 108.1 Lift 1 of u/s Type F fillet 1-Apr-17 018 WW 200 0+072 1.5 1862 6.2 1753 1635 107.2 2-Apr-17 WW 200 0+070 1862 1735 1635 106.1 1st lift u/s fillet 019 1.5 7.3 WW 1.65 1753 1635 2-Apr-17 020 200 0+084 1862 6.2 107.2 1st lift above KT floor 106.8 3-Apr-17 021 WW 200 0+095 1.8 1859 6.5 1746 1635 1st lift above KT floor 3-Apr-17 WW 200 7.5 1712 1635 022 0+108 1.8 1840 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 1727 3-Apr-17 024 TW 200 0+095 1.5 1860 7.7 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 TW 200 1.5 1873 1733 1635 026 0+095 8.1 106.0 1st lift of Type F U/S fillet -frozen TW 1635 1st lift of Type F U/S fillet -frozen 3-Apr-17 027 200 0+095 1.5 1805 7.9 1673 102.3 TW 1769 1635 3-Apr-17 028 200 0+100 1.35 1900 7.4 108.2 Top of Type F U/S fillet -frozen 3-Apr-17 TW 200 1.35 1948 7.4 1814 1635 Top of Type F U/S fillet -frozen 029 0+112 110.9 1824 4-Apr-17 030 WW 200 0+122 1.5 1946 6.7 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 032 WW 200 5-Apr-17 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 1.95 1820 7.9 1687 1635 103.2 2nd lift above KT floor 0+215 WW 14-Apr-17 037 200 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 WW Final lift above KT floor under liner 16-Apr-17 041 200 0+260 2.55 1916 8.0 1774 1632 108.7 16-Apr-17 042 WW 200 0+260 2.55 1908 8.2 1763 1632 108.0 Final lift above KT floor under liner 2.55 1905 1772 1632 Final lift above KT floor under liner 16-Apr-17 043 WW 200 0+260 7.5 108.6 WW 1737 1632 Final (2nd) lift of U/S fillet under liner 16-Apr-17 044 200 0+225 1.8 1881 8.3 106.4 045 WW 200 2.1 1782 1632 109.2 Final (2nd) lift of U/S fillet under liner 16-Apr-17 0+250 1917 7.6 WW 1785 1632 2nd lift of U/S fillet above KT floor 17-Apr-17 046 200 0+250 2 1917 7.4 109.4 047 IM 200 1749 7.4 1628 1632 99.8 North Abutment Type F U/S U/L 18-Apr-17 0+295 18-Apr-17 048 IM 200 0+295 0.85 1756 7.7 1630 1632 North Abutment Type F U/S U/L

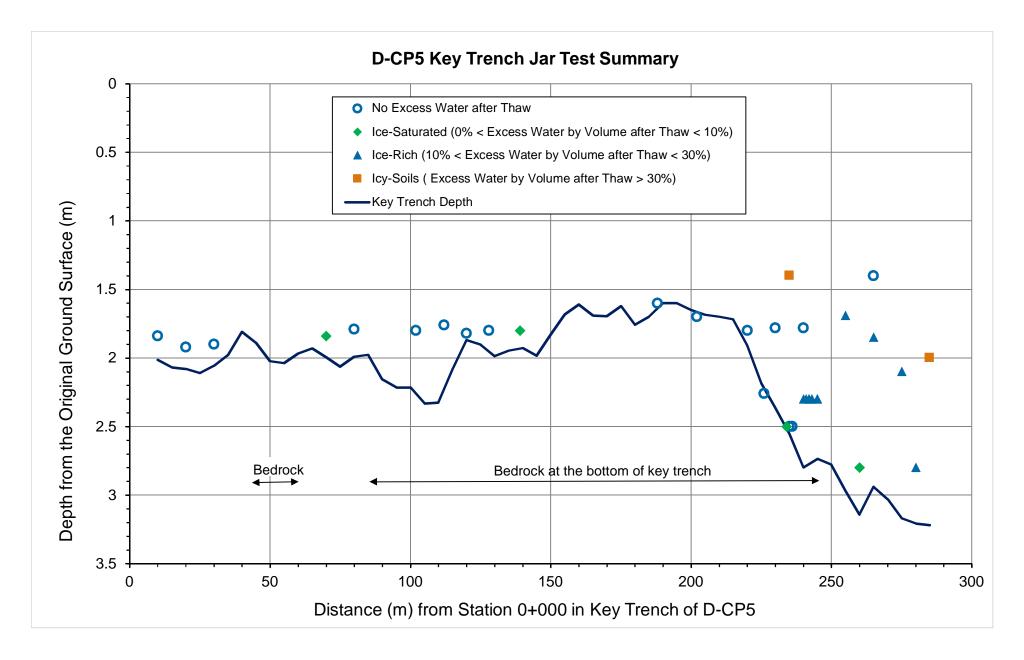
# Dike D-CP5 Type F Material Sand Cone Tests 2017 Summary

Date	Material Type	Station	Dry Density (kg/m3) (Densometer Avg.)		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							
			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	Soil Description
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%	-	lce-saturated	Acceptable	SAND, silty; predominately fine sand
20	10-Feb-17	Disturbed	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
21	10-Feb-17	Core Disturbed Core	0+102	1.80	0	20	0.0	6.9%	-	Non- Ice Saturated	Not Acceptable	cuttings SAND, some silt, some gravel, fine and
22	11-Feb-17	Disturbed Core	0+120	1.82	0	60	0.0	10.1%	-	Non- Ice Saturated	Not Acceptable	medium gravel (subangular) SAND, silty, some gravel, rock cuttings;
23	11-Feb-17	Core	0+090	UNABLE TO OBTAIN CORE - BEDROCK							predominately fine grained sand and silt  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;
25	6-Apr-17	Disturbed	0+243	2.30	13	37	26.0	30.7%	1651	Ice-Rich Soil	Not Acceptable	when thawed: moist, grey, firm/compact, SILT, some gravel
26	6-Apr-17	Core Disturbed	0+242	2.30	13	50	20.6	33.9%		Ice-Rich Soil	Not Acceptable	SILT, some gravel
27	6-Apr-17	Core Disturbed	0+245	2.30	16	57	21.9	24.6%	1543	Ice-Rich Soil	Not Acceptable	SILT, some gravel
28	6-Apr-17	Core Disturbed	0+245	2.30	10	32	23.8	19.2%	1660	Ice-Rich Soil	Not Acceptable	SILT, some gravel
30	10-Apr-17	Core Disturbed	0+240	2.30	5	35	12.5	19%		Ice-Rich Soil	Not Acceptable	SILT, some sand, trace gravel
31	10-Apr-17	Core Disturbed	0+242	2.30	14	40	25.9	33%		Ice-Rich Soil	Not Acceptable	SILT, some sand, trace gravel
32	10-Apr-17	Core Disturbed	0+241	2.30	12	28	30.0	48%		Ice-Rich Soil	Not Acceptable	SILT, some sand, trace gravel
33	10-Apr-17	Core Disturbed	0+235	2.50	0	80	0.0	15%		Nearly ice-saturated	Acceptable	SILT, some sand, trace gravel
34	10-Apr-17	Core Disturbed	0+236	2.50	0	70	0.0	22%		Ice Saturated	Acceptable	SILT, some sand, trace gravel
35	10-Apr-17	Core Disturbed	0+234	2.50	3	45	6.3	24%		Ice Saturated	Acceptable	SILT, some sand, trace gravel
36	14-Apr-17	Core Disturbed	0+260	2.80	5	52	8.8	27%		Ice Saturated	Acceptable	SILT, some sand, trace gravel
37	14-Apr-17	Core Disturbed	0+280	2.80	6	46	11.5	31%		Slightly IceRich Soil	Acceptable	SILT, some sand, trace gravel
	17 Api-17	Core	01200	2.00		<b>→</b> U	11.5	5170		Singing location doll	Acceptable	OILT, Some Sand, hade graver