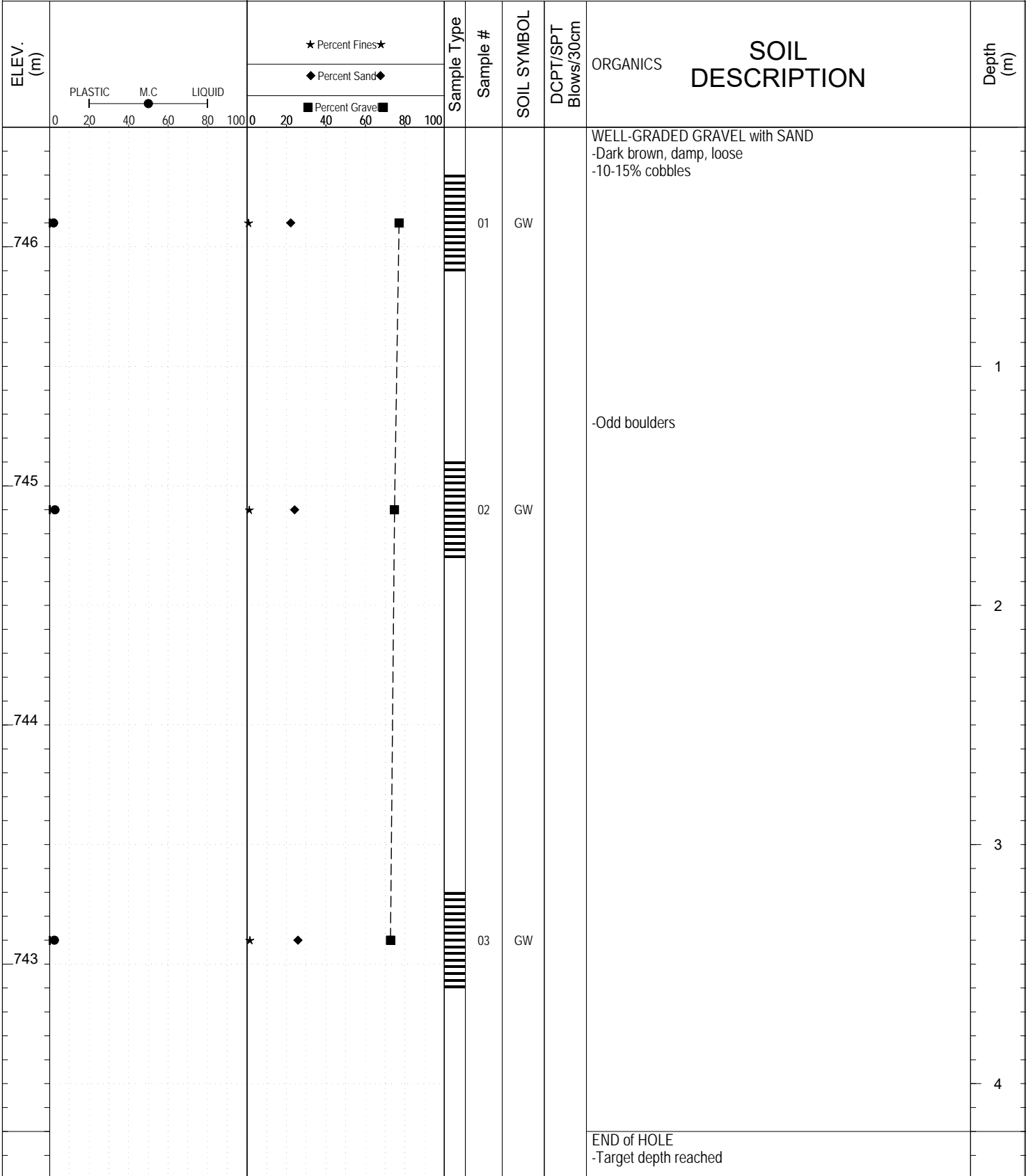


SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway	SOURCE/TP#: 858-5152
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C		Coordinates: Z07V N6852041.9m E549771.2m	ELEVATION: 746.5m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
 Transportation Engineering Branch

LOGGED BY: G. Kennedy	Termination Depth: 4.2m
COMPILED BY: M. Jubinville	Complete: 6/24/2015
REVIEWED BY: R. Stilwell	Pit #: 115 F-03 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5153					
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3					
CAT Excavator 315C		Coordinates: Z07V N6851983.7m E549745.1m		ELEVATION: 750m					
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100								
749	★	◆	■	GW	04			WELL-GRADED GRAVEL with SAND -Brown, damp, loose -15-20% cobbles	1
748								-Some boulders	2
747	★	◆	■	GW	05				3
746	★	◆	■	GP	06			POORLY GRADED GRAVEL with SAND -10-15% cobbles	4
								END of HOLE -Target depth reached	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5154				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851949m E549746.8m		ELEVATION: 751.7m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
751	●	◆	■	SM	07		SILTY SAND -Brown, loose, damp	
750	●	◆	■	GW	08		WELL-GRADED GRAVEL with SAND -Light, brown, damp, loose -10-15% cobbles	1
749							POORLY GRADED GRAVEL with SAND	3
748	●	◆	■	GP	09			4
							END of HOLE -Target depth reached	

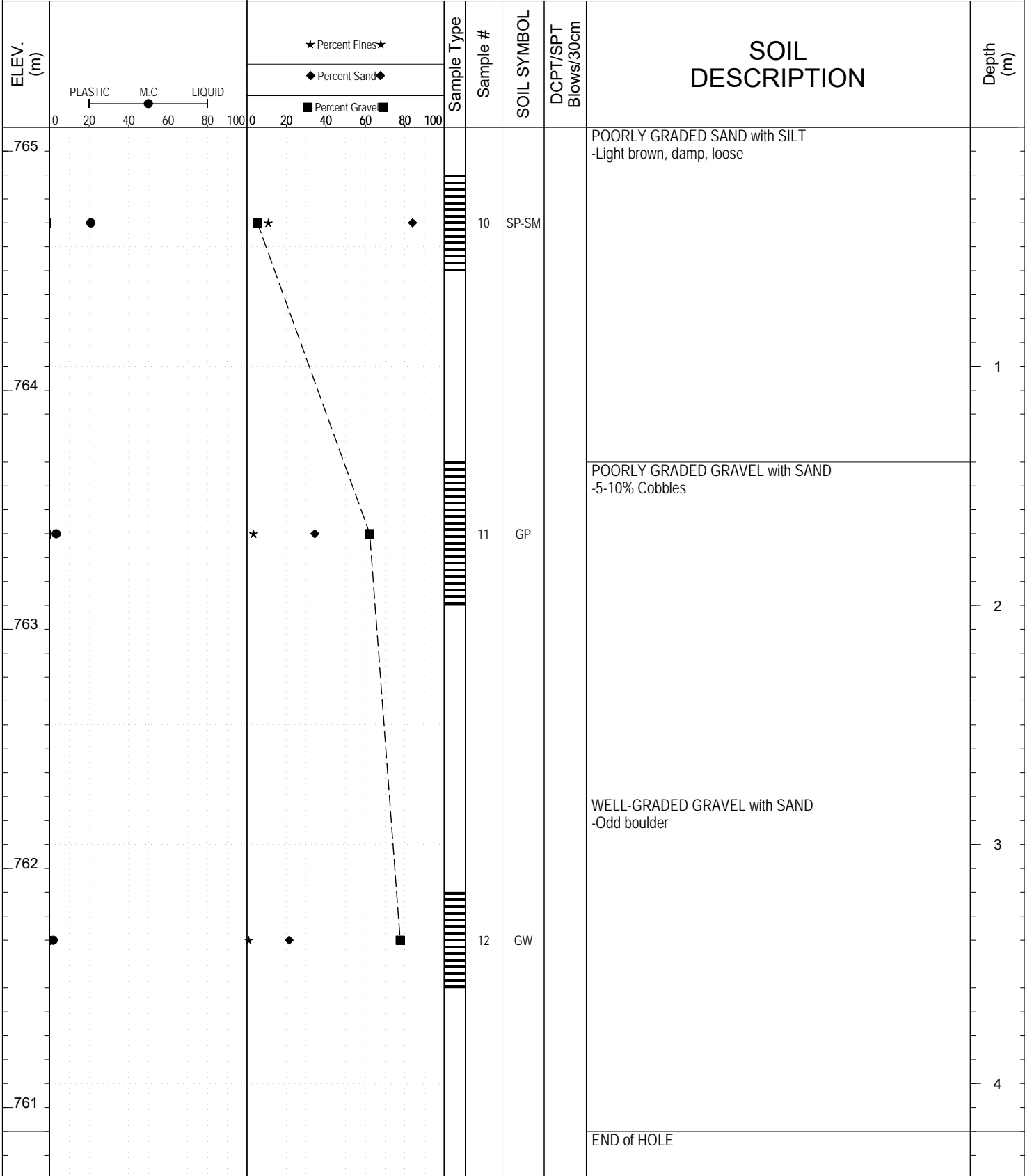


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 858-5155

Ralph Hotte Contracting Edith Creek, Km 1782.5 Ihs PROJECT NO: 552-202101-0905-0661-3

CAT Excavator 315C Coordinates: Z07V N6851920.9m E549687.3m ELEVATION: 765.1m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy	Termination Depth: 4.2m
COMPILED BY: M. Jubinville	Complete: 6/24/2015
REVIEWED BY: R. Stilwell	Pit #: 115 F-03 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5156				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851860.3m E549607.2m		ELEVATION: 770.4m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
770	★	◆	■	GP	13		POORLY GRADED GRAVEL with SAND -Brown, damp, loose -10-15% Cobbles	1
769	★	◆	■	GW	14		WELL-GRADED GRAVEL with SAND -15-20% cobbles, odd boulder	2
768								3
767	★	◆	■	GW	15			4
766							END of HOLE -Target depth reached	



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy

Termination Depth: 4.2m

COMPILED BY: M. Jubinville

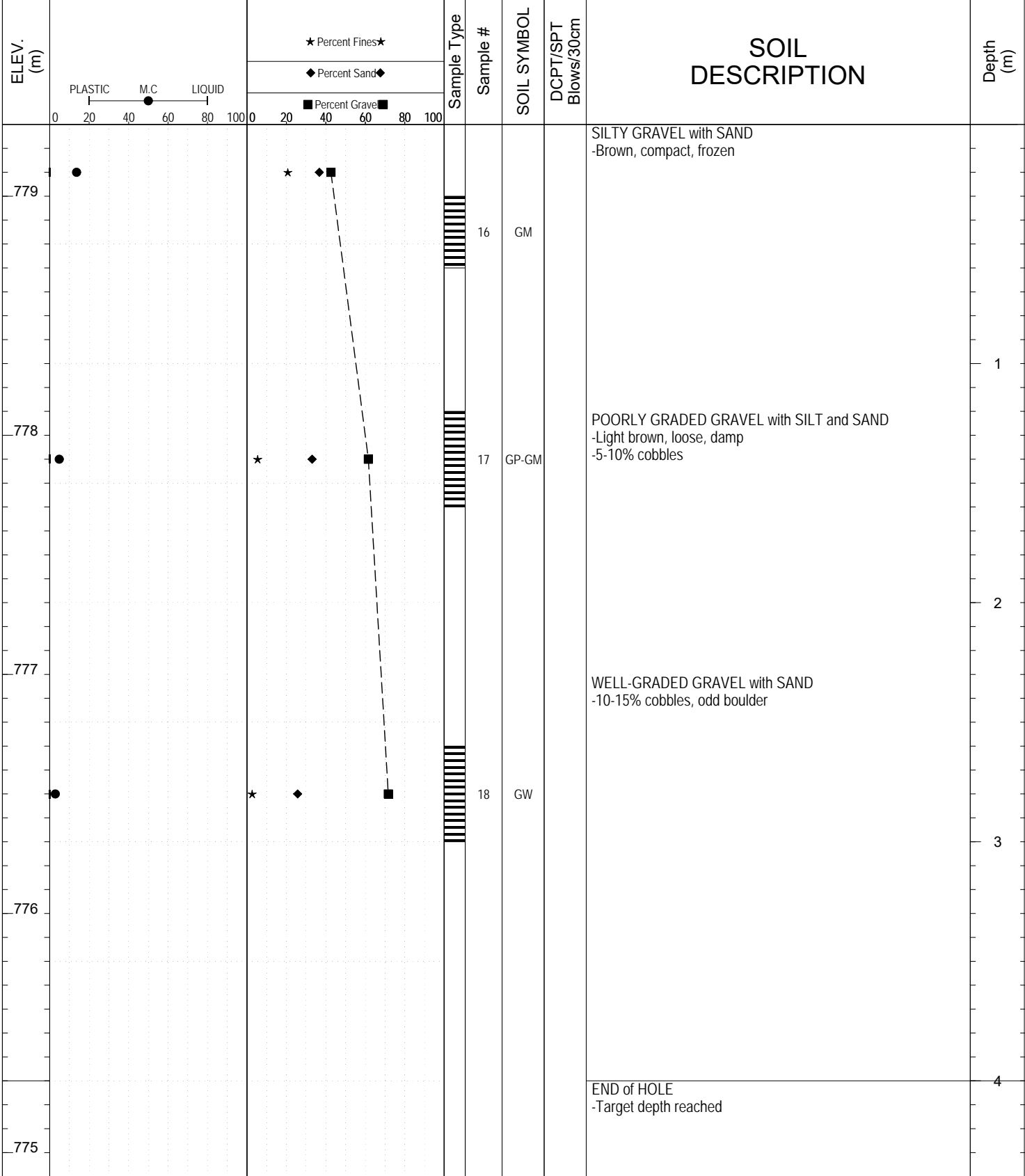
Complete: 6/24/2015

REVIEWED BY: R. Stilwell

Pit #: 115 F-03

Page 1 of 1

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5158			
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3			
CAT Excavator 315C		Coordinates: Z07V N6851663.6m E549622.2m		ELEVATION: 781.5m			
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE					
ELEV. (m)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> </div> <div style="width: 45%;"> <p>Sample Type</p> <p>Sample #</p> <p>SOIL SYMBOL</p> <p>DCPT/SPT Blows/30cm</p> </div> </div>		SOIL DESCRIPTION		Depth (m)		
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 45%;"> <p>0 20 40 60 80 100</p> </div> </div>						
781	★	◆	■	19	GP	POORLY GRADED GRAVEL with SAND -Brown, loose, damp -Boulders	1
780	★	◆	■	20	GW	WELL-GRADED GRAVEL with SAND	2
779							3
778	★	◆	■	21	SP-SM	-POORLY GRADED SAND with SILT and GRAVEL -Light brown, damp to wet, loose	4
						END of HOLE -Target depth reached	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5159				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851587.1m E549538.2m		ELEVATION: 779.6m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input checked="" 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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
779	★	◆	■	GP	22		POORLY GRADED GRAVEL with SAND -Brown, dry, loose -15-20% cobbles, some boulders	1
778	★	◆	■	SP	23		POORLY GRADED SAND with GRAVEL -Light brown	
777	★	◆	■	GP	24		POORLY GRADED GRAVEL with SAND -Light brown, dry, loose -15-20% Cobbles, some boulders	2
776							END of HOLE -Target depth reached	4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5160									
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3									
CAT Excavator 315C		Coordinates: Z07V N6851484.3m E549443.3m		ELEVATION: 781.1m									
SAMPLE TYPE		UNDISTURBED		DCPT		AUGER		BULK		SPT		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)	
	0	20	40	60	80								100
781				★	◆	■	25	GP-GM		POORLY GRADED GRAVEL with SILT and SAND -Light, brown, dry, loose -5-10% Cobbles			
780				★	◆	■	26	GW		WELL-GRADED GRAVEL with SAND -Dark brown, damp -15-20% cobbles, some boulders		1	
779												2	
778				★	◆	■	27	GP		POORLY GRADED GRAVEL with SAND -More boulders		3	
777										END of HOLE -Target depth reached		4	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5161					
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3					
CAT Excavator 315C		Coordinates: Z07V N6851404.8m E549385.8m		ELEVATION: 781.6m					
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)	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 30%;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> <p>0 20 40 60 80 100</p> </div> </div>			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	781				28	GW	WELL-GRADED GRAVEL with SAND -Light brown, dry, loose -10-15% cobbles, odd boulder		
780				29	GP-GM	POORLY GRADED GRAVEL with SILT and SAND -Dark brown -15-20% cobbles, more boulders	1		
779							2		
778				30	GP	POORLY GRADED GRAVEL with SAND -Damp	3		
						END of HOLE -Target depth reached	4		



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5162				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851296.2m E549311.6m		ELEVATION: 762.2m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
762				31	GP-GM		POORLY GRADED GRAVEL with SILT and SAND -Dark brown, dry, loose -5% cobbles	1
761								2
760							WELL-GRADED GRAVEL with SAND -Damp -5-10% cobbles, damp	3
759				32	GW			
758				33	GP		POORLY GRADED GRAVEL with SILT and SAND -Odd boulder	4
							END of HOLE -Target depth reached	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5163				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851237.6m E549218.6m		ELEVATION: 789.2m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
789			SM	34	SM		SILTY SAND -Light brown dry, loose	1
788								
787			GP	35	GP		POORLY GRADED GRAVEL with SAND -Dark brown, damp, loose -5-10% cobbles, odd boulder	2
786								
785			GP	36	GP		POORLY GRADED GRAVEL with SAND -15-20% cobbles	3
							END of HOLE -Target depth reached	4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5164				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851174.1m E549143.5m		ELEVATION: 793.7m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
793	●	★ ◆ ■	GM	37	GM		SILTY GRAVEL with SAND -Light brown, dry, loose	1
792								
791	●	★ ◆ ■	SM	38	SM		SILTY SAND with GRAVEL -Light brown, dry, loose	2
790	●	★ ◆ ■	GM	39	GM		SILTY GRAVEL with SAND -Dark brown, damp, loose -5-10% Cobble, odd boulder	3
							END of HOLE -Target depth reached	4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5165				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851105.9m E549026.9m		ELEVATION: 805.3m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
805	●	★	■	◆	SM	40	SILTY SAND -Brown -no visible rock for 2.05m	0
804	●	★	■	◆	GP	41	POORLY GRADED GRAVEL with SAND -Brown -15-20% cobbles	1
803							POORLY GRADED GRAVEL with SAND -Dark brown, damp, loose	2
802	●	★	■	◆	GP	42		3
801							END of HOLE -Target depth reached	4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5166				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851037.3m E548882.9m		ELEVATION: 806.1m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> </div> <div style="text-align: center;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> </div>		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	806			■	43	GP-GM		1
805			■	44	GP	POORLY GRADED GRAVEL with SAND -Light brown, dry, loose -10-15% cobbles, some boulders		
804			■	45	GW	POORLY GRADED GRAVEL with SAND -Darker brown, damp -20-25% Cobbles	2	
803			■	45	GW	WELL-GRADED GRAVEL with SAND	3	
802			■	45	GW	END of HOLE -Target depth reached	4	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5167				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6850980.4m E548739.1m		ELEVATION: 818.5m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
818	●	★	■	◆	46	SP-SM	POORLY GRADED SAND with SILT -Brown	
818	●	★	■	◆	47	SP-SM	-Whiteish brown, damp, loose	
817	●	★	■	◆	48	GP	POORLY GRADED GRAVEL with SAND -Dark brown, damp, loose -15-20% cobbles	1
816								2
815	●	★	■	◆	49	GP		3
							END of HOLE -Target depth reached	4

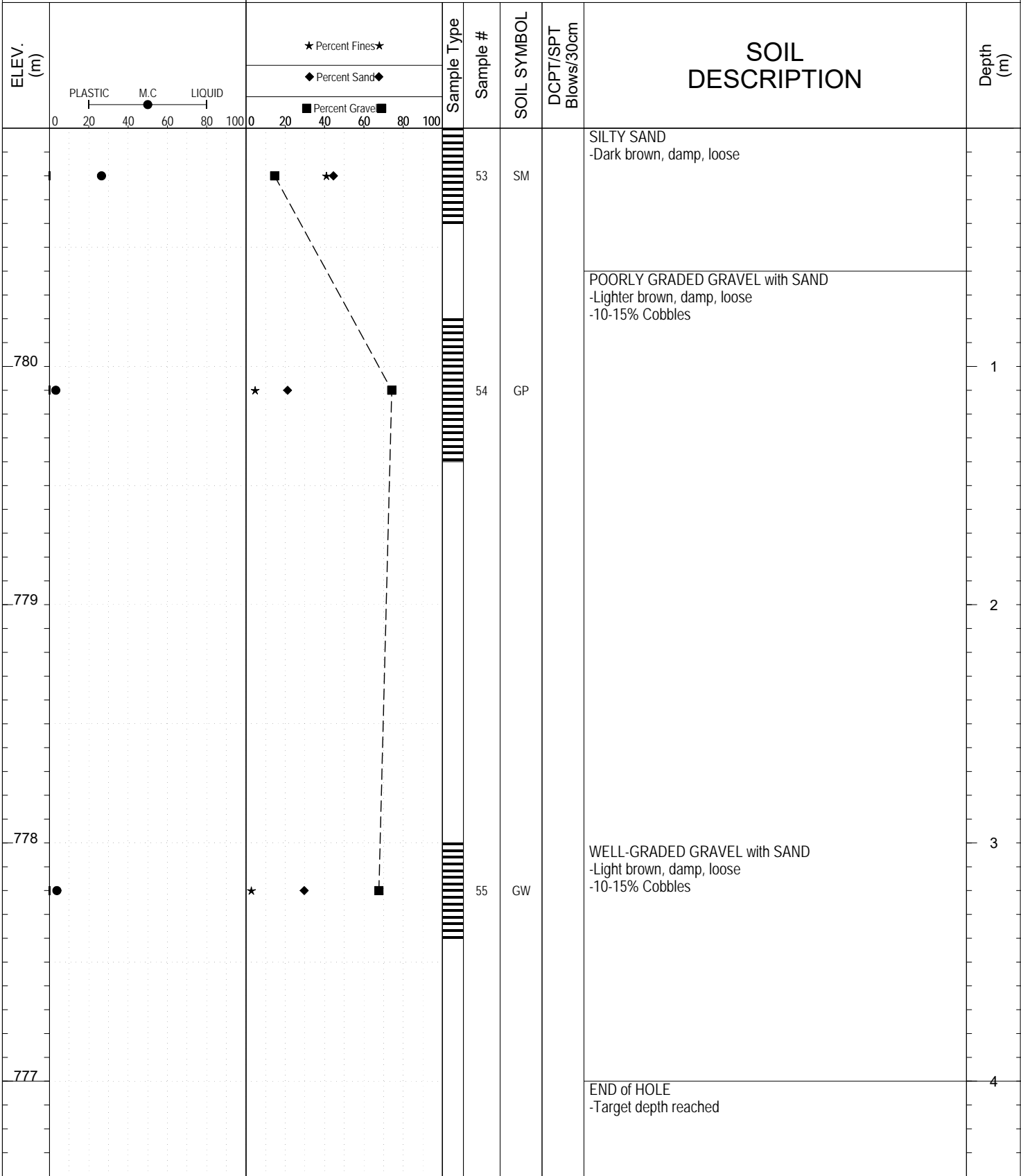


SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5168				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6850889.7m E548637.5m		ELEVATION: 823m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
822	20	50	SM	50	SM		SILTY SAND -White, damp, loose	0.5
822	20	50	GW	51	GW		WELL-GRADED GRAVEL with SAND -Dark brown, damp, loose -15-20% cobbles. odd boulder	1.0
821								2.0
820							POORLY GRADED GRAVEL with SAND	3.0
819	20	50	GP	52	GP			3.5
							END of HOLE -Target depth reached	4.0



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway	SOURCE/TP#: 858-5169
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C		Coordinates: Z07V N6851987.3m E549807.4m	ELEVATION: 781m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

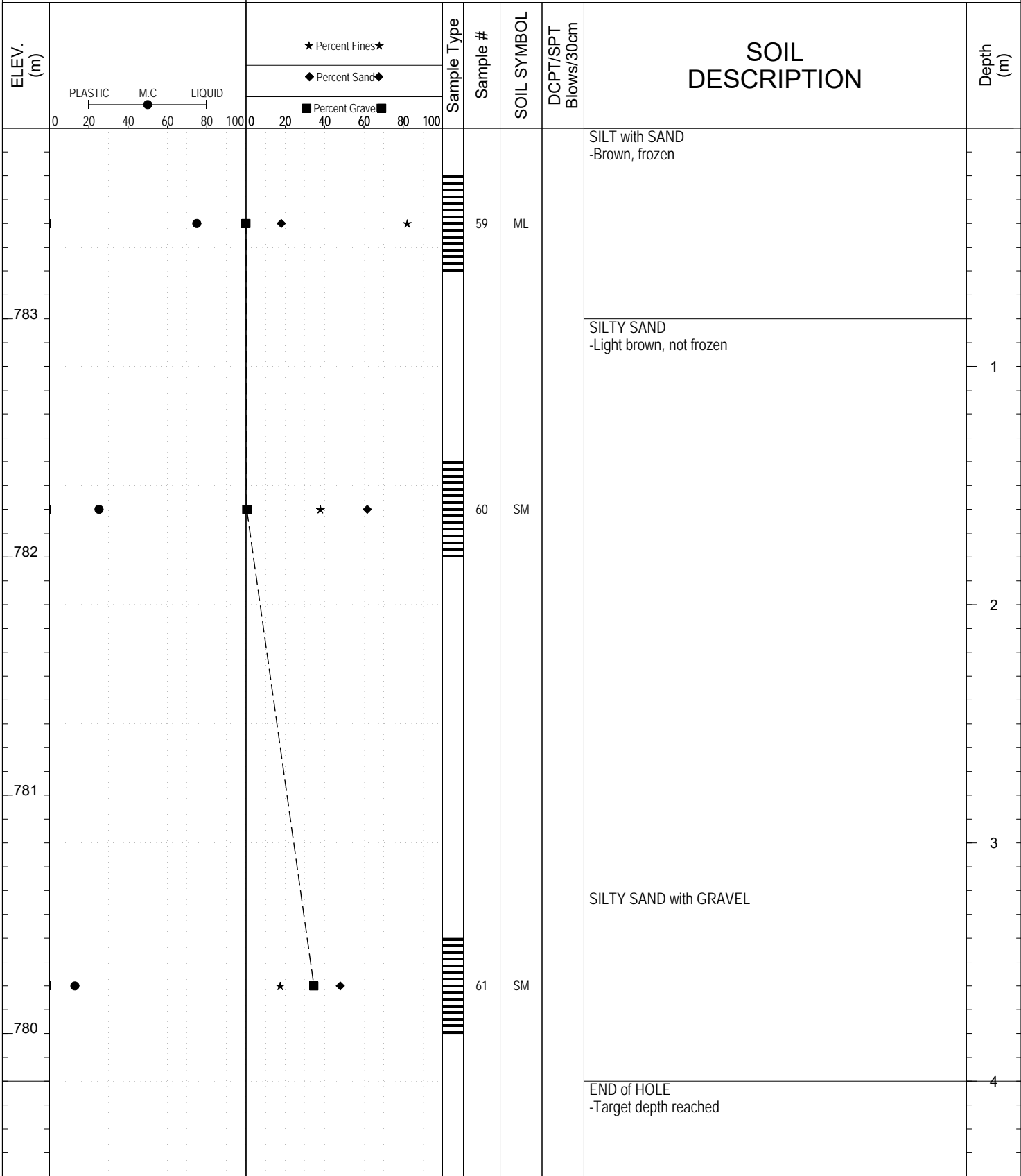
LOGGED BY: G. Kennedy	Termination Depth: 4m
COMPILED BY: M. Jubinville	Complete: 6/26/2015
REVIEWED BY: R. Stilwell	Pit #: 115 F-03 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5170				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851988.6m E549851.3m		ELEVATION: 779.9m				
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)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 45%;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> <p>0 20 40 60 80 100</p> </div> </div>		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
779			56	SM		SILTY SAND -Brown, frozen	1	
778			57	ML		SANDY SILT -Brown, frozen WELL-GRADED GRAVEL with SILT and SAND -Light brown, damp, loose -5-10% Cobbles	2	
777			58	GW-GM			3	
776						END of HOLE -Target depth reached	4	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway	SOURCE/TP#: 858-5171
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C		Coordinates: Z07V N6851953.5m E549893.9m	ELEVATION: 783.8m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy	Termination Depth: 4m
COMPILED BY: M. Jubinville	Complete: 6/26/2015
REVIEWED BY: R. Stilwell	Pit #: 115 F-03 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5172				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851914.7m E549933.8m		ELEVATION: 782.5m				
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 Grave■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
782				62	SM		SILTY SAND -Brown, damp, loose	1
781								2
780								3
779				63	SM		-Brownish grey -5% cobbles	4
							END of HOLE -Target depth reached	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5173									
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3									
CAT Excavator 315C		Coordinates: Z07V N6851874.1m E549873.6m		ELEVATION: 772.5m									
SAMPLE TYPE		UNDISTURBED		DCPT		AUGER		BULK		SPT		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)		
	0 20 40 60 80 100		0 20 40 60 80 100										
772	●		★	◆		64	SM		SILTY SAND with GRAVEL -Brown, damp, loose		1		
771	●		★	◆	■	65	GW-GM		WELL GRADED GRAVEL with SILT and SAND -Dark brown, damp, loose -5-10% Cobbles		2		
770									SILTY SAND -Brown, damp, loose		3		
769	●		■	★	◆	66	SM				4		
									END of HOLE -Target depth reached				



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5174				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851825.3m E549816.7m		ELEVATION: 769m				
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 Type	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							
769							WELL-GRADED SAND with SILT -Light brown, damp, loose	
768					67	SW-SM		
768					68	GW	-WELL-GRADED GRAVEL with SAND -Dark brown, damp, loose -10-15% cobbles	1
767								2
766					69	GW		3
765							END of HOLE -Target depth reached	4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 858-5175				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851742.5m E549712.8m		ELEVATION: 771.9m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
771				70	SP-SM		POORLY GRADED SAND with SILT -Light brown, damp, loose	1
770				71	GP		POORLY GRADED GRAVEL with SAND -Dark brown, damp, loose -15-20% Cobbles, odd boulder	2
769							WELL-GRADED GRAVEL with SAND	3
768				72	GW		END of HOLE -Target depth reached	4

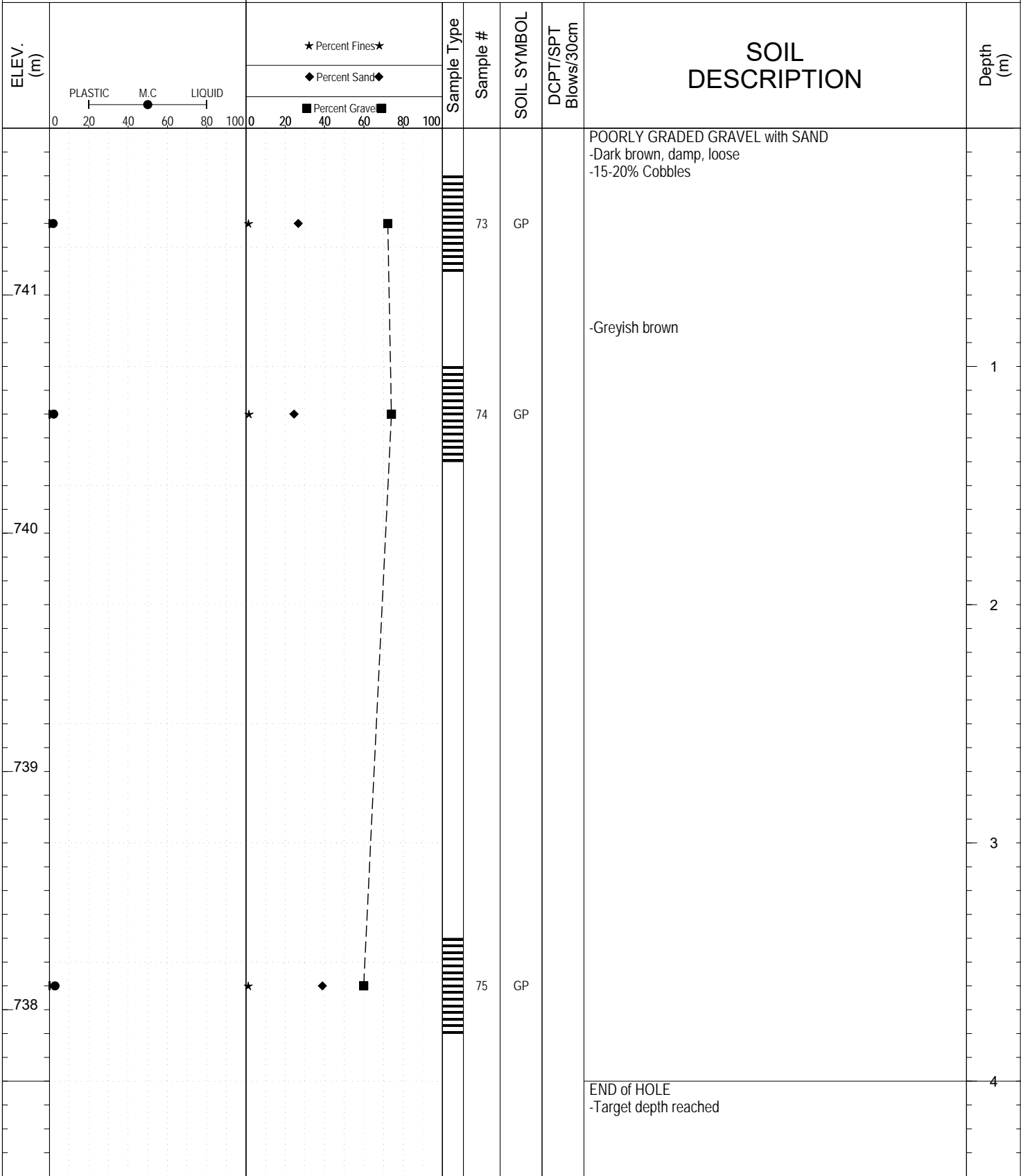


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 859-5176

Ralph Hotte Contracting Edith Creek, Km 1782.5 lhs PROJECT NO: 552-202101-0905-0661-3

CAT Excavator 315C Coordinates: Z07V N6852042.7m E549724.5m ELEVATION: 741.7m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy	Termination Depth: 4m
COMPILED BY: M. Jubinville	Complete: 6/27/2015
REVIEWED BY: R. Stilwell	Pit #: 115 F-03 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5177				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851991.4m E549684.2m		ELEVATION: 744.3m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
744	●	★	■	◆	76	SP	POORLY GRADED SAND with GRAVEL -Brown, compact, frozen	1
743	●	★	■	◆	77	GP-GM	POORLY GRADED GRAVEL with SILT and SAND -Light brown, loose, damp -5-10% cobbles	2
742							WELL-GRADED GRAVEL with SAND -Greyish brown -15-20% cobbles, odd boulder	3
741	●	★	■	◆	78	GW		4
740							END of HOLE -Target depth reached	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5178				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851947.7m E549635.6m		ELEVATION: 741.1m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input checked="" 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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
741							SILTY SAND -Light brown, damp, loose	
				79	SM			
740				80	GP		POORLY GRADED GRAVEL with SAND -Greyish brown, damp, loose -10-15% Cobbles	1
								2
739								
								3
738								
				81	GP		-Dark brown -15-20% Cobbles, odd boulder	4
737								
							END of HOLE -Target depth reached	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5179	
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3	
CAT Excavator 315C		Coordinates: Z07V N6851922.8m E549532m		ELEVATION: 750.9m	
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input type="checkbox"/> AUGER <input checked="" type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE			
ELEV. (m)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> </div> <div style="width: 45%;"> <p>Sample Type</p> <p>Sample #</p> <p>SOIL SYMBOL</p> <p>DCPT/SPT Blows/30cm</p> </div> </div>		SOIL DESCRIPTION		Depth (m)
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>PLASTIC M.C. LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 45%;"> <p>0 20 40 60 80 100</p> </div> </div>				
750.9			SILTY SAND -Brown, frozen		0
750.0			WELL-GRADED GRAVEL with SAND -Brown, damp, compact -5-10% Cobbles		1
749.0			POORLY GRADED SAND with GRAVEL -Brown, damp, loose -5% Cobbles		2
748.0					3
747.0			END of HOLE -Target depth reached		4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5180									
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3									
CAT Excavator 315C		Coordinates: Z07V N6851828.9m E549442.4m		ELEVATION: 755.4m									
SAMPLE TYPE		UNDISTURBED		DCPT		AUGER		BULK		SPT		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)		
	0 20 40 60 80 100		0 20 40 60 80 100										
755	●		★ ◆		AUGER	85	SM		SILTY SAND -Brown, frozen		1		
754	●		★ ◆			86	SM		-Light brown, loose, damp				
753											3		
752	●		★ ◆ ■		AUGER	87	GP-GM		POORLY GRADED GRAVEL with SAND -Light brown, loose, damp -5-10% Cobbles		4		
751									END of HOLE -Target depth reached				



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5181					
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3					
CAT Excavator 315C		Coordinates: Z07V N6851769.9m E549350.7m		ELEVATION: 761.6m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input checked="" 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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)	
	PLASTIC M.C LIQUID 0 20 40 60 80 100								
761	20	40	■	★	◆	88	SM	SILTY SAND -Frozen	
761	40	60	■	★	◆	89	SM	SILTY SAND with GRAVEL -Brown -5-10% Cobbles	1
759	20	40	■	★	◆	90	GP	POORLY GRADED GRAVEL with SAND -Brown, damp, loose -10-15% Cobbles	3
758								END of HOLE -Target depth reached	4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5182				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851657.4m E549304.6m		ELEVATION: 766.3m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
766	>>	◆	★	ML	91		SILT -Brown, frozen	
765		◆	★	GP	92		POORLY GRADED GRAVEL with SAND -Light brown, damp, loose -5-10% Cobbles	1
764							-Sand seam, light brown, 400mm	2
763		◆	★	GW	93		WELL-GRADED GRAVEL with SAND -Light brown, damp, loose -10-15% Cobbles	3
762							END of HOLE -Target depth reached	4

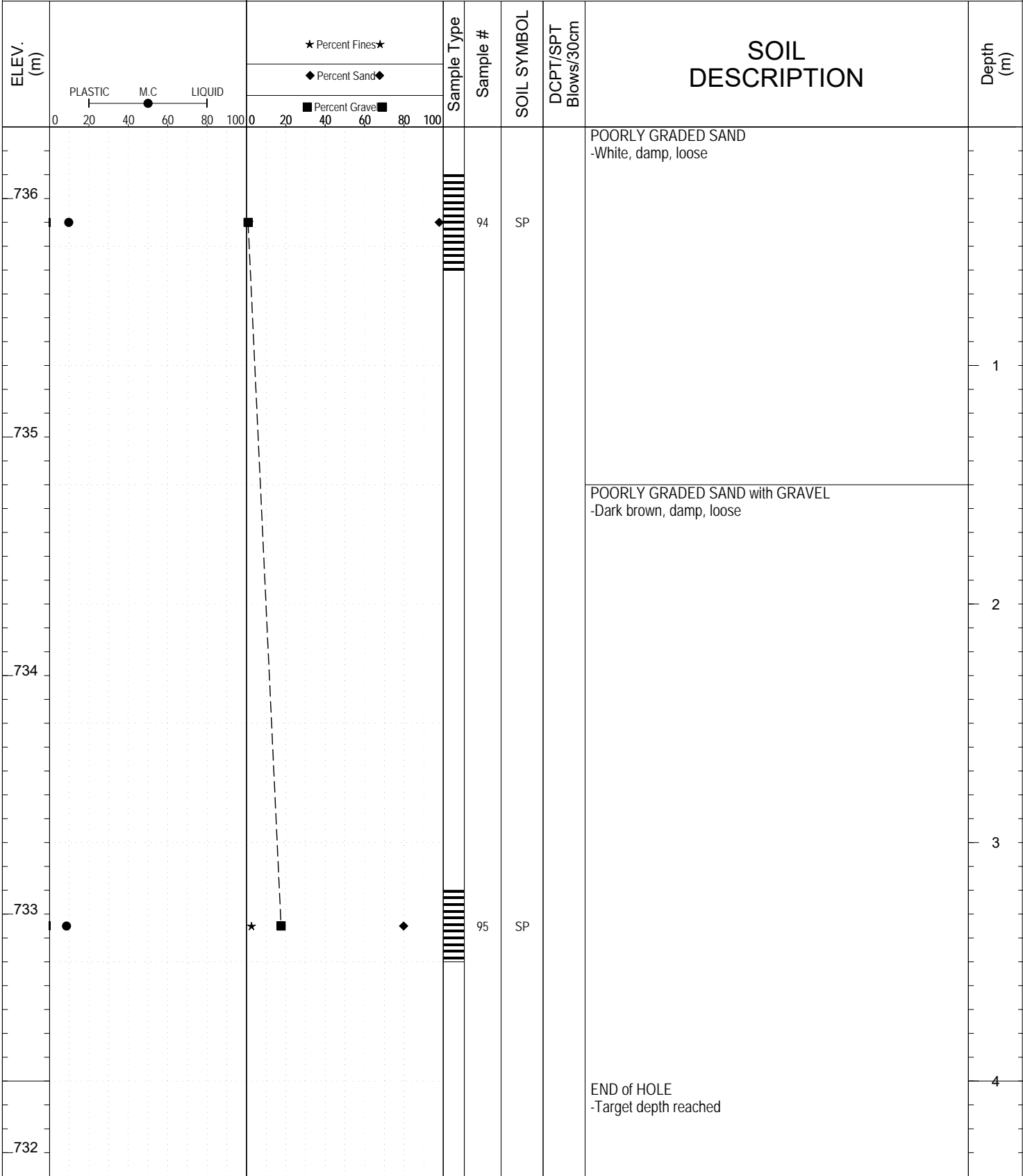


SUBSURFACE EXPLORATION AND TEST REPORT Alaska Highway SOURCE/TP#: 859-5183

Ralph Hotte Contracting Edith Creek, Km 1782.5 lhs PROJECT NO: 552-202101-0905-0661-3

CAT Excavator 315C Coordinates: Z07V N6851501.9m E549143.1m ELEVATION: 736.3m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy	Termination Depth: 4m
COMPILED BY: M. Jubinville	Complete: 6/28/2015
REVIEWED BY: R. Stilwell	Pit #: 115 F-03 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5184				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851379.6m E549017.3m		ELEVATION: 745.7m				
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)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 45%;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> <p>0 20 40 60 80 100</p> </div> </div>		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
745.7				96	ML		SANDY SILT -Brown, frozen	
745.0				97	SP		POORLY GRADED SAND -White	1
744.0				98	SM		SILTY SAND -Brown	2
743.0				99	GW		WELL-GRADED GRAVEL with SAND -Brown, loose, damp -5-10% Cobbles	3
742.0							END of HOLE -Target depth reached	4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5185				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6851271m E548915.2m		ELEVATION: 753m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
752	45	85	SM	100			SILTY SAND -White, frozen	1
751	45	85	GW	101			WELL-GRADED GRAVEL with SAND -Brown, damp, loose -10-15% Cobbles	2
750	45	85	SP	102			POORLY GRADED SAND with GRAVEL -Light brown, damp, loose -5-10% Cobbles	3
749							END of HOLE -Target depth reached	4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5186					
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3					
CAT Excavator 315C		Coordinates: Z07V N6851167.5m E548781.5m		ELEVATION: 758.4m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE							
ELEV. (m)	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> </div> <div style="text-align: center;"> <p>PLASTIC</p> <p>M.C</p> <p>LIQUID</p> </div> </div>		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)	
	<div style="display: flex; justify-content: space-between;"> <div style="width: 50%;">0 20 40 60 80 100</div> <div style="width: 50%;">0 20 40 60 80 100</div> </div>								
758	●		■	★	◆	103	SM	SILTY SAND -Brown, frozen	
757	●		■	★	◆	104	SM	-White, loose, damp	1
757	●		■	★	◆	105	SM	SILTY SAND with GRAVEL -Brown	2
756									
755	●		■	★	◆	106	GW	WELL-GRADED GRAVEL with SAND -Brown, loose, damp -10-15% Cobbles	3
754								END of HOLE -Target depth reached	4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5187									
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3									
CAT Excavator 315C		Coordinates: Z07V N6850719.7m E548545.2m		ELEVATION: 764.2m									
SAMPLE TYPE		UNDISTURBED		DCPT		AUGER		BULK		SPT		CORE	
ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100	★ Percent Fines★		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION		Depth (m)			
		◆ Percent Sand◆	■ Percent Gravel■										
764		★	◆		107	GP		POORLY GRADED GRAVEL with SAND -Brown -10-15% Cobbles, odd boulder		1			
763								-Lots of boulders					
762		★	◆		108	GP				2			
761		★	◆		109	GW		WELL-GRADED GRAVEL with SAND -20-25% Cobbles, lots of boulders		3			
760								END of HOLE -Target depth reached		4			



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5188			
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3			
CAT Excavator 315C		Coordinates: Z07V N6850593.9m E548447.6m		ELEVATION: 769.4m			
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)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> </div> <div style="width: 45%;"> <p>Sample Type</p> <p>Sample #</p> </div> </div>		SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)	
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 45%;"> <p>0 20 40 60 80 100</p> </div> </div>						
769	★	◆	■	GP	110	POORLY GRADED GRAVEL with SAND -Brown, damp, loose -5-10% Cobbles	1
768	★	◆	■	GP	111	-10-15% Cobbles, odd boulder	2
767							
766	★	◆	■	GW	112	-WELL-GRADED GRAVEL with SAND -More boulders	3
765						END of HOLE -Target depth reached	4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5189				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6850506.7m E548307m		ELEVATION: 771.7m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
771	★	◆	■	GP	113		POORLY GRADED GRAVEL with SAND -Brown, damp, loose -25-30% Cobbles, lots of boulders	1
770	★	◆	■	GW	114		WELL-GRADED GRAVEL with SAND -Loose to compact	2
769							-More cobbles, less boulders	3
768							END of HOLE -Target depth reached	4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5190				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6850365m E548174.2m		ELEVATION: 775.7m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
775.7		★ 20 ◆ 40 ■ 60	AUGER	115	GM		SILTY GRAVEL with SAND -Brown, very dry, loose -5-10% Cobbles	
775.0		★ 20 ◆ 40 ■ 60	AUGER	116	GW		WELL-GRADED GRAVEL with SAND -Dry -15-20% Cobbles, odd boulder	1
774.0								2
773.0								3
772.0		★ 20 ◆ 40 ■ 60	AUGER	117	GP		POORLY GRADED GRAVEL with SAND -Damp -More boulders	
							END of HOLE -Target depth reached	4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5191				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6850269m E548021m		ELEVATION: 788.3m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
788				118	SM		SILTY SAND with GRAVEL -Brown, dry, loose -odd rock	
787				119	SM		SILTY SAND -White, frozen	1
786				120	GP-GM		POORLY GRADED GRAVEL with SILT and SAND -Brown, damp, loose -5-10% Cobbles	2
785								3
784							END of HOLE -Target depth reached	4




SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5192				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6850158.2m E547859.4m		ELEVATION: 795.1m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 45%;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> <p>0 20 40 60 80 100</p> </div> </div>		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
795				121	SM	SILTY SAND with GRAVEL -Greyish brown, dry, loose		
794				122	SM	SILTY SAND -White	1	
793				123	ML	SANDY SILT -Brown, damp, loose	2	
792				124	GW-GM	WELL-GRADED GRAVEL with SILT and SAND -Brown, damp, loose -10-15% Cobbles, some boulders	3	
791						END of HOLE -Target depth reached	4	




SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5193				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6850050.6m E547677.4m		ELEVATION: 799.5m				
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)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 45%;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> <p>0 20 40 60 80 100</p> </div> </div>		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
799	● ■ ★ ◆		SM	125		SILTY SAND -Brown, loose, dry	1	
798	● ■ ★ ◆		SM	126		-White, damp	2	
797	● ■ ★ ◆		GP-GM	127		POORLY GRADED GRAVEL with SILT and SAND -Brown -10-15% Cobbles, some boulders	3	
796						END of HOLE -Target depth reached	4	



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5194	
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3	
CAT Excavator 315C		Coordinates: Z07V N6850042m E547399.9m		ELEVATION: 808.3m	
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input checked="" 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 ■		SOIL DESCRIPTION
	0 20 40 60 80 100		Sample Type Sample # SOIL SYMBOL DCPT/SPT Blows/30cm		
808	● ■ ★ ◆		128 SM		SILTY SAND -White, frozen
807	>> ■ ◆ ★		129 ML		SILT with SAND -Brown, frozen
806					END of HOLE -Refusal, frozen
805					
804					
 Highways and Public Works Transportation Engineering Branch		LOGGED BY: G. Kennedy		Termination Depth: 1.8m	
		COMPILED BY: M. Jubinville		Complete: 6/29/2015	
		REVIEWED BY: R. Stilwell		Pit #: 115 F-03	

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5195				
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3				
CAT Excavator 315C		Coordinates: Z07V N6850162.8m E547398.2m		ELEVATION: 802.3m				
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)	PLASTIC M.C LIQUID 0 20 40 60 80 100		★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	0 20 40 60 80 100		0 20 40 60 80 100					
802	● ■ ★ ◆		■ ★ ◆		SM	130	SILTY SAND -White, frozen -Hard digging	
801							END of HOLE -Refusal, frozen	1
800								2
799								3
798								4



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5196					
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3					
CAT Excavator 315C		Coordinates: Z07V N6849923m E547449.7m		ELEVATION: 802.4m					
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)	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)
		0 20 40 60 80 100							
802					131	SM		SILTY SAND -White, frozen	
					132	SP-SM		POORLY GRADED SAND with SILT -Very hard digging	
801								END of HOLE -Refusal, frozen	1
800									2
799									3
798									4
		Highways and Public Works Transportation Engineering Branch				LOGGED BY: G. Kennedy		Termination Depth: 1m	
						COMPILED BY: M. Jubinville		Complete: 6/29/2015	
						REVIEWED BY: R. Stilwell		Pit #: 115 F-03 Page 1 of 1	

SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5197	
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs		PROJECT NO: 552-202101-0905-0661-3	
CAT Excavator 315C		Coordinates: Z07V N6851990.5m E550030.2m		ELEVATION: 694.7m	
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE			
ELEV. (m)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> </div> <div style="width: 45%;"> <p>Sample Type</p> <p>Sample #</p> <p>SOIL SYMBOL</p> <p>DCPT/SPT Blows/30cm</p> </div> </div>		SOIL DESCRIPTION		Depth (m)
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 45%;"> <p>0 20 40 60 80 100</p> </div> </div>				
694			SILTY SAND -Brown, dry, loose		1
693					
692			POORLY GRADED GRAVEL with SAND -Brown, damp, loose -5-10% Cobbles		2
691			POORLY GRADED SAND with GRAVEL -White, damp, loose -5-10% Cobbles		3
					4
			END of HOLE -Target depth reached		

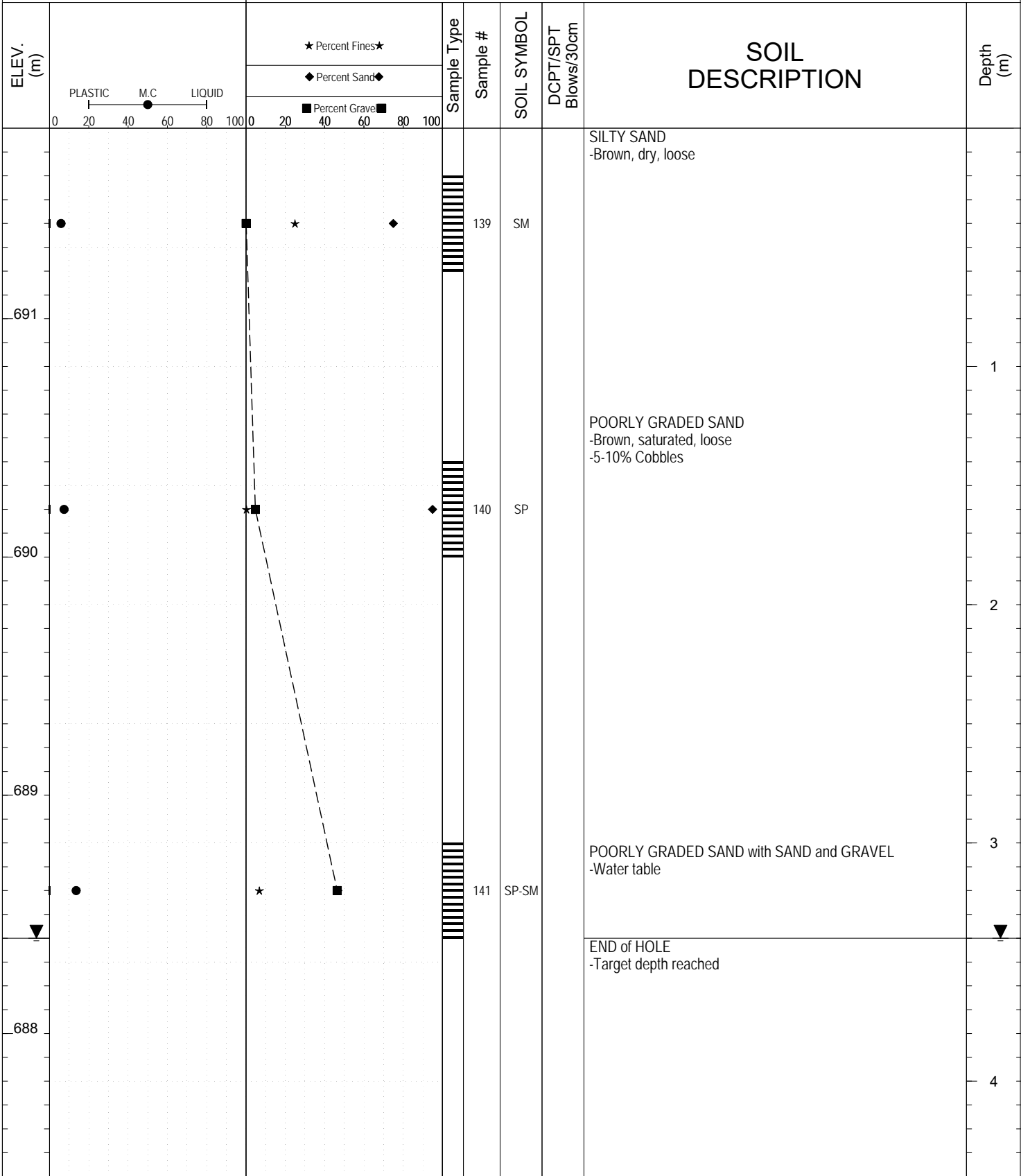


SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway		SOURCE/TP#: 859-5198									
Ralph Hotte Contracting		Edith Creek, Km 1782.5 lhs		PROJECT NO: 552-202101-0905-0661-3									
CAT Excavator 315C		Coordinates: Z07V N6852045.4m E550088.1m		ELEVATION: 695.2m									
SAMPLE TYPE		UNDISTURBED		DCPT		AUGER		BULK		SPT		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)		
	0 20 40 60 80 100		0 20 40 60 80 100										
695			★	◆	■	136	GP-GM		POORLY GRADED GRAVEL with SILT and SAND -Brown, dry, loose -5-10% Cobbles		1		
694													
693			★	◆	■	137	GP		POORLY GRADED GRAVEL with SAND -Damp -10-15% Cobbles		2		
692			★	◆	■	138	GW		WELL-GRADED GRAVEL with SAND		3		
691									END of HOLE -Target depth reached		4		



SUBSURFACE EXPLORATION AND TEST REPORT		Alaska Highway	SOURCE/TP#: 859-5199
Ralph Hotte Contracting		Edith Creek, Km 1782.5 Ihs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C		Coordinates: Z07V N6852103.6m E550173.5m	ELEVATION: 691.8m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy	Termination Depth: 3.4m
COMPILED BY: M. Jubinville	Complete: 6/30/2015
REVIEWED BY: R. Stilwell	Pit #: 115 F-03 Page 1 of 1

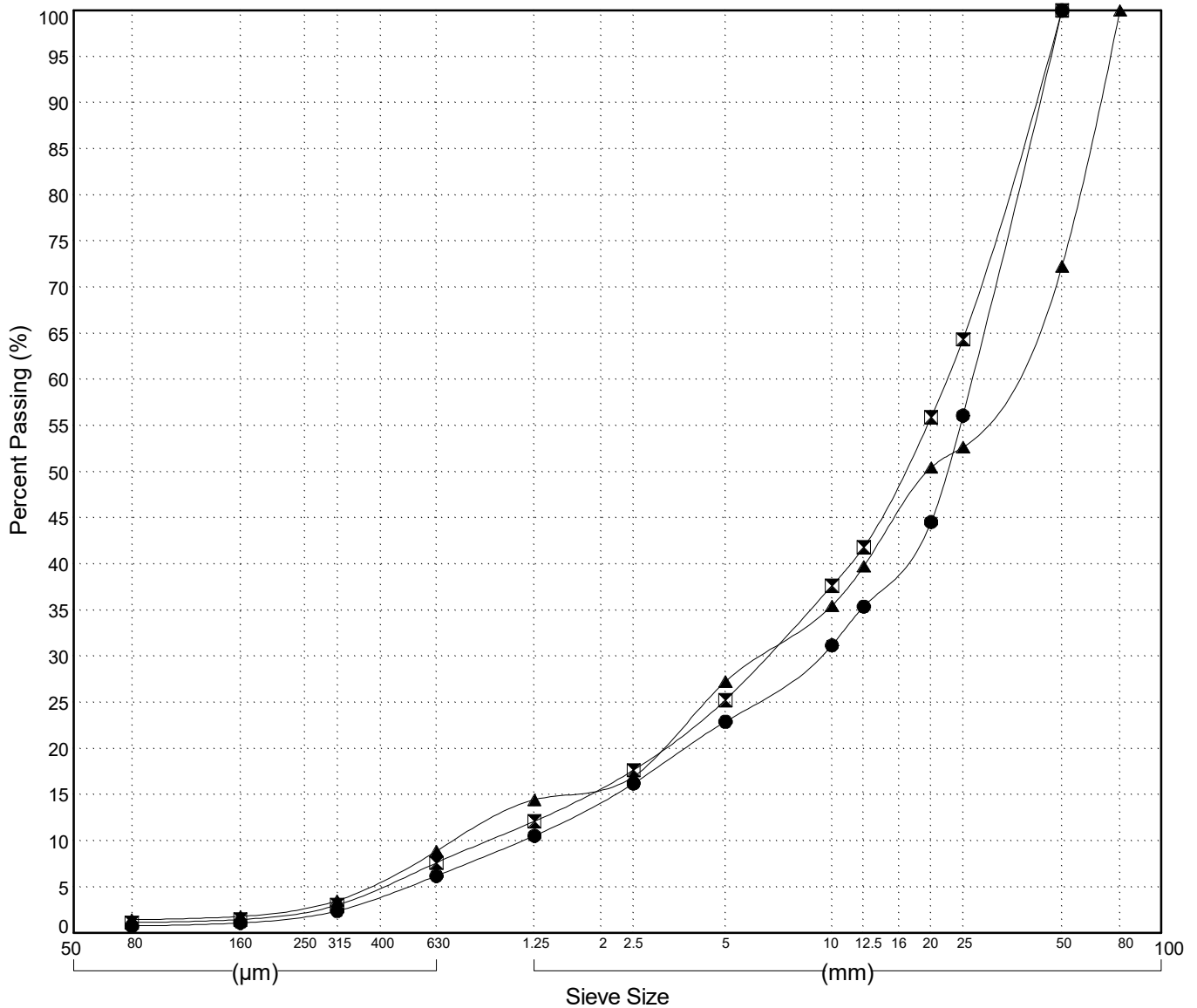
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5152
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6852041.9m E549771.2m	ELEVATION: 746.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 01	02	0.2 to 0.6	WELL-GRADED GRAVEL with SAND(GW)	2.0	NP	NP	NP	2.6	23.2
☒ 02	03	1.4 to 1.8	WELL-GRADED GRAVEL with SAND(GW)	2.7	NP	NP	NP	2.0	24.6
▲ 03	04	3.2 to 3.6	WELL-GRADED GRAVEL with SAND(GW)	2.4	NP	NP	NP	1.6	44.9

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
● 01	02	100.0	100.0	100.0	56.1	44.5	35.4	31.2	22.9	16.2	10.5	6.2	2.4	1.1	0.8	77.1	22.1	0.8
☒ 02	03	100.0	100.0	100.0	64.4	55.9	41.8	37.6	25.3	17.7	12.1	7.6	3.0	1.5	1.1	74.7	24.1	1.1
▲ 03	04	100.0	100.0	72.3	52.7	50.5	39.7	35.5	27.3	17.0	14.5	8.9	3.5	1.8	1.5	72.7	25.8	1.5

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



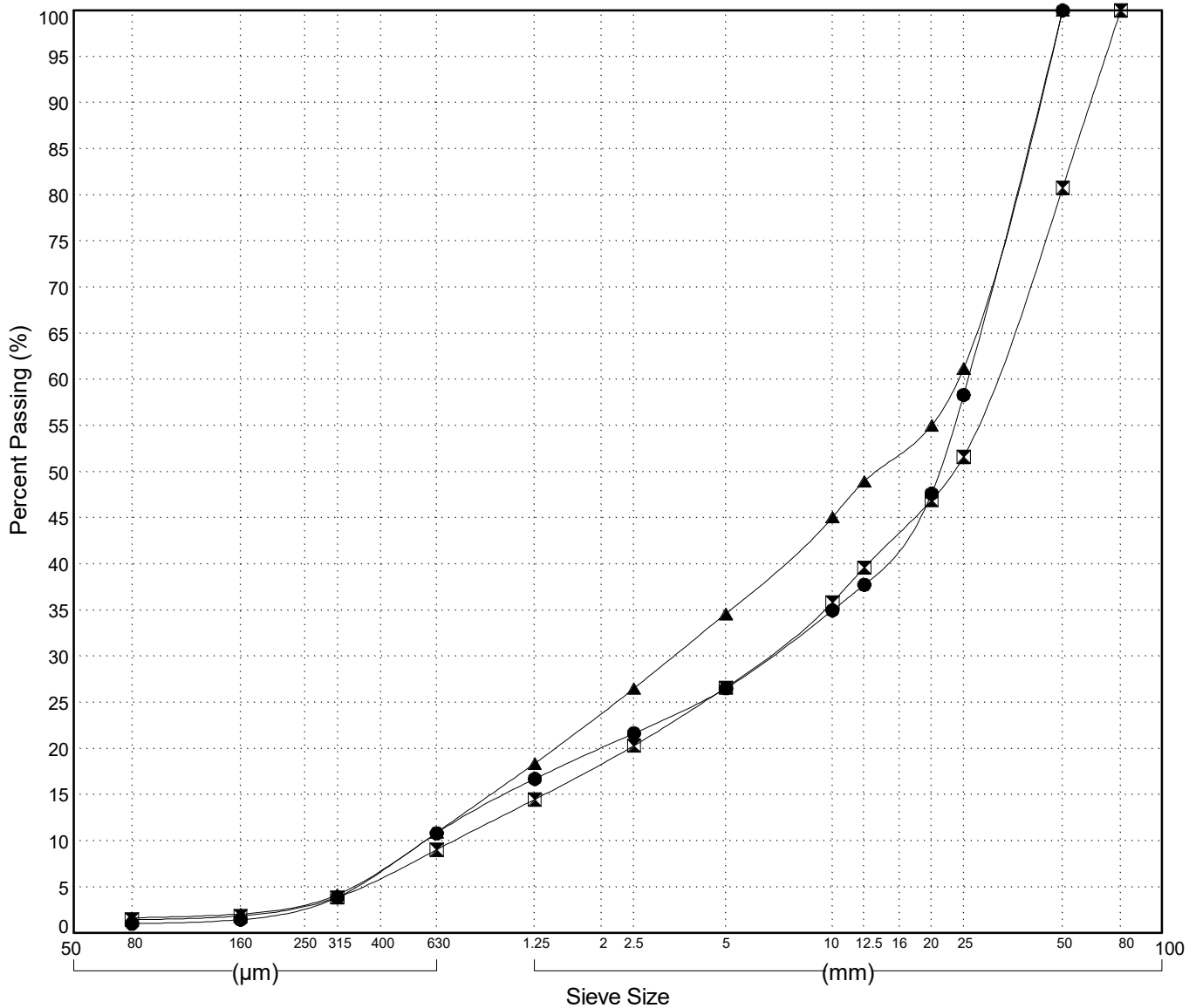
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5153
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851983.7m E549745.1m	ELEVATION: 750m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 04	05	0.4 to 1.0	WELL-GRADED GRAVEL with SAND(GW)	2.9	NP	NP	NP	2.8	44.3
☒ 05	06	2.2 to 2.8	WELL-GRADED GRAVEL with SAND(GW)	2.6	NP	NP	NP	1.8	42.9
▲ 06	07	3.4 to 4.0	POORLY GRADED GRAVEL with SAND(GP)	4.3	NP	NP	NP	0.8	41.7

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
● 04	05	100.0	100.0	100.0	58.3	47.6	37.7	35.0	26.5	21.7	16.7	10.8	3.9	1.5	1.0	73.5	25.5	1.0
☒ 05	06	100.0	100.0	80.8	51.6	46.9	39.6	35.9	26.6	20.3	14.5	9.0	3.9	1.9	1.5	73.4	25.1	1.5
▲ 06	07	100.0	100.0	100.0	61.2	55.0	49.0	45.1	34.6	26.5	18.4	10.9	4.2	2.1	1.7	65.4	32.9	1.7

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

Pit # 115 F-03
Complete: 6/24/2015

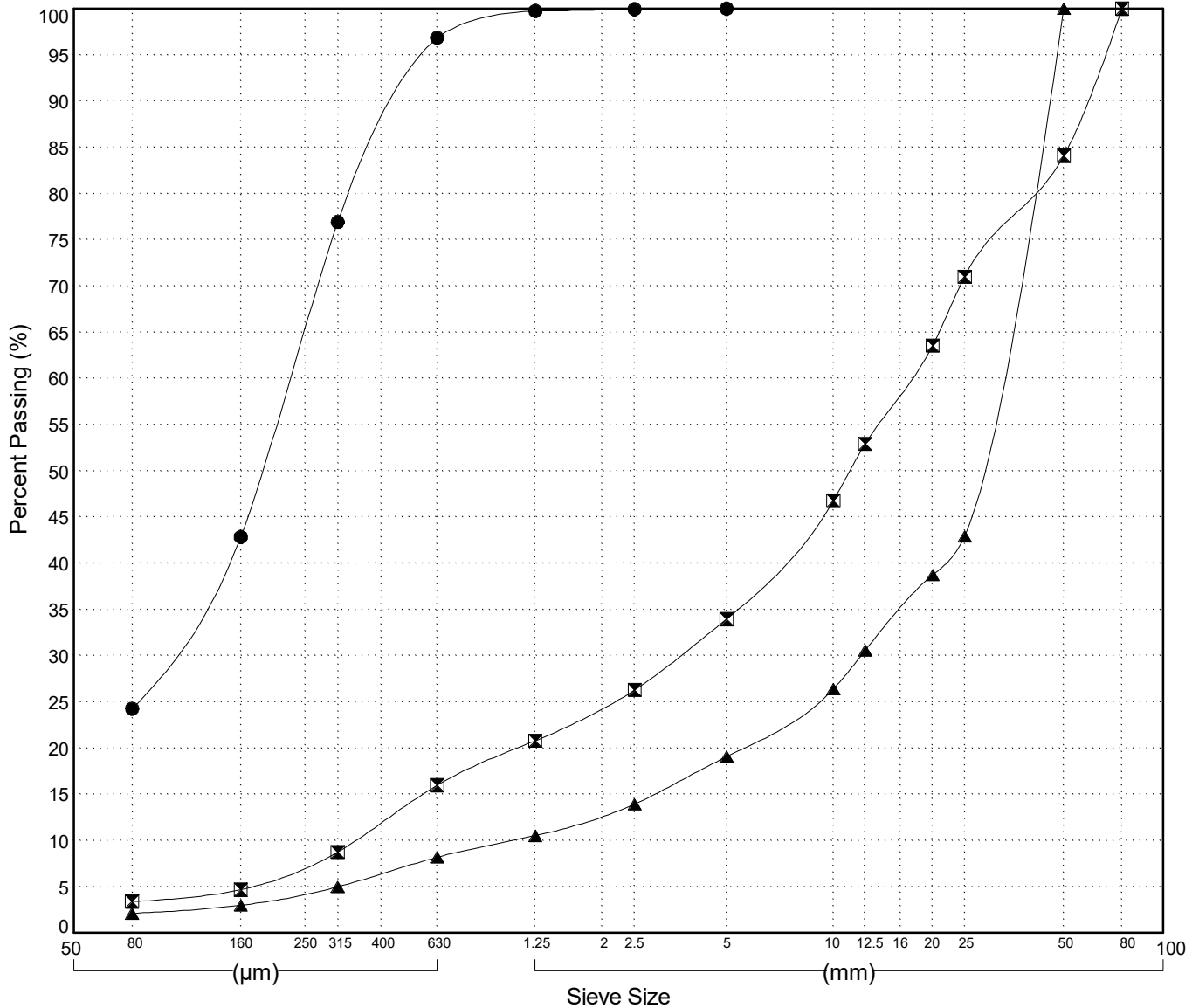
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5154
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851949m E549746.8m	ELEVATION: 751.7m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 07	08	0.2 to 0.6	SILTY SAND(SM)	15.4	NP	NP	NP		
☒ 08	09	1.0 to 1.6	WELL-GRADED GRAVEL with SAND(GW)	3.4	NP	NP	NP	1.9	48.2
▲ 09	10	3.2 to 3.6	POORLY GRADED GRAVEL with SAND(GP)	3.0	NP	NP	NP	4.5	28.7

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
● 07	08	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	96.8	76.9	42.9	24.3	0.0	75.7	24.3	
☒ 08	09	100.0	100.0	84.1	71.0	63.6	52.9	46.8	34.0	26.3	20.8	16.0	8.8	4.7	3.4	66.0	30.6	3.4	
▲ 09	10	100.0	100.0	100.0	42.9	38.7	30.6	26.4	19.1	14.0	10.5	8.2	5.0	3.0	2.1	80.9	17.0	2.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

Pit # 115 F-03
Complete: 6/24/2015

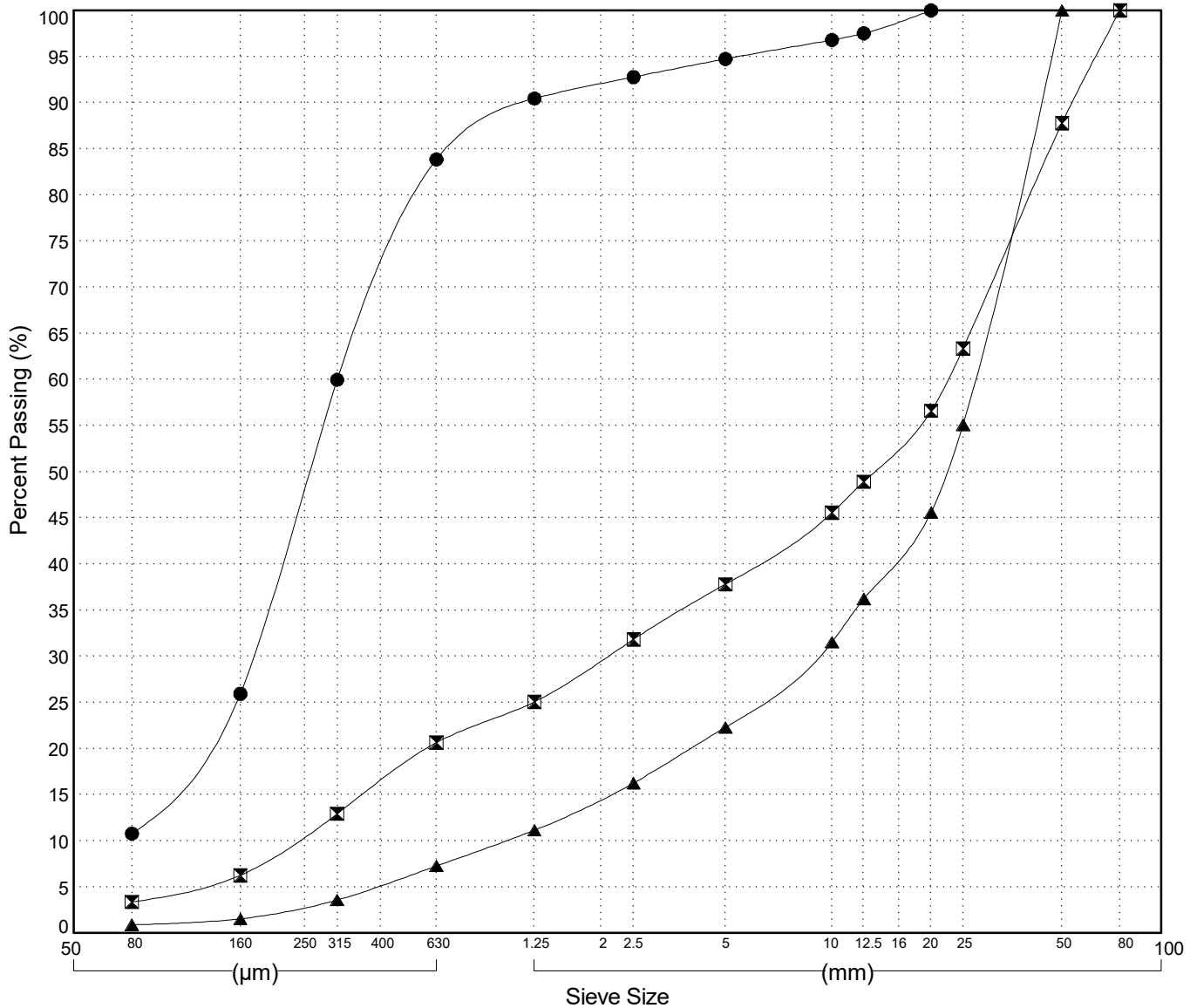
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5155
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851920.9m E549687.3m	ELEVATION: 765.1m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 10	11	0.2 to 0.6	POORLY GRADED SAND with SILT(SP-SM)	20.9	NP	NP	NP	1.3	4.4
☒ 11	12	1.4 to 2.0	POORLY GRADED GRAVEL with SAND(GP)	3.3	NP	NP	NP	0.8	95.7
▲ 12	13	3.2 to 3.6	WELL-GRADED GRAVEL with SAND(GW)	1.8	NP	NP	NP	2.8	26.4

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
● 10	11	100.0	100.0	100.0	100.0	100.0	97.5	96.8	94.7	92.8	90.5	83.9	60.0	25.9	10.8	5.3	84.0	10.8	
☒ 11	12	100.0	100.0	87.8	63.3	56.6	48.9	45.6	37.8	31.8	25.1	20.6	12.9	6.3	3.4	62.2	34.4	3.4	
▲ 12	13	100.0	100.0	100.0	55.1	45.6	36.2	31.5	22.3	16.3	11.1	7.3	3.6	1.6	0.9	77.7	21.4	0.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



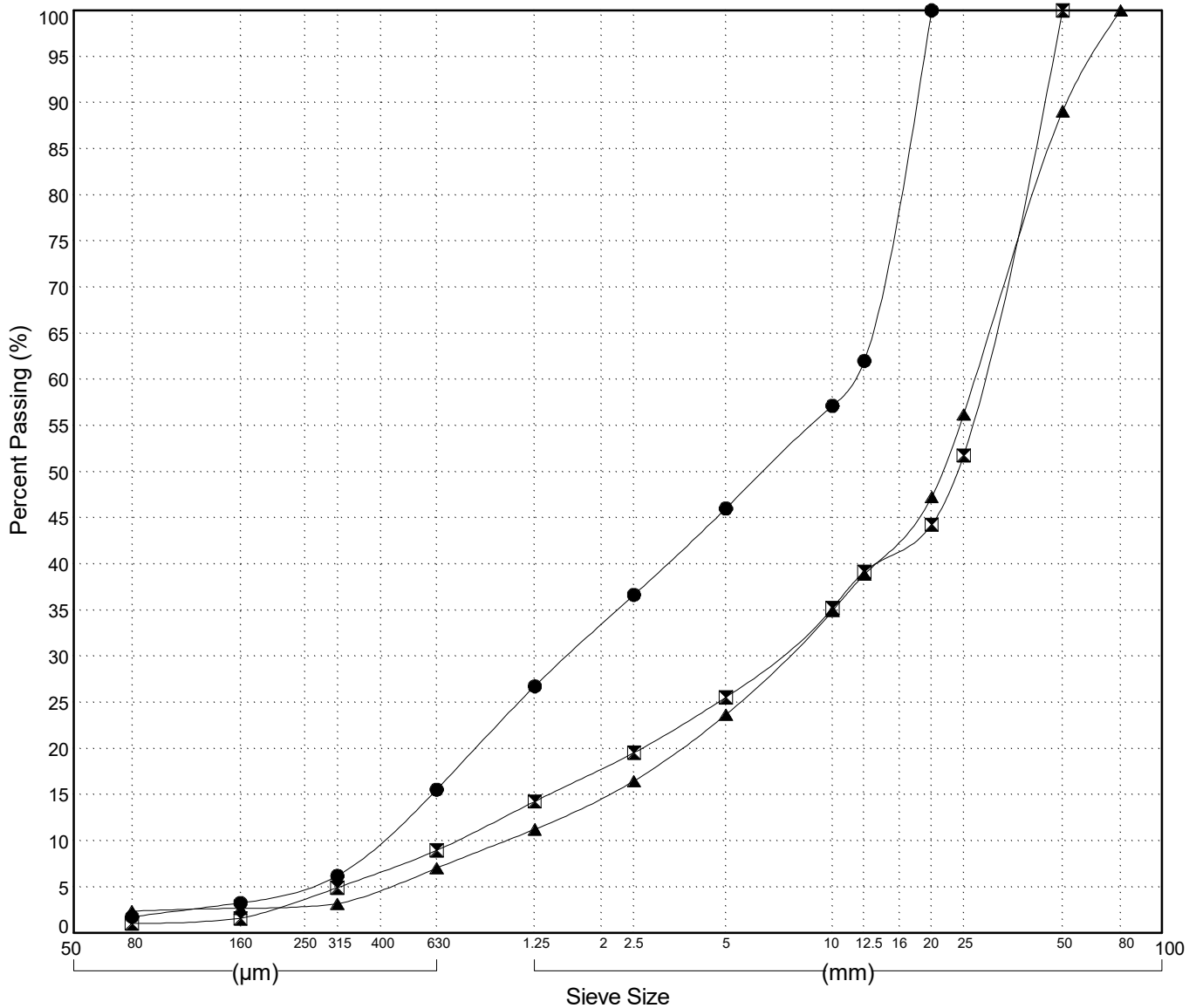
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5156
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851860.3m E549607.2m	ELEVATION: 770.4m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 13	14	0.2 to 0.8	POORLY GRADED GRAVEL with SAND(GP)	5.2	NP	NP	NP	0.5	27.3
☒ 14	15	1.4 to 1.8	WELL-GRADED GRAVEL with SAND(GW)	2.6	NP	NP	NP	2.2	39.1
▲ 15	16	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	2.2	NP	NP	NP	1.9	26.5

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
● 13	14	100.0	100.0	100.0	100.0	100.0	62.0	57.1	46.0	36.7	26.7	15.6	6.2	3.3	1.8	54.0	44.2	1.8
☒ 14	15	100.0	100.0	100.0	51.8	44.3	39.2	35.2	25.6	19.5	14.3	9.0	4.9	1.6	1.0	74.4	24.5	1.0
▲ 15	16	100.0	100.0	89.1	56.2	47.3	38.9	34.9	23.7	16.5	11.2	7.0	3.2	2.7	2.4	76.3	21.3	2.4

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



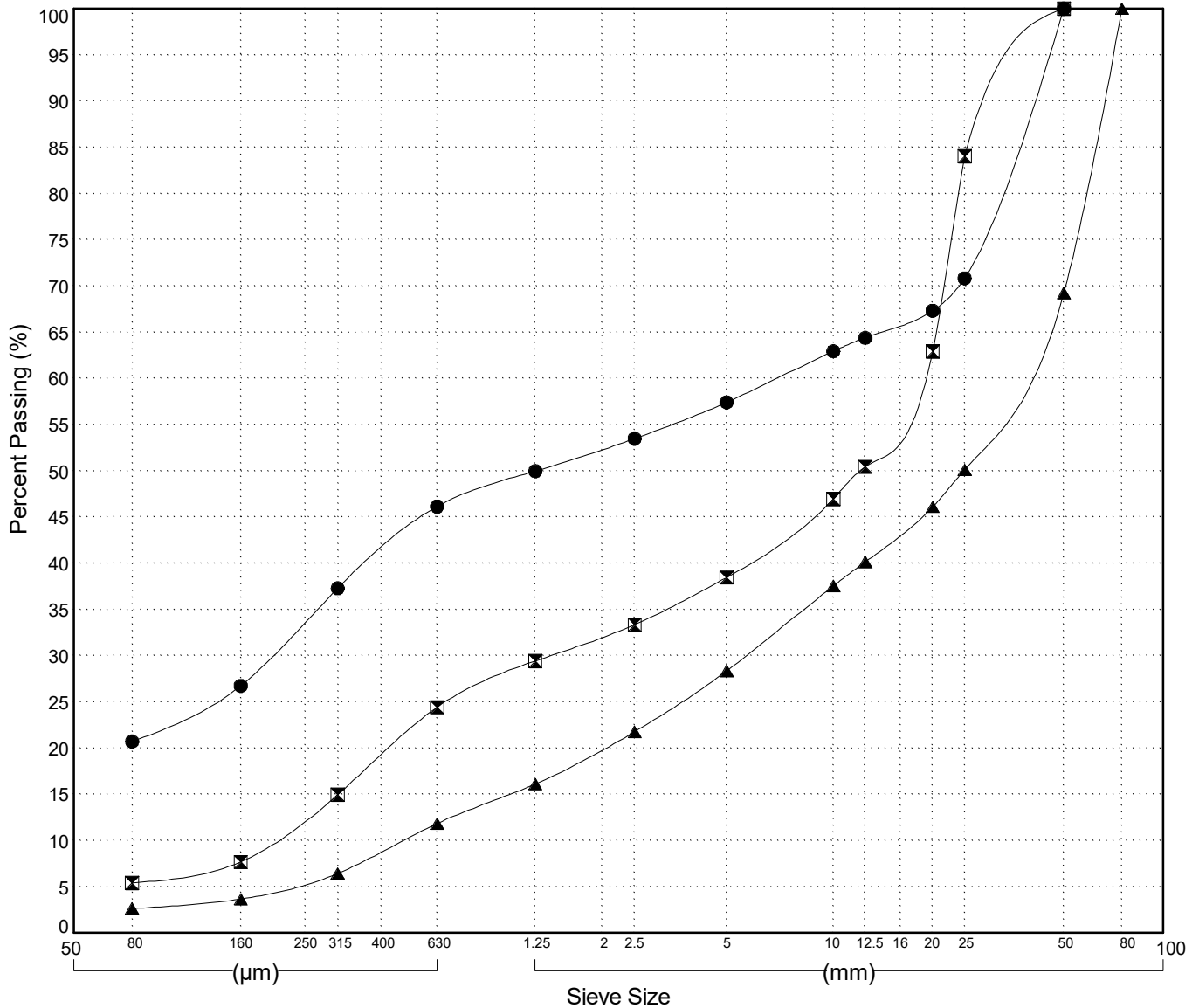
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5157
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851757.1m E549618.7m	ELEVATION: 779.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
●	17	0.2 to 0.6	SILTY GRAVEL with SAND(GM)	13.6	NP	NP	NP		
☒	17	1.2 to 1.6	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	4.8	NP	NP	NP	0.5	90.2
▲	18	2.6 to 3.0	WELL-GRADED GRAVEL with SAND(GW)	2.8	NP	NP	NP	1.7	71.9

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
●	17	100.0	100.0	100.0	100.0	70.8	67.3	64.4	62.9	57.4	53.5	50.0	46.1	37.3	26.7	20.7	42.6	36.7	20.7
☒	17	100.0	100.0	100.0	84.0	62.9	50.4	47.0	38.5	33.4	29.4	24.4	15.0	7.7	5.4	61.5	33.0	5.4	
▲	18	100.0	100.0	69.2	50.1	46.1	40.1	37.5	28.3	21.8	16.1	11.8	6.4	3.7	2.6	71.7	25.7	2.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

Pit # 115 F-03
Complete: 6/24/2015

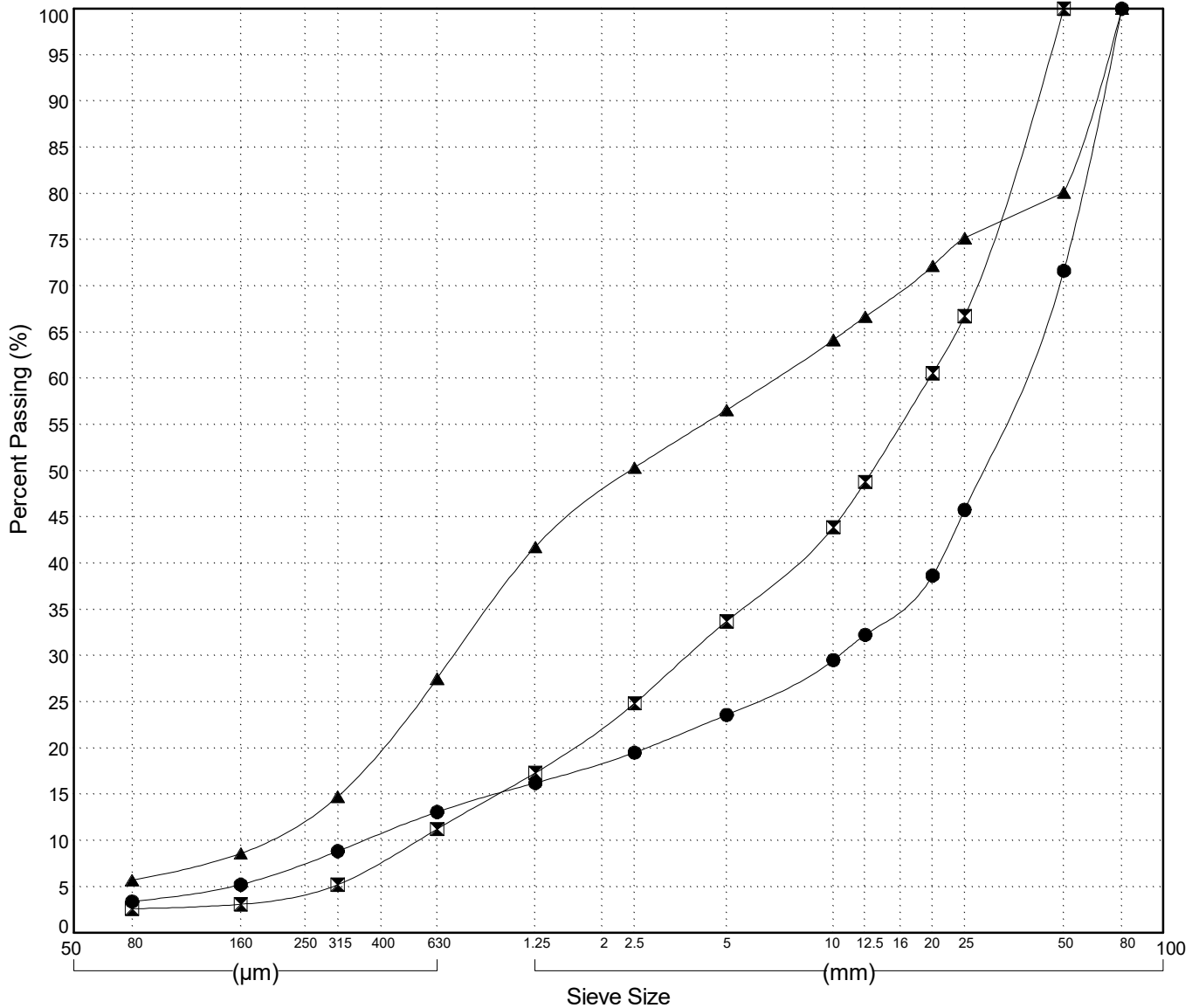
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5158
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851663.6m E549622.2m	ELEVATION: 781.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 19	20	0.2 to 0.8	POORLY GRADED GRAVEL with SAND(GP)	2.8	NP	NP	NP	7.8	96.3
☒ 20	21	1.6 to 2.0	WELL-GRADED GRAVEL with SAND(GW)	4.2	NP	NP	NP	1.2	35.8
▲ 21	22	3.4 to 3.8	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	6.6	NP	NP	NP	0.4	35.6

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
● 19	20	100.0	100.0	71.6	45.8	38.7	32.3	29.5	23.6	19.5	16.2	13.1	8.9	5.2	3.4	76.4	20.2	3.4	
☒ 20	21	100.0	100.0	100.0	66.7	60.6	48.8	43.9	33.7	24.8	17.3	11.2	5.2	3.1	2.6	66.3	31.1	2.6	
▲ 21	22	100.0	100.0	80.1	75.2	72.2	66.7	64.2	56.6	50.4	41.8	27.5	14.8	8.6	5.7	43.4	50.9	5.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



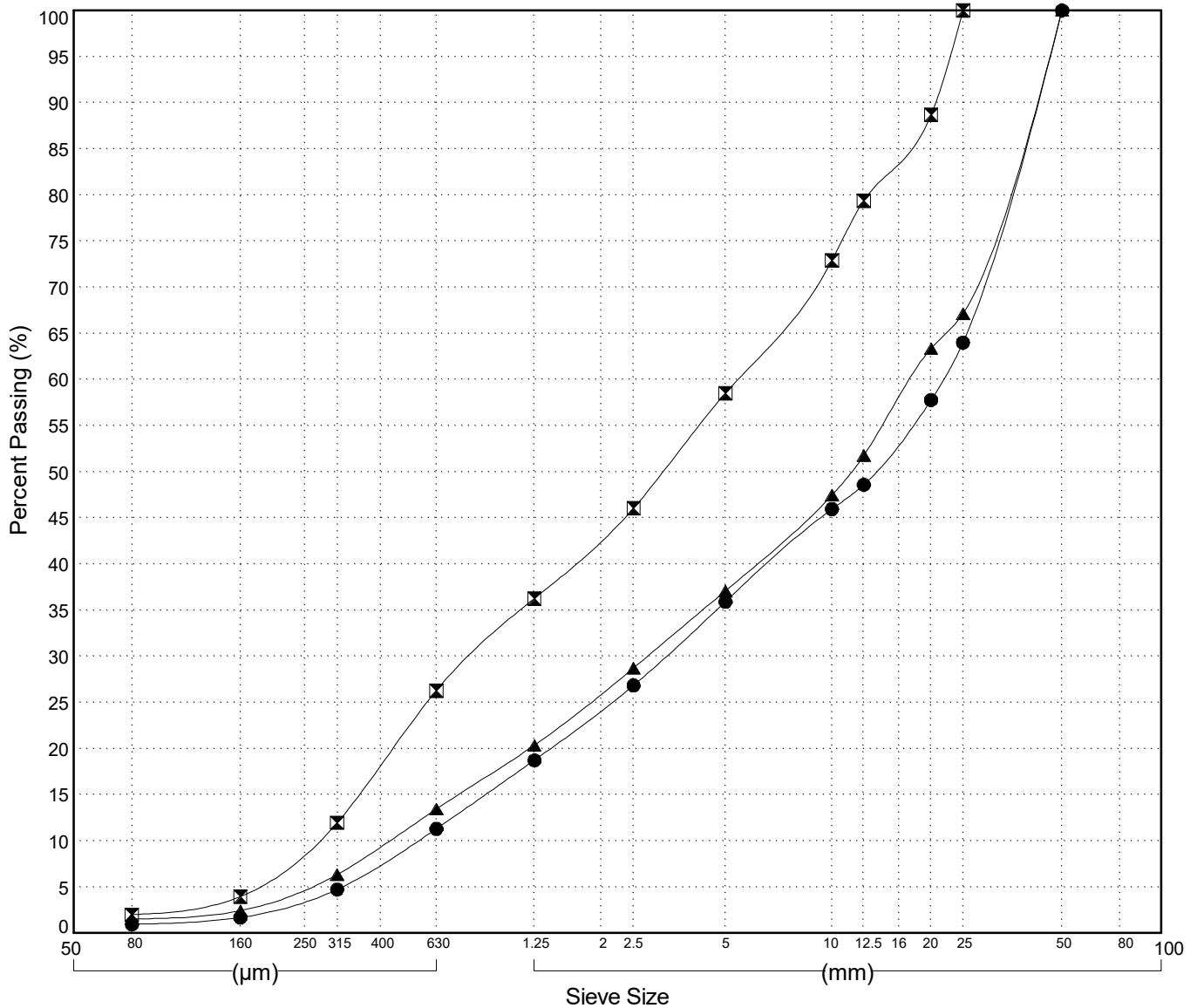
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5159
Ralph Hotte Contracting	Km 1782.5 lns	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851587.1m E549538.2m	ELEVATION: 779.6m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 22	23	0.2 to 0.6	POORLY GRADED GRAVEL with SAND(GP)	0.9	NP	NP	NP	0.8	39.5
☒ 23	142	1.4 to 1.8	POORLY GRADED SAND with GRAVEL(SP)	2.8	NP	NP	NP	0.5	19.2
▲ 24	24	2.4 to 2.8	POORLY GRADED GRAVEL with SAND(GP)	2.4	NP	NP	NP	1.0	38.8

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
● 22	23	100.0	100.0	100.0	64.0	57.8	48.6	46.0	35.9	26.8	18.7	11.3	4.7	1.7	1.0	64.1	35.0	1.0
☒ 23	142	100.0	100.0	100.0	100.0	88.7	79.4	72.9	58.5	46.0	36.3	26.3	12.0	4.0	2.0	41.5	56.5	2.0
▲ 24	24	100.0	100.0	100.0	67.1	63.4	51.8	47.5	37.1	28.7	20.4	13.5	6.3	2.4	1.5	62.9	35.6	1.5

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



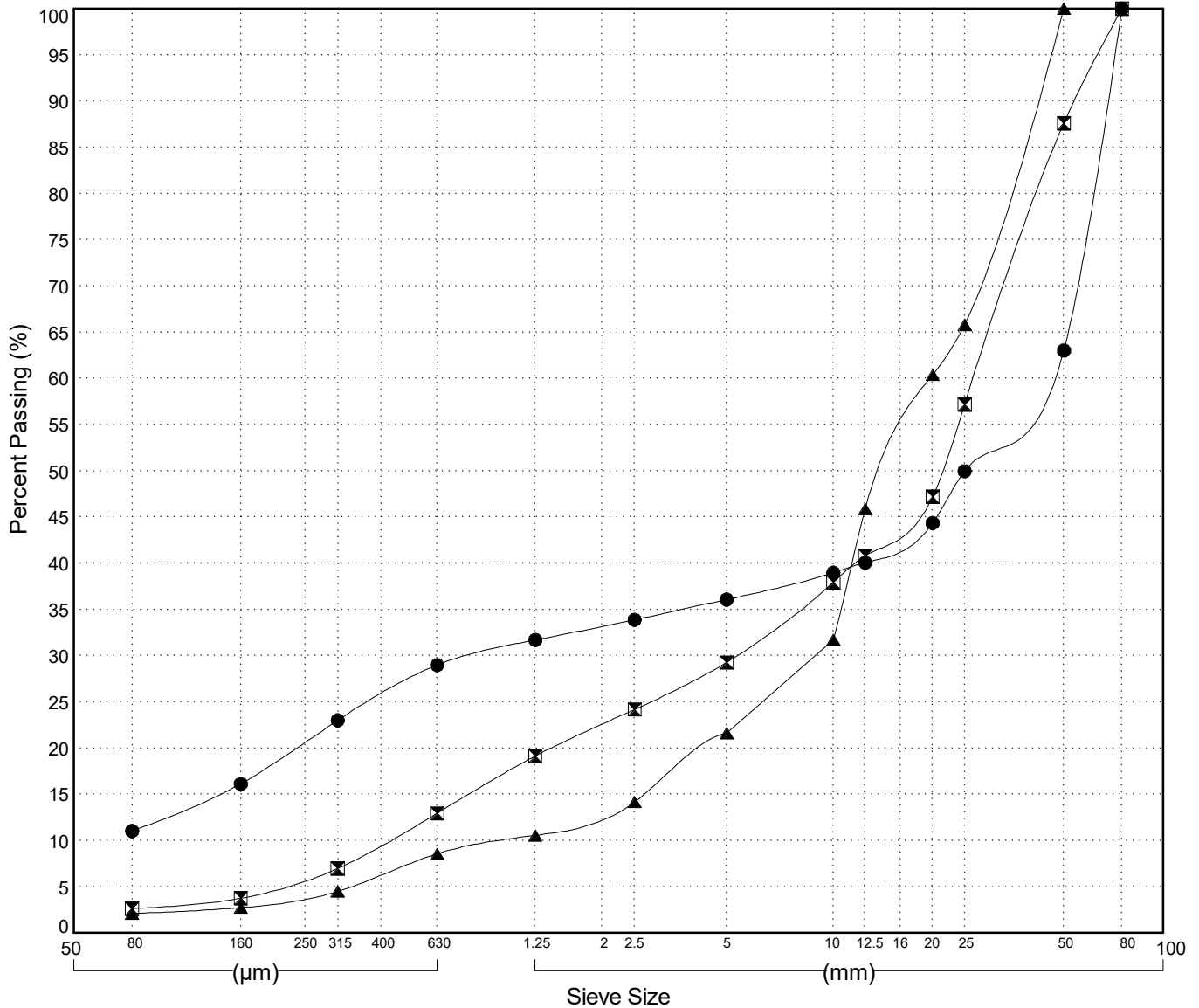
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5160
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851484.3m E549443.3m	ELEVATION: 781.1m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 25	25	0.2 to 0.6	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	3.2	NP	NP	NP	0.2	662.8
☒ 26	26	1.2 to 1.8	WELL-GRADED GRAVEL with SAND(GW)	1.8	NP	NP	NP	2.1	59.6
▲ 27	27	3.4 to 3.8	POORLY GRADED GRAVEL with SAND(GP)	2.2	NP	NP	NP	3.8	19.2

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
● 25	25	100.0	100.0	63.0	50.0	44.3	40.1	39.0	36.1	33.9	31.7	29.0	23.0	16.1	11.0	63.9	25.0	11.0	
☒ 26	26	100.0	100.0	87.6	57.2	47.2	40.8	37.9	29.3	24.2	19.1	12.9	7.0	3.8	2.6	70.7	26.6	2.6	
▲ 27	27	100.0	100.0	100.0	65.8	60.4	45.9	31.7	21.6	14.2	10.6	8.6	4.5	2.7	2.1	78.4	19.5	2.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



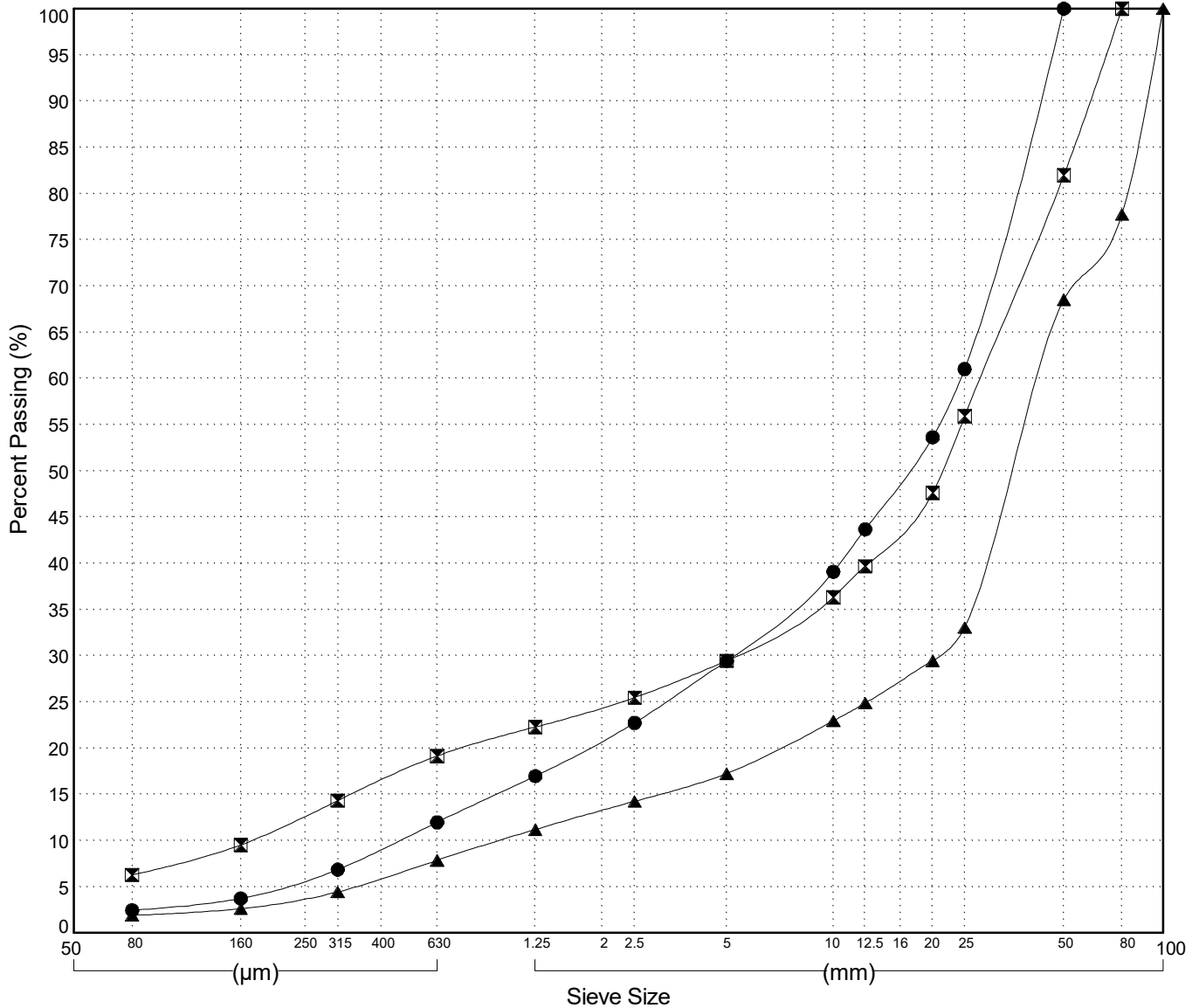
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5161
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851404.8m E549385.8m	ELEVATION: 781.6m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 28	28	0.2 to 0.6	WELL-GRADED GRAVEL with SAND(GW)	2.9	NP	NP	NP	2.1	50.3
☒ 29	29	1.2 to 1.6	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	2.6	NP	NP	NP	5.3	162.9
▲ 30	30	3.4 to 3.8	POORLY GRADED GRAVEL with SAND(GP)	3.0	NP	NP	NP	10.3	43.3

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
● 28	28	100.0	100.0	100.0	100.0	61.0	53.6	43.7	39.1	29.4	22.7	17.0	12.0	6.9	3.7	2.5	70.6	27.0	2.5
☒ 29	29	100.0	100.0	82.0	55.9	47.6	39.7	36.3	29.4	25.5	22.3	19.1	14.3	9.5	6.3	70.6	23.2	6.3	
▲ 30	30	100.0	77.7	68.5	33.1	29.5	24.9	22.9	17.2	14.2	11.2	7.9	4.4	2.6	1.9	60.5	15.3	1.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



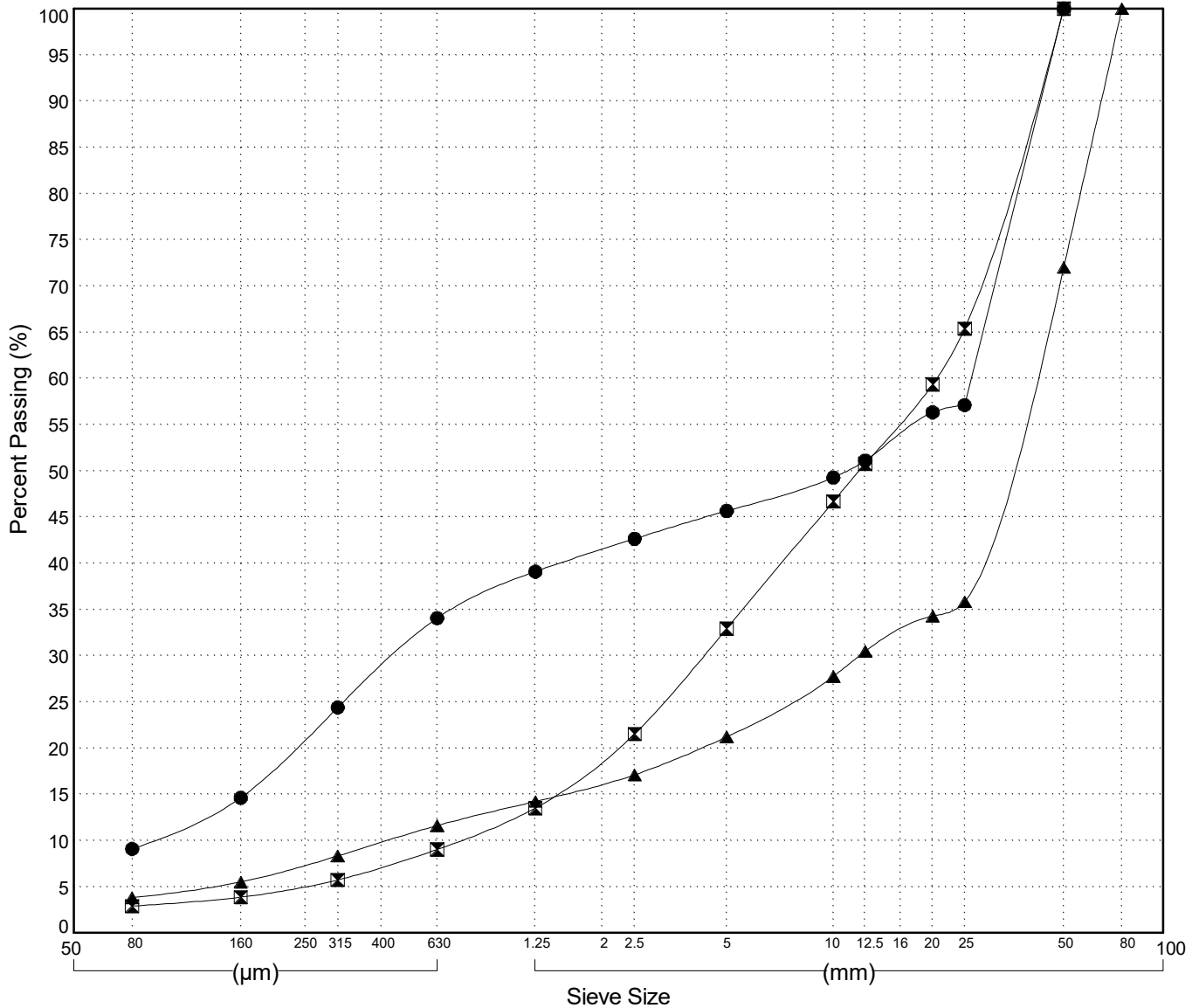
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5162
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851296.2m E549311.6m	ELEVATION: 762.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 31	31	0.2 to 0.6	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	5.5	NP	NP	NP	0.1	308.6
☒ 32	32	2.4 to 2.8	WELL-GRADED GRAVEL with SAND(GW)	3.6	NP	NP	NP	1.1	28.0
▲ 33	33	3.4 to 3.8	POORLY GRADED GRAVEL with SAND(GP)	4.2	NP	NP	NP	8.1	88.8

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
● 31	31	100.0	100.0	100.0	100.0	57.1	56.3	51.1	49.3	45.7	42.6	39.1	34.1	24.4	14.6	9.1	54.3	36.6	9.1
☒ 32	32	100.0	100.0	100.0	65.4	59.3	50.8	46.7	32.9	21.5	13.5	9.0	5.7	3.9	2.9	67.1	30.0	2.9	
▲ 33	33	100.0	100.0	72.0	35.8	34.3	30.5	27.8	21.2	17.1	14.2	11.6	8.3	5.5	3.8	78.8	17.4	3.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



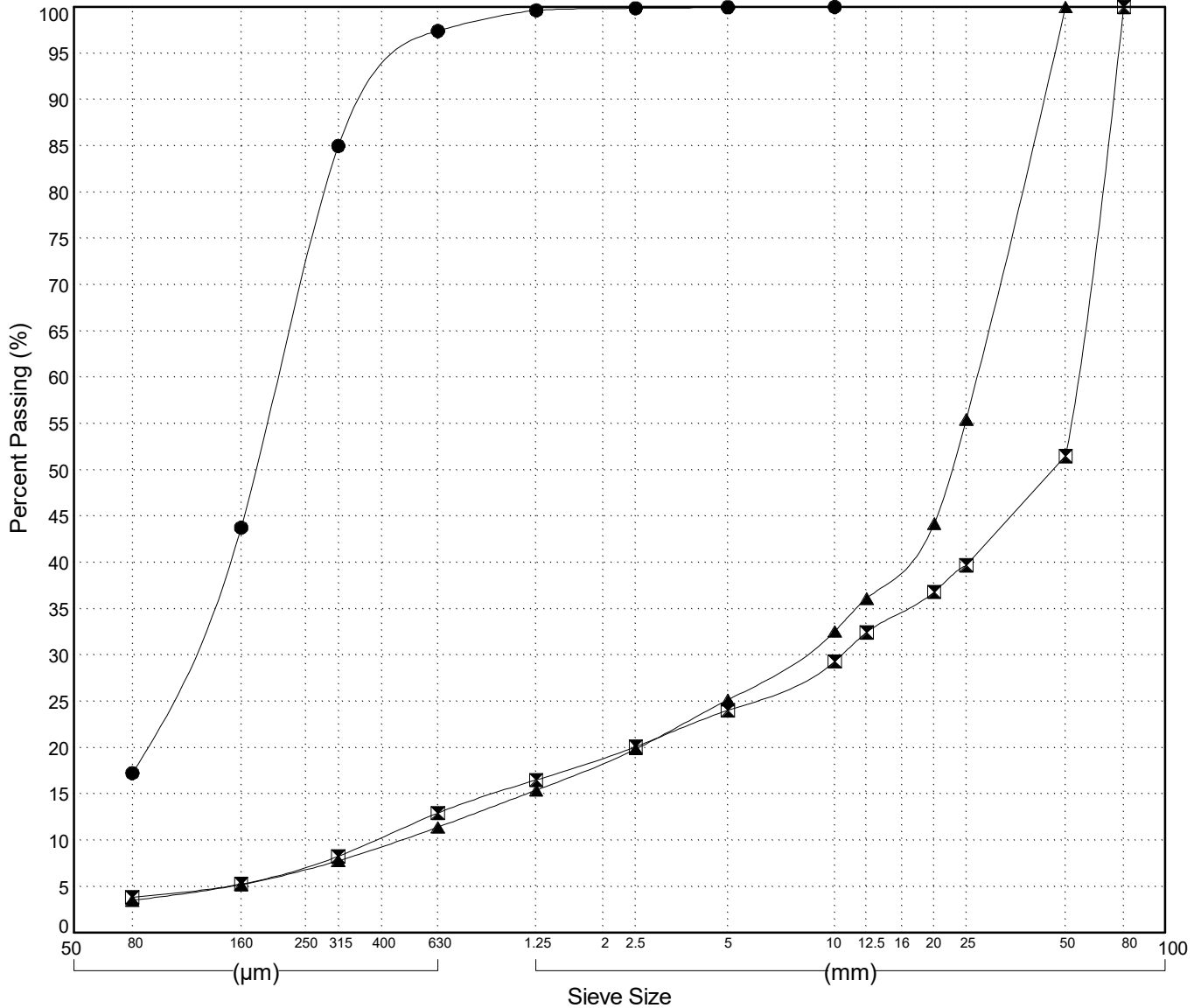
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5163
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851237.6m E549218.6m	ELEVATION: 789.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 34	34	0.2 to 0.6	SILTY SAND(SM)	11.2	NP	NP	NP		
☒ 35	35	1.6 to 2.0	POORLY GRADED GRAVEL with SAND(GP)	4.9	NP	NP	NP	5.0	131.7
▲ 36	36	3.4 to 3.8	POORLY GRADED GRAVEL with SAND(GP)	4.6	NP	NP	NP	4.6	55.9

Field#	Lab#	% PASSING	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	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 34	34	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	97.4	85.0	43.8	17.3	0.0	82.7	17.3		
☒ 35	35	100.0	100.0	51.5	39.7	36.8	32.4	29.3	24.0	20.1	16.5	12.9	8.3	5.3	3.8	76.0	20.2	3.8		
▲ 36	36	100.0	100.0	100.0	55.4	44.2	36.1	32.6	25.2	19.9	15.4	11.4	7.8	5.2	3.5	74.8	21.6	3.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

Pit # 115 F-03
Complete: 6/25/2015

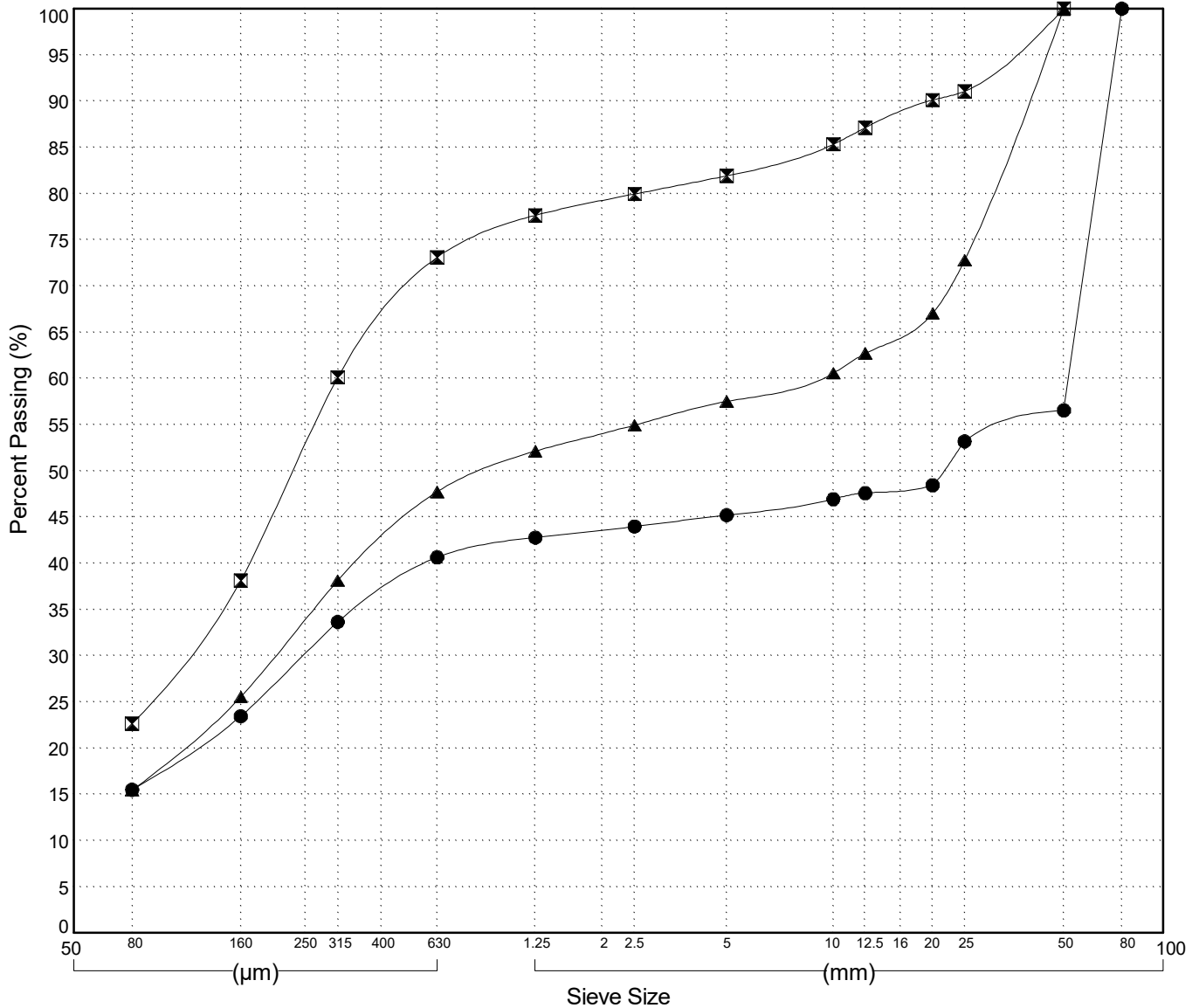
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5164
Ralph Hotte Contracting	Km 1782.5 lns	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851174.1m E549143.5m	ELEVATION: 793.7m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 37	37	0.2 to 0.8	SILTY GRAVEL with SAND(GM)	4.9	NP	NP	NP		
☒ 38	38	2.0 to 2.4	SILTY SAND with GRAVEL(SM)	13.3	NP	NP	NP		
▲ 39	39	3.2 to 3.6	SILTY GRAVEL with SAND(GM)	8.9	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
● 37	37	100.0	100.0	100.0	56.5	53.2	48.4	47.6	46.9	45.2	44.0	42.8	40.6	33.6	23.5	15.5	54.8	29.7	15.5	
☒ 38	38	100.0	100.0	100.0	91.1	90.1	87.1	85.3	81.9	79.9	77.6	73.1	60.1	38.1	22.6		18.1	59.3	22.6	
▲ 39	39	100.0	100.0	100.0	72.8	67.0	62.7	60.6	57.5	54.9	52.1	47.7	38.1	25.5	15.4		42.5	42.1	15.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

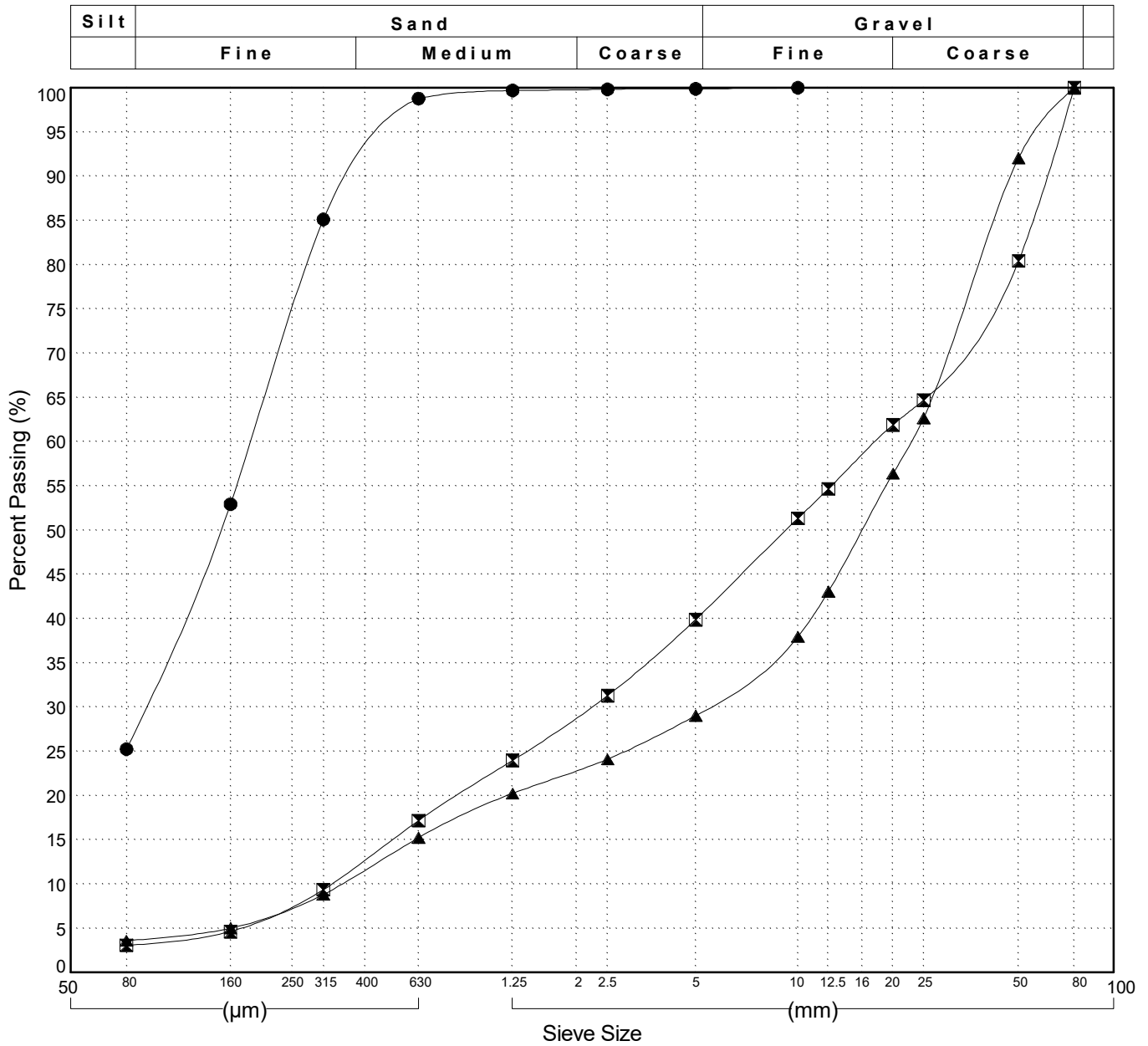


GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5165
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851105.9m E549026.9m	ELEVATION: 805.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 40	40	0.2 to 0.6	SILTY SAND(SM)	9.1	NP	NP	NP		
☒ 41	41	1.0 to 1.6	POORLY GRADED GRAVEL with SAND(GP)	1.7	NP	NP	NP	0.8	53.1
▲ 42	42	3.2 to 3.6	POORLY GRADED GRAVEL with SAND(GP)	5.0	NP	NP	NP	3.3	63.6

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	
● 40	40	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.7	98.8	85.1	52.9	25.2	0.1	74.6	25.2		
☒ 41	41	100.0	100.0	80.4	64.7	61.9	54.7	51.3	39.9	31.3	24.0	17.2	9.4	4.6	3.1	60.1	36.8	3.1		
▲ 42	42	100.0	100.0	92.1	62.6	56.4	43.1	37.9	29.0	24.1	20.2	15.2	8.8	5.0	3.6	71.0	25.4	3.6		



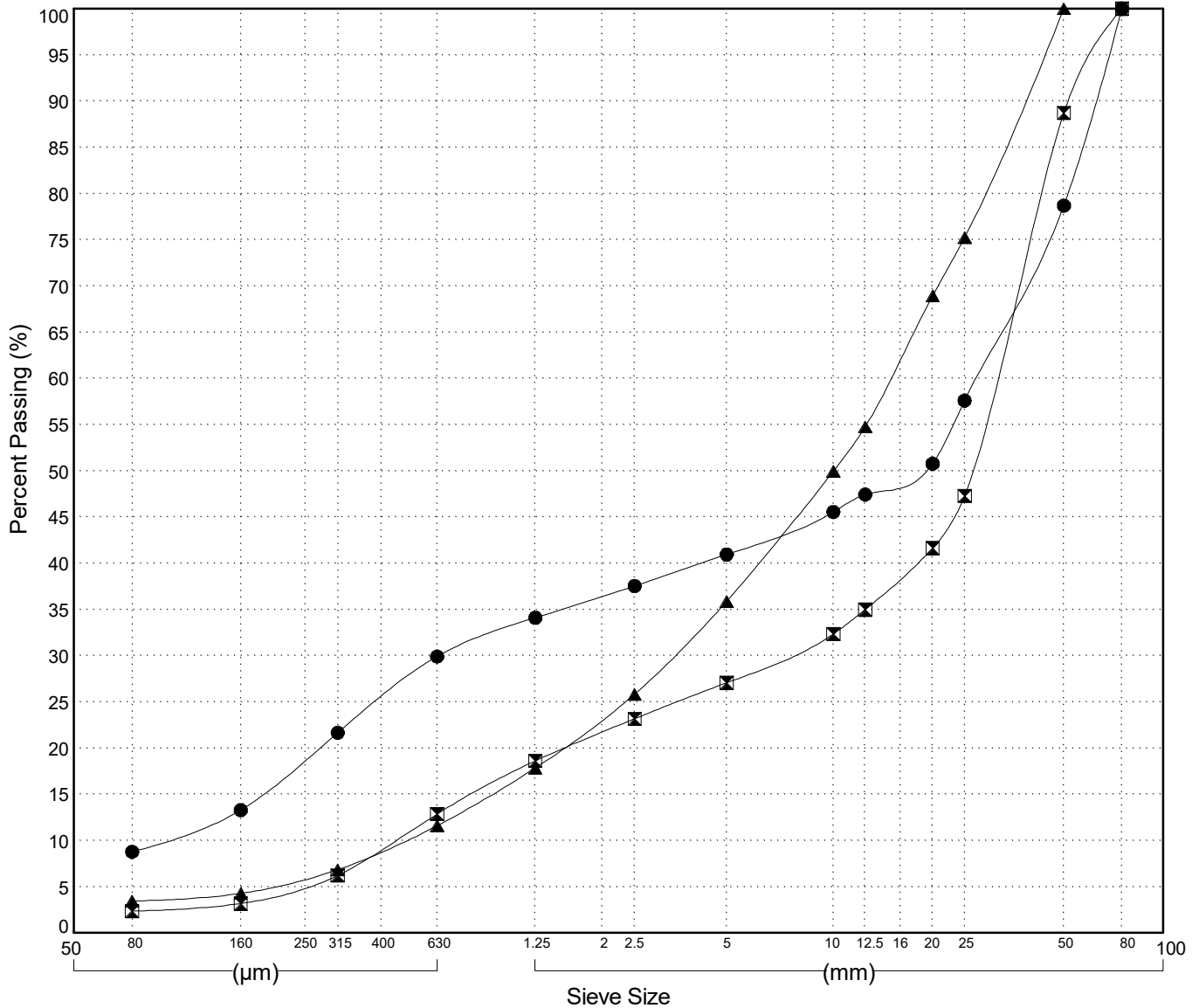
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5166
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851037.3m E548882.9m	ELEVATION: 806.1m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 43	43	0.2 to 0.6	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	2.5	NP	NP	NP	0.2	294.1
☒ 44	44	1.4 to 1.8	POORLY GRADED GRAVEL with SAND(GP)	2.8	NP	NP	NP	3.6	66.3
▲ 45	45	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	5.0	NP	NP	NP	1.4	29.8

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
● 43	43	100.0	100.0	100.0	78.7	57.6	50.8	47.4	45.5	40.9	37.5	34.1	29.9	21.7	13.3	8.8	59.1	32.2	8.8	
☒ 44	44	100.0	100.0	88.7	47.3	41.7	35.0	32.3	27.1	23.2	18.6	12.9	6.2	3.2	2.4	72.9	24.7	2.4		
▲ 45	45	100.0	100.0	100.0	75.2	68.9	54.8	49.9	35.9	25.8	17.8	11.6	6.8	4.3	3.4	64.1	32.4	3.4		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



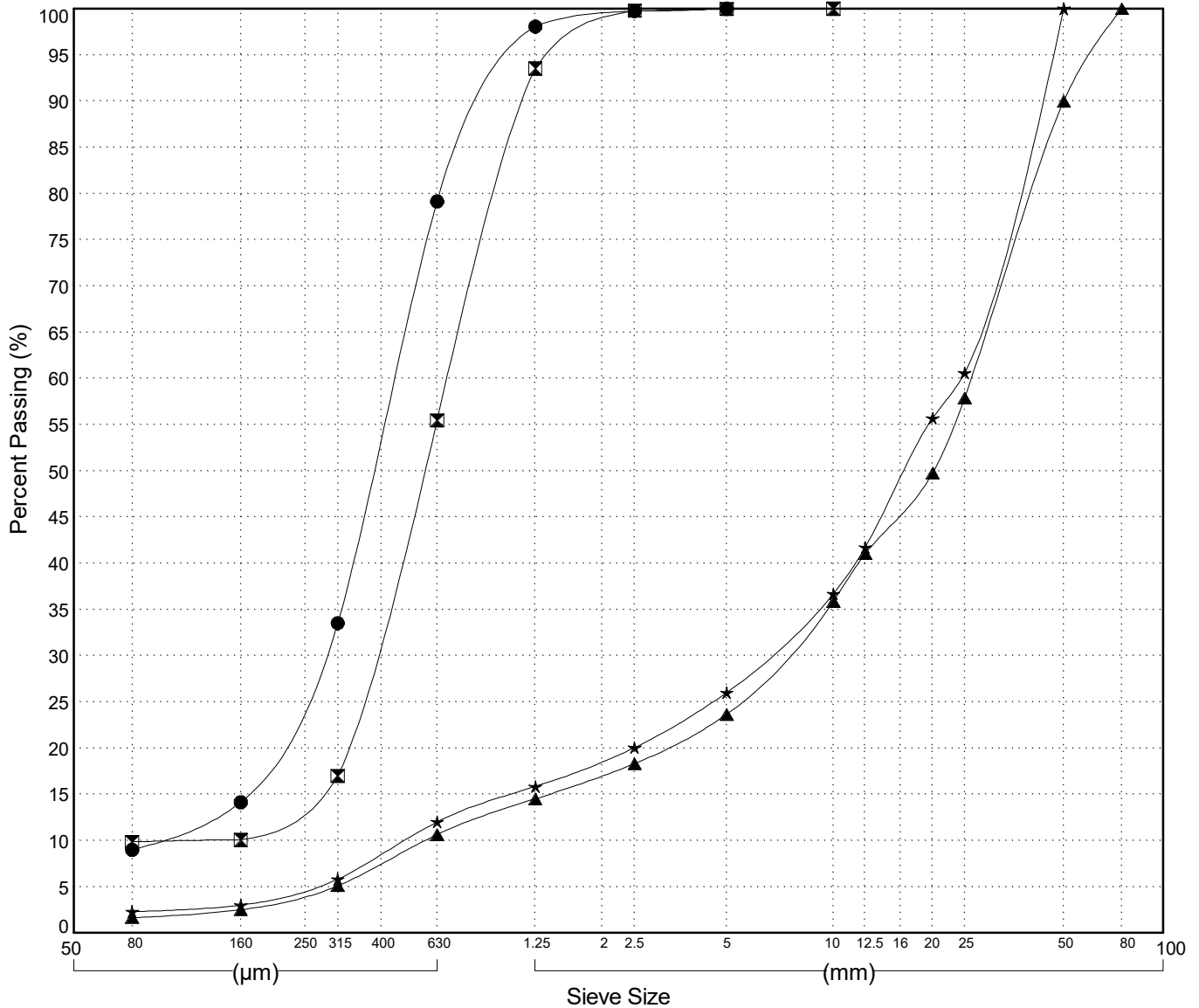
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5167
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6850980.4m E548739.1m	ELEVATION: 818.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 46	46	0.0 to 0.4	POORLY GRADED SAND with SILT(SP-SM)	27.1	NP	NP	NP	1.9	5.4
☒ 47	47	0.4 to 0.8	POORLY GRADED SAND with SILT(SP-SM)	28.1	NP	NP	NP	1.8	5.4
▲ 48	48	1.0 to 1.6	POORLY GRADED GRAVEL with SAND(GP)	3.8	NP	NP	NP	3.2	45.1
★ 49	49	3.2 to 3.6	POORLY GRADED GRAVEL with SAND(GP)	2.6	NP	NP	NP	3.2	48.4

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
● 46	46	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	98.1	79.2	33.5	14.1	9.0	0.0	91.0	9.0	0.0
☒ 47	47	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	93.5	55.5	17.0	10.1	9.9	0.0	90.1	9.9	0.0
▲ 48	48	100.0	100.0	90.0	57.9	49.8	41.0	35.9	23.6	18.3	14.5	10.7	5.1	2.5	1.7	76.4	22.0	1.7	0.0
★ 49	49	100.0	100.0	100.0	60.6	55.7	41.7	36.7	26.0	20.1	15.9	12.0	5.8	3.0	2.3	74.0	23.7	2.3	0.0

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



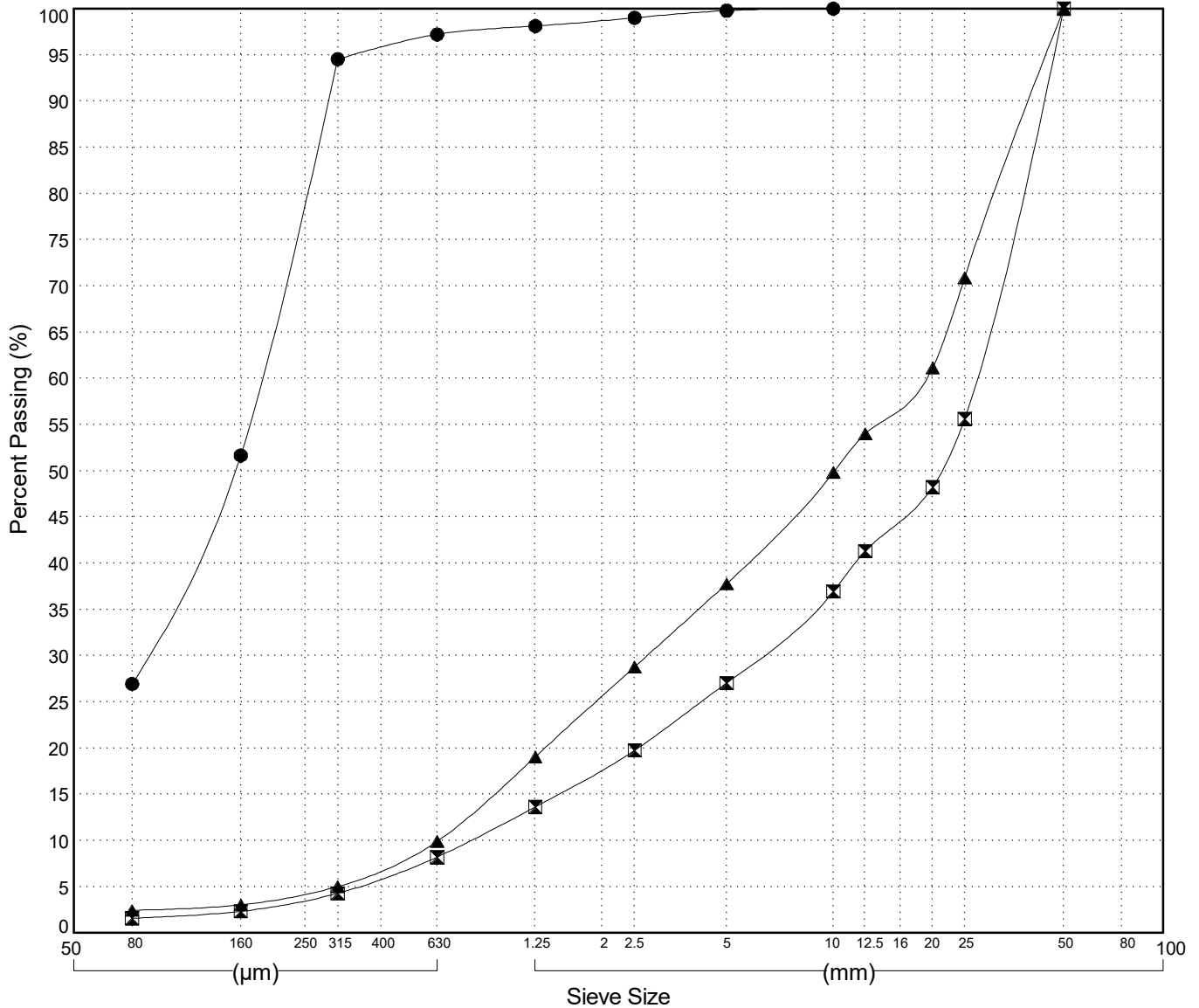
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5168
Ralph Hotte Contracting	Km 1782.5 lns	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6850889.7m E548637.5m	ELEVATION: 823m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 50	50	0.0 to 0.2	SILTY SAND(SM)	24.1	NP	NP	NP		
☒ 51	51	0.8 to 1.2	WELL-GRADED GRAVEL with SAND(GW)	2.2	NP	NP	NP	1.7	33.9
▲ 52	52	3.2 to 3.6	POORLY GRADED GRAVEL with SAND(GP)	2.0	NP	NP	NP	0.6	29.2

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
● 50	50	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.0	98.1	97.2	94.5	51.7	27.0	0.2	72.8	27.0		
☒ 51	51	100.0	100.0	100.0	55.6	48.2	41.3	36.9	27.0	19.8	13.6	8.2	4.3	2.3	1.6	73.0	25.4	1.6		
▲ 52	52	100.0	100.0	100.0	70.9	61.1	54.0	49.8	37.8	28.8	19.0	9.9	5.0	3.1	2.5	62.2	35.3	2.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

Pit # 115 F-03
Complete: 6/25/2015

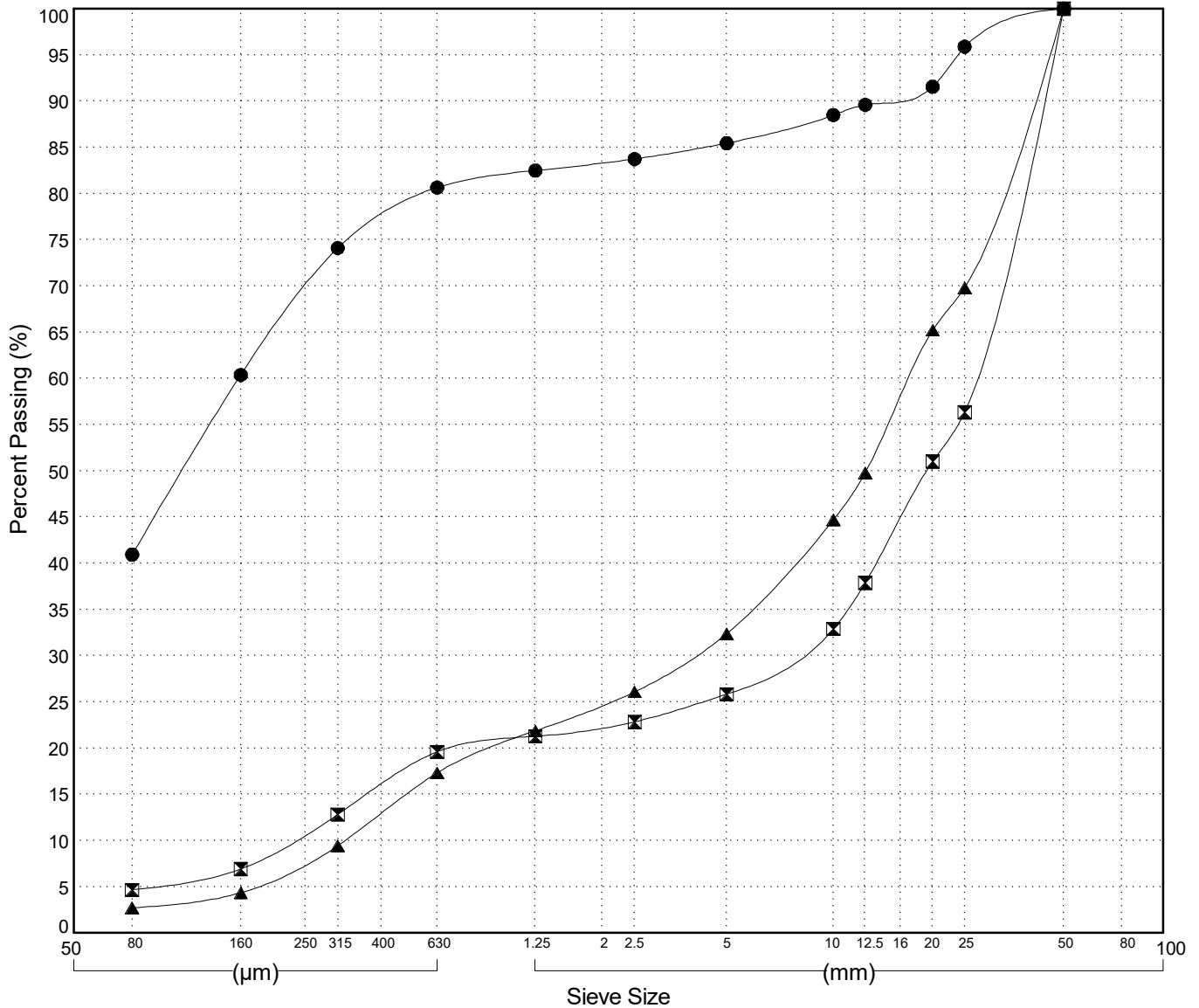
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5169
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851987.3m E549807.4m	ELEVATION: 781m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 53	53	0.0 to 0.4	SILTY SAND(SM)	26.5	NP	NP	NP		
☒ 54	54	0.8 to 1.4	POORLY GRADED GRAVEL with SAND(GP)	3.2	NP	NP	NP	9.0	116.4
▲ 55	55	3.0 to 3.4	WELL-GRADED GRAVEL with SAND(GW)	3.8	NP	NP	NP	2.5	51.6

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
● 53	53	100.0	100.0	100.0	95.9	91.6	89.6	88.5	85.4	83.7	82.5	80.6	74.1	60.4	40.9	14.6	44.5	40.9
☒ 54	54	100.0	100.0	100.0	56.3	51.0	37.9	32.9	25.8	22.8	21.3	19.6	12.8	6.9	4.7	74.2	21.2	4.7
▲ 55	55	100.0	100.0	100.0	69.8	65.2	49.8	44.7	32.4	26.1	21.9	17.3	9.4	4.3	2.7	67.6	29.6	2.7

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



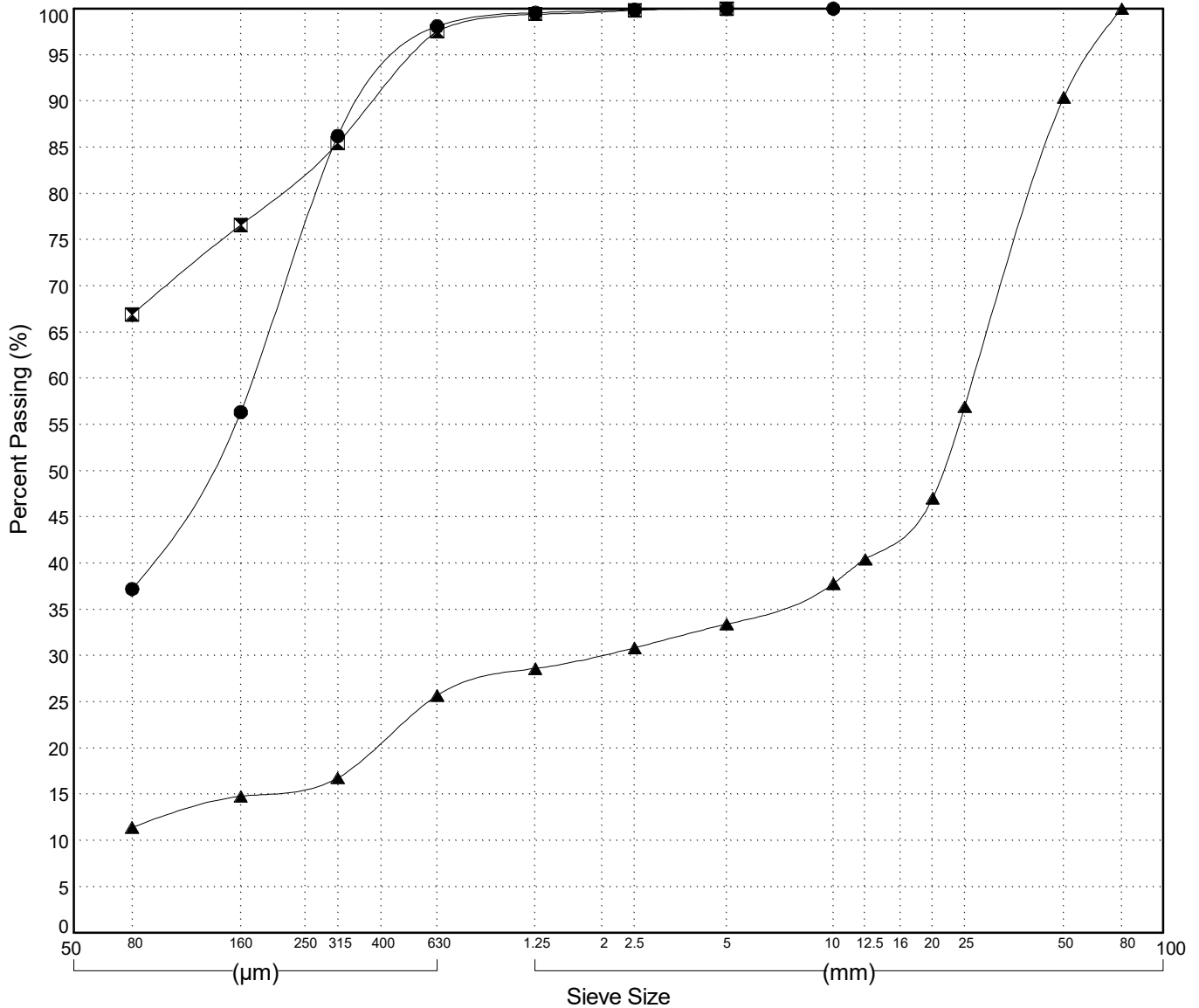
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5170
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851988.6m E549851.3m	ELEVATION: 779.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 56	56	0.1 to 0.5	SILTY SAND(SM)	45.6	NP	NP	NP		
☒ 57	57	1.5 to 2.0	SANDY SILT(ML)	40.5	NP	NP	NP		
▲ 58	58	3.0 to 3.4	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	11.3	NP	NP	NP	2.6	492.0

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
● 56	56	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	98.1	86.2	56.4	37.2	0.0	62.8	37.2	
☒ 57	57	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.4	97.6	85.4	76.6	66.9	0.0	33.1	66.9	
▲ 58	58	100.0	100.0	90.4	56.9	47.1	40.4	37.8	33.4	30.9	28.6	25.7	16.8	14.8	11.4	66.6	22.0	11.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



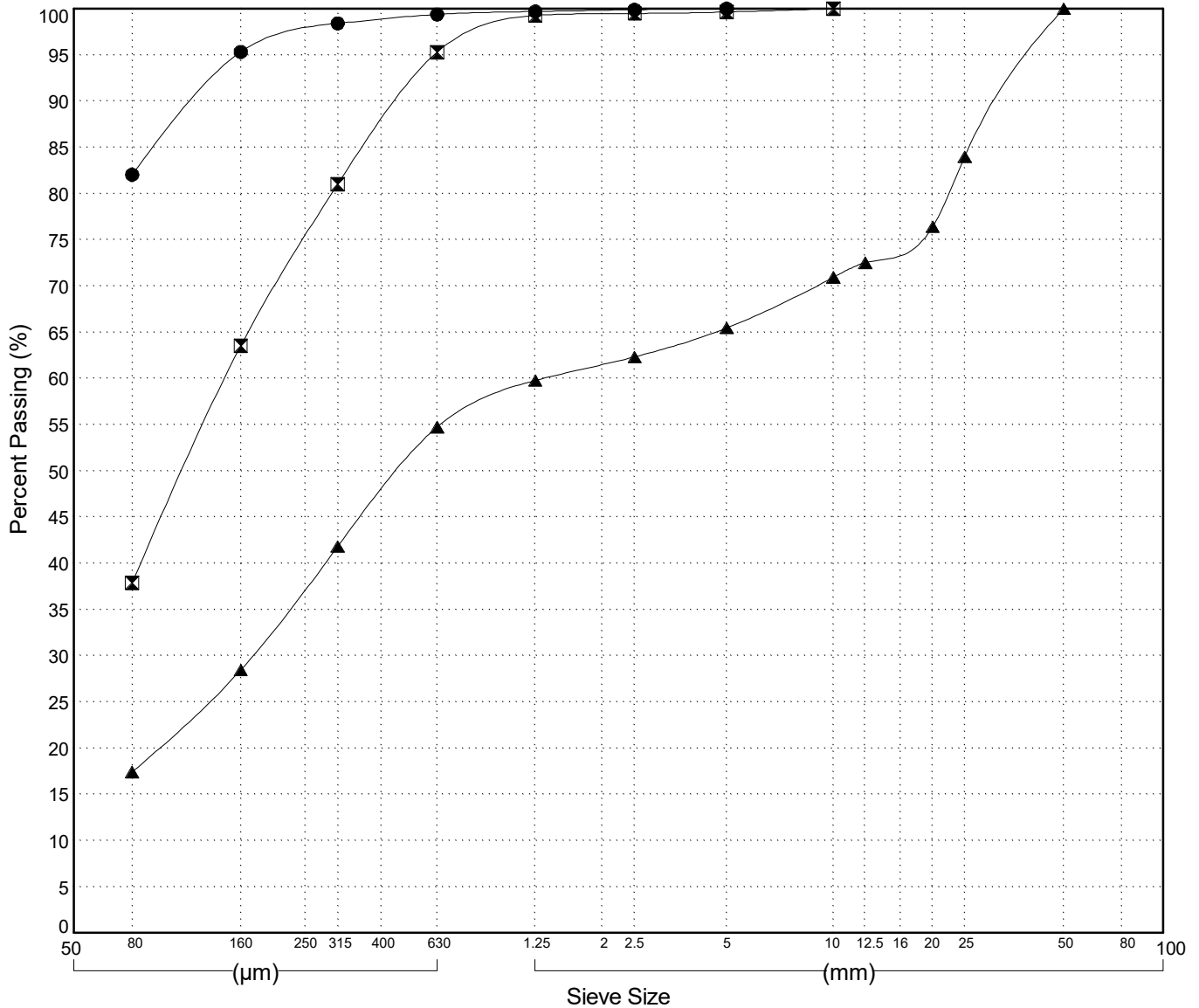
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5171
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851953.5m E549893.9m	ELEVATION: 783.8m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 59	59	0.2 to 0.6	SILT with SAND(ML)	75.0	NP	NP	NP		
☒ 60	60	1.4 to 1.8	SILTY SAND(SM)	25.2	NP	NP	NP		
▲ 61	61	3.4 to 3.8	SILTY SAND with GRAVEL(SM)	12.9	NP	NP	NP		

Field#	Lab#	% PASSING	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	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 59	59	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.7	99.4	98.4	95.3	82.0	0.0	18.0	82.0		
☒ 60	60	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.5	99.3	95.3	81.0	63.5	37.9	0.4	61.7	37.9			
▲ 61	61	100.0	100.0	100.0	84.0	76.4	72.5	70.9	65.4	62.3	59.8	54.7	41.8	28.4	17.4	34.6	48.0	17.4		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

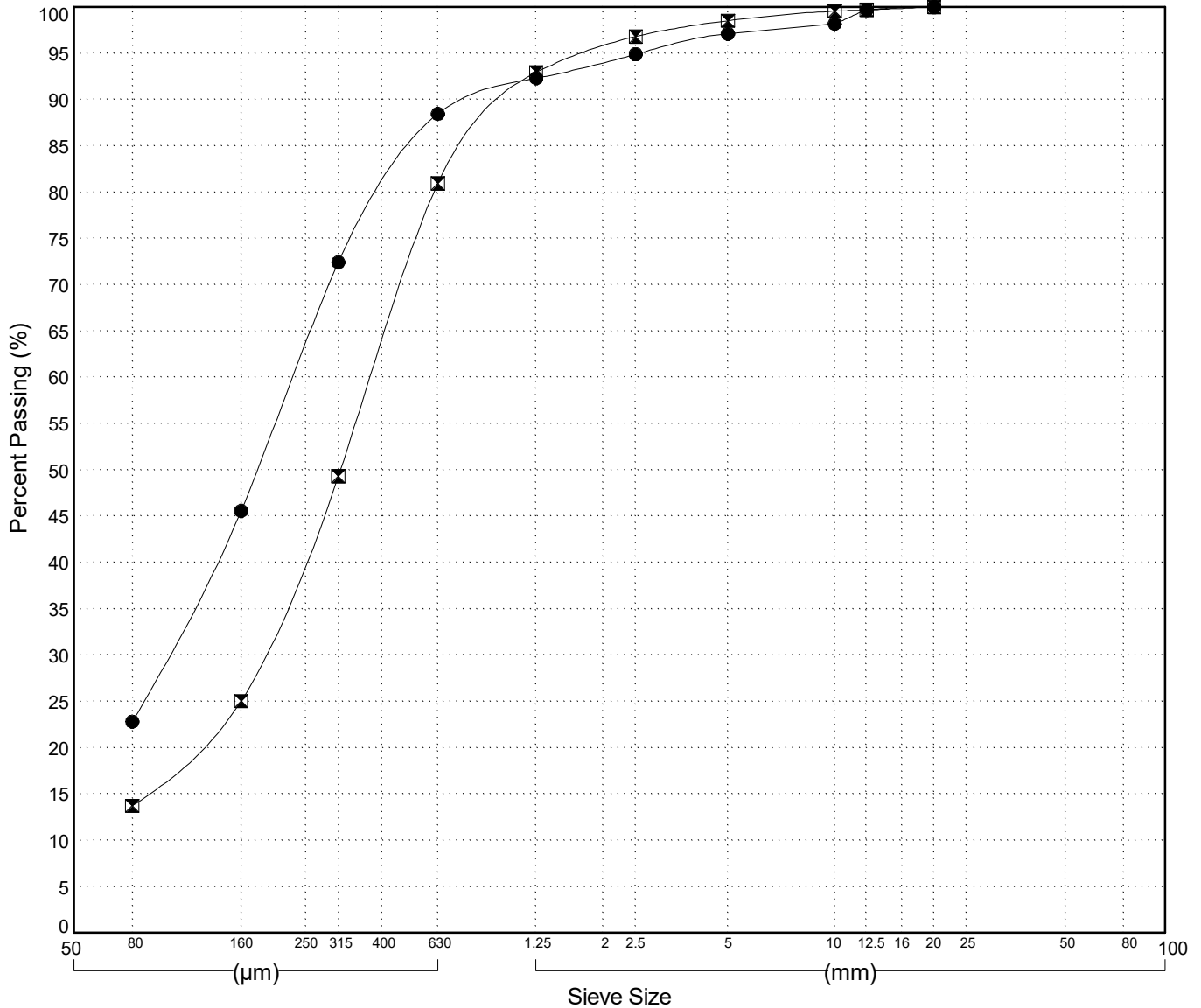


GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5172
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851914.7m E549933.8m	ELEVATION: 782.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification											%H ₂ O	LL	PL	PI	C _c	C _u	
● 62	62	0.2 to 0.6	SILTY SAND(SM)											8.2	NP	NP	NP			
☒ 63	63	3.6 to 4.0	SILTY SAND(SM)											5.0	NP	NP	NP			
Field#	Lab#		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	%Breakdown			
																	Gravel	Sand	Silt	Clay
● 62	62	% PASSING	100.0	100.0	100.0	100.0	100.0	99.7	98.2	97.1	94.9	92.3	88.5	72.4	45.6	22.8	2.9	74.3	22.8	
☒ 63	63		100.0	100.0	100.0	100.0	100.0	99.7	99.5	98.5	96.8	92.9	81.0	49.3	25.0	13.7	1.5	84.8	13.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

Pit # 115 F-03
Complete: 6/26/2015

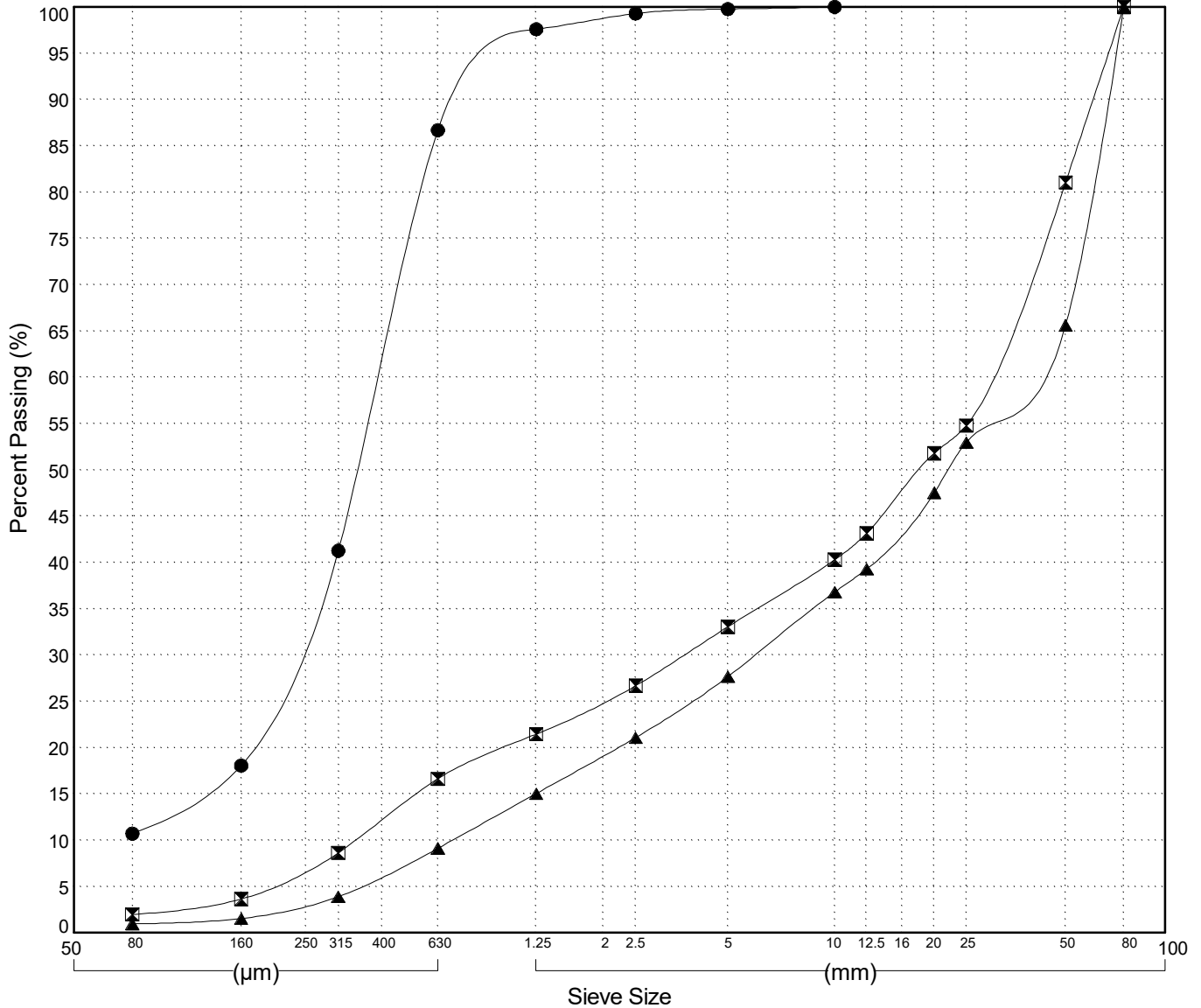
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5174
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851825.3m E549816.7m	ELEVATION: 769m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 67	67	0.2 to 0.6	WELL-GRADED SAND with SILT(SW-SM)	2.4	NP	NP	NP	1.8	6.0
☒ 68	68	1.0 to 1.4	WELL-GRADED GRAVEL with SAND(GW)	2.7	NP	NP	NP	1.2	81.0
▲ 69	69	3.0 to 3.4	WELL-GRADED GRAVEL with SAND(GW)	2.6	NP	NP	NP	1.3	52.7

Field#	Lab#	% PASSING	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	% Breakdown		
			Gravel	Sand	Silt	Clay													
● 67	67	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.3	97.6	86.7	41.3	18.1	10.7	0.2	89.1	10.7	
☒ 68	68	100.0	100.0	81.0	54.8	51.8	43.2	40.3	33.0	26.7	21.5	16.6	8.6	3.6	2.0	67.0	31.1	2.0	
▲ 69	69	100.0	100.0	65.6	53.0	47.5	39.3	36.8	27.7	21.1	15.0	9.1	3.9	1.6	1.0	72.3	26.7	1.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



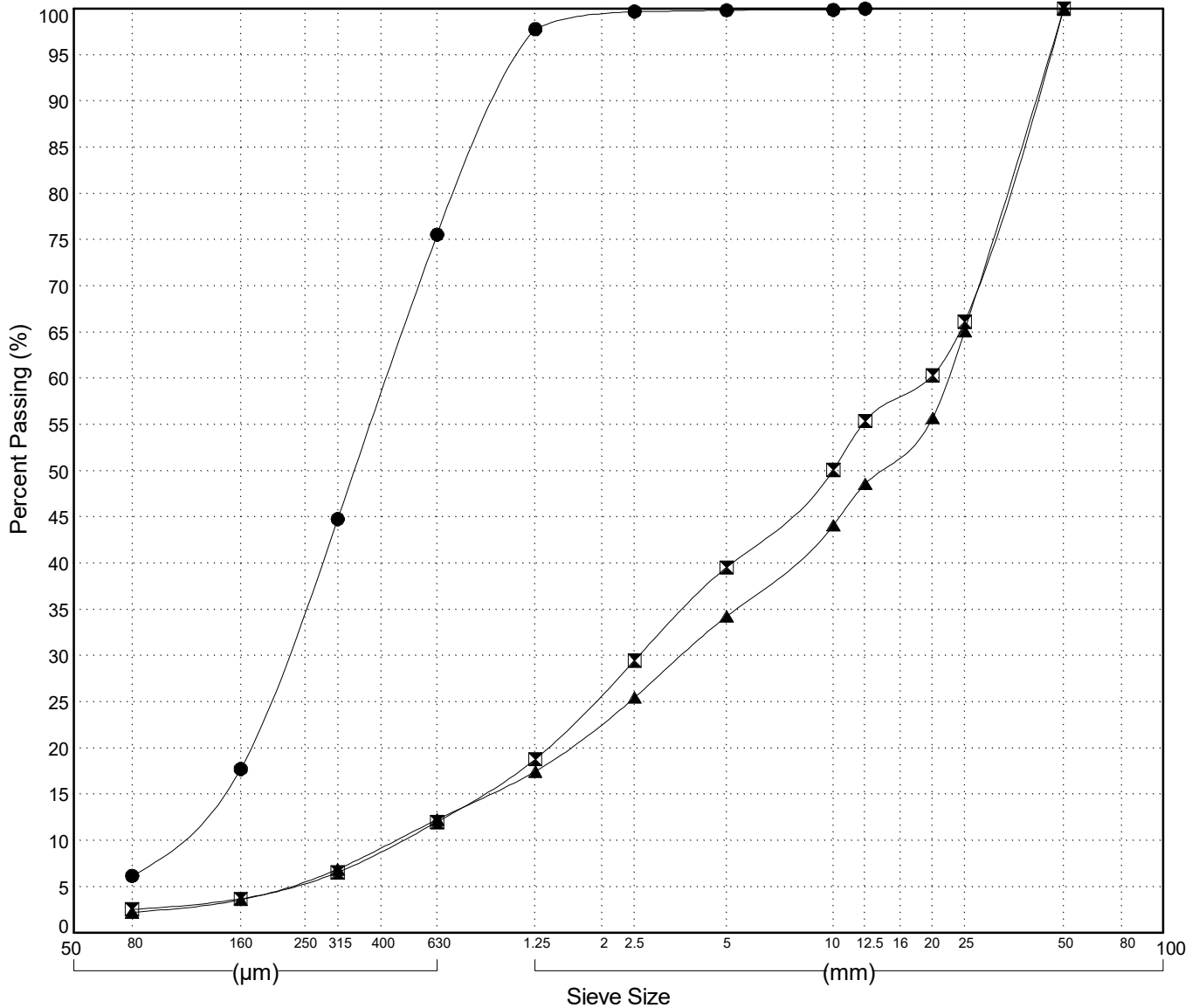
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 858-5175
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851742.5m E549712.8m	ELEVATION: 771.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 70	70	0.2 to 0.6	POORLY GRADED SAND with SILT(SP-SM)	6.5	NP	NP	NP	1.1	4.6
☒ 71	71	1.4 to 1.8	POORLY GRADED GRAVEL with SAND(GP)	2.2	NP	NP	NP	0.7	39.7
▲ 72	72	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	2.0	NP	NP	NP	1.2	47.1

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
● 70	70	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.7	97.8	75.6	44.8	17.7	6.2	0.2	93.6	6.2
☒ 71	71	100.0	100.0	100.0	66.1	60.3	55.4	50.1	39.6	29.5	18.8	12.0	6.6	3.7	2.6	60.4	37.0	2.6
▲ 72	72	100.0	100.0	100.0	65.1	55.7	48.6	44.1	34.2	25.5	17.5	12.3	6.9	3.6	2.2	65.8	32.0	2.2

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



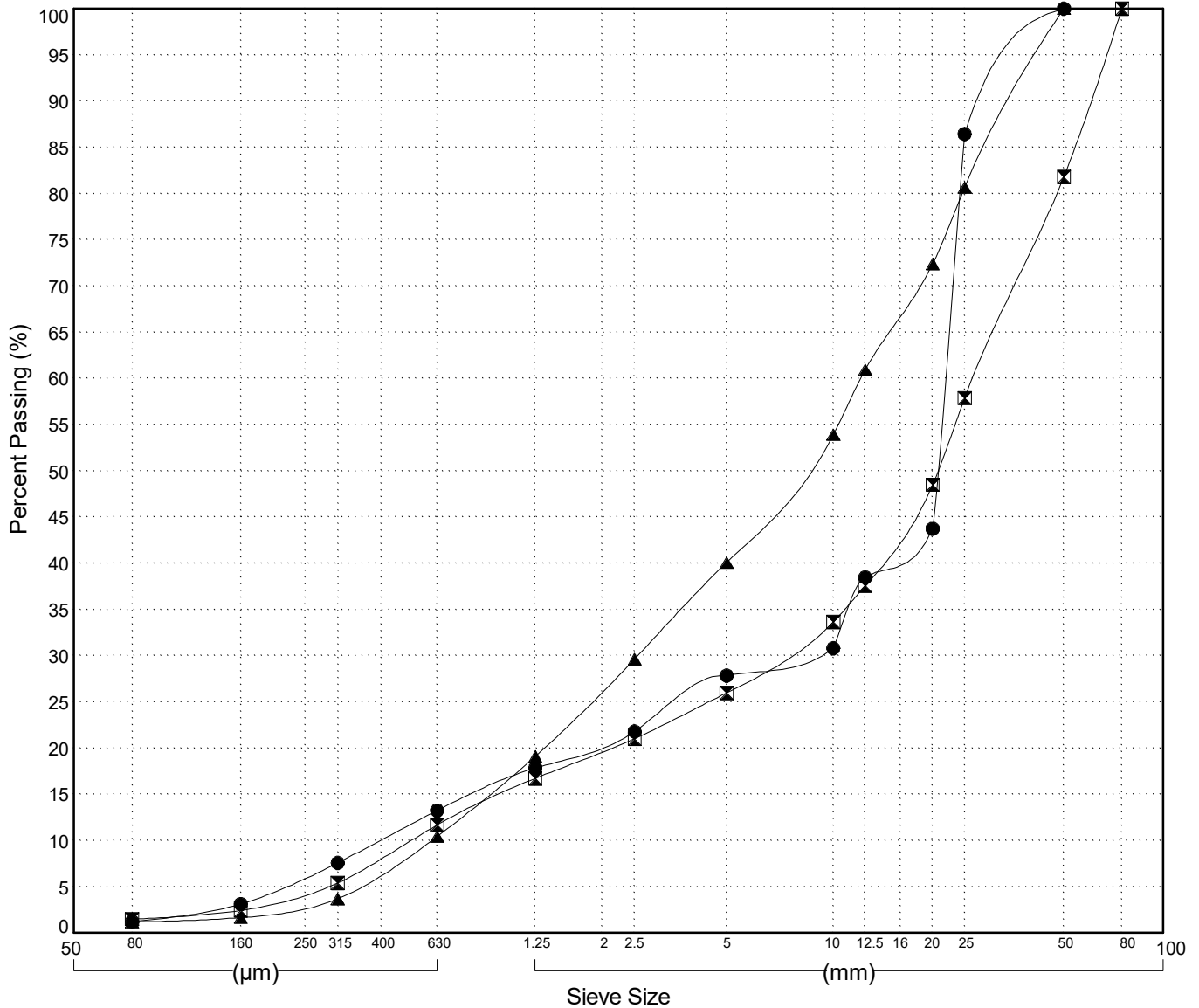
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5176
Ralph Hotte Contracting	Km 1782.5 lns	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6852042.7m E549724.5m	ELEVATION: 741.7m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 73	73	0.2 to 0.6	POORLY GRADED GRAVEL with SAND(GP)	1.9	NP	NP	NP	7.2	51.5
☒ 74	74	1.0 to 1.4	POORLY GRADED GRAVEL with SAND(GP)	2.1	NP	NP	NP	3.5	50.9
▲ 75	75	3.4 to 3.8	POORLY GRADED GRAVEL with SAND(GP)	2.8	NP	NP	NP	0.9	20.1

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
● 73	73	100.0	100.0	100.0	86.4	43.7	38.5	30.8	27.8	21.8	17.9	13.2	7.6	3.1	1.3	72.2	26.6	1.3
☒ 74	74	100.0	100.0	81.8	57.9	48.5	37.6	33.6	26.0	21.0	16.7	11.7	5.4	2.4	1.5	74.0	24.5	1.5
▲ 75	75	100.0	100.0	100.0	80.6	72.4	60.9	53.9	40.1	29.6	19.1	10.4	3.7	1.7	1.2	59.9	38.9	1.2

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



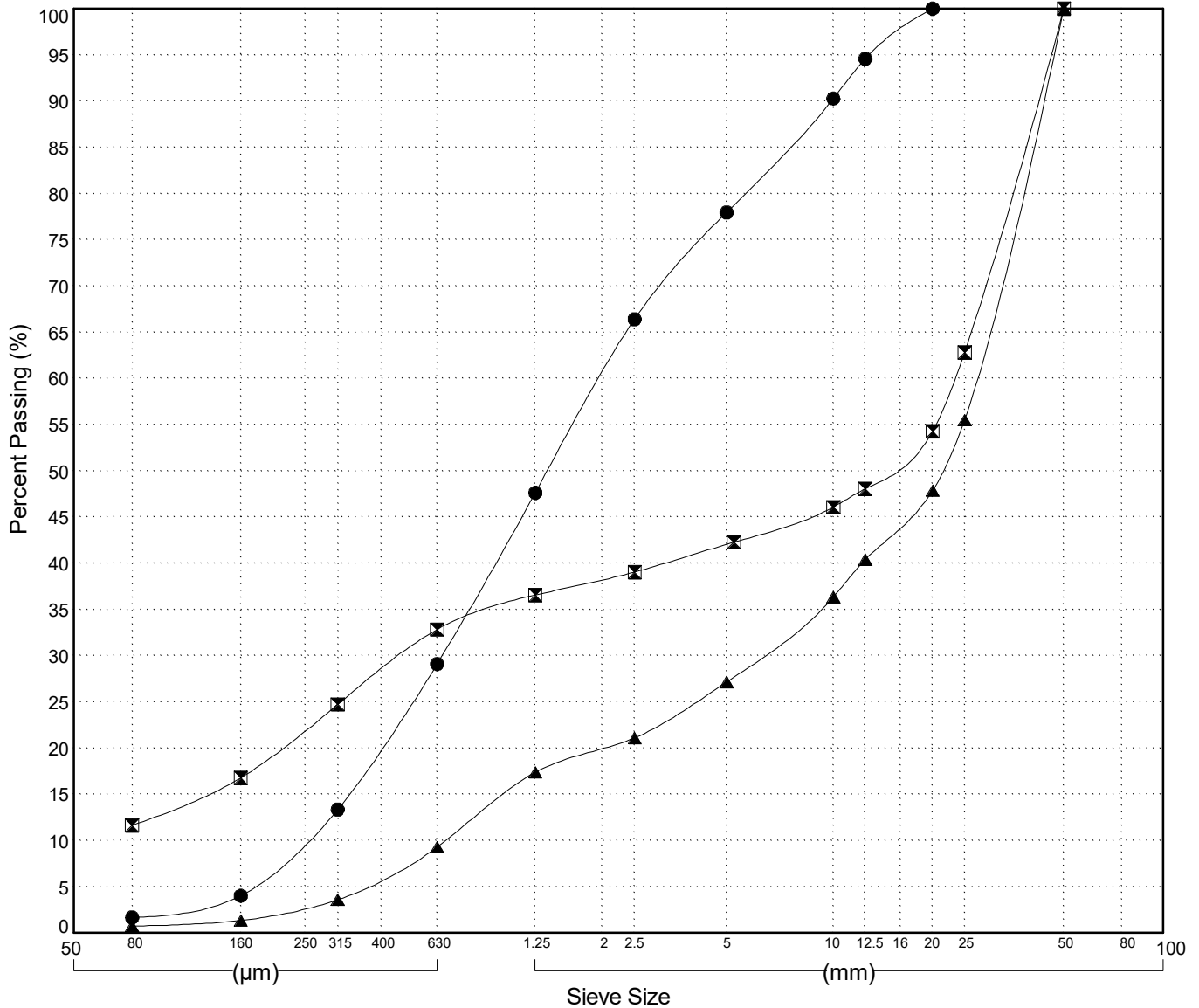
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5177
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851991.4m E549684.2m	ELEVATION: 744.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 76	76	0.2 to 0.6	POORLY GRADED SAND with GRAVEL(SP)	7.7	NP	NP	NP	0.9	8.0
☒ 77	77	1.2 to 1.8	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	8.1	NP	NP	NP	0.2	394.6
▲ 78	78	3.2 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	1.8	NP	NP	NP	2.0	40.1

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
● 76	76	100.0	100.0	100.0	100.0	100.0	94.6	90.3	78.0	66.4	47.6	29.1	13.4	4.0	1.7	22.0	76.3	1.7	
☒ 77	77	100.0	100.0	100.0	62.8	54.3	48.1	46.1	42.0	39.1	36.6	32.8	24.7	16.8	11.6	58.0	30.4	11.6	
▲ 78	78	100.0	100.0	100.0	55.5	47.9	40.4	36.3	27.1	21.1	17.4	9.3	3.6	1.4	0.7	72.9	26.4	0.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



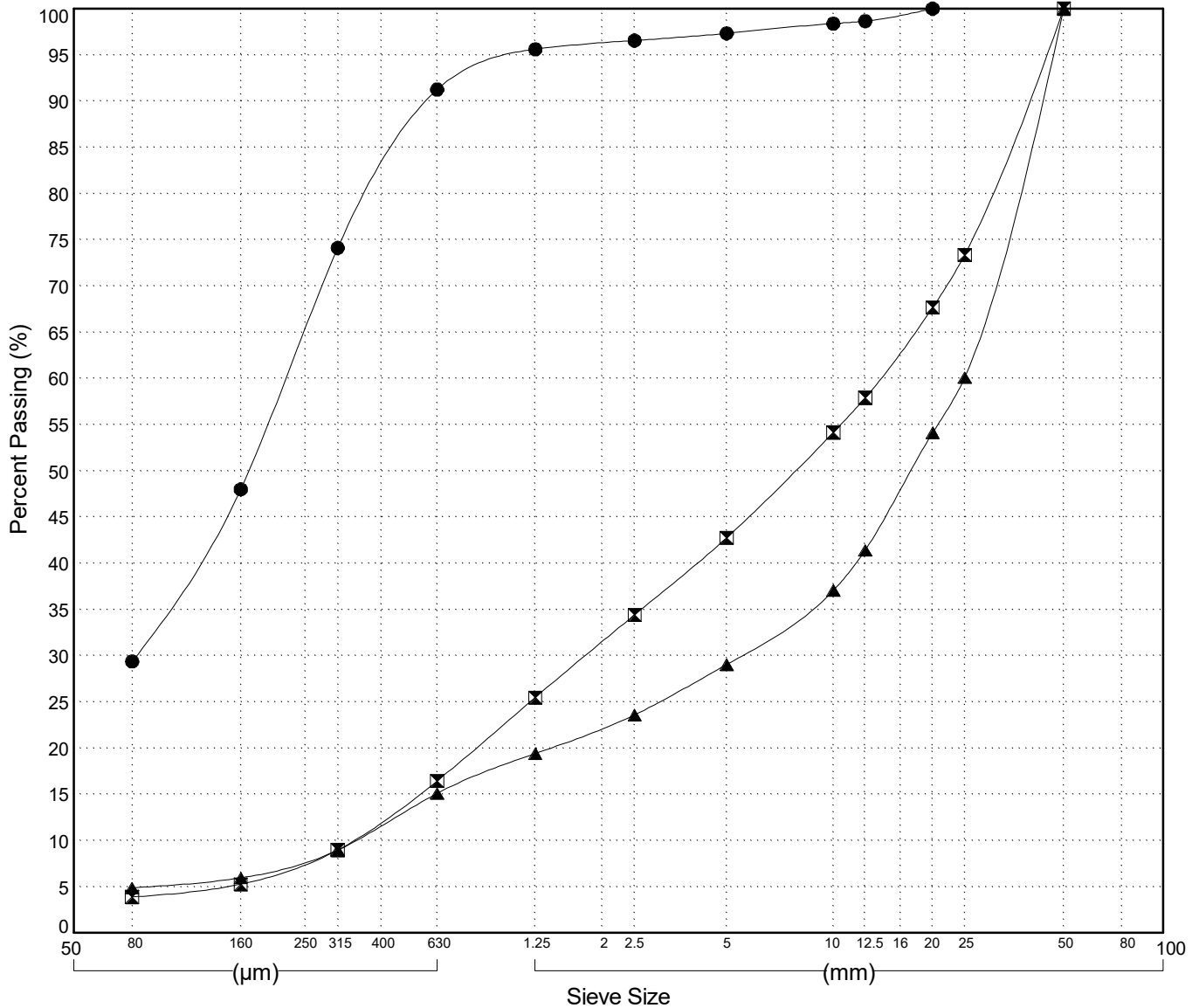
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5178
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851947.7m E549635.6m	ELEVATION: 741.1m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 79	79	0.2 to 0.6	SILTY SAND(SM)	18.3	NP	NP	NP		
☒ 80	80	1.0 to 1.4	POORLY GRADED GRAVEL with SAND(GP)	3.6	NP	NP	NP	0.7	39.9
▲ 81	81	3.4 to 3.8	POORLY GRADED GRAVEL with SAND(GP)	2.6	NP	NP	NP	3.1	70.4

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
● 79	79	100.0	100.0	100.0	100.0	100.0	98.6	98.4	97.3	96.6	95.6	91.3	74.1	48.0	29.4	2.7	67.9	29.4	
☒ 80	80	100.0	100.0	100.0	73.4	67.7	57.9	54.2	42.7	34.4	25.5	16.4	9.0	5.3	3.9	57.3	38.9	3.9	
▲ 81	81	100.0	100.0	100.0	60.1	54.1	41.4	37.1	29.0	23.6	19.4	15.1	9.0	6.0	4.9	71.0	24.1	4.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



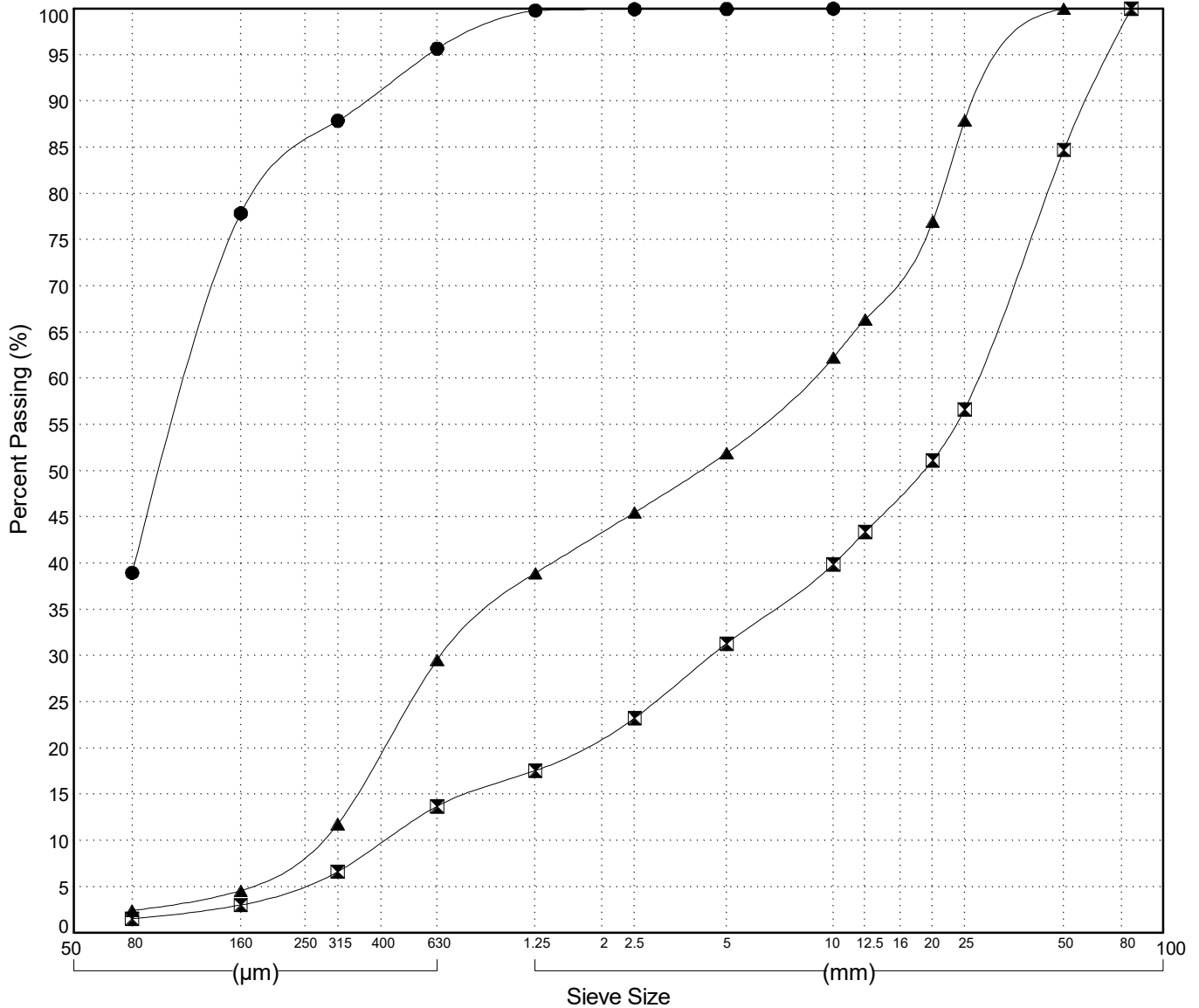
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5179
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851922.8m E549532m	ELEVATION: 750.9m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 82	82	0.2 to 0.6	SILTY SAND(SM)	41.1	NP	NP	NP		
☒ 83	83	1.0 to 1.4	WELL-GRADED GRAVEL with SAND(GW)	2.6	NP	NP	NP	1.5	62.0
▲ 84	84	3.2 to 3.6	POORLY GRADED SAND with GRAVEL(SP)	4.3	NP	NP	NP	0.2	31.9

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
● 82	82	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	95.7	87.9	77.9	39.0	0.0	61.0	39.0		
☒ 83	83	100.0	97.9	84.7	56.6	51.1	43.4	39.9	31.3	23.2	17.6	13.7	6.6	3.0	1.5	66.6	29.8	1.5		
▲ 84	84	100.0	100.0	100.0	87.9	77.0	66.4	62.3	51.9	45.5	38.9	29.5	11.8	4.6	2.4	48.1	49.5	2.4		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



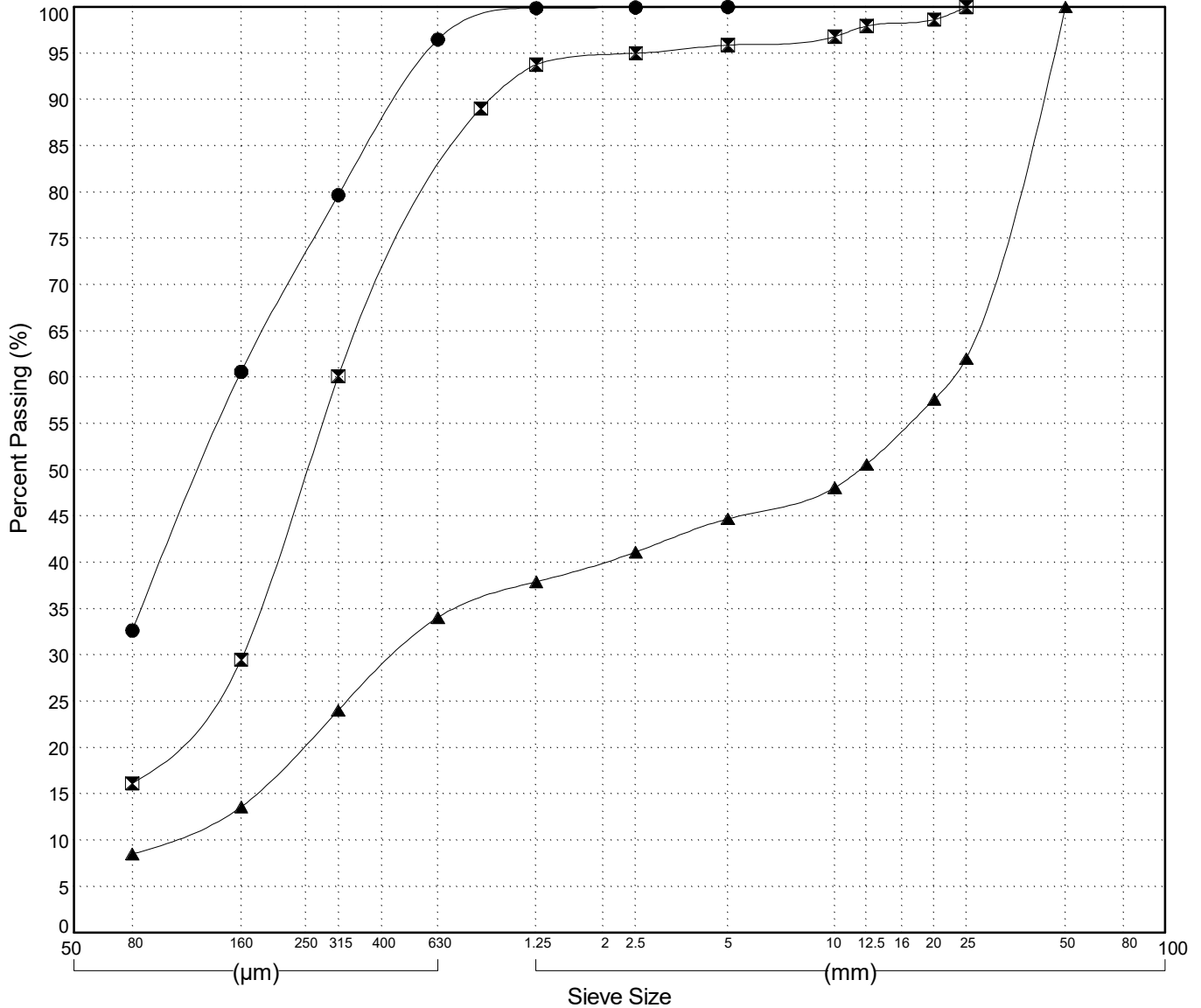
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5180
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851828.9m E549442.4m	ELEVATION: 755.4m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 85	85	0.2 to 0.6	SILTY SAND(SM)	25.0	NP	NP	NP		
☒ 86	86	1.4 to 2.0	SILTY SAND(SM)	13.7	NP	NP	NP		
▲ 87	87	3.6 to 4.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	7.4	NP	NP	NP	0.1	241.5

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
● 85	85	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	96.5	79.7	60.6	32.7	0.0	67.3	32.7		
☒ 86	86	100.0	100.0	100.0	100.0	98.6	97.9	96.8	95.9	95.0	93.8	80.3	60.1	29.5	16.1	4.1	79.7	16.1		
▲ 87	87	100.0	100.0	100.0	62.0	57.6	50.6	48.1	44.7	41.1	37.9	34.1	24.0	13.6	8.5	55.3	36.2	8.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



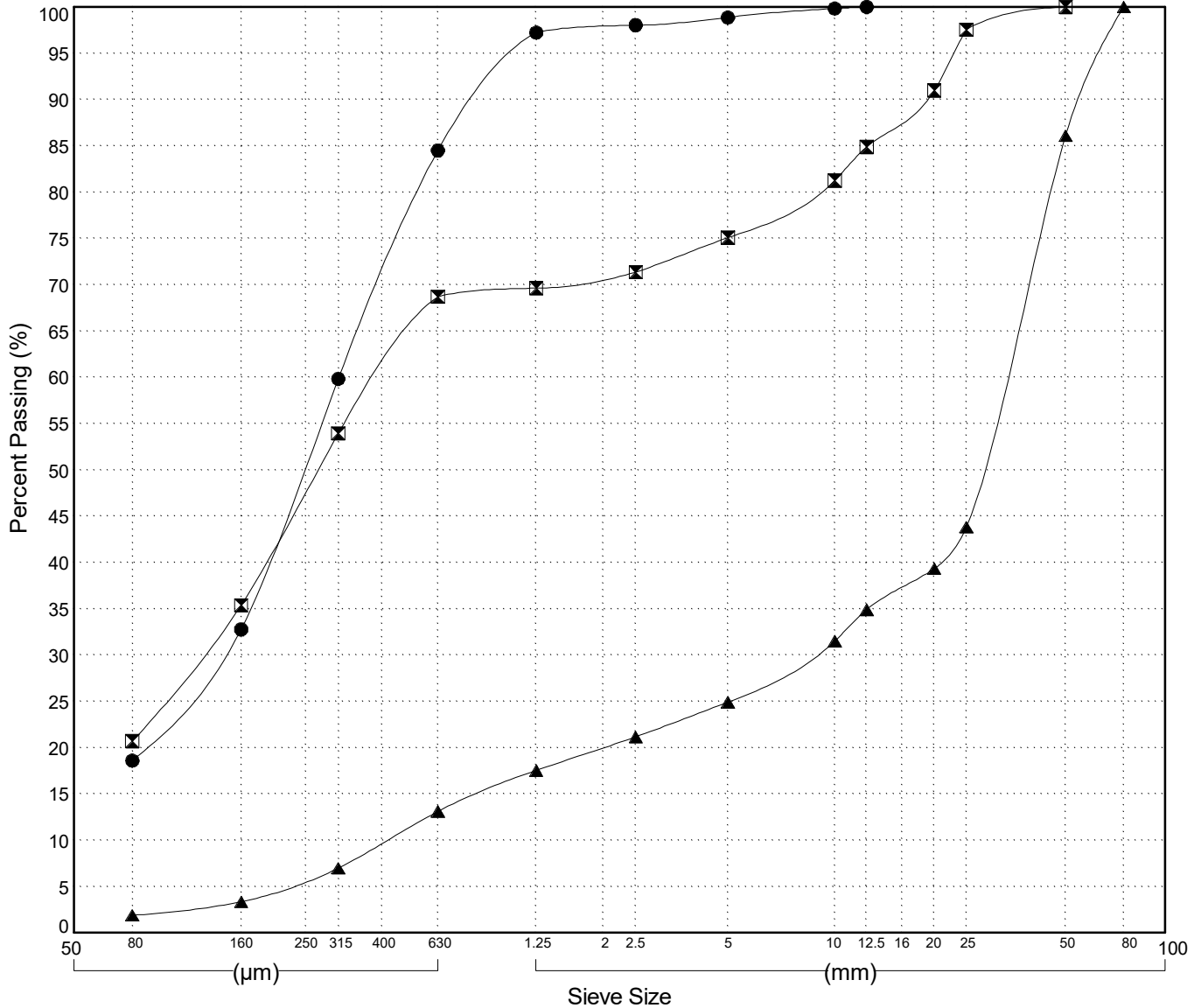
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5181
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851769.9m E549350.7m	ELEVATION: 761.6m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 88	88	0.2 to 0.6	SILTY SAND(SM)	19.5	NP	NP	NP		
☒ 89	89	0.8 to 1.2	SILTY SAND with GRAVEL(SM)	29.4	NP	NP	NP		
▲ 90	90	2.2 to 2.8	POORLY GRADED GRAVEL with SAND(GP)	2.6	NP	NP	NP	4.9	73.6

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
● 88	88	100.0	100.0	100.0	100.0	100.0	100.0	99.8	98.9	98.0	97.2	84.5	59.8	32.8	18.6	1.1	80.2	18.6		
☒ 89	89	100.0	100.0	100.0	97.5	91.0	84.9	81.3	75.1	71.4	69.6	68.7	53.9	35.4	20.7	24.9	54.4	20.7		
▲ 90	90	100.0	100.0	86.1	43.8	39.3	34.9	31.5	24.9	21.2	17.5	13.1	7.0	3.4	1.9	75.1	23.0	1.9		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



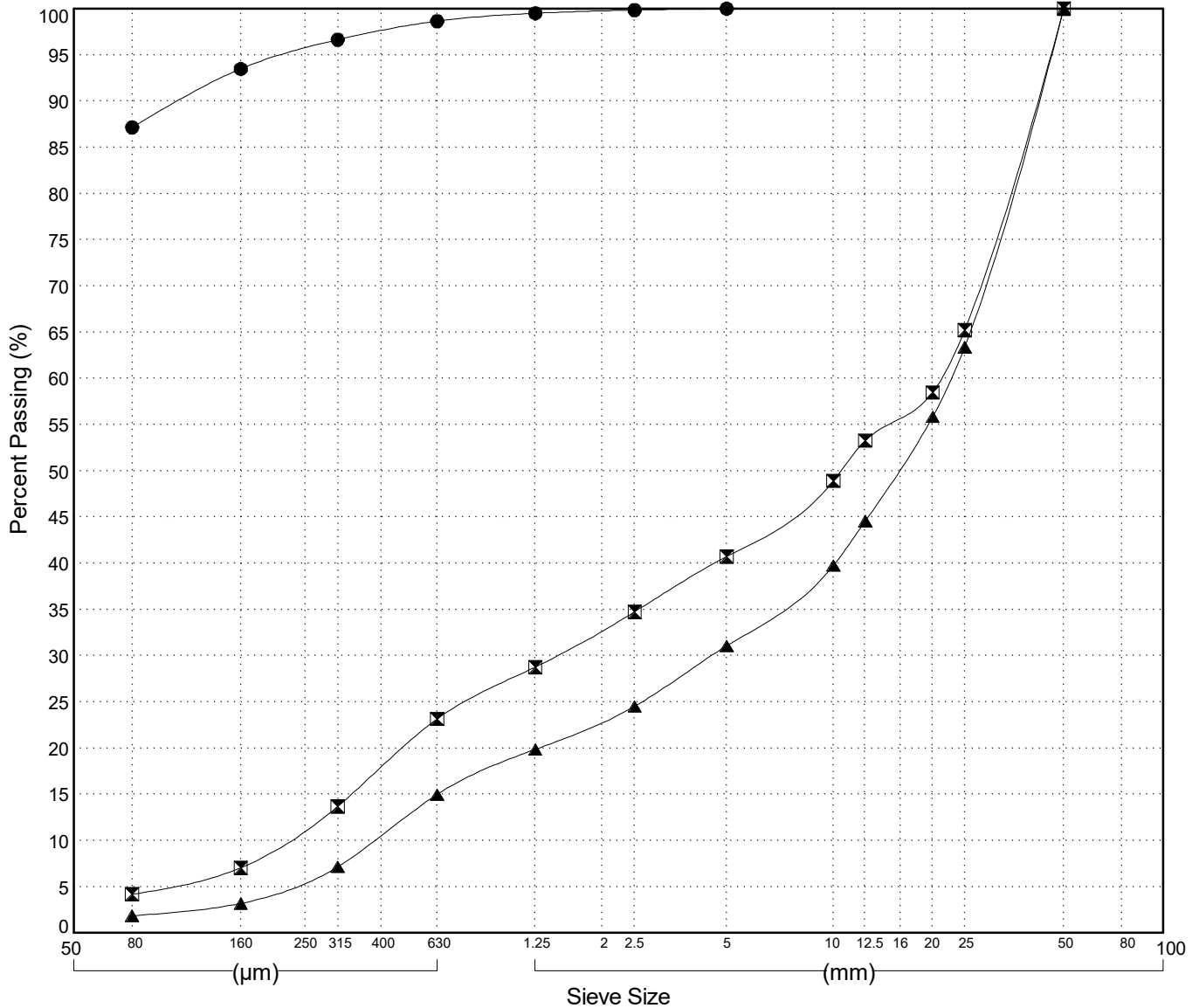
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5182
Ralph Hotte Contracting	Km 1782.5 lns	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851657.4m E549304.6m	ELEVATION: 766.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 91	91	0.2 to 0.6	SILT (ML)	129.2	NP	NP	NP		
☒ 92	92	1.2 to 1.6	POORLY GRADED GRAVEL with SAND (GP)	4.5	NP	NP	NP	0.5	97.3
▲ 93	93	3.4 to 4.0	WELL-GRADED GRAVEL with SAND (GW)	3.0	NP	NP	NP	2.0	55.8

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
● 91	91	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.5	98.6	96.6	93.5	87.1	0.0	12.9	87.1		
☒ 92	92	100.0	100.0	100.0	65.2	58.5	53.3	48.9	40.7	34.8	28.8	23.2	13.7	7.1	4.2	59.3	36.5	4.2		
▲ 93	93	100.0	100.0	100.0	63.4	55.8	44.6	39.7	31.1	24.5	19.9	15.0	7.2	3.2	1.9	68.9	29.2	1.9		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



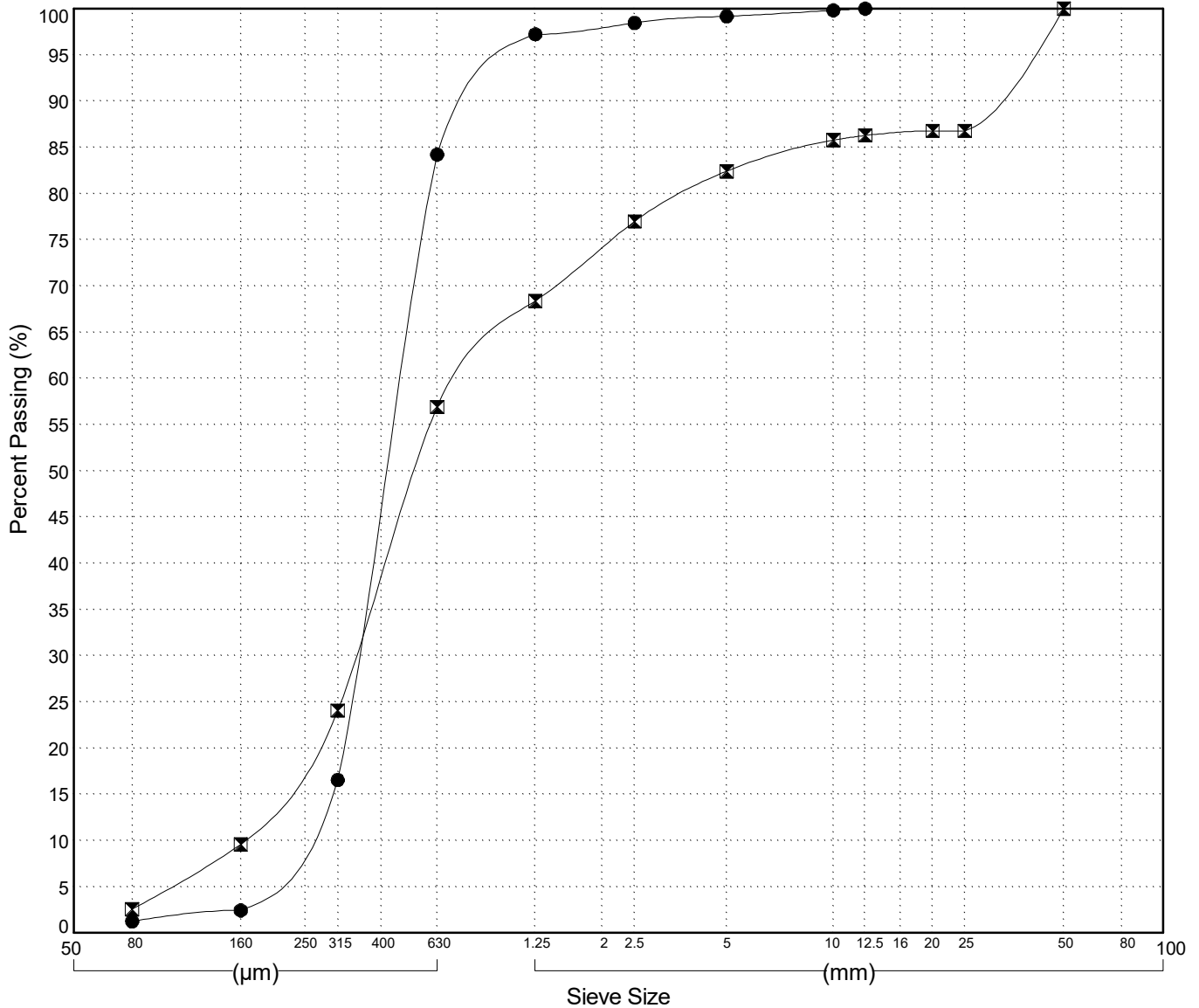
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5183
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851501.9m E549143.1m	ELEVATION: 736.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 94	94	0.2 to 0.6	POORLY GRADED SAND(SP)	9.7	NP	NP	NP	1.2	2.1
☒ 95	95	3.2 to 3.5	POORLY GRADED SAND with GRAVEL(SP)	8.6	NP	NP	NP	1.0	4.6
Field#	Lab#								
● 94	94								
☒ 95	95								

Field#	Lab#	% PASSING	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	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 94	94	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.2	98.5	97.2	84.2	16.6	2.4	1.3	0.8	97.9	1.3		
☒ 95	95	100.0	100.0	100.0	86.8	86.8	86.3	85.8	82.4	77.0	68.4	56.9	24.1	9.6	2.6	17.6	79.8	2.6		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



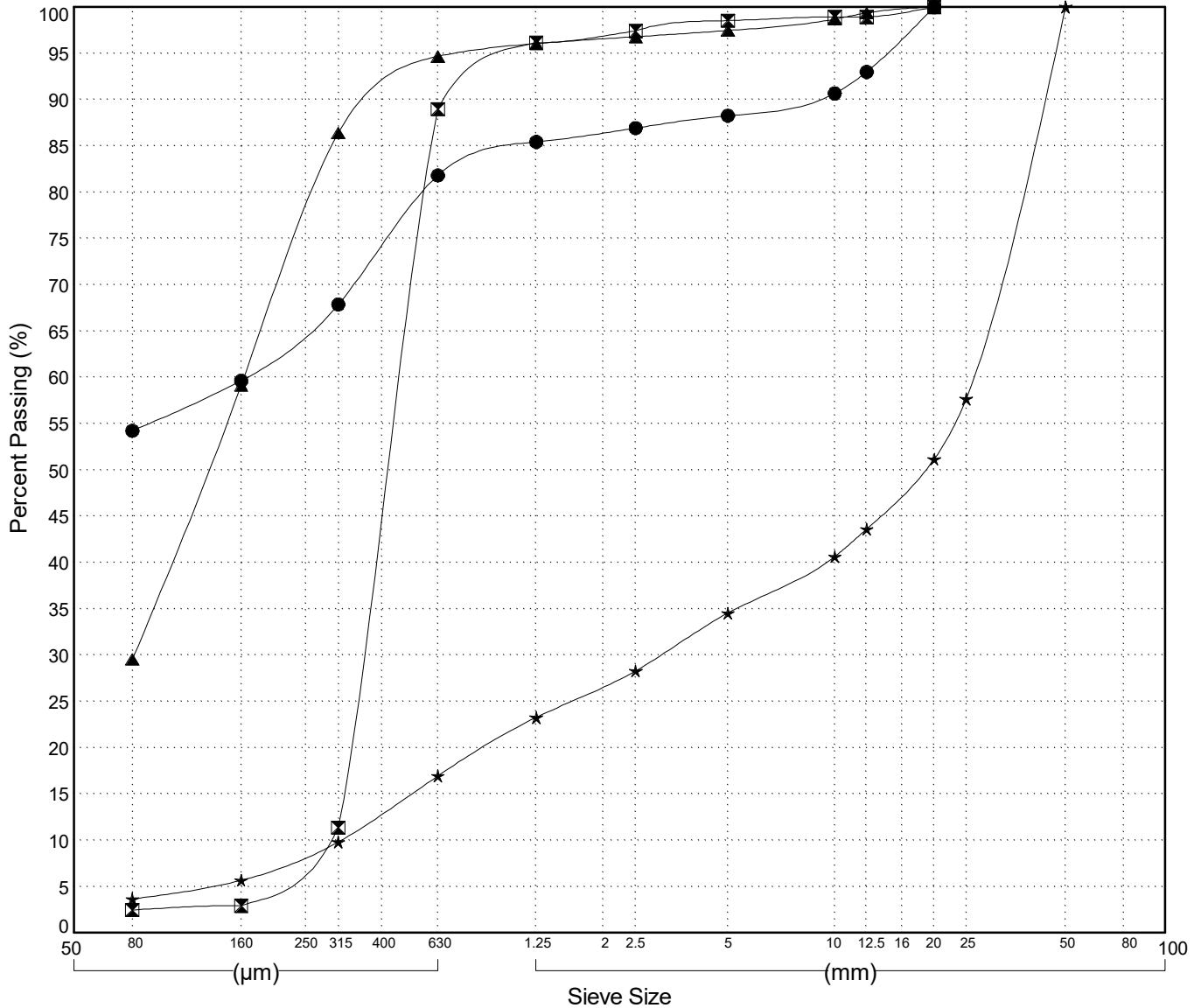
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5184
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851379.6m E549017.3m	ELEVATION: 745.7m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 96	96	0.2 to 0.6	SANDY SILT (ML)	50.5	NP	NP	NP		
☒ 97	97	0.9 to 1.4	POORLY GRADED SAND (SP)	4.3	NP	NP	NP	1.0	1.7
▲ 98	98	1.6 to 2.0	SILTY SAND (SM)	13.1	NP	NP	NP		
★ 99	99	2.3 to 2.8	WELL-GRADED GRAVEL with SAND (GW)	2.4	NP	NP	NP	1.1	81.0

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
● 96	96	100.0	100.0	100.0	100.0	100.0	93.0	90.7	88.2	86.9	85.4	81.8	67.9	59.6	54.2	11.8	34.0	54.2	
☒ 97	97	100.0	100.0	100.0	100.0	100.0	98.9	98.9	98.5	97.4	96.1	89.0	11.4	2.9	2.5	1.5	96.1	2.5	
▲ 98	98	100.0	100.0	100.0	100.0	100.0	99.3	98.7	97.4	96.8	96.0	94.7	86.4	59.2	29.5	2.6	67.9	29.5	
★ 99	99	100.0	100.0	100.0	57.7	51.2	43.6	40.6	34.5	28.3	23.3	17.0	9.8	5.7	3.7	65.5	30.9	3.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



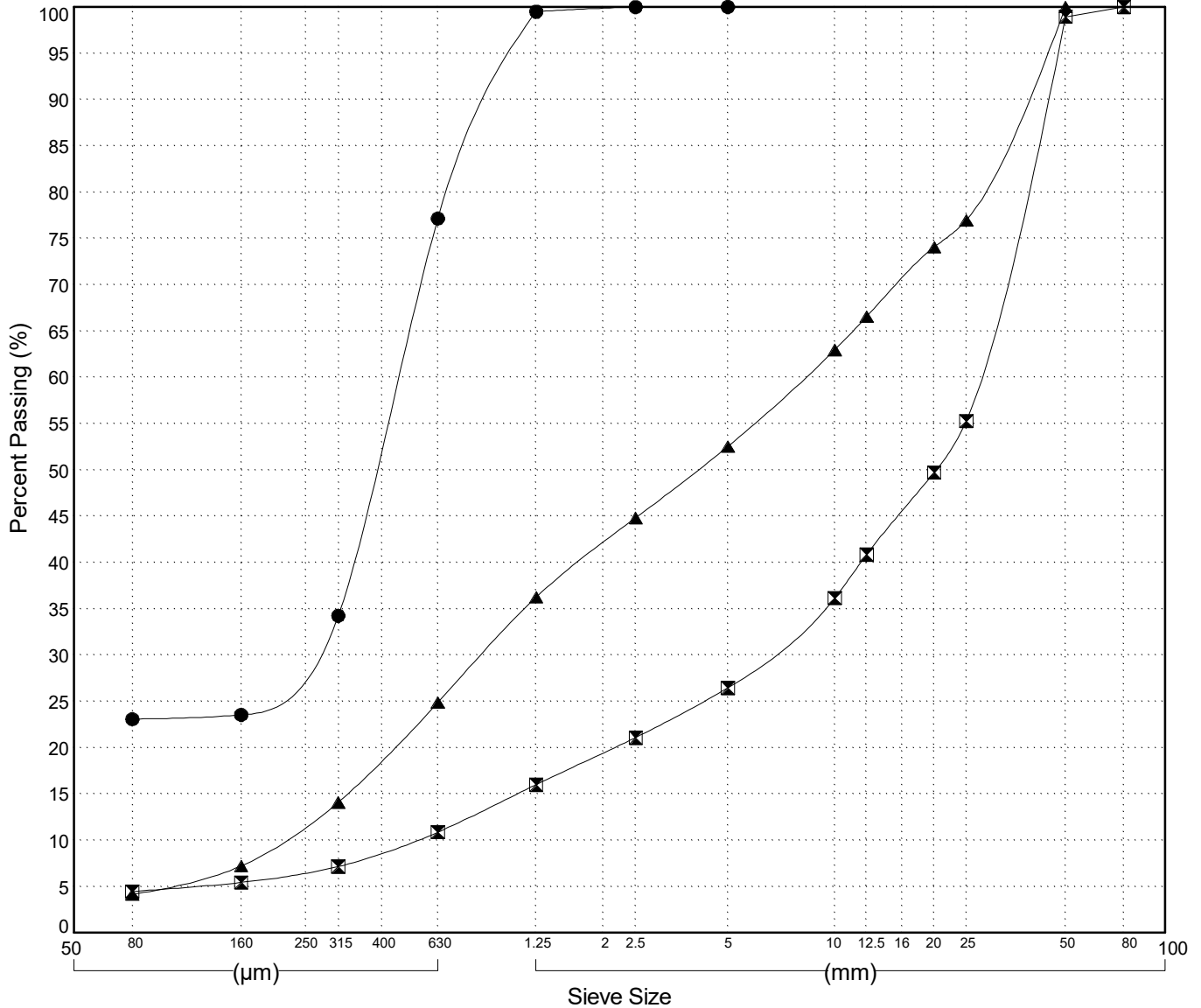
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5185
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851271m E548915.2m	ELEVATION: 753m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 100	100	0.2 to 0.6	SILTY SAND(SM)	76.7	NP	NP	NP		
☒ 101	101	1.0 to 1.4	WELL-GRADED GRAVEL with SAND(GW)	4.5	NP	NP	NP	2.7	50.4
▲ 102	102	3.6 to 4.0	POORLY GRADED SAND with GRAVEL(SP)	5.1	NP	NP	NP	0.4	38.5

Field#	Lab#	% PASSING	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	% Breakdown		
			Gravel	Sand	Silt	Clay													
● 100	100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	77.2	34.2	23.5	23.1	0.0	76.9	23.1
☒ 101	101	100.0	100.0	98.9	55.3	49.7	40.9	36.2	26.5	21.1	16.0	10.9	7.2	5.4	4.5		73.5	22.0	4.5
▲ 102	102	100.0	100.0	100.0	76.9	74.1	66.6	63.0	52.5	44.8	36.2	24.9	14.1	7.2	4.1		47.5	48.4	4.1

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



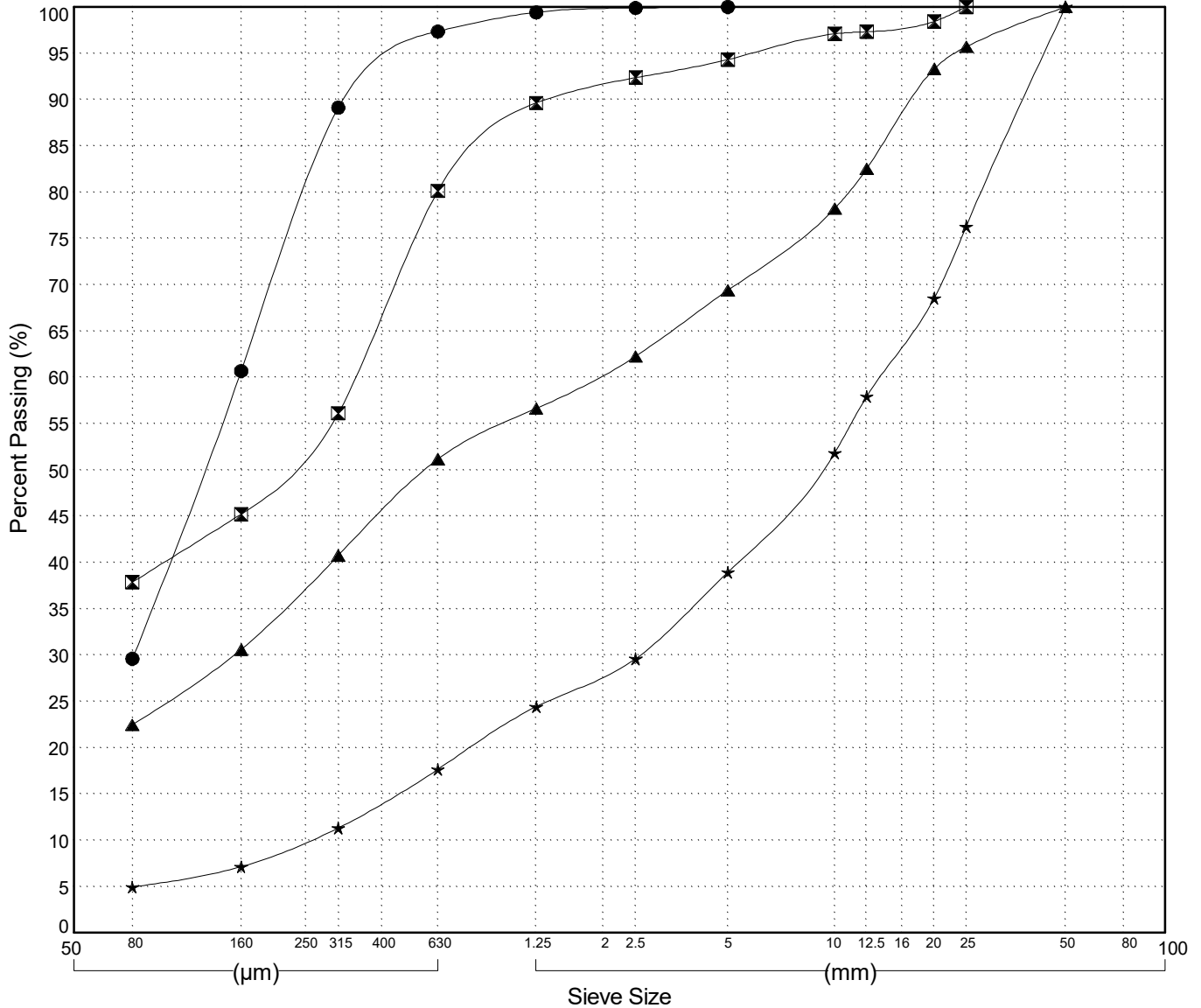
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5186
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851167.5m E548781.5m	ELEVATION: 758.4m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 103	103	0.2 to 0.6	SILTY SAND(SM)	37.7	NP	NP	NP		
☒ 104	104	0.8 to 1.2	SILTY SAND(SM)	32.0	NP	NP	NP		
▲ 105	105	1.4 to 1.8	SILTY SAND with GRAVEL(SM)	14.2	NP	NP	NP		
★ 106	106	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	4.4	NP	NP	NP	1.9	54.0

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
● 103	103	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.4	97.4	89.1	60.7	29.6	0.0	70.4	29.6	
☒ 104	104	100.0	100.0	100.0	100.0	98.4	97.3	97.1	94.3	92.4	89.6	80.1	56.1	45.2	37.9	5.7	56.4	37.9	
▲ 105	105	100.0	100.0	100.0	95.7	93.3	82.5	78.2	69.4	62.3	56.6	51.2	40.8	30.6	22.5	30.6	46.9	22.5	
★ 106	106	100.0	100.0	100.0	76.3	68.5	57.9	51.8	38.9	29.6	24.4	17.7	11.3	7.2	4.9	61.1	34.0	4.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



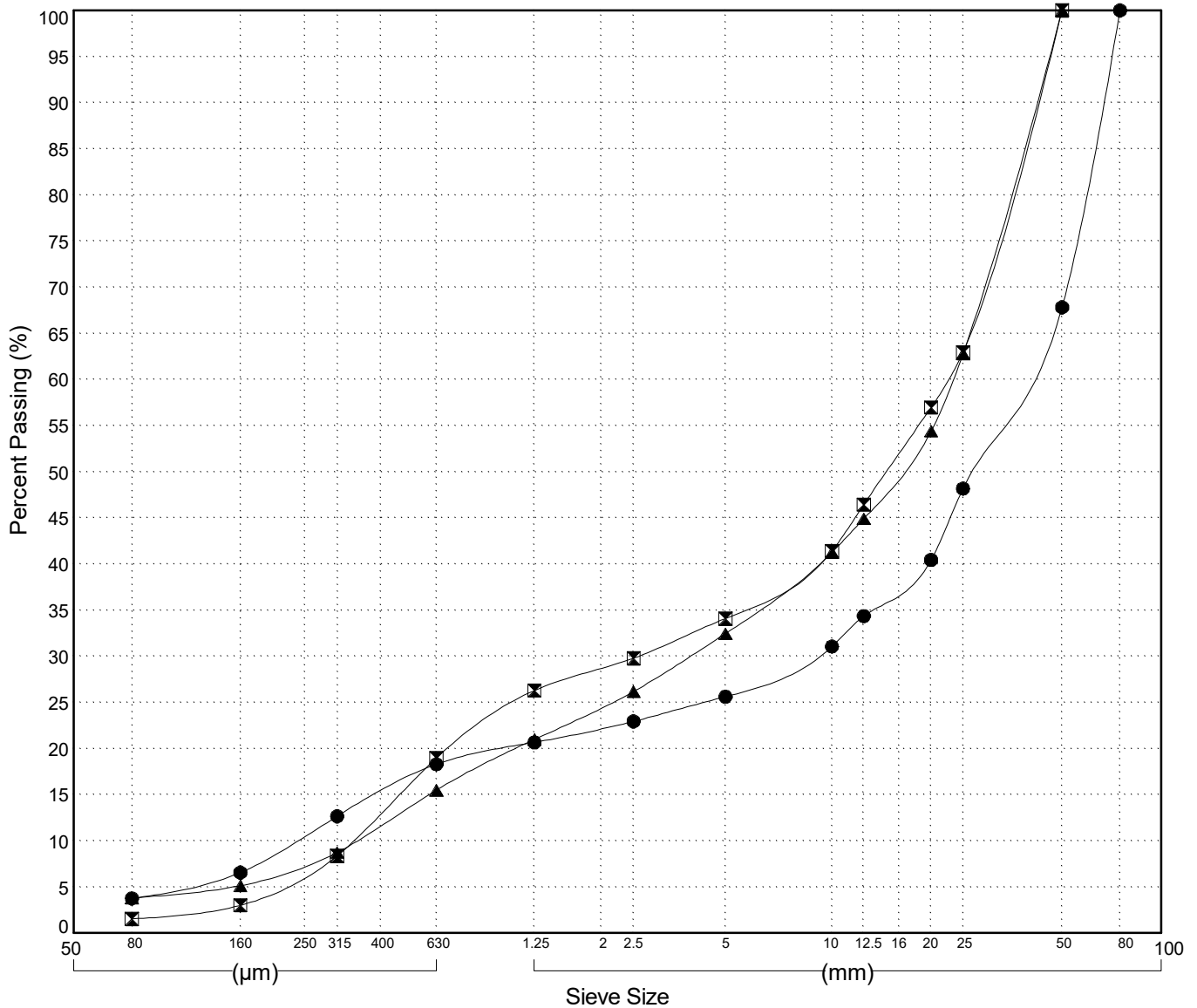
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5187
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6850719.7m E548545.2m	ELEVATION: 764.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 107	107	0.2 to 0.6	POORLY GRADED GRAVEL with SAND(GP)	1.7	NP	NP	NP	8.4	162.0
☒ 108	108	1.6 to 2.0	POORLY GRADED GRAVEL with SAND(GP)	4.5	NP	NP	NP	0.8	64.0
▲ 109	109	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	1.7	NP	NP	NP	1.6	64.8

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
● 107	107	100.0	100.0	67.8	48.2	40.4	34.4	31.1	25.6	23.0	20.7	18.3	12.7	6.6	3.8	74.4	21.9	3.8
☒ 108	108	100.0	100.0	100.0	62.9	57.0	46.4	41.4	34.1	29.8	26.3	19.0	8.4	3.0	1.5	65.9	32.6	1.5
▲ 109	109	100.0	100.0	100.0	62.8	54.4	44.9	41.2	32.5	26.2	21.0	15.5	8.7	5.1	3.8	67.5	28.6	3.8

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



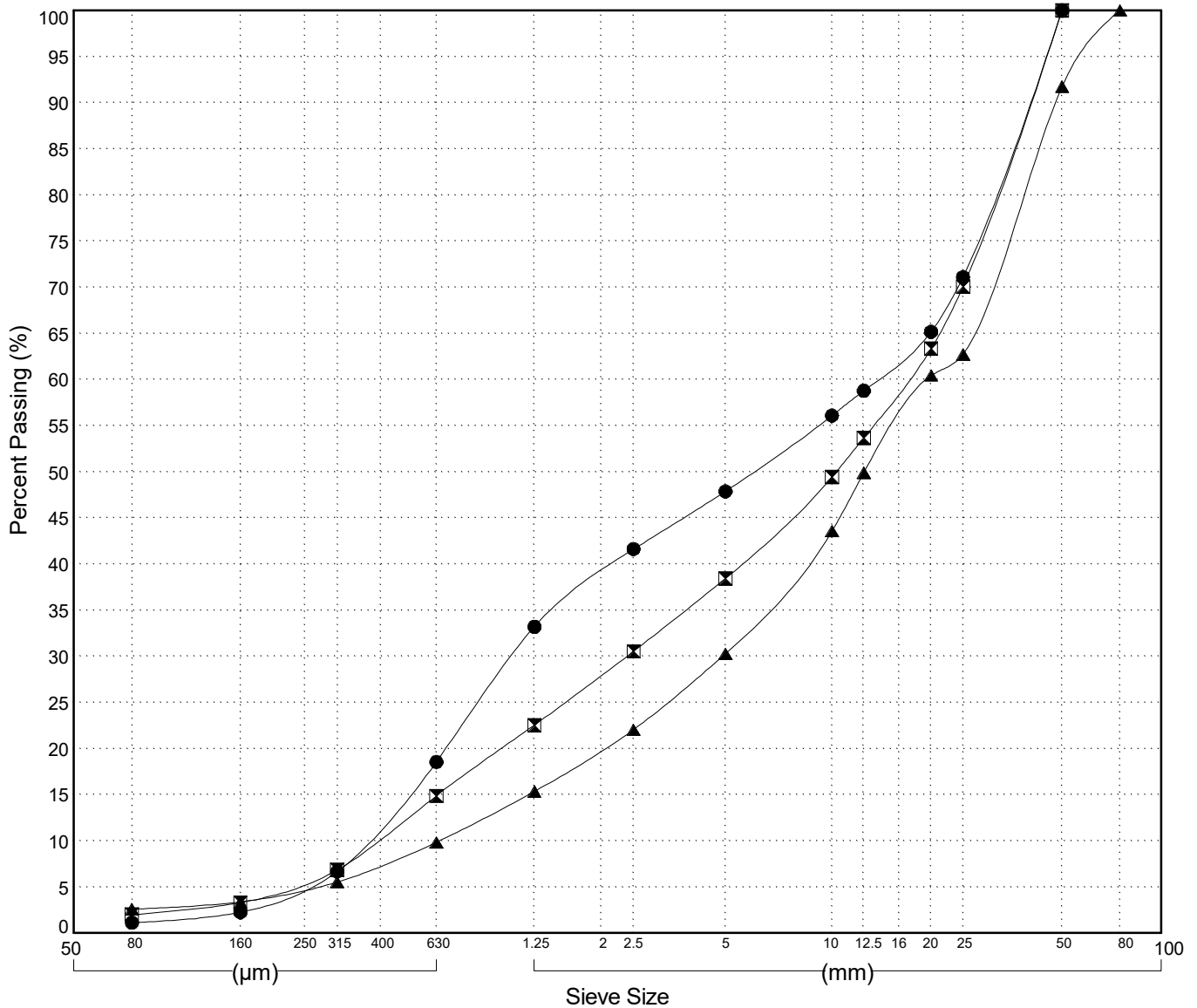
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5188
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6850593.9m E548447.6m	ELEVATION: 769.4m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 110	110	0.2 to 0.6	POORLY GRADED GRAVEL with SAND(GP)	2.7	NP	NP	NP	0.2	35.7
☒ 111	111	1.4 to 1.8	POORLY GRADED GRAVEL with SAND(GP)	1.8	NP	NP	NP	0.8	41.1
▲ 112	112	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	2.2	NP	NP	NP	1.7	30.5

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
● 110	110	100.0	100.0	100.0	100.0	71.1	65.2	58.8	56.1	47.9	41.6	33.2	18.6	6.7	2.3	1.1	52.1	46.7	1.1
☒ 111	111	100.0	100.0	100.0	70.1	63.3	53.7	49.4	38.4	30.5	22.5	14.9	6.8	3.3	2.0	61.6	36.4	2.0	
▲ 112	112	100.0	100.0	91.7	62.7	60.4	49.9	43.6	30.3	22.1	15.4	9.8	5.5	3.4	2.6	69.7	27.7	2.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

Pit # 115 F-03
Complete: 6/29/2015

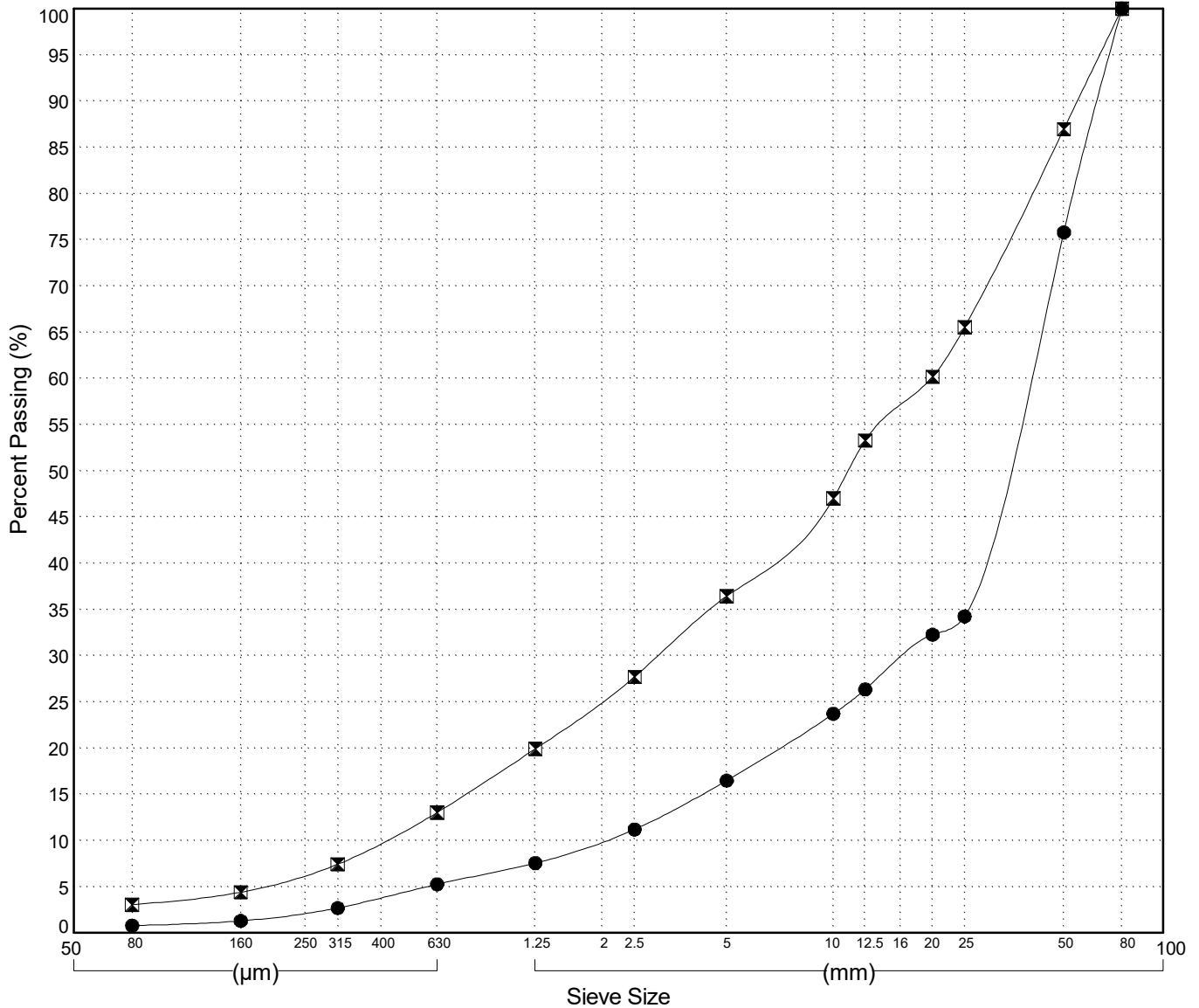
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5189
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6850506.7m E548307m	ELEVATION: 771.7m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 113	113	0.2 to 0.6	POORLY GRADED GRAVEL with SAND(GP)	2.9	NP	NP	NP	3.6	19.3
☒ 114	114	1.6 to 2.2	WELL-GRADED GRAVEL with SAND(GW)	2.7	NP	NP	NP	1.0	45.6
Field#	Lab#								
● 113	113								
☒ 114	114								

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
● 113	113	100.0	100.0	75.8	34.2	32.3	26.4	23.7	16.5	11.2	7.6	5.3	2.7	1.3	0.8	83.5	15.7	0.8	
☒ 114	114	100.0	100.0	87.0	65.5	60.2	53.3	47.0	36.4	27.7	19.9	13.0	7.4	4.4	3.1	63.6	33.4	3.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



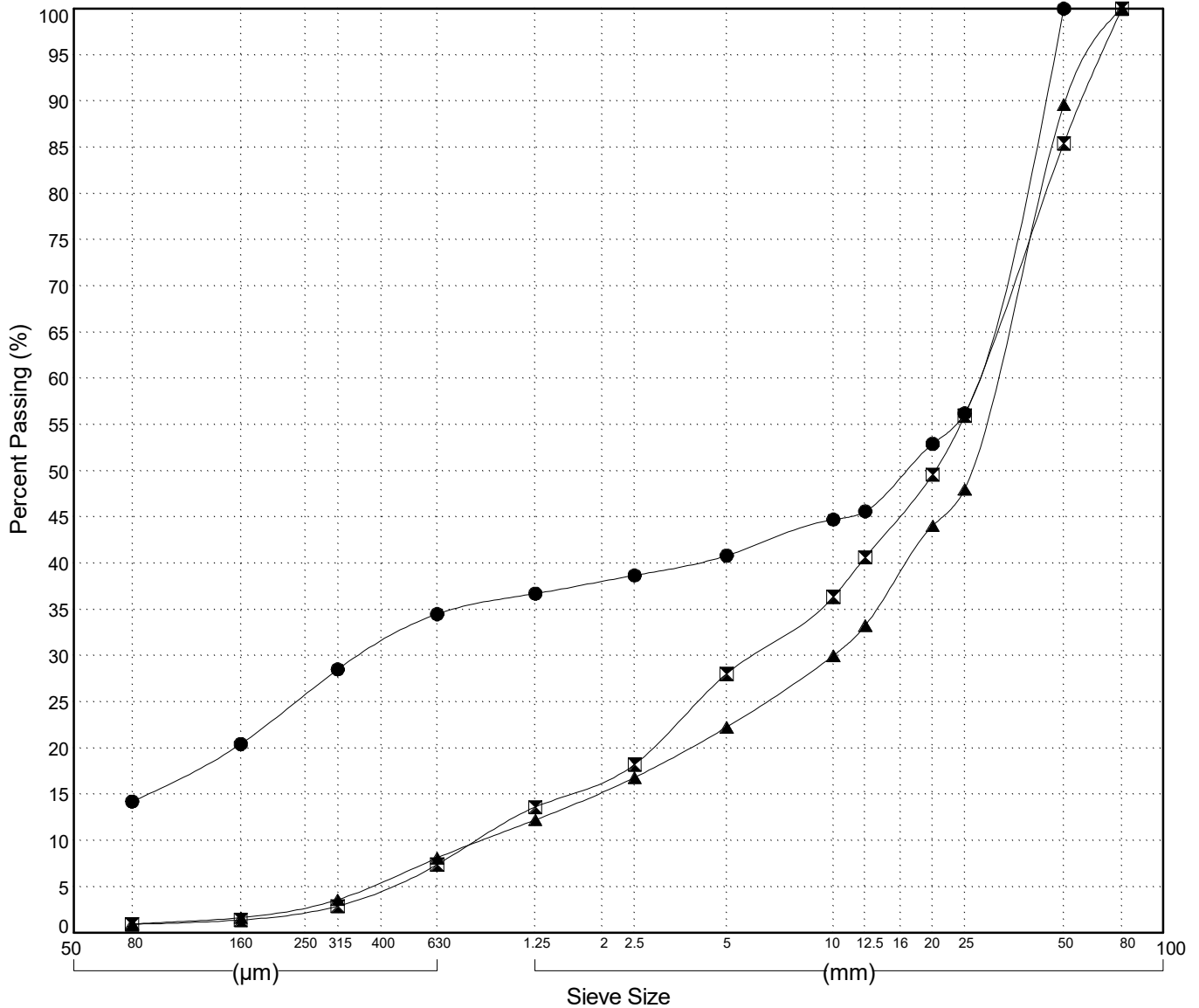
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5190
Ralph Hotte Contracting	Km 1782.5 lns	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6850365m E548174.2m	ELEVATION: 775.7m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 115	115	0.2 to 0.6	SILTY GRAVEL with SAND(GM)	5.1	NP	NP	NP		
☒ 116	116	0.8 to 1.2	WELL-GRADED GRAVEL with SAND(GW)	3.0	NP	NP	NP	1.4	32.8
▲ 117	117	3.4 to 3.8	POORLY GRADED GRAVEL with SAND(GP)	1.5	NP	NP	NP	3.8	35.4

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
● 115	115	100.0	100.0	100.0	100.0	56.2	52.9	45.6	44.7	40.8	38.7	36.7	34.5	28.5	20.4	14.2	59.2	26.6	14.2
☒ 116	116	100.0	100.0	85.4	56.0	49.6	40.6	36.4	28.0	18.2	13.6	7.4	2.9	1.4	0.9	72.0	27.1	0.9	
▲ 117	117	100.0	100.0	89.6	48.0	44.0	33.3	30.0	22.3	16.8	12.2	8.1	3.6	1.7	1.0	77.7	21.3	1.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

Pit # 115 F-03
Complete: 6/29/2015

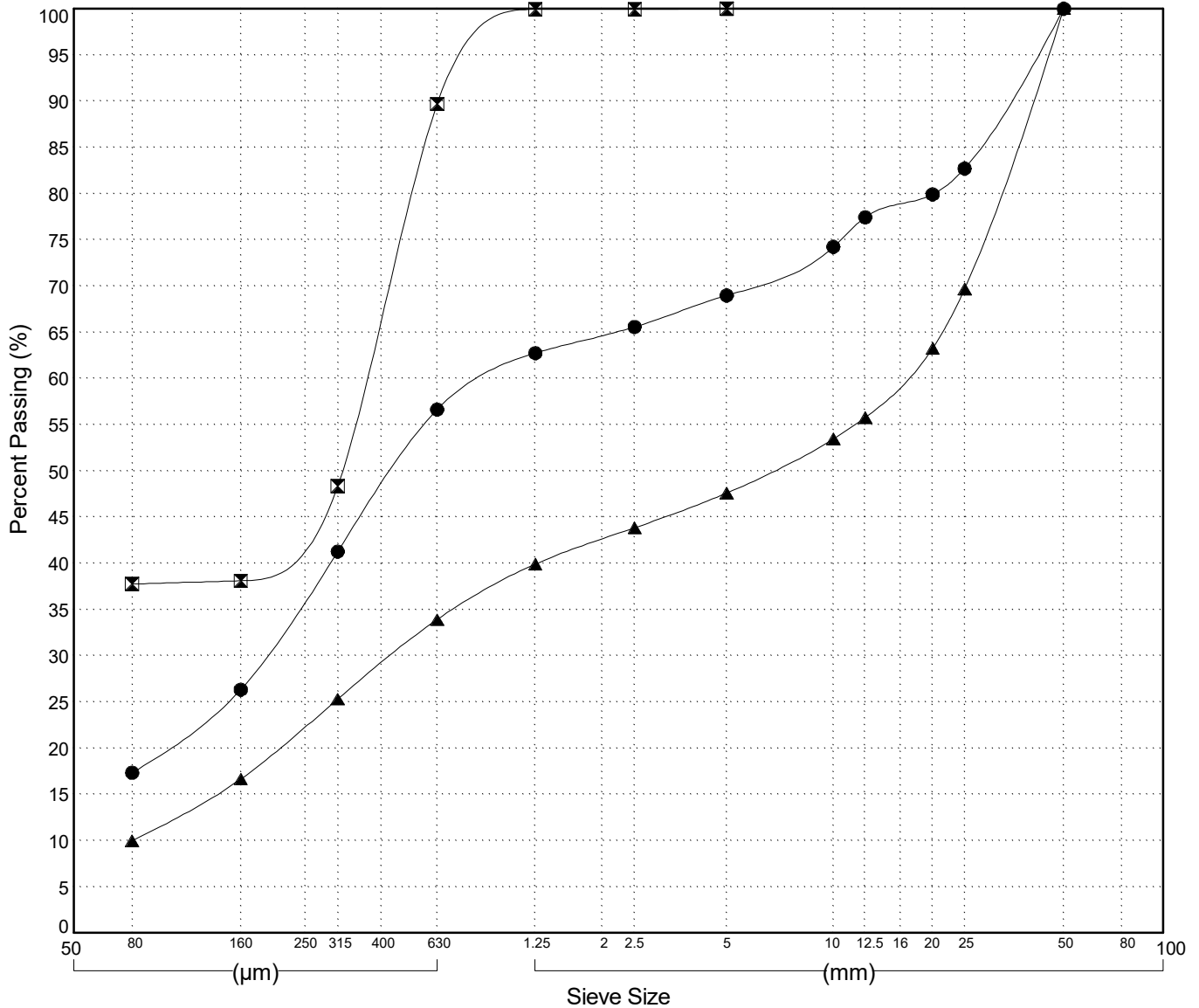
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5191
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6850269m E548021m	ELEVATION: 788.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 118	118	0.2 to 0.6	SILTY SAND with GRAVEL(SM)	7.8	NP	NP	NP		
☒ 119	119	0.8 to 1.2	SILTY SAND(SM)	24.7	NP	NP	NP		
▲ 120	120	1.6 to 2.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	6.4	NP	NP	NP	0.2	216.9

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
● 118	118	100.0	100.0	100.0	100.0	82.7	79.9	77.4	74.2	69.0	65.6	62.7	56.6	41.3	26.3	17.3	31.0	51.6	17.3	
☒ 119	119	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	89.7	48.4	38.1	37.8	0.0	62.2	37.8		
▲ 120	120	100.0	100.0	100.0	69.7	63.2	55.8	53.4	47.6	43.8	39.9	33.9	25.3	16.6	10.0	52.4	37.6	10.0		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



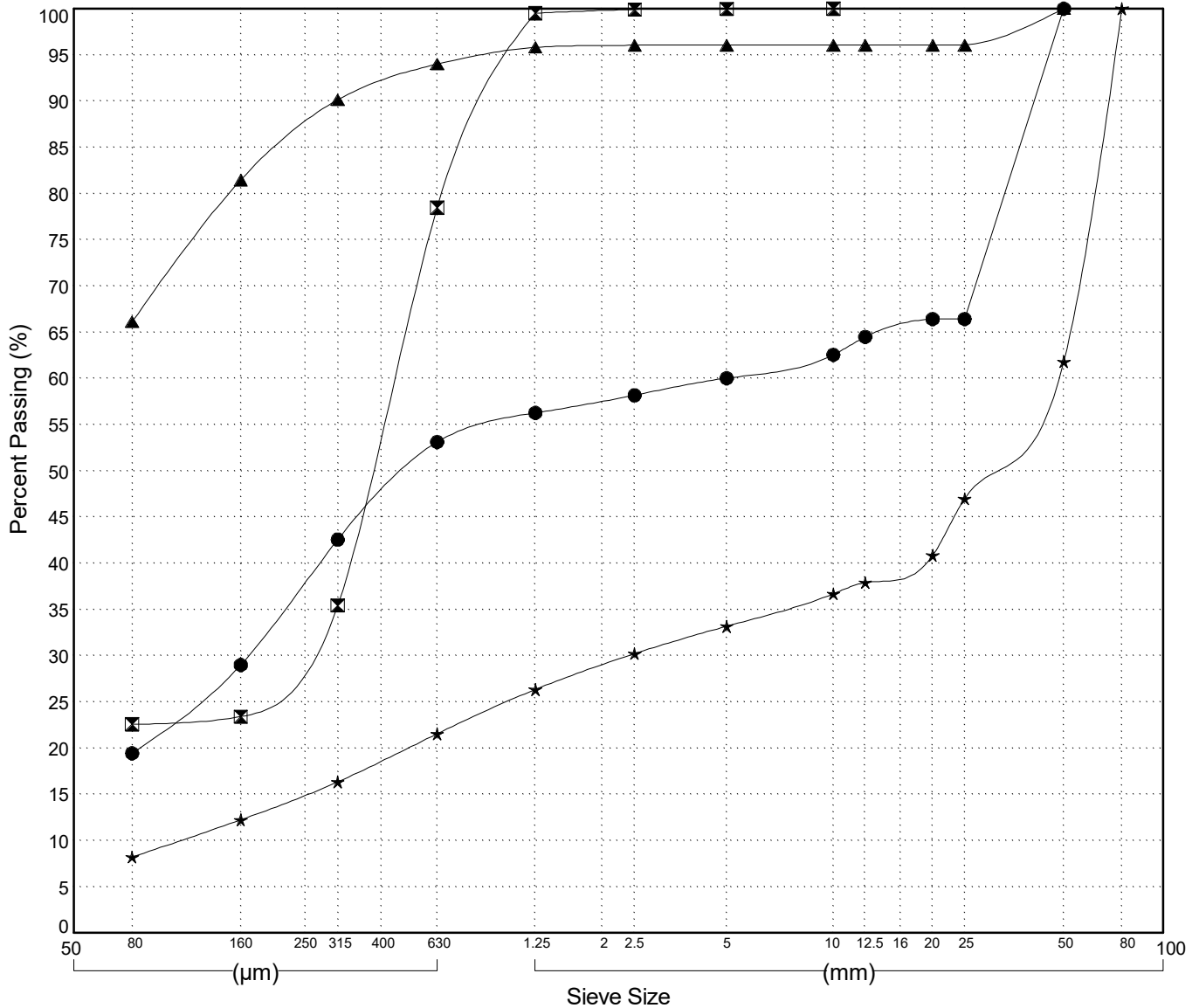
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5192
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6850158.2m E547859.4m	ELEVATION: 795.1m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 121	121	0.2 to 0.6	SILTY SAND with GRAVEL(SM)	5.4	NP	NP	NP		
☒ 122	122	0.8 to 1.2	SILTY SAND(SM)	37.9	NP	NP	NP		
▲ 123	123	1.6 to 2.0	SANDY SILT(ML)	26.5	NP	NP	NP		
★ 124	124	2.4 to 2.8	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	3.5	NP	NP	NP	1.2	437.8

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
● 121	121	100.0	100.0	100.0	66.4	66.4	64.5	62.6	60.0	58.2	56.3	53.1	42.6	29.0	19.4	40.0	40.6	19.4	
☒ 122	122	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.5	78.5	35.4	23.4	22.6	0.0	77.4	22.6	
▲ 123	123	100.0	100.0	100.0	96.0	96.0	96.0	96.0	96.0	96.0	95.8	94.0	90.1	81.5	66.1	4.0	29.9	66.1	
★ 124	124	100.0	100.0	61.8	47.0	40.9	37.9	36.7	33.2	30.2	26.3	21.6	16.4	12.2	8.2	66.8	25.0	8.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



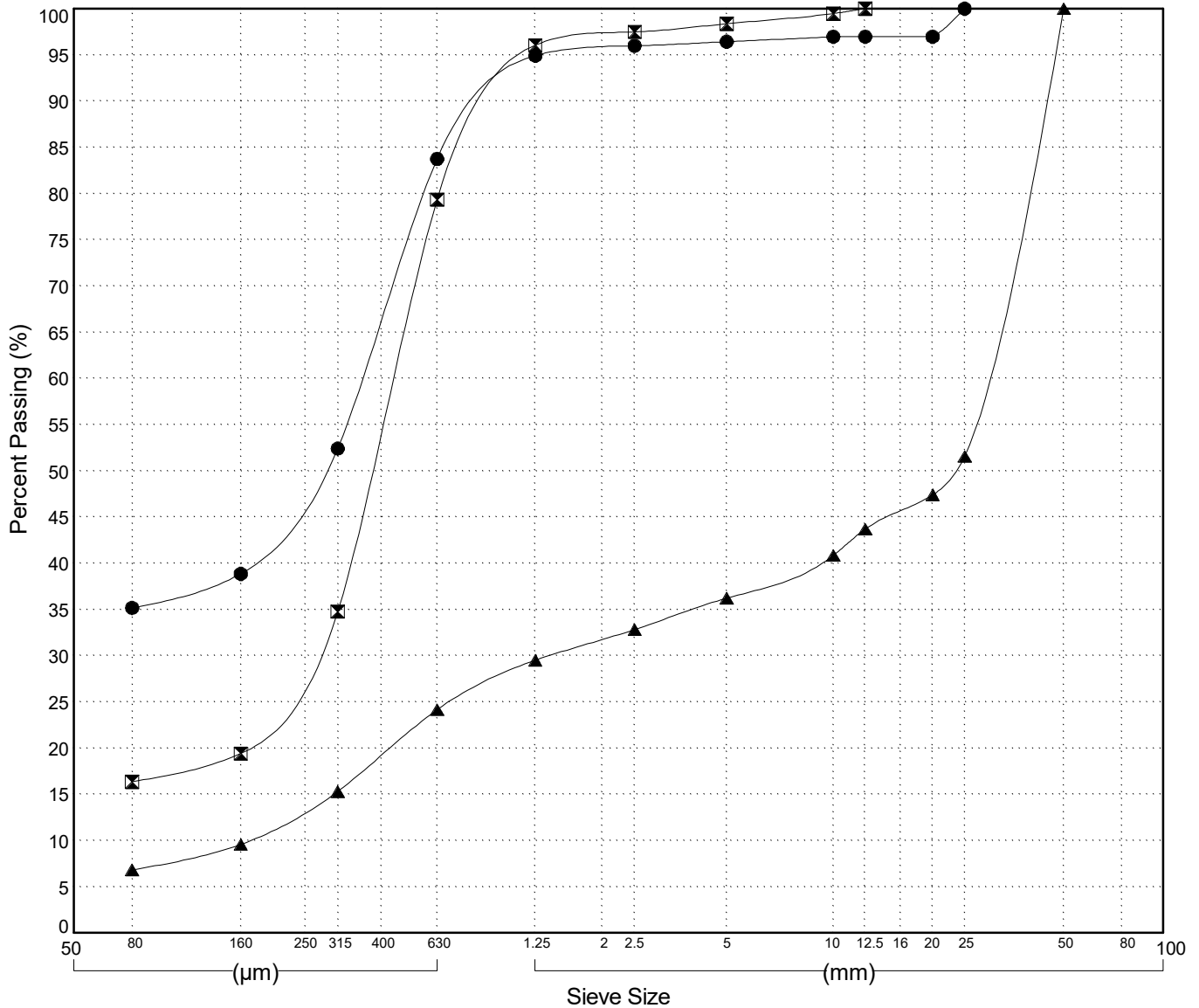
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5193
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6850050.6m E547677.4m	ELEVATION: 799.5m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 125	125	0.2 to 0.6	SILTY SAND(SM)	24.5	NP	NP	NP		
☒ 126	126	1.4 to 1.8	SILTY SAND(SM)	25.2	NP	NP	NP		
▲ 127	127	2.2 to 2.6	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	7.9	NP	NP	NP	0.4	167.9

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
● 125	125	100.0	100.0	100.0	100.0	97.0	97.0	97.0	96.4	96.0	94.9	83.7	52.4	38.9	35.2	3.6	61.2	35.2
☒ 126	126	100.0	100.0	100.0	100.0	100.0	100.0	99.5	98.4	97.5	96.0	79.3	34.8	19.4	16.4	1.6	82.0	16.4
▲ 127	127	100.0	100.0	100.0	51.6	47.4	43.7	40.9	36.2	32.8	29.5	24.2	15.3	9.6	6.8	63.8	29.4	6.8

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



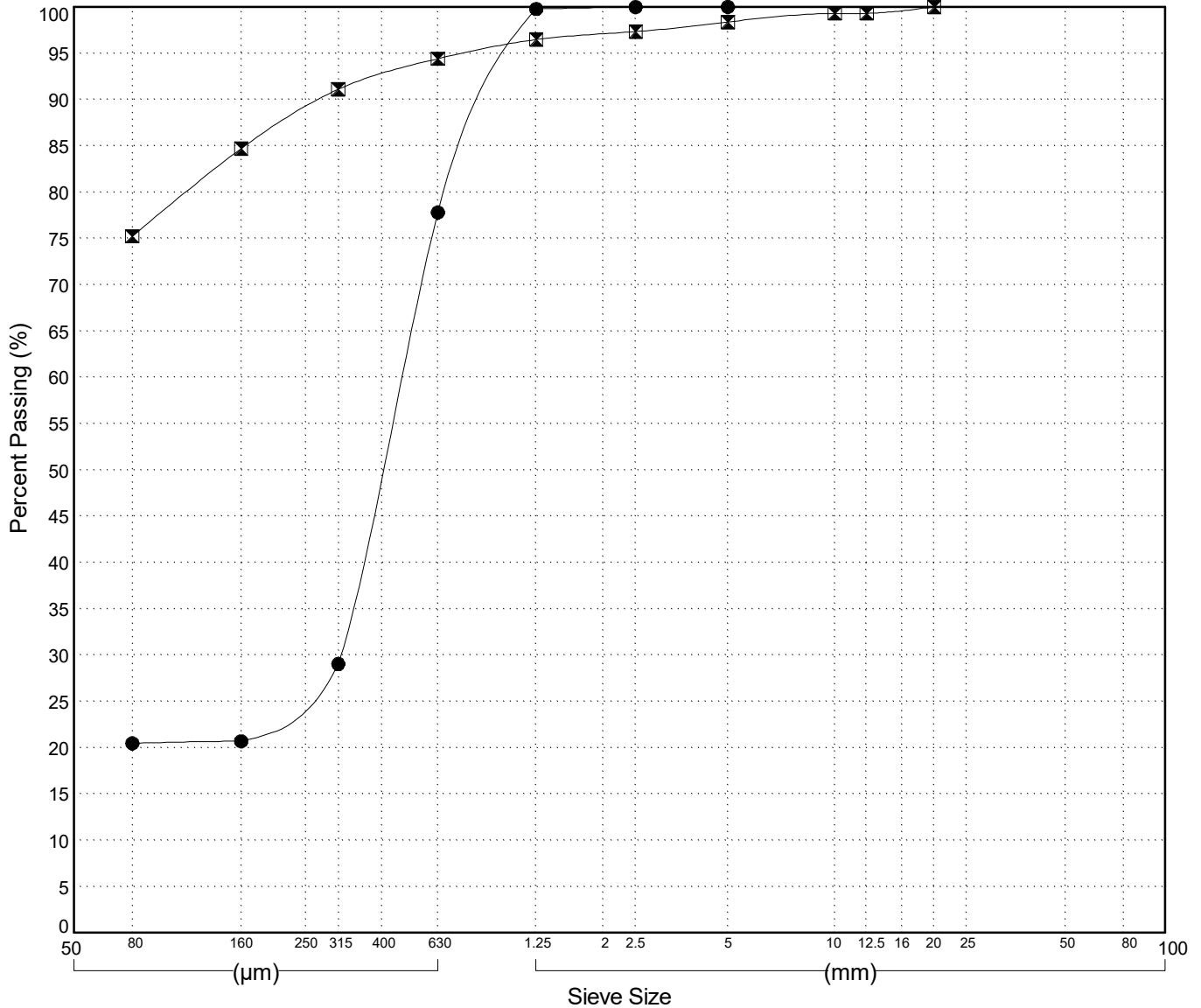
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5194
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6850042m E547399.9m	ELEVATION: 808.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 128	128	0.2 to 0.6	SILTY SAND(SM)	44.9	NP	NP	NP		
☒ 129	129	1.2 to 1.6	SILT with SAND(ML)	104.3	NP	NP	NP		
Field#	Lab#								
● 128	128								
☒ 129	129								

Field#	Lab#	% PASSING	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	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 128	128	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	77.8	29.0	20.7	20.5	0.0	79.5	20.5	
☒ 129	129	100.0	100.0	100.0	100.0	100.0	99.3	99.3	98.4	97.3	96.5	94.4	91.1	84.7	75.2		1.6	23.1	75.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



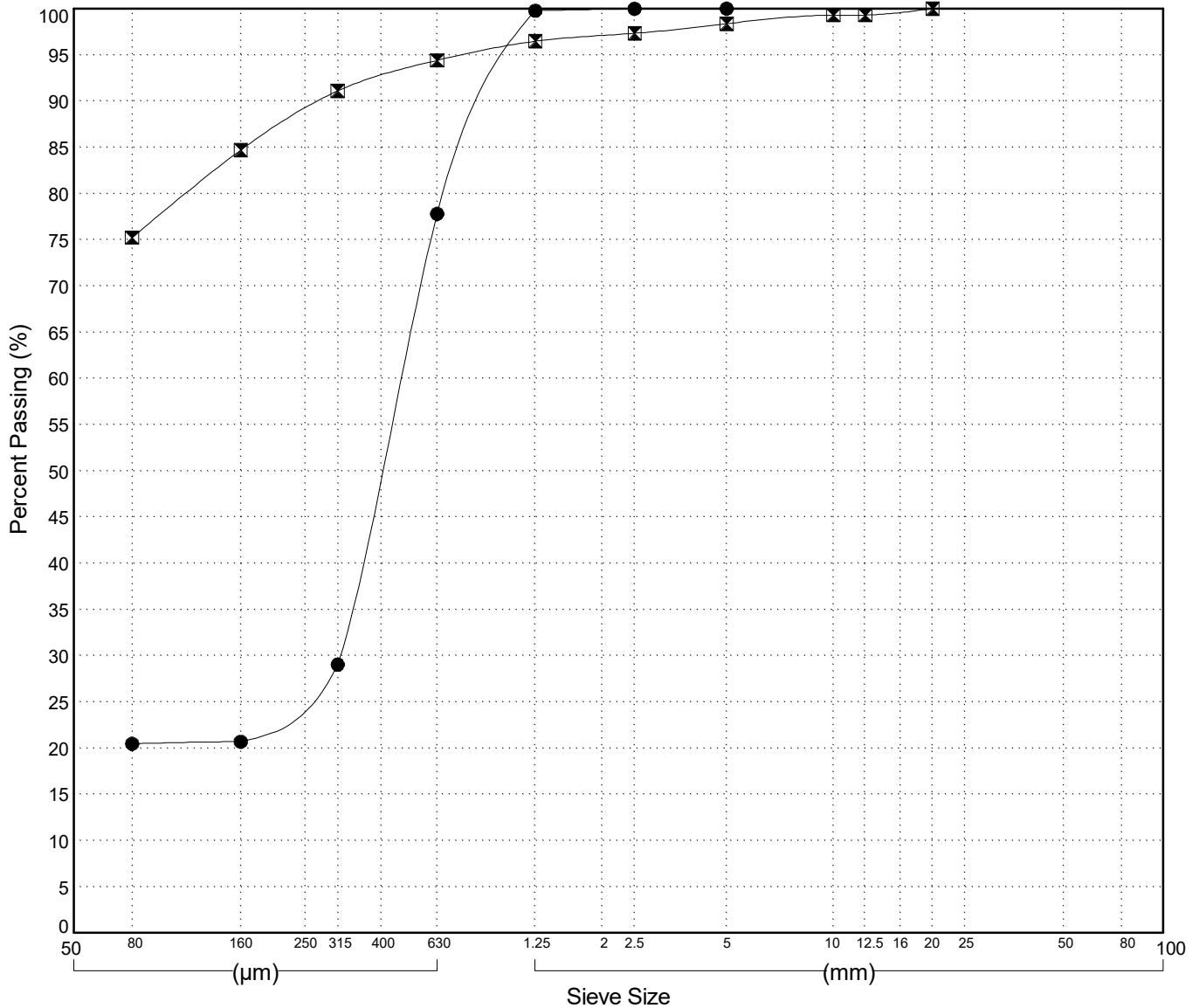
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5194
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6850042m E547399.9m	ELEVATION: 808.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 128	128	0.2 to 0.6	SILTY SAND(SM)	44.9	NP	NP	NP		
☒ 129	129	1.2 to 1.6	SILT with SAND(ML)	104.3	NP	NP	NP		
Field#	Lab#								
● 128	128								
☒ 129	129								

Field#	Lab#	% PASSING	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	% Breakdown			
																	Gravel	Sand	Silt	Clay
● 128	128	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	77.8	29.0	20.7	20.5	0.0	79.5	20.5	
☒ 129	129	100.0	100.0	100.0	100.0	100.0	99.3	99.3	98.4	97.3	96.5	94.4	91.1	84.7	75.2		1.6	23.1	75.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

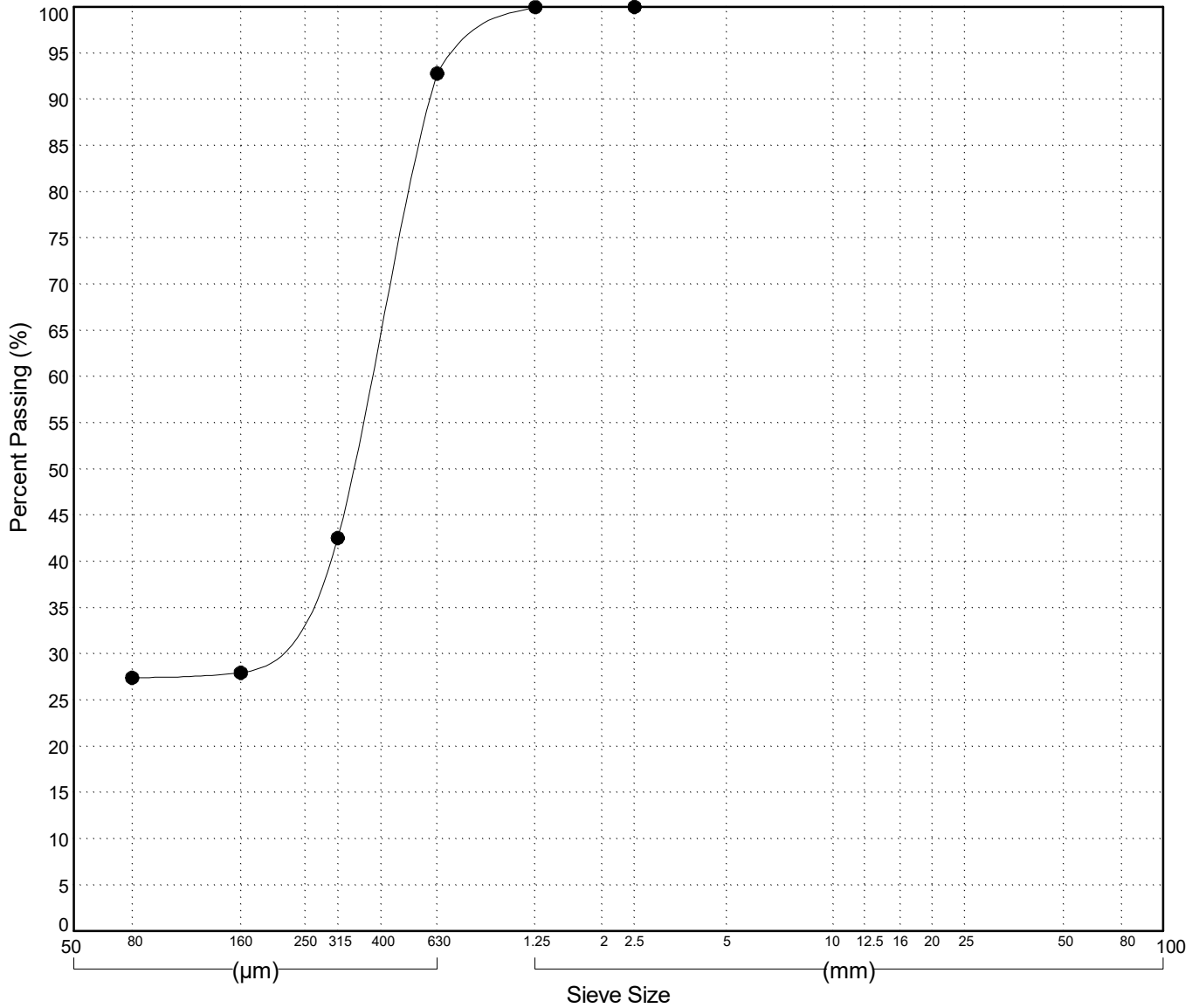


GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5195
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6850162.8m E547398.2m	ELEVATION: 802.3m

Master Revised July 2013

Field#	Lab#	Depth	Classification											%H2O	LL	PL	PI	Cc	Cu		
● 130	130	0.2 to 0.6	SILTY SAND(SM)											33.6	NP	NP	NP				
Field#	Lab#		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	%Breakdown				
● 130	130	% PASSING	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.8	42.6	28.0	27.4	0.0	72.6	27.4		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

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COMPILED BY: M. Jubinville
REVIEWED BY: R. Stilwell

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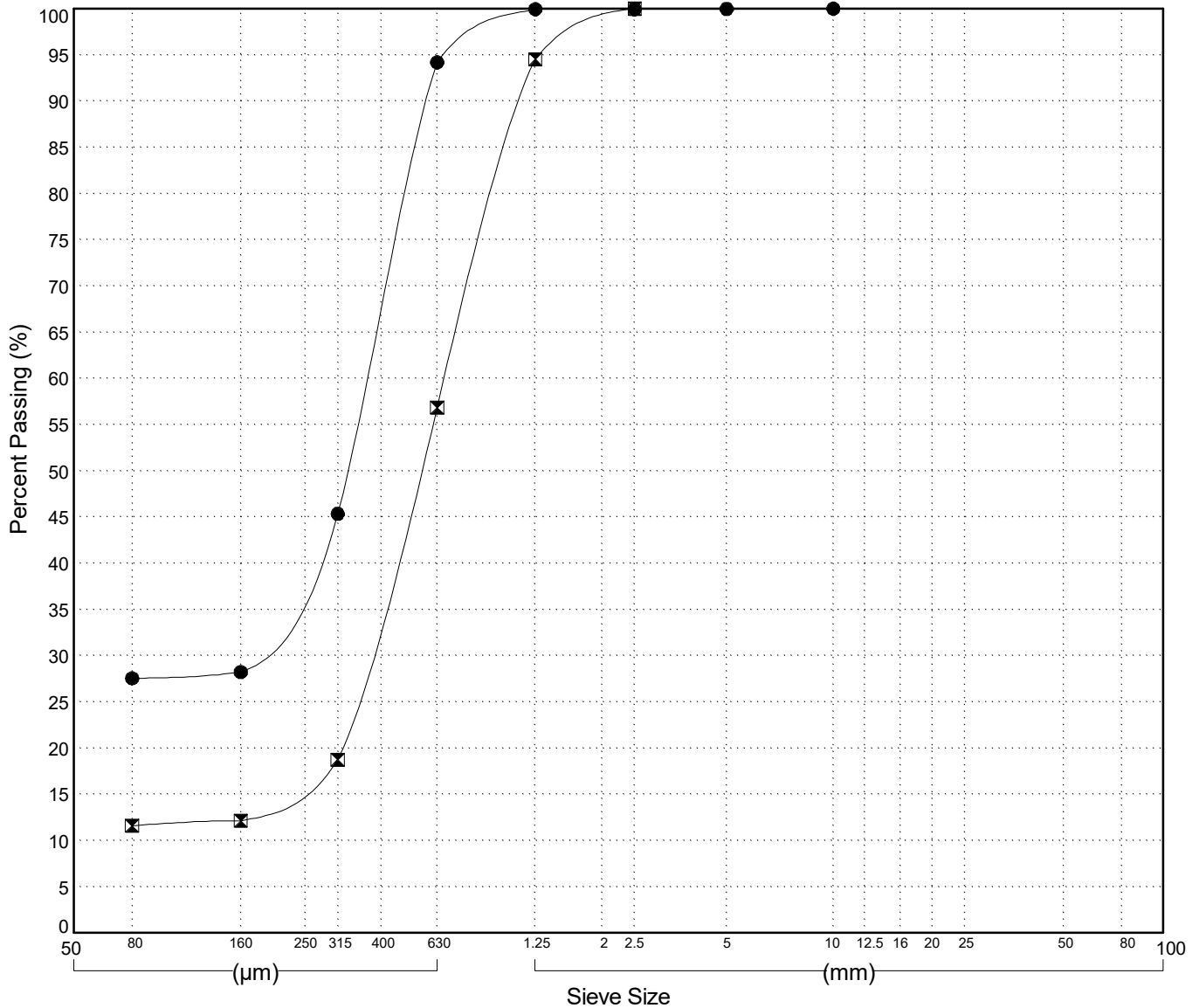
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5196
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6849923m E547449.7m	ELEVATION: 802.4m

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Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 131	131	0.0 to 0.2	SILTY SAND(SM)	30.3	NP	NP	NP		
☒ 132	132	0.4 to 0.8	POORLY GRADED SAND with SILT(SP-SM)	64.2	NP	NP	NP	27.5	81.8
Field#	Lab#								
● 131	131								
☒ 132	132								

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		
● 131	131	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	94.2	45.4	28.2	27.6	0.0	72.4	27.6			
☒ 132	132	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.5	56.8	18.7	12.2	11.6	0.0	88.4	11.6				

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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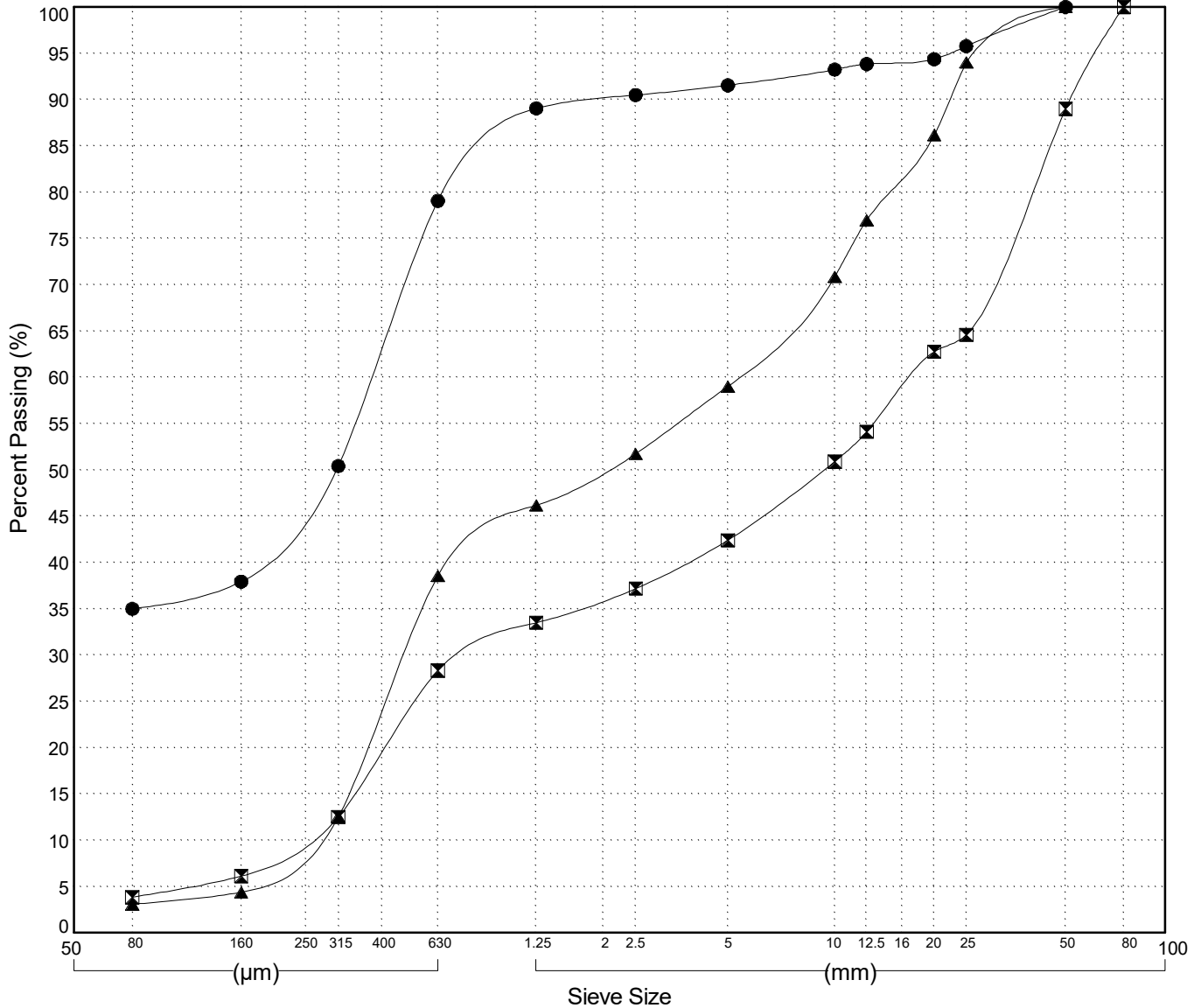
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5197
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6851990.5m E550030.2m	ELEVATION: 694.7m

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Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 133	133	0.2 to 0.6	SILTY SAND(SM)	34.5	NP	NP	NP		
☒ 134	134	2.0 to 2.4	POORLY GRADED GRAVEL with SAND(GP)	4.1	NP	NP	NP	0.1	71.4
▲ 135	135	3.4 to 3.8	POORLY GRADED SAND with GRAVEL(SP)	12.3	NP	NP	NP	0.2	19.8

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
● 133	133	100.0	100.0	100.0	95.8	94.4	93.8	93.2	91.5	90.5	89.0	79.1	50.4	37.9	35.0	8.5	56.5	35.0
☒ 134	134	100.0	100.0	89.0	64.6	62.8	54.1	50.9	42.4	37.2	33.5	28.3	12.5	6.1	3.9	57.6	38.5	3.9
▲ 135	135	100.0	100.0	100.0	94.0	86.2	77.0	70.8	59.0	51.7	46.2	38.5	12.5	4.4	3.1	41.0	55.9	3.1

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



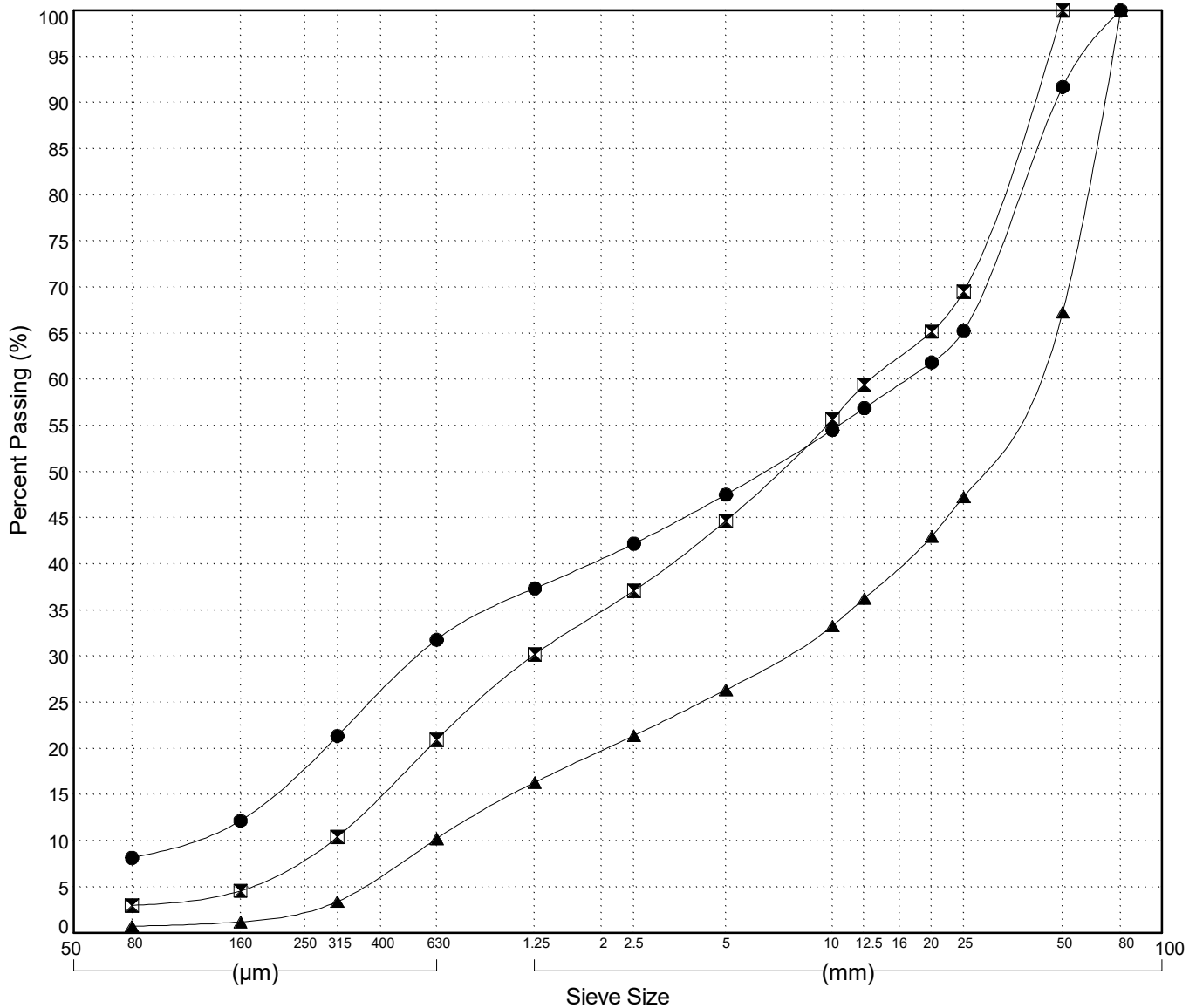
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5198
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6852045.4m E550088.1m	ELEVATION: 695.2m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 136	136	0.2 to 0.6	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	3.7	NP	NP	NP	0.2	158.3
☒ 137	137	1.8 to 2.2	POORLY GRADED GRAVEL with SAND(GP)	2.7	NP	NP	NP	0.4	43.6
▲ 138	138	3.2 to 3.6	WELL-GRADED GRAVEL with SAND(GW)	1.6	NP	NP	NP	2.1	63.1

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
● 136	136	100.0	100.0	100.0	91.7	65.3	61.8	56.9	54.5	47.5	42.2	37.4	31.8	21.4	12.2	8.2	52.5	39.4	8.2
☒ 137	137	100.0	100.0	100.0	69.5	65.2	59.4	55.7	44.7	37.1	30.2	20.9	10.4	4.6	3.0	55.3	41.7	3.0	
▲ 138	138	100.0	100.0	67.3	47.3	43.0	36.3	33.3	26.4	21.4	16.3	10.2	3.4	1.2	0.8	73.6	25.6	0.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



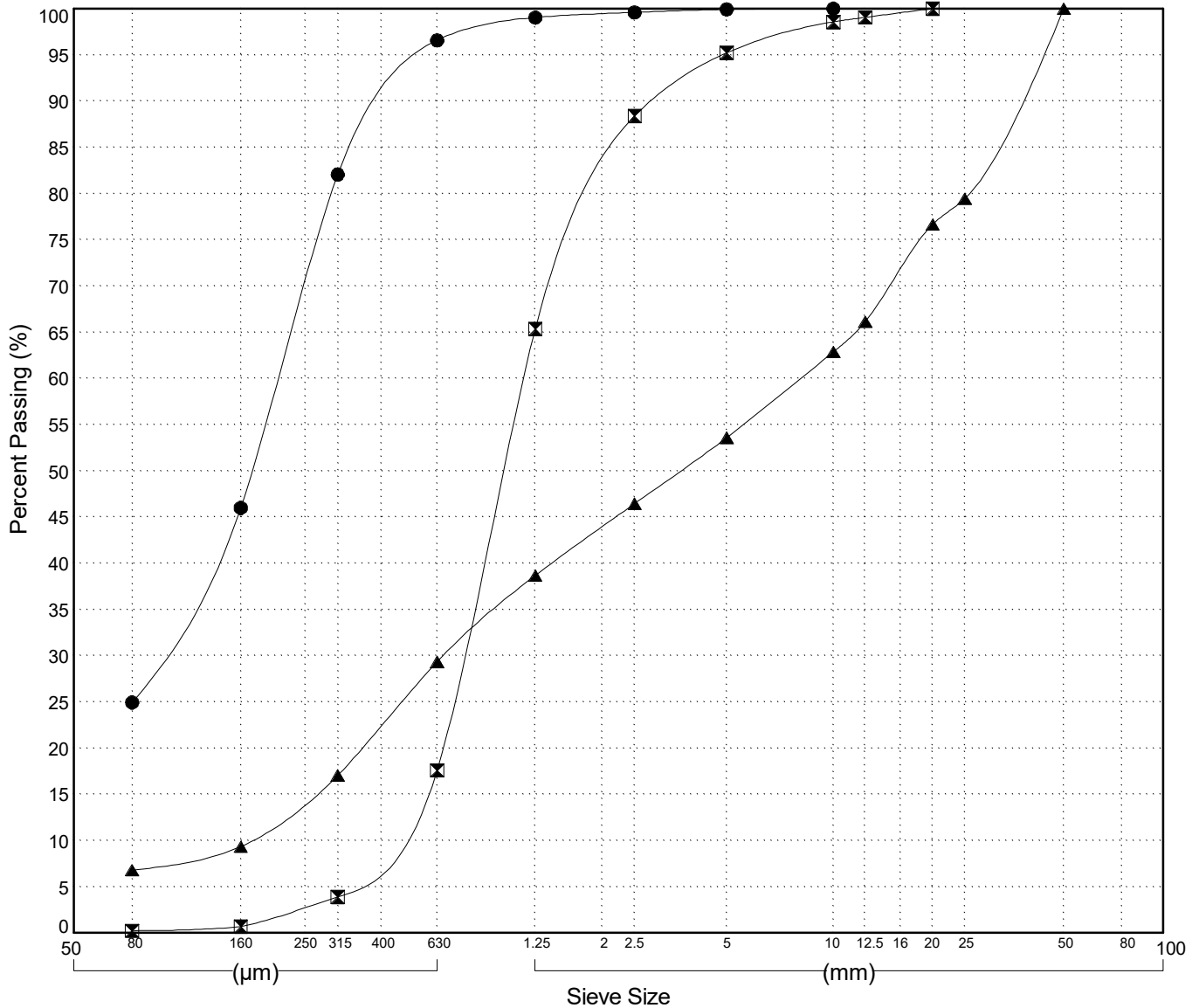
GRAIN SIZE ANALYSIS	Edith Creek	SOURCE/TP#: 859-5199
Ralph Hotte Contracting	Km 1782.5 lhs	PROJECT NO: 552-202101-0905-0661-3
CAT Excavator 315C	Coordinates: Z07V N6852103.6m E550173.5m	ELEVATION: 691.8m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 139	139	0.2 to 0.6	SILTY SAND(SM)	5.9	NP	NP	NP		
☒ 140	140	1.4 to 1.8	POORLY GRADED SAND(SP)	7.4	NP	NP	NP	1.1	2.7
▲ 141	141	3.0 to 3.4	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	13.6	NP	NP	NP	0.3	46.9

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
● 139	139	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	99.0	96.6	82.1	46.0	24.9	0.1	75.0	24.9	
☒ 140	140	100.0	100.0	100.0	100.0	100.0	99.1	98.6	95.2	88.4	65.3	17.6	3.9	0.7	0.2	4.8	95.0	0.2	
▲ 141	141	100.0	100.0	100.0	79.4	76.7	66.1	62.9	53.6	46.4	38.7	29.3	17.1	9.3	6.8	46.4	46.8	6.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



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