

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 856-5130					
Ivan Thompson		Geotechnical exploration, km 1717.8 LHS		PROJECT NO: 552-202101-1001-1-1					
Komatsu PC 270		Coordinates: Z07V N6812156.9m E594326.9m		ELEVATION: m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input type="checkbox"/> AUGER <input checked="" type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE							
ELEV. (m)	PLASTIC      M.C      LIQUID 0      20      40      60      80      100		★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
								ORGANICS	
					01			POORLY GRADED GRAVEL with SAND -Dark brown, damp, hard -20% Cobbles	1
					02			WELL-GRADED GRAVEL with SAND -Dark brown, damp, hard -20% Cobbles	2
									3
					03			POORLY GRADED GRAVEL with SAND -Dark brown, damp -15% Cobbles	4
								END of HOLE	

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 856-5131					
Ivan Thompson		Geotechnical exploration, km 1717.8 LHS		PROJECT NO: 552-202101-1001-1-1					
Komatsu PC 270		Coordinates: Z07V N6812189.8m E594232.3m		ELEVATION: m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	PLASTIC      M.C      LIQUID 0      20      40      60      80      100		★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0      20      40      60      80      100		0      20      40      60      80      100						
					04		ORGANICS		
					05		SILTY SAND with GRAVEL -Brownish grey, hard, semi-frozen  SILTY SAND -Grey, hard, frozen	1	
					06		POORLY GRADED GRAVEL with SILT -Brown -10-15% Cobbles	2	
							END of HOLE -Frozen Hard	3	
								4	

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 856-5132					
Ivan Thompson		Geotechnical exploration, km 1717.8 LHS		PROJECT NO: 552-202101-1001-1-1					
Komatsu PC 270		Coordinates: Z07V N6812328.2m E594376.1m		ELEVATION: m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	PLASTIC      M.C      LIQUID 0      20      40      60      80      100		★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0      20      40      60      80      100		0      20      40      60      80      100						
					07		ORGANICS		1
					08		POORLY GRADED GRAVEL with SAND -Dark brown, damp, loose -20-25% Cobbles		2
					09		WELL-GRADED GRAVEL with SAND		3
							POORLY GRADED GRAVEL with SILT and SAND -Compact, frozen		4
							END of HOLE		

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 856-5133			
Ivan Thompson		Geotechnical exploration, km 1717.8 LHS		PROJECT NO: 552-202101-1001-1-1			
Komatsu PC 270		Coordinates: Z07V N6812319.1m E594252.1m		ELEVATION: m			
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC      M.C      LIQUID 0      20      40      60      80      100						
						ORGANICS	
			10			WELL-GRADED GRAVEL with SAND -Brown, damp, loose -10-25% Cobbles	1
			11			WELL-GRADED GRAVEL with SILT and SAND -Grey, damp, compact -15-25% Cobbles, odd boulder	2
			12			WELL-GRADED GRAVEL with SAND -Semi-frozen	4
						END of HOLE	

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 856-5134			
Ivan Thompson		Geotechnical exploration, km 1717.8 LHS		PROJECT NO: 552-202101-1001-1-1			
Komatsu PC 270		Coordinates: Z07V N6812406.8m E594342.2m		ELEVATION: m			
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE					
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC      M.C      LIQUID 0      20      40      60      80      100      0      20      40      60      80      100						
			13			ORGANICS	
			14			WELL-GRADED GRAVEL with SAND -Brown, damp, loose -15-20% Cobbles	1
			15			-Semi-frozen, compact	2
						POORLY GRADED GRAVEL with SAND -Frozen	3
						END of HOLE	4

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 856-5135					
Ivan Thompson		Geotechnical exploration, km 1717.8 LHS		PROJECT NO: 552-202101-1001-1-1					
Komatsu PC 270		Coordinates: Z07V N6812411.3m E594258.3m		ELEVATION: m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	PLASTIC      M.C      LIQUID 0      20      40      60      80      100		★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0      20      40      60      80      100		0      20      40      60      80      100						
					16		ORGANICS		
					17		SANDY SILT -Brown, hard, semi-frozen	1	
							POORLY GRADED GRAVEL with SAND -Greyish brown, frozen, v.hard -Some cobbles		
							END of HOLE -Frozen Hard	2	
								3	
								4	
						LOGGED BY: G. Kennedy		Termination Depth: 2m	
						COMPILED BY: M. Jubinville		Complete: 5/29/2015 8:41:00 AM	
						REVIEWED BY: R.Stiwell		Pit #: 115 G-06A	
						Page 1 of 1			

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 856-5136				
Ivan Thompson		Geotechnical exploration, km 1717.8 LHS		PROJECT NO: 552-202101-1001-1-1				
Komatsu PC 270		Coordinates: Z07V N6812479.4m E594341.8m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK			
		<input type="checkbox"/> SPT	<input type="checkbox"/> CORE					
ELEV. (m)	PLASTIC      M.C      LIQUID 0      20      40      60      80      100		★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0      20      40      60      80      100							
				18			ORGANICS	
				20			SILTY SAND -Brown, hard, semi frozen	
							WELL-GRADED GRAVEL with SAND -Greyish brown, frozen -10-15% Cobbles	
				19			SANDY SILT -Greyish brown, frozen -10-15% Cobbles	1
							END of HOLE -Frozen Hard	2
								3
								4

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 856-5137			
Ivan Thompson		Geotechnical exploration, km 1717.8 LHS		PROJECT NO: 552-202101-1001-1-1			
Komatsu PC 270		Coordinates: Z07V N6812517.6m E594268.9m		ELEVATION: m			
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE					
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC      M.C      LIQUID 0    20    40    60    80    100    0    20    40    60    80    100						
			21			ORGANICS	
			22			SANDY SILT -Brown, compact	
			23			POORLY GRADED SAND with SILT -Greyish Brown, frozen	1
						-Whitish grey sedimentary layer	
						SANDY SILT -Brown, frozen	2
						END of HOLE -Frozen Hard	3
							4

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 856-5138					
Ivan Thompson		Geotechnical exploration, km 1717.8 LHS		PROJECT NO: 552-202101-1001-1-1					
Komatsu PC 270		Coordinates: Z07V N6812555.6m E594358.3m		ELEVATION: m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	PLASTIC      M.C      LIQUID 0      20      40      60      80      100		★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0      20      40      60      80      100		0      20      40      60      80      100						
					24		ORGANICS		
					25		SILTY SAND -Brown, compact, semi-frozen  POORLY GRADED GRAVEL with SAND -Brownish grey, compact, semi-frozen -15-20% Cobbles  POORLY GRADED GRAVEL with SILT and SAND -Brownish grey, compact -15-20% Cobbles	1	2
					26		END of HOLE -Frozen hard	3	4

GRAIN SIZE ANALYSIS	Geotechnical exploration	SOURCE/TP#: 856-5130
Ivan Thompson	km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates:Z07V N6812156.9m E594326.9m	ELEVATION: m

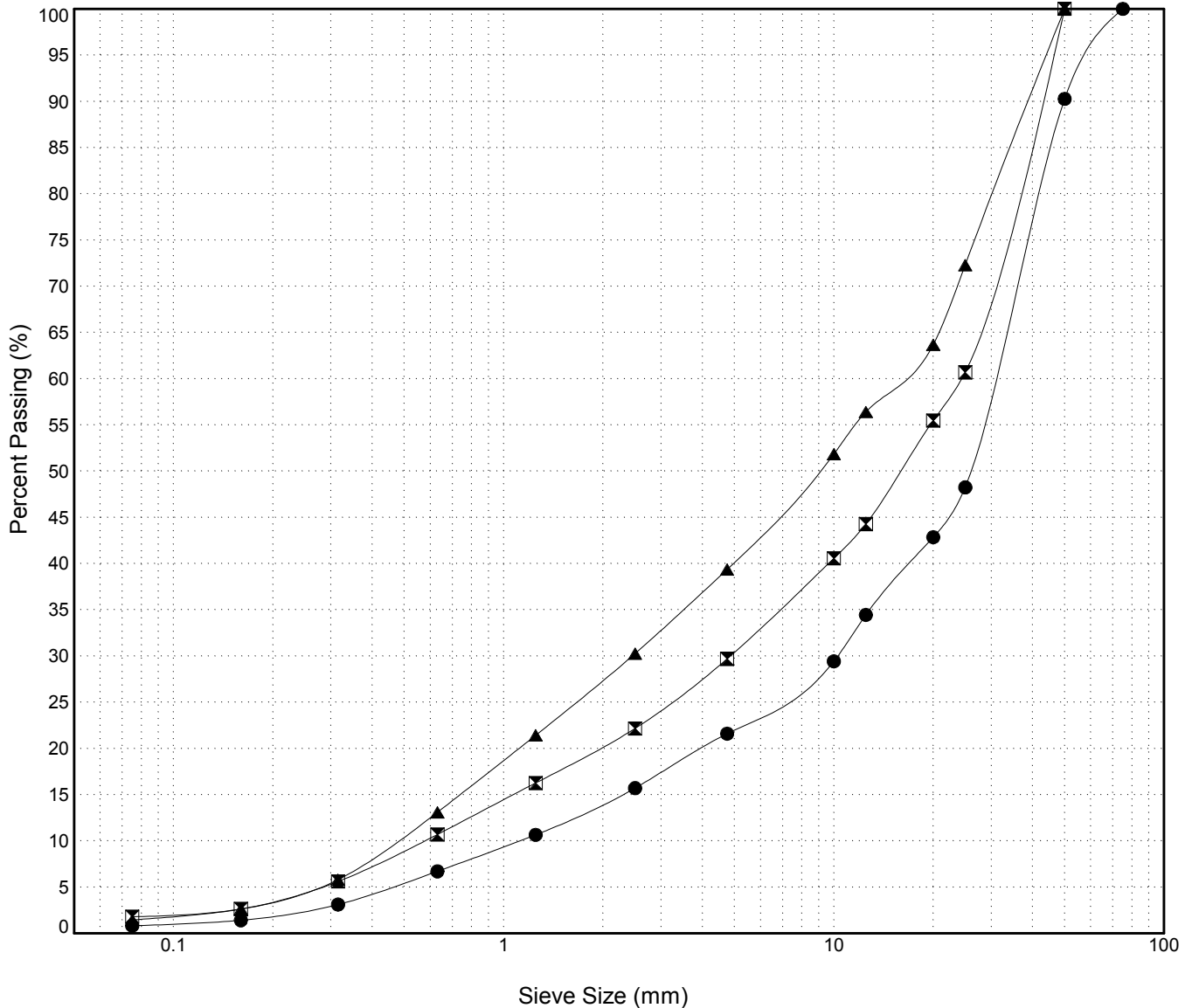
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 01	1131	0.2 to 0.1	POORLY GRADED GRAVEL with SAND(GP)	1.7	NP	NP	NP	3.1	27.2
☒ 02	1132	1.4 to 1.8	WELL-GRADED GRAVEL with SAND(GW)	2.1	NP	NP	NP	1.7	42.3
▲ 03	1133	3.8 to 4.2	POORLY GRADED GRAVEL with SAND(GP)	2.0	NP	NP	NP	0.8	33.6

Field #	Lab #	% PASSING														% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 01	1131	100.0	100.0	100.0	90.3	48.2	42.8	34.4	29.4	21.6	15.7	10.6	6.7	3.1	1.4	0.8	78.4	20.8	0.8	
☒ 02	1132	100.0	100.0	100.0	60.7	55.5	44.3	40.6	29.7	22.2	16.3	10.7	5.6	2.6	1.8	70.3	27.9	1.8		
▲ 03	1133	100.0	100.0	100.0	72.3	63.7	56.4	51.8	39.4	30.3	21.4	13.1	5.8	2.6	1.4	60.6	37.9	1.4		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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Ivan Thompson	km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates:Z07V N6812189.8m E594232.3m	ELEVATION: m

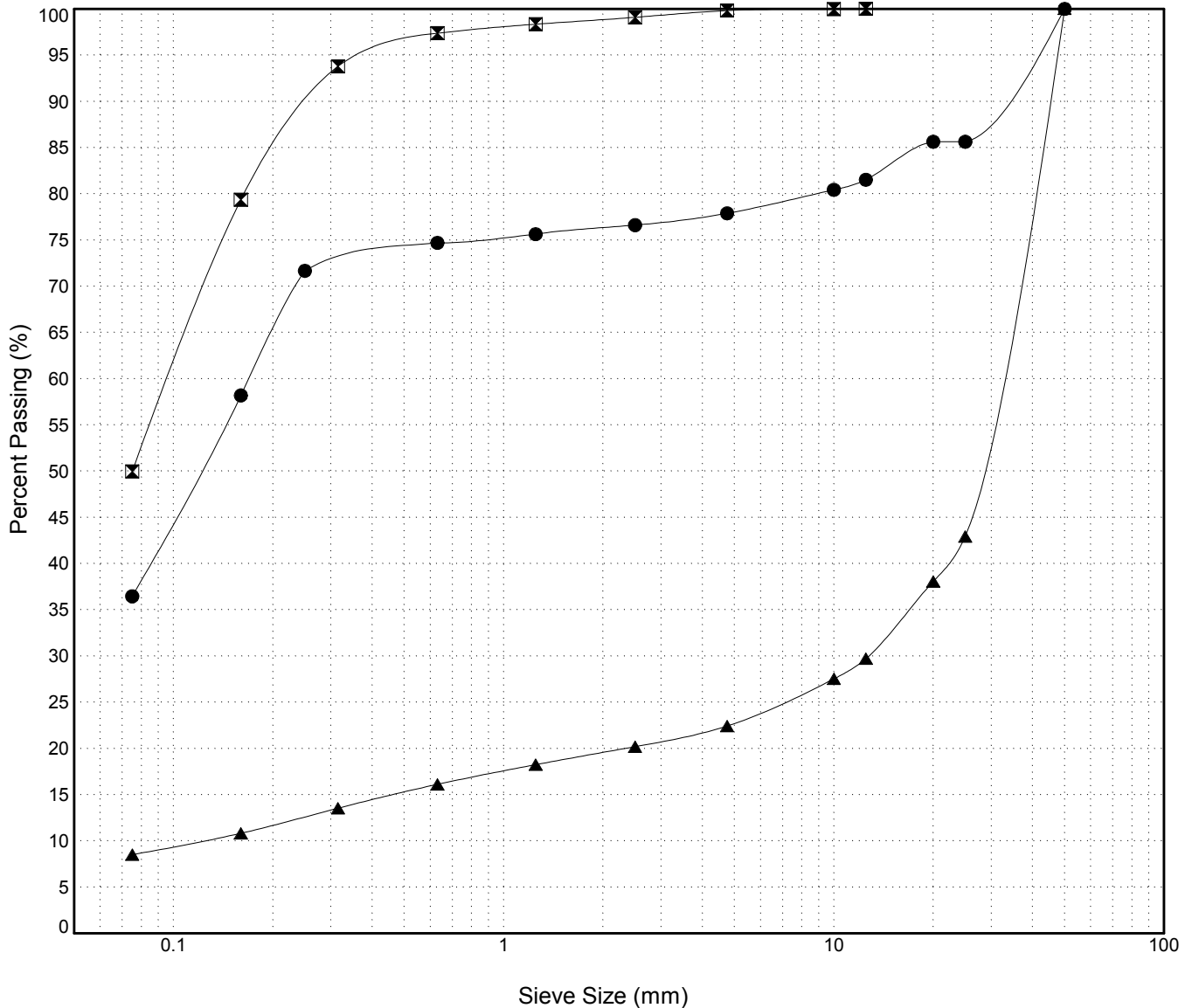
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 04	1134	0.2 to 0.4	SILTY SAND with GRAVEL(SM)	32.8	NP	NP	NP		
☒ 05	1135	1.0 to 1.4	SILTY SAND(SM)	37.4	NP	NP	NP		
▲ 06	1136	2.0 to 2.4	POORLY GRADED GRAVEL with SILT(GP-GM)	6.7	NP	NP	NP	42.9	251.2

Field #	Lab #	% PASSING	Sieve Size (mm)													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 04	1134	100.0	100.0	100.0	100.0	85.6	85.6	81.5	80.4	77.9	76.6	75.6	74.7	72.4	58.2	36.5	22.1	41.4	36.5	
☒ 05	1135	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.1	98.3	97.4	93.8	79.4	50.0	0.2	49.9	50.0		
▲ 06	1136	100.0	100.0	100.0	42.9	38.1	29.7	27.5	22.4	20.2	18.2	16.1	13.5	10.8	8.5	77.6	13.9	8.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Geotechnical exploration	SOURCE/TP#: 856-5132
Ivan Thompson	km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates:Z07V N6812328.2m E594376.1m	ELEVATION: m

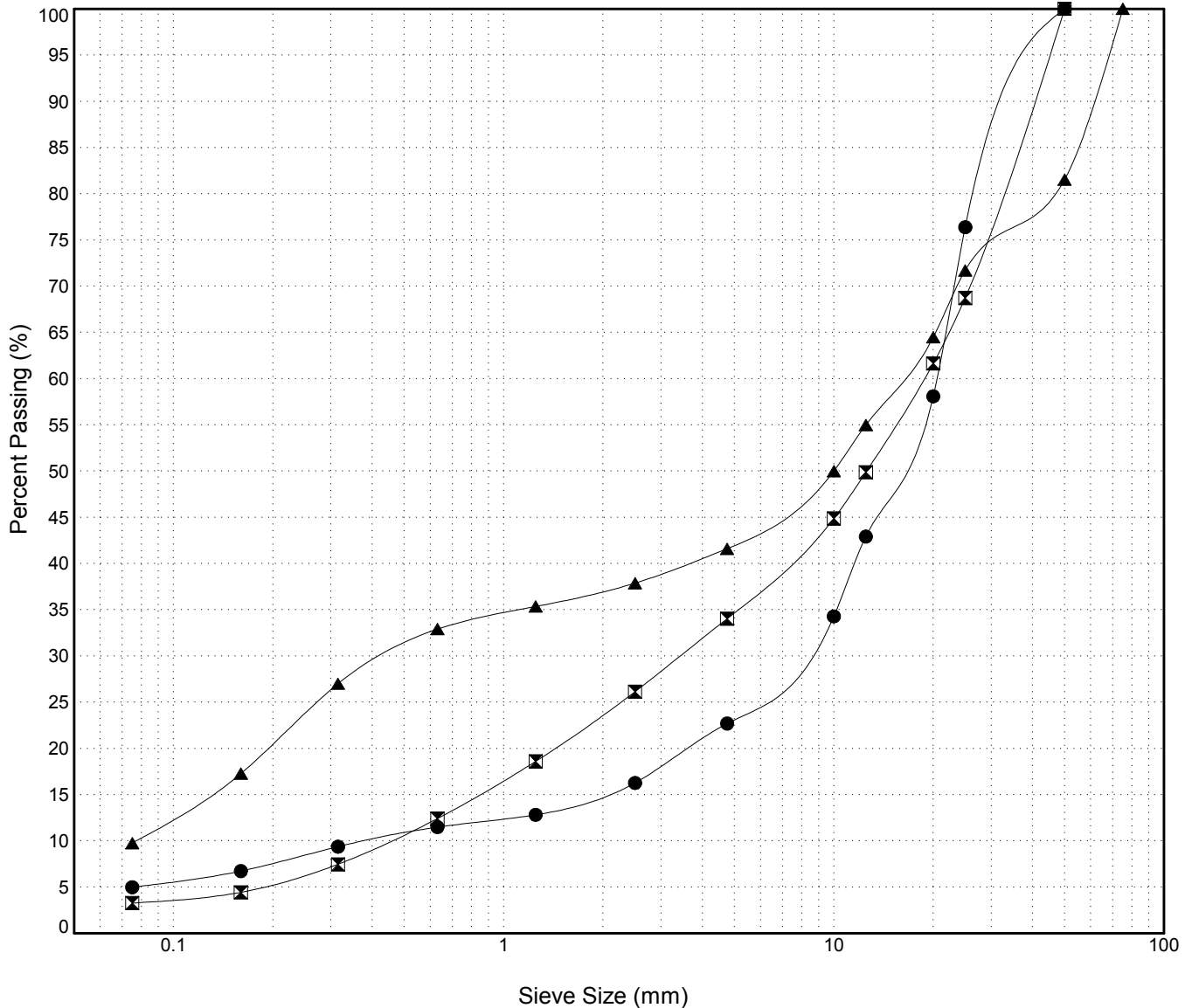
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Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 07	1137	0.4 to 0.8	POORLY GRADED GRAVEL with SAND(GP)	2.8	NP	NP	NP	7.3	52.9
☒ 08	1138	1.8 to 2.2	WELL-GRADED GRAVEL with SAND(GW)	2.2	NP	NP	NP	1.4	41.7
▲ 09	1139	4.0 to 4.4	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	5.9	NP	NP	NP	0.2	208.4

Field #	Lab #	% PASSING	Sieve Size (mm)													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 07	1137	100.0	100.0	100.0	100.0	76.4	58.1	42.9	34.3	22.7	16.3	12.8	11.5	9.4	6.7	5.0	77.3	17.7	5.0	
☒ 08	1138	100.0	100.0	100.0	68.7	61.6	49.9	44.9	34.0	26.1	18.6	12.4	7.5	4.4	3.3		66.0	30.8	3.3	
▲ 09	1139	100.0	100.0	81.5	71.7	64.5	55.0	50.0	41.6	37.9	35.4	32.9	27.0	17.3	9.8		58.4	31.8	9.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Geotechnical exploration	SOURCE/TP#: 856-5133
Ivan Thompson	km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates:Z07V N6812319.1m E594252.1m	ELEVATION: m

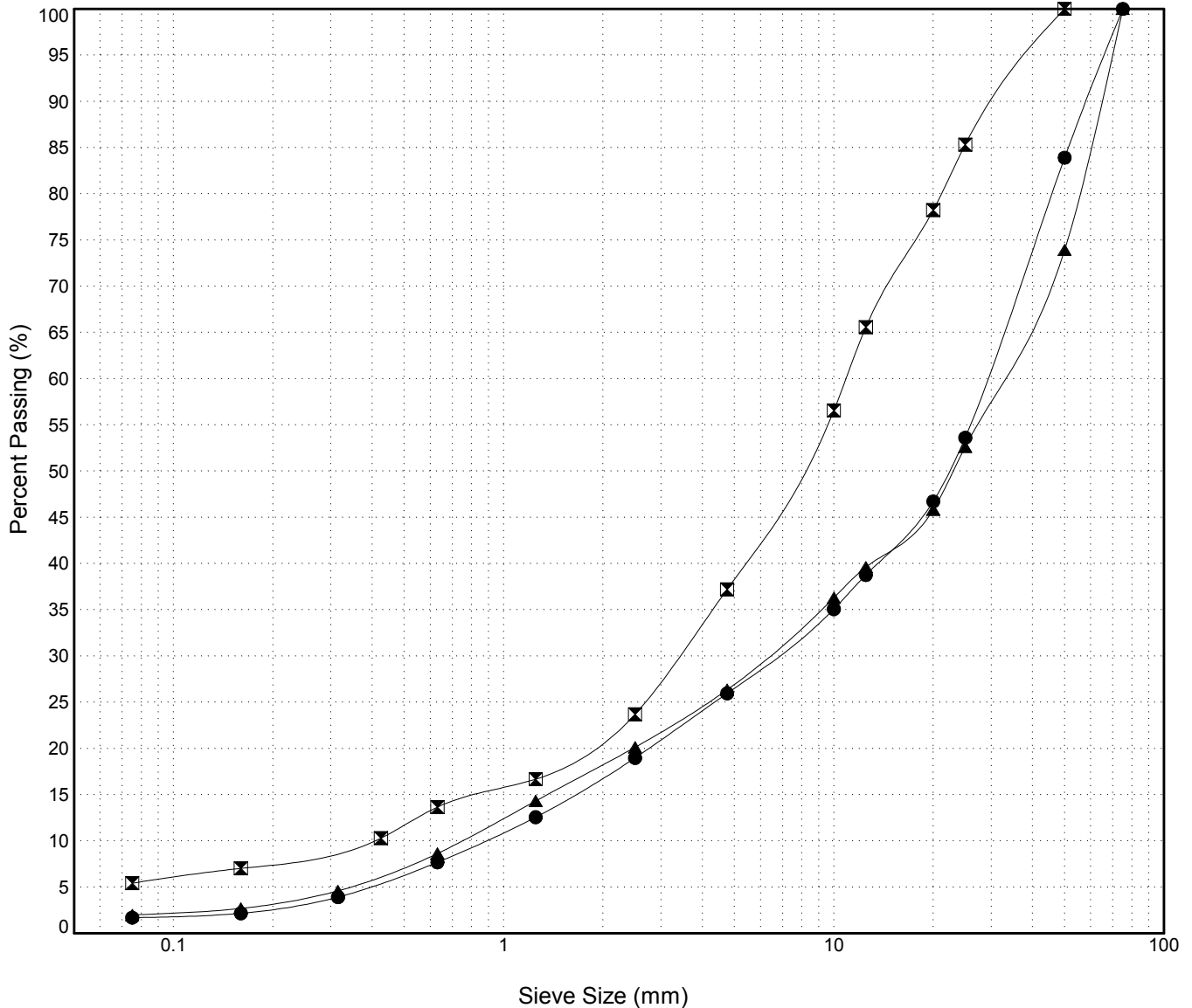
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Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 10	1140	0.2 to 0.6	WELL-GRADED GRAVEL with SAND(GW)	1.9	NP	NP	NP	1.7	33.1
☒ 11	1141	1.6 to 2.0	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	3.5	NP	NP	NP	2.7	28.0
▲ 12	1142	3.6 to 4.0	WELL-GRADED GRAVEL with SAND(GW)	1.7	NP	NP	NP	1.7	42.7

Field #	Lab #	% PASSING	Sieve Size (mm)													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt/Clay
● 10	1140	100.0	100.0	100.0	83.9	53.6	46.7	38.8	35.1	26.0	19.0	12.6	7.7	3.9	2.2	1.7	74.0	24.3	1.7
☒ 11	1141	100.0	100.0	100.0	85.3	78.2	65.6	56.6	37.2	23.7	16.7	13.6	9.3	7.0	5.4	62.8	31.8	5.4	
▲ 12	1142	100.0	100.0	73.9	52.6	45.8	39.6	36.3	26.3	20.1	14.3	8.6	4.6	2.7	2.0	73.7	24.3	2.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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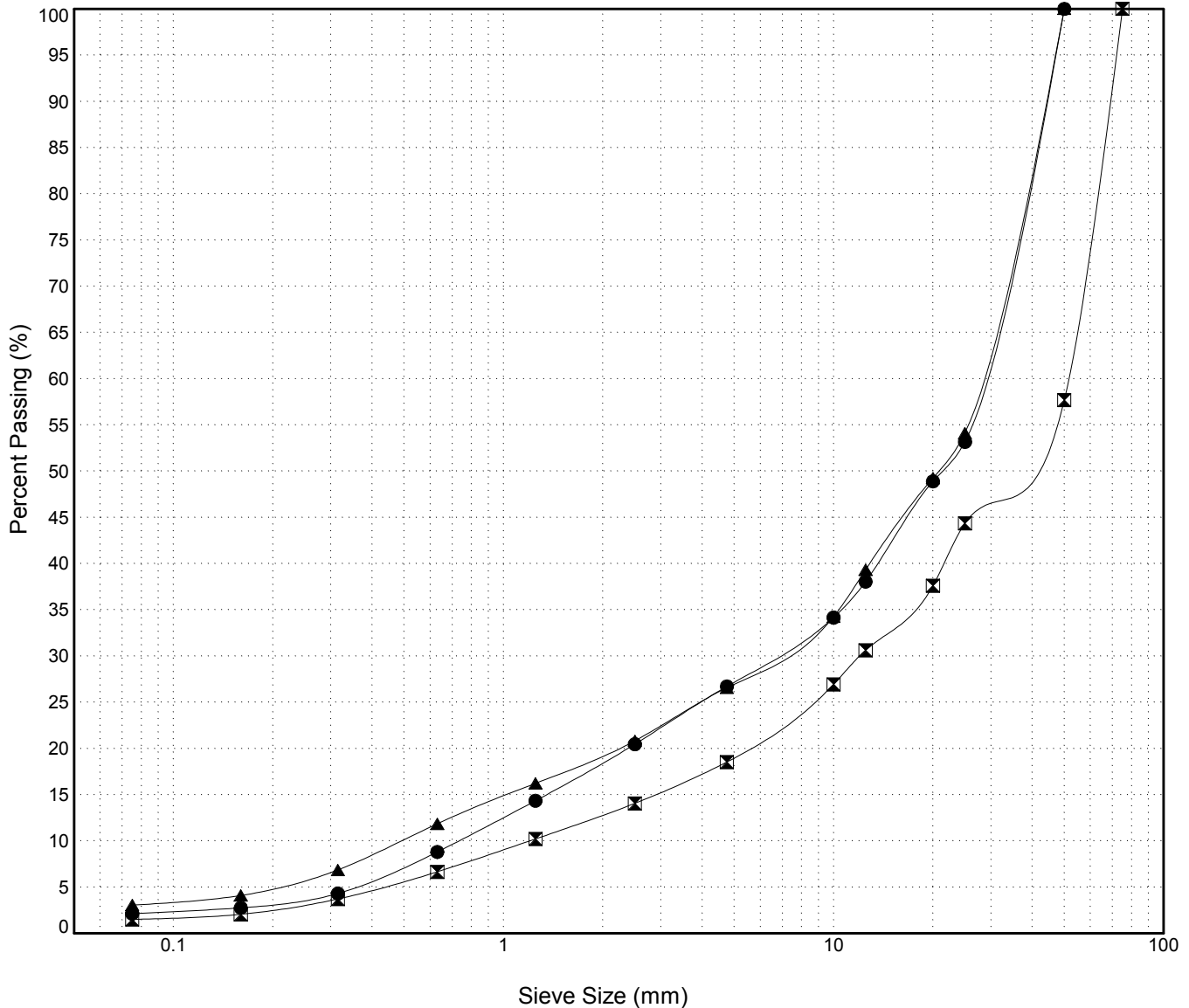
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 13	1143	0.4 to 0.8	WELL-GRADED GRAVEL with SAND(GW)	5.4	NP	NP	NP	2.2	37.8
☒ 14	1144	1.4 to 1.8	WELL-GRADED GRAVEL with SAND(GW)	2.3	NP	NP	NP	2.4	42.6
▲ 15	1145	3.6 to 4.0	POORLY GRADED GRAVEL with SAND(GP)	2.4	NP	NP	NP	3.3	56.1

Field #	Lab #	% PASSING														% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 13	1143	100.0	100.0	100.0	100.0	53.2	48.9	38.0	34.2	26.7	20.5	14.3	8.8	4.3	2.8	2.1	73.3	24.6	2.1	
☒ 14	1144	100.0	100.0	57.7	44.3	37.6	30.6	26.9	18.5	14.1	10.2	6.6	3.7	2.1	1.5		81.5	17.0	1.5	
▲ 15	1145	100.0	100.0	100.0	54.1	49.2	39.3	34.2	26.6	20.8	16.2	11.8	6.9	4.1	3.1		73.4	23.5	3.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

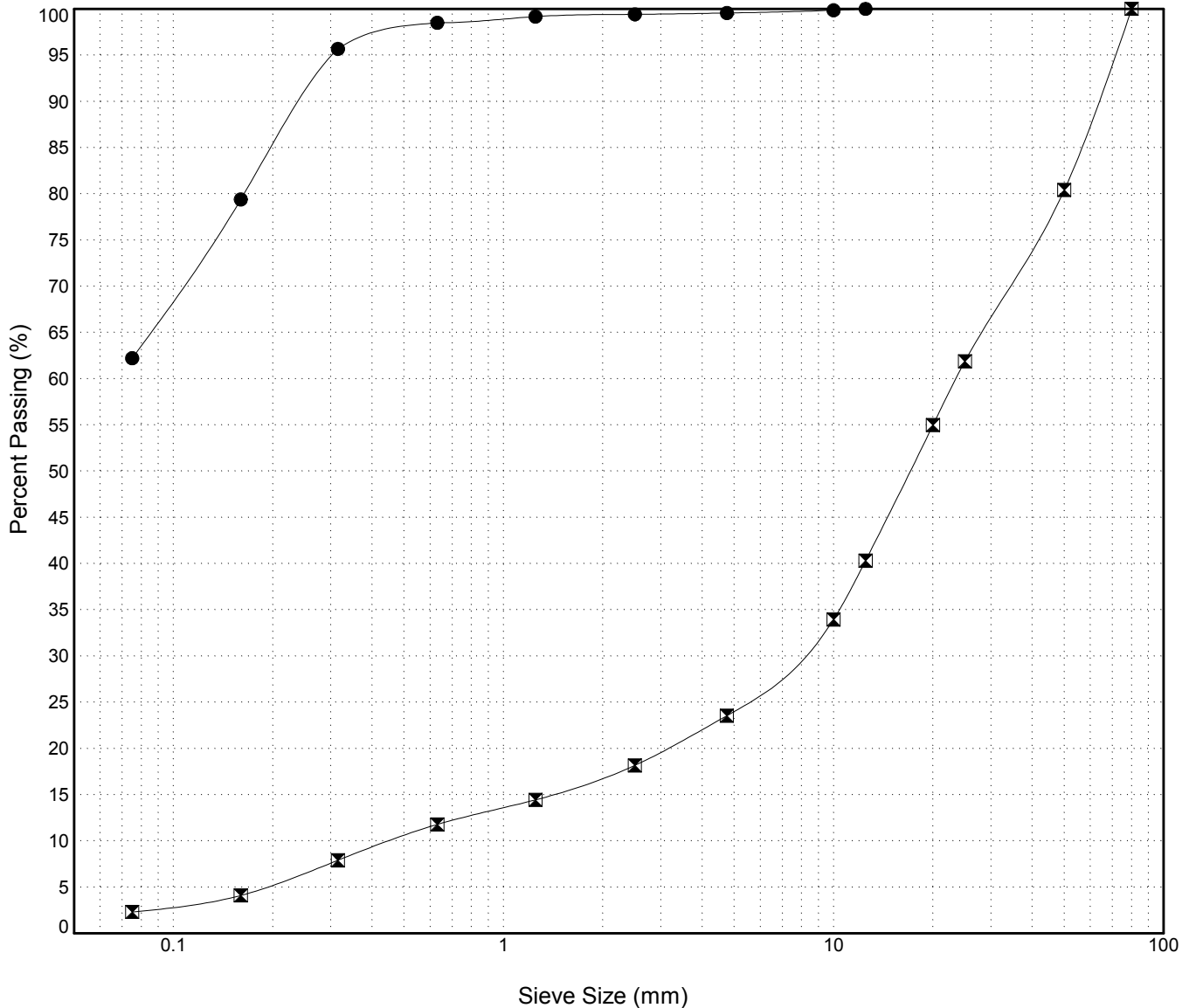


GRAIN SIZE ANALYSIS	Geotechnical exploration	SOURCE/TP#: 856-5135
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Komatsu PC 270	Coordinates:Z07V N6812411.3m E594258.3m	ELEVATION: m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu										
● 16	1146	0.2 to 0.6	SANDY SILT (ML)	25.8	NP	NP	NP												
☒ 17	1147	1.2 to 1.6	POORLY GRADED GRAVEL with SAND (GP)	7.4	NP	NP	NP	5.3	51.3										
Field #	Lab #	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 16	1146	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	99.4	99.2	98.5	95.7	79.4	62.2	0.4	37.4	62.2	
☒ 17	1147	100.0	97.3	80.4	61.9	55.0	40.3	34.0	23.5	18.2	14.4	11.8	7.9	4.1	2.3	73.8	21.2	2.3	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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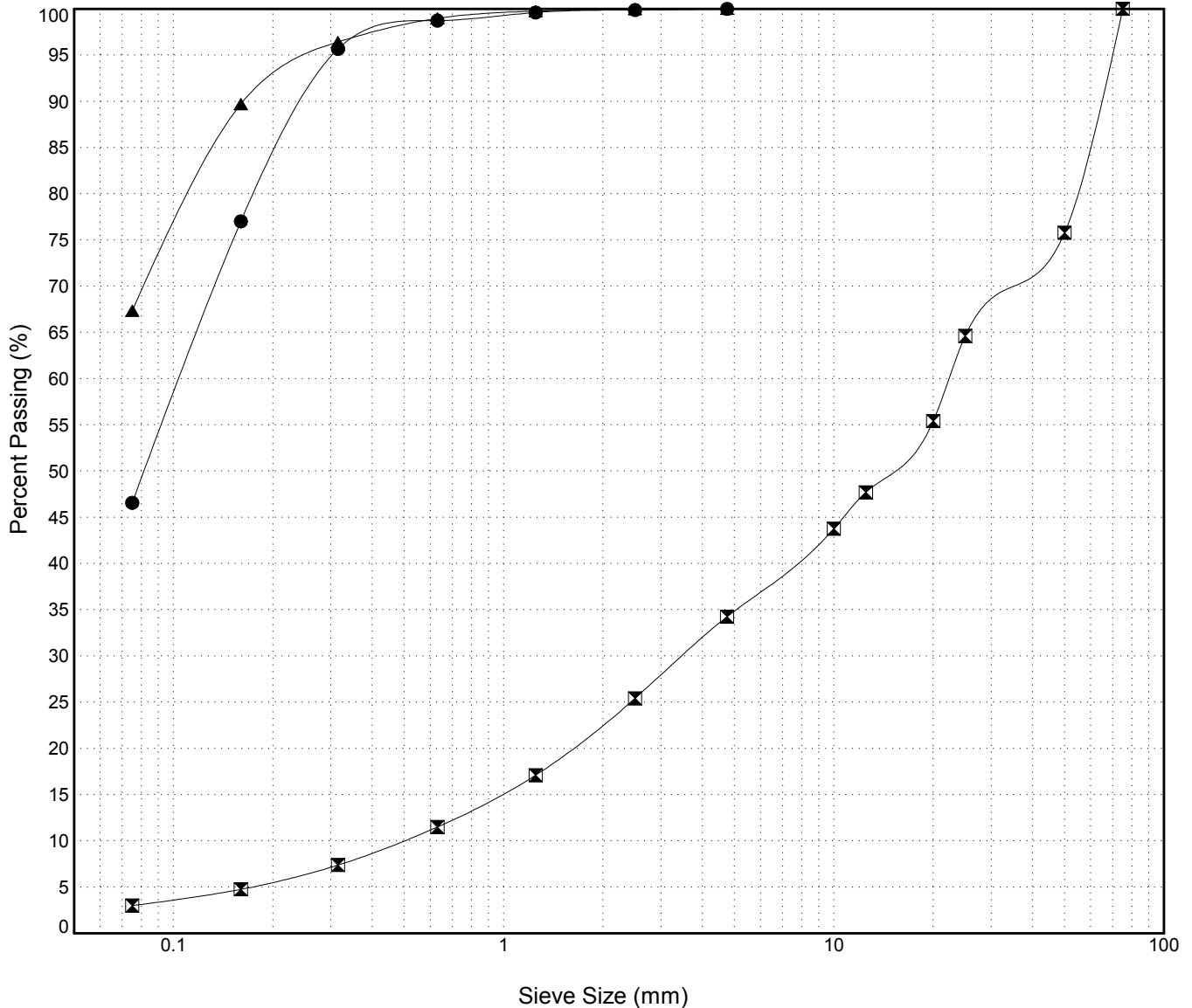
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 18	1148	0.2 to 0.4	SILTY SAND(SM)	47.5	NP	NP	NP		
☒ 20	1150	0.4 to 0.6	WELL-GRADED GRAVEL with SAND(GW)	33.9	NP	NP	NP	1.1	45.6
▲ 19	1149	1.0 to 1.4	SANDY SILT(ML)	8.4	NP	NP	NP		

Field #	Lab #	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 18	1148	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	98.7	95.7	77.0	46.6	0.0	53.4	46.6	
☒ 20	1150	100.0	100.0	75.8	64.6	55.4	47.7	43.8	34.2	25.4	17.1	11.5	7.4	4.8	3.0	65.8	31.3	3.0	
▲ 19	1149	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.0	96.4	89.7	67.3	0.0	32.7	67.3		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Geotechnical exploration	SOURCE/TP#: 856-5137
Ivan Thompson	km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates:Z07V N6812517.6m E594268.9m	ELEVATION: m

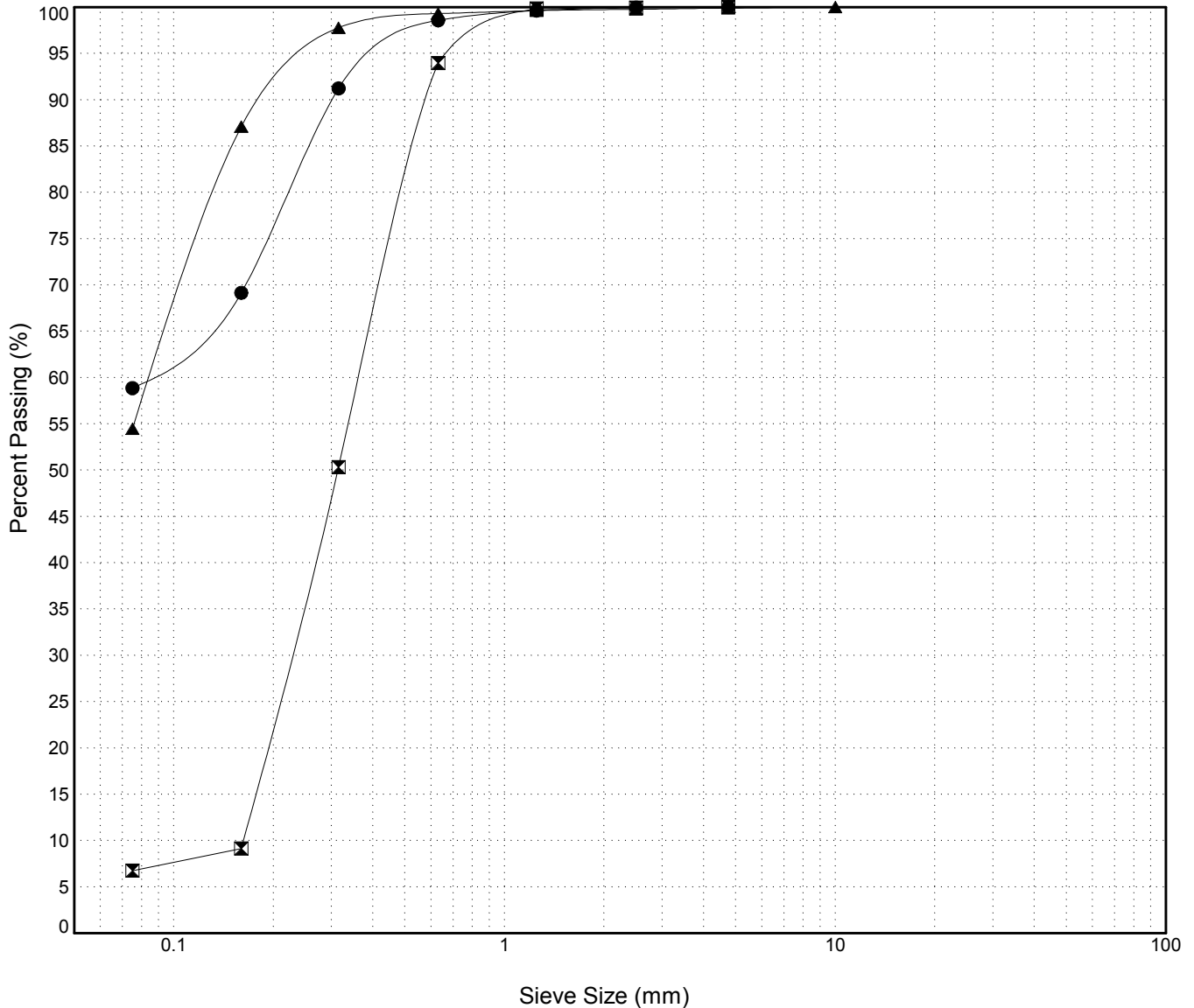
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 21	1151	1.0 to 1.4	SANDY SILT (ML)	64.6	NP	NP	NP		
☒ 22	1152	1.6 to 1.9	POORLY GRADED SAND with SILT (SP-SM)	71.3	NP	NP	NP	0.9	2.3
▲ 23	1153	2.2 to 2.6	SANDY SILT (ML)	33.5	NP	NP	NP		

Field #	Lab #	% PASSING	Sieve Size (mm)														% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 21	1151	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	98.6	91.2	69.1	58.9	0.0	41.1	58.9	
☒ 22	1152	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	94.0	50.3	9.1	6.7	0.0	93.3	6.7		
▲ 23	1153	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.6	99.3	97.8	87.1	54.5	0.1	45.4	54.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Geotechnical exploration	SOURCE/TP#: 856-5138
Ivan Thompson	km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates:Z07V N6812555.6m E594358.3m	ELEVATION: m

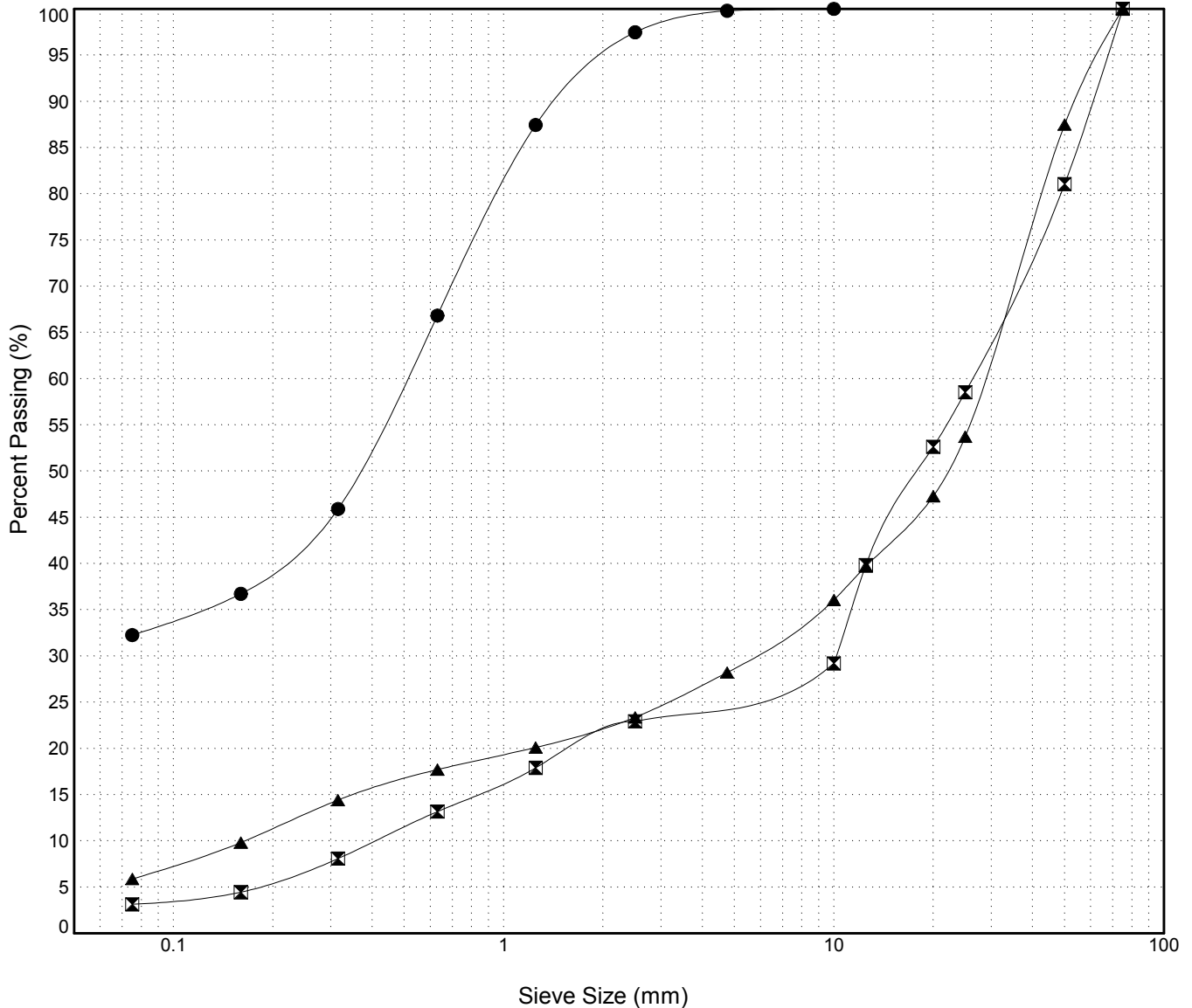
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 24	1154	0.3 to 0.7	SILTY SAND(SM)	30.5	NP	NP	NP		
☒ 25	1155	1.2 to 1.6	POORLY GRADED GRAVEL with SAND(GP)	3.3	NP	NP	NP	9.7	63.9
▲ 26	1156	3.4 to 3.8	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	6.7	NP	NP	NP	6.8	173.1

Field #	Lab #	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 24	1154	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	97.5	87.4	66.8	45.9	36.7	32.3	0.2	67.5	32.3	
☒ 25	1155	100.0	100.0	81.1	58.5	52.6	39.8	29.2	25.8	22.9	17.9	13.2	8.1	4.4	3.1	74.2	22.7	3.1	
▲ 26	1156	100.0	100.0	87.5	53.7	47.3	39.7	36.1	28.2	23.4	20.1	17.7	14.4	9.8	5.9	71.8	22.3	5.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5130
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812156.9m E594326.9m	ELEVATION: m

## PHOTOS



Figure 856-5130.1  
Photo of sample pile from 0.2m from Test Pit 856-5130, Excavated May 28th 2015



Figure 856-5130.2  
Photo of sample pile from 1.4m from Test Pit 856-5130, Excavated May 28th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5130
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812156.9m E594326.9m	ELEVATION: m

## PHOTOS



Figure 856-5130.3  
Photo of sample pile from 3.8m from Test Pit 856-5130, Excavated May 28th 2015



Figure 856-5130.4  
Photo of Test Pit 856-5130, Excavated May 28th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5131
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812189.8m E594232.3m	ELEVATION: m

## PHOTOS



Figure 856-5131.1  
Photo of sample pile from 0.2m from Test Pit 856-5131, Excavated May 28th 2015



Figure 856-5131.2  
Photo of sample pile from 1.0m from Test Pit 856-5131, Excavated May 28th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5131
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812189.8m E594232.3m	ELEVATION: m

## PHOTOS



Figure 856-5131.3  
Photo of sample pile from 2.0m from Test Pit 856-5131, Excavated May 28th 2015



Figure 856-5131.4  
Photo of Test Pit 856-5131, Excavated May 28th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5132
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812328.2m E594376.1m	ELEVATION: m

## PHOTOS



Figure 856-5132.1  
Photo of sample pile from 0.4m from Test Pit 856-5132, Excavated May 28th 2015



Figure 856-5132.2  
Photo of sample pile from 1.8m from Test Pit 856-5132, Excavated May 28th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5132
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812328.2m E594376.1m	ELEVATION: m

## PHOTOS



Figure 856-5132.3  
Photo of sample pile from 4.0m from Test Pit 856-5132, Excavated May 28th 2015



Figure 856-5132.4  
Photo of Test Pit 856-5132, Excavated May 28th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5133
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812319.1m E594252.1m	ELEVATION: m

## PHOTOS



Figure 856-5133.1  
Photo of spoil pile from Test Pit 856-5133, Excavated May 28th 2015



Figure 856-5133.2  
Photo of Test Pit 856-5133, Excavated May 28th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5134
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812406.8m E594342.2m	ELEVATION: m

## PHOTOS



Figure 856-5134.1  
Photo of sample pile from 0.4m from Test Pit 856-5134, Excavated May 28th 2015



Figure 856-5134.2  
Photo of sample pile from 1.4m from Test Pit 856-5134, Excavated May 28th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5134
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812406.8m E594342.2m	ELEVATION: m

## PHOTOS



Figure 856-5134.3  
Photo of sample pile from 3.6m from Test Pit 856-5134, Excavated May 28th 2015



Figure 856-5134.4  
Photo of Test Pit 856-5134, Excavated May 28th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5135
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812411.3m E594258.3m	ELEVATION: m

## PHOTOS



Figure 856-5135.1  
Photo of spoil pile from Test Pit 856-5135, Excavated May 29th 2015



Figure 856-5135.2  
Photo of Test Pit 856-5135, Excavated May 29th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5136
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812479.4m E594341.8m	ELEVATION: m

## PHOTOS



Figure 856-5136.1  
Photo of sample pile from 0.2m from Test Pit 856-5136, Excavated May 29th 2015



Figure 856-5136.2  
Photo of sample pile from 0.4m from Test Pit 856-5136, Excavated May 29th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5136
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812479.4m E594341.8m	ELEVATION: m

## PHOTOS



Figure 856-5136.3  
Photo of Test Pit 856-5136, Excavated May 29th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5137
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812517.6m E594268.9m	ELEVATION: m

## PHOTOS



Figure 856-5137.1  
Photo of spoil pile from Test Pit 856-5137, Excavated May 29th 2015



Figure 856-5137.2  
Photo of Test Pit 856-5137, Excavated May 29th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5138
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812555.6m E594358.3m	ELEVATION: m

## PHOTOS



Figure 856-5138.1  
Photo of sample pile from 0.3m of Test Pit 856-5138, Excavated May 29th 2015



Figure 856-5138.2  
Photo of sample pile from 1.2m of Test Pit 856-5138, Excavated May 29th 2015

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 856-5138
Ivan Thompson	Geotechnical exploration, km 1717.8 LHS	PROJECT NO: 552-202101-1001-1-1
Komatsu PC 270	Coordinates: Z07V N6812555.6m E594358.3m	ELEVATION: m

## PHOTOS



Figure 856-5138.3  
Photo of sample pile from 3.4m of Test Pit 856-5138, Excavated May 29th 2015



Figure 856-5138.4  
Photo of Test Pit 856-5138, Excavated May 29th 2015