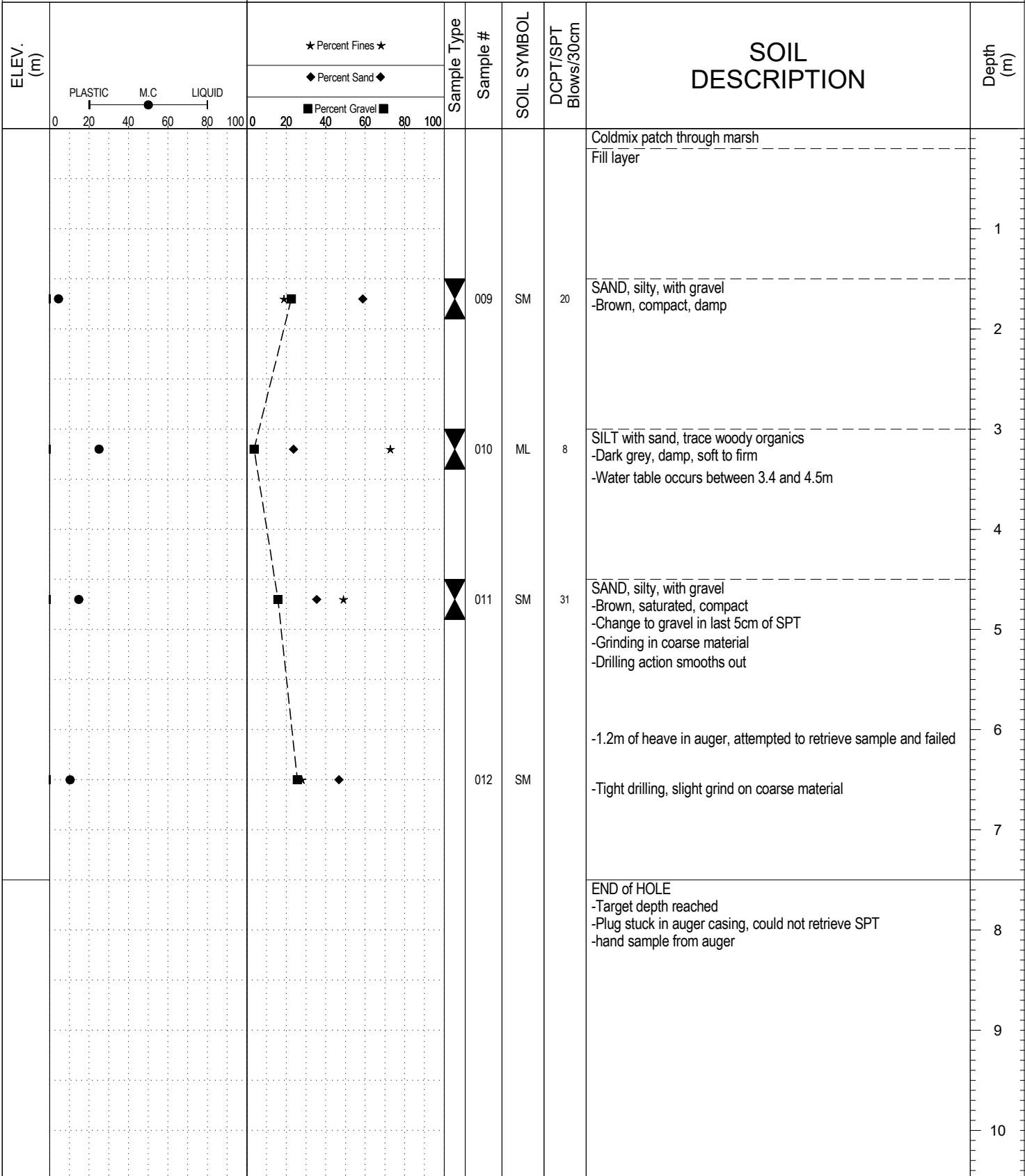


SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5412					
Gateway Drilling		Klondike Hwy Drilliry, km 488		PROJECT NO: 552-202102					
Auger		Coordinates: Z08N N6987556m E425657m		ELEVATION: m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)		★ Percent Fines ★		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
		◆ Percent Sand ◆							
					001	SP-SM		BST -Fill layer SAND with silt and gravel -Brown, moist, loose to compact Coarser material, some grinding	1
								END of HOLE -Target depth for sensor reached. hole sloughed in to 60cm. The moisture sensors will be placed at 0.3m and 1m, Geoff will attempt to clear the hole for installation.	3
									4
									5
				LOGGED BY: T.Danyluk		Termination Depth: 3m			
				COMPILED BY: S.Peterson		Complete: 9/21/2017 2:45:00 PM			
				REVIEWED BY: R.Stiwell		Pit #: Page 1 of 1			

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5414				
Gateway Drilling		Klondike Hwy Drilliry, km 634.0		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7085208m E348111m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	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					
							BST surface, bottom of cut to left and right	
							-Fill layer	
					006	SM	14	1
							SAND, silty -Light brown, damp, loose	2
					007	SM	28	3
							-Light brown sand interbedded with orange sand, suggests chemical weathering	4
					008	SM	21	5
							-Light brown	
							END of HOLE -Target depth reached	

SUBSURFACE EXPLORATION AND TEST REPORT	Klondike Highway North	SOURCE/TP#: 922-5415
Gateway Drilling	Klondike Hwy Drilliry, km 634.3	PROJECT NO: 552-202102
Auger	Coordinates: Z08N N7085516m E347830m	ELEVATION: m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

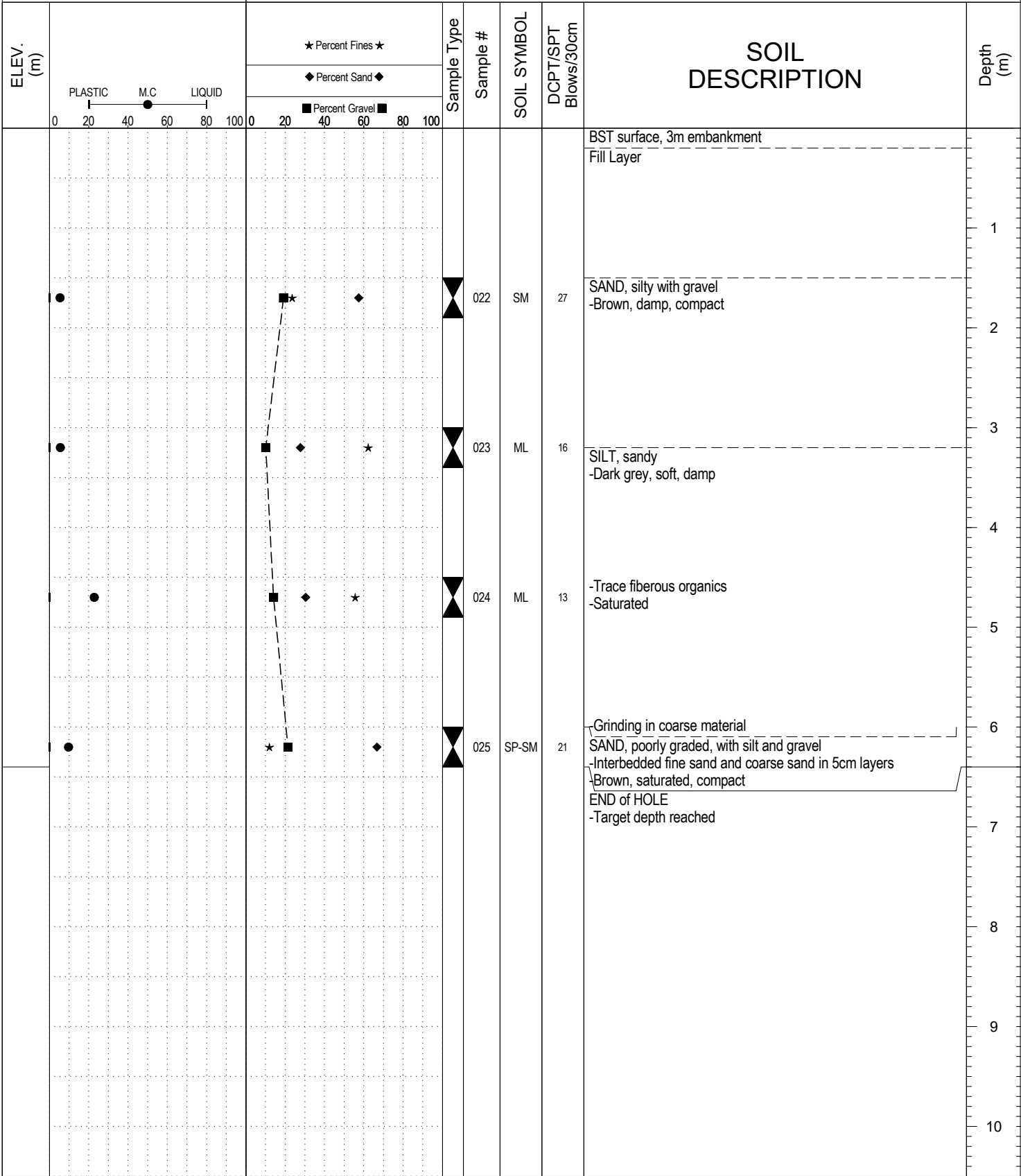


SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5416				
Gateway Drilling		Klondike Hwy Drilliry, km 634.9		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7085930m E347525m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
							BST surface through spruce and alder mixed stand, 2.5m embankment -Fill layer	1
	●	◆	▲	013	SM	29	SAND, silty with gravel -Brown, damp, compact	2
	●	◆	▲	014	SM	18	SILT with sand -Brown, damp, firm, 8cm return -Angular coarse fraction -Water table between 3.4 and 4.5m	3
	●	◆	▲	015	GP-GM	32	GRAVEL, poorly graded, with silt and sand -Brown, saturated, compact to dense, angular	5
	●	◆	▲	016	SP-SM	38	SAND, poorly graded, with silt and gravel -Interbedded layers of fine sand and washed sand with gravel -Brown, dense, wet	6
							END of HOLE -Target depth reached	7
								8
								9
								10

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5417																	
Gateway Drilling		Klondike Hwy Drilliry, km 634.7		PROJECT NO: 552-202102																	
Auger		Coordinates: Z08N N7085783m E347634m		ELEVATION: m																	
SAMPLE TYPE		UNDISTURBED		DCPT																	
		AUGER		BULK																	
		SPT		CORE																	
ELEV. (m)	PLASTIC	M.C	LIQUID	0	20	40	60	80	100	0	20	40	60	80	100	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
																				BST surface through swamp, 4m embankment Fill Layer	1
																	017	SM	42	SAND, silty with gravel -Brown, moist, compact to dense -Grinding in coarse material -Drilling smooths out	2
																	018	SM	18	-Compact, damp	3
																	019	GW-GM	39	GRAVEL, well-graded with silt and sand -Brown, moist, dense, angular -Water table between 4.9 and 6m	5
																	020	SM	23	SAND, silty with gravel -Brown, wet, compact -Grinding, 10cm rocks working up hole -Very heavy grinding	7
																	021	SP-SM	19	-SAND, poorly graded, with silt -Brown, saturated, compact -15cm of fine sand, followed by 20cm of coarse sand in spoon -15cm of heave in auger END of HOLE -Target depth reached	8
																					9
																					10

SUBSURFACE EXPLORATION AND TEST REPORT	Klondike Highway North	SOURCE/TP#: 922-5418
Gateway Drilling	Klondike Hwy Drilliry, km 634.5	PROJECT NO: 552-202102
Auger	Coordinates: Z08N N7085653m E347726m	ELEVATION: m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5419						
Gateway Drilling		Klondike Hwy Drilliry, km 635.1		PROJECT NO: 552-202102						
Auger		Coordinates: Z08N N7086080m E347396m		ELEVATION: m						
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE			
ELEV. (m)	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)
									BST surface through alder and spruce mixed stand, 1m embankment -Fill layer	1
						026	ML	8	SILT with sand -Brown, damp, soft -Brown fades to ocher	2
						027	ML	26	-Sandy -Brown to light brown, stiff	3
									-heavy grinding, very tight drilling -SAND, silty with gravel -Brown, dry, very dense	4
						028	SM	49		
									END of HOLE -Target depth reached	5
						LOGGED BY: T.Danyluk		Termination Depth: 4.9m		
						COMPILED BY: S.Peterson		Complete: 9/23/2017 4:30:00 PM		
						REVIEWED BY: R.Stilwell		Pit #: _____ Page 1 of 1		

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North	SOURCE/TP#: 922-5423
Gateway Drilling		Klondike Hwy Drilliry, km 635.9	PROJECT NO: 552-202102
Auger		Coordinates: Z08N N7086449m E346723m	ELEVATION: m

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)
							BST surface through alder stand, 1.5m embankment	
							-Fill layer	
							-No return, suspect sand based on drill cuttings	1
					038	9		2
							SILT -Brown, damp, stiff	3
					039	15	ML	4
							SAND, silty with gravel -Light brown, dry, very dense	5
					040	74	SM	6
							END of HOLE -Target depth reached	7

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5424				
Gateway Drilling		Klondike Hwy Drilliry, km 636.1		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7086538m E346523m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	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					
							BST surface through mixed alder/spruce stand, 1.5m embankment -Fill layer	
					041	8	-Smooth drilling -SILT with sand -Brown, damp, soft, trace rounded gravel	1
					042	33	SAND, poorly graded, with silt and gravel -Light brown, damp, dense to very dense	3
					043	21	-Bouncing and grinding in coarse material -Smooth drilling SAND, silty with gravel -Brown, compact, moist	4
							END of HOLE -Target depth reached	5

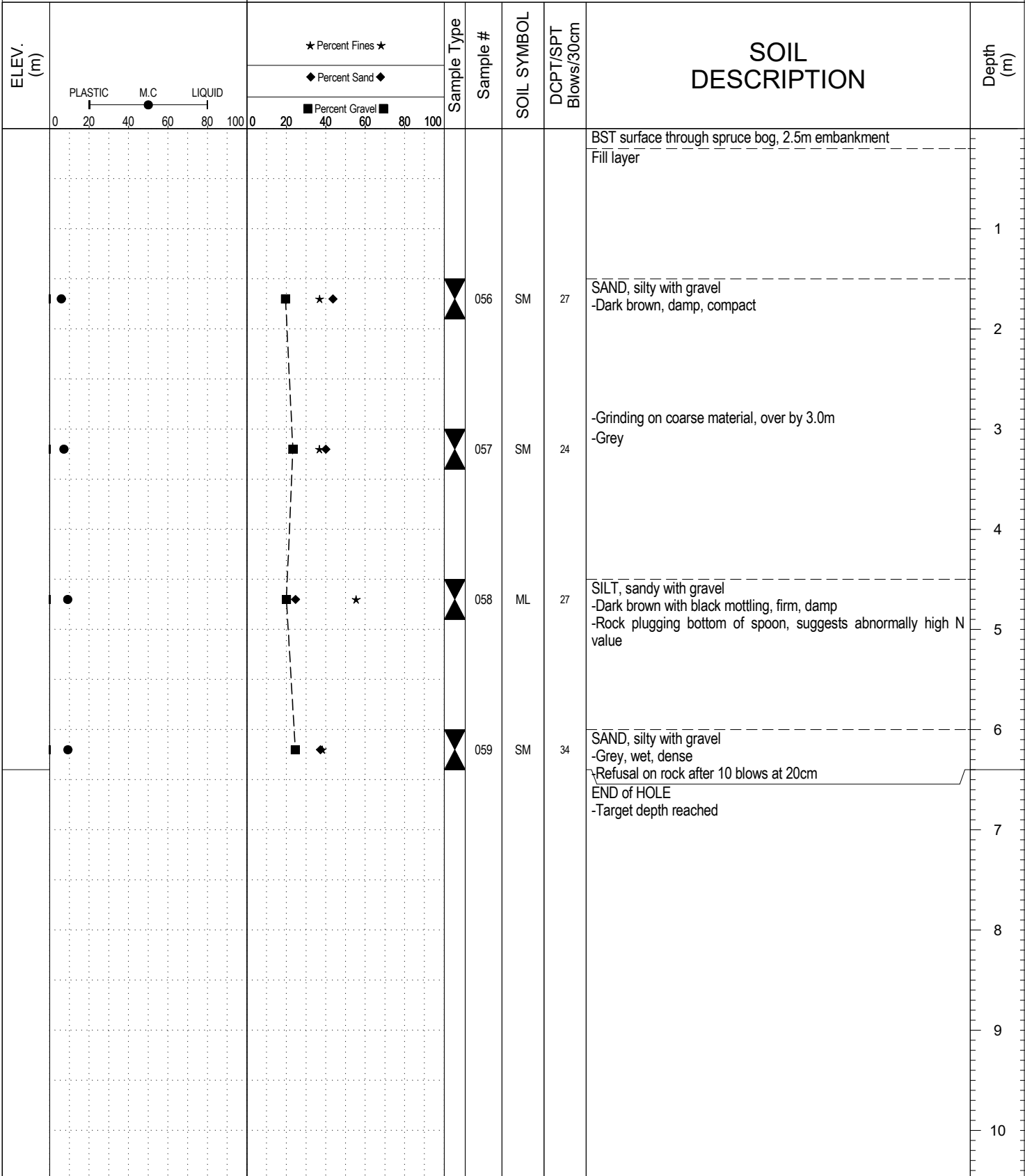
SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5426				
Gateway Drilling		Klondike Hwy Drilliry, km 636.5		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7086697m E346159m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input 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							
							BST surface through spruce stand, 1m embankment	
							Fill layer	
								1
					047	ML	9 SILT, sandy -Brown, damp, compact	2
					048	SM	25 SAND, silty with gravel -Brown, compact to dense, dry	3
					049	SM	30 dense, damp	4
							END of HOLE -Target depth reached	5

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5427				
Gateway Drilling		Klondike Hwy Drilliry, km 636.7		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7086769m E345978m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
							BST surface through mixed alder and spruce stand	
							Fill layer	
								1
					050	SM	30	
							SAND, silty with gravel -Brown, damp, dense	
							-Smooth drilling	2
								3
					051	SP-SM	34	
							-Poorly graded	
								4
					052	GM	48	
							GRAVEL, silty with sand -Light brown, dry, very dense	
							SILT with sand -Brown, damp, hard	
							END of HOLE -Target depth reached	5

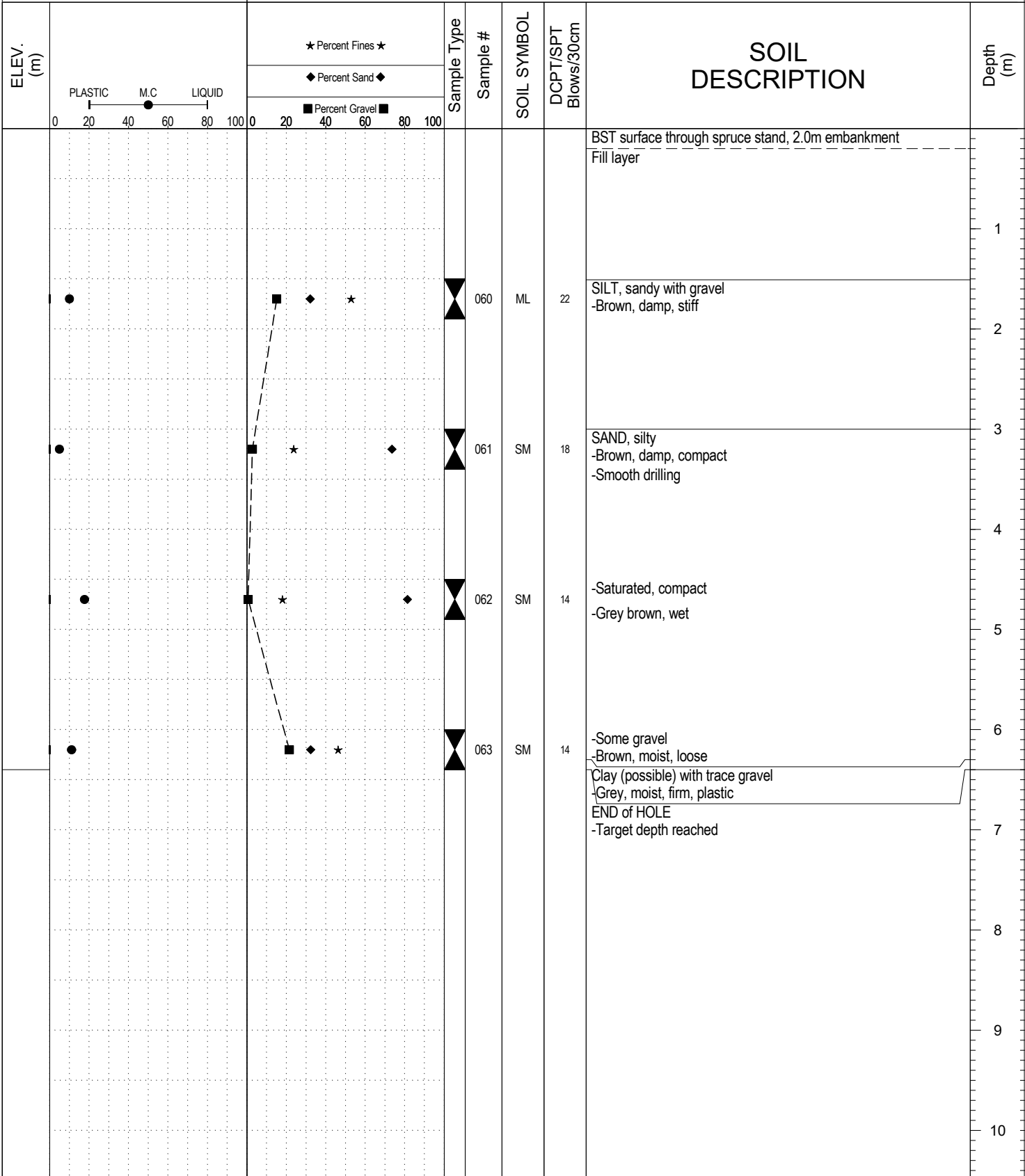
SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5428						
Gateway Drilling		Klondike Hwy Drilliry, km 636.9		PROJECT NO: 552-202102						
Auger		Coordinates: Z08N N7086893m E345788m		ELEVATION: m						
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE			
ELEV. (m)	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)
									BST surface through spruce bog, 2.5m embankment	
									Fill layer	
						053	SM	6	SAND, silty with gravel -Ocher, loose, damp -Chemical weathering suspected	1
										2
						054	ML	9	SILT, sandy -Grey, saturated, soft	3
										4
						055	ML	29	SILT, sandy -Grey, hard, frozen - visible ice crystals (Vx), 2cm layers -Interbedded with ICE (Vs) -Clear, white, 0.5-1cm layers	
									END of HOLE -Target depth reached	5

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North	SOURCE/TP#: 922-5429
Gateway Drilling		Klondike Hwy Drilliry, km 637.1	PROJECT NO: 552-202102
Auger		Coordinates: Z08N N7087010m E345639m	ELEVATION: m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



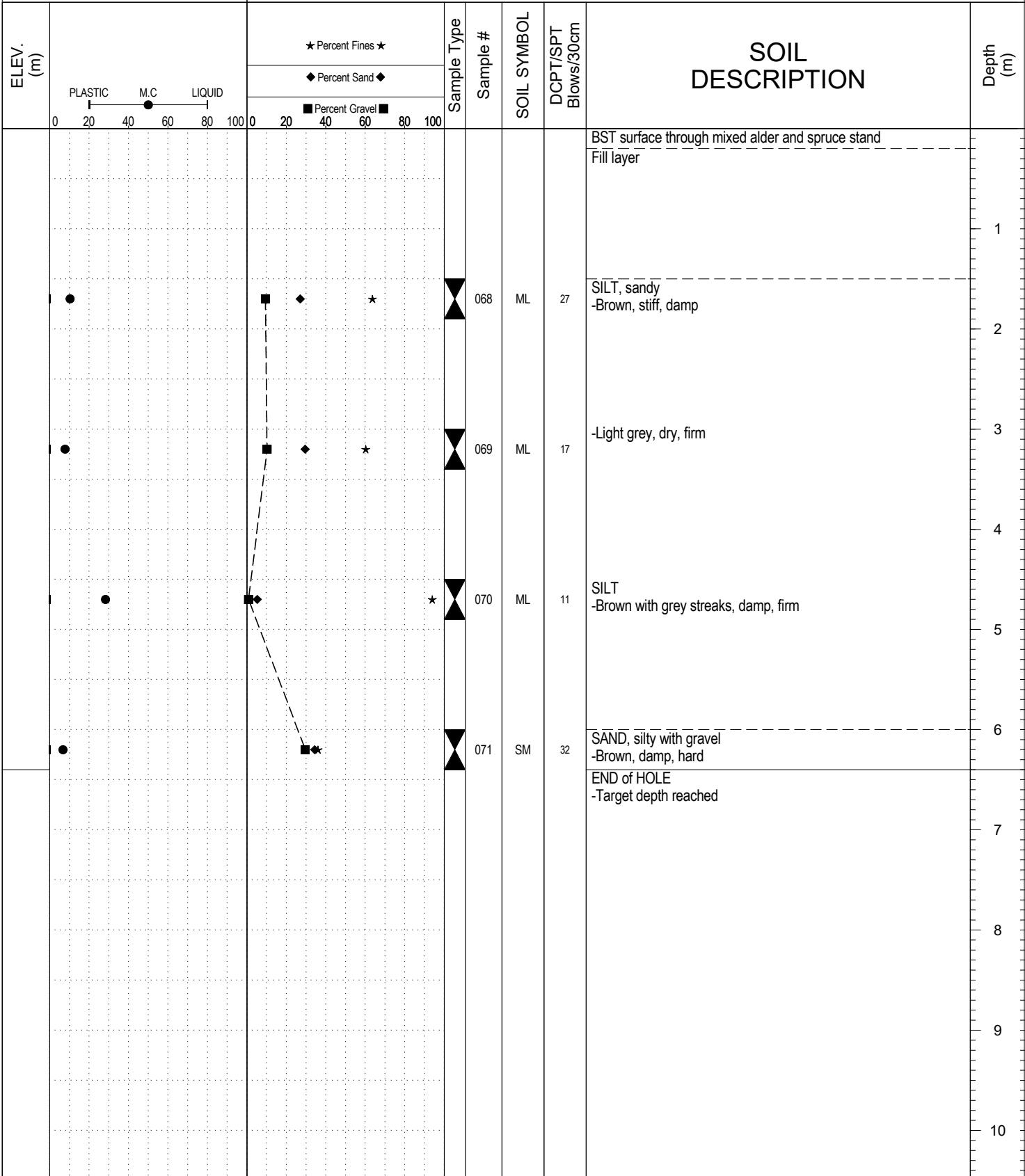
SUBSURFACE EXPLORATION AND TEST REPORT	Klondike Highway North	SOURCE/TP#: 922-5431
Gateway Drilling	Klondike Hwy Drillery, km 637.5	PROJECT NO: 552-202102
Auger	Coordinates: Z08N N7087264m E345297m	ELEVATION: m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

ELEV. (m)	PLASTICITY INDEX		PERCENT FINES		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PL	LI	★	◆						
									BST surface through spruce bog, 2m embankment Fill layer	0 - 1.5
	●		■	◆	▲	064	SM	15	SAND, silty with gravel -Brown, damp, compact -Smooth drilling	1.5 - 3.0
	●				▲	065		10	PEAT ORGANIC SILT -Black, firm, damp -Trace fibrous organics	3.0 - 4.5
	●		■	◆	▲	066	SM	15	PEAT -Black, soft, wet SAND, silty with gravel -Grey, saturated, loose	4.5 - 6.0
	●				▲	067		12	SILT with some sand, trace gravel -partially frozen (Nbn), firm, brown -Unfrozen sections wet END of HOLE -Target depth reached	6.0 - 6.4

SUBSURFACE EXPLORATION AND TEST REPORT	Klondike Highway North	SOURCE/TP#: 922-5432
Gateway Drilling	Klondike Hwy Drilliry, km 637.8	PROJECT NO: 552-202102
Auger	Coordinates: Z08N N7087381m E345133m	ELEVATION: m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5433				
Gateway Drilling		Klondike Hwy Drilliry, km 638.1		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7087506m E344968m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	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					
							BST surface through spruce bog, 6m embankment Fill layer	1
	●		★ ■ ◆	▲	072	SM 22	SAND, silty with gravel -Brown, damp, compact	2
	●		★ ■ ◆	▲	073	SM 6	-Loose	3
	●		■ ★ ◆	▲	074	SM 7		4
	●		■ ★ ◆	▲	075	SM 11		5
	●		■ ★	▲	076	SM 14	-Black	6
	●			▲	077	SM 32	-Frozen (Vs) -1cm ice lenses	7
	>●						END of HOLE -Target depth reached	8
								9
								10

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5438				
Gateway Drilling		Klondike Hwy Drilliry, km 639.1		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7087911m E344043m		ELEVATION: m				
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)	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					
							BST surface through alder grove, 1.5m embankment	
							Fill layer	
							-Some grinding	1
					090	SM	SAND, silty -Brown, firm, damp	2
					091	SM	-Refusal @ 5cm, bouncing on rock	3
					092	SM	-Some gravel -Dense	4
							END of HOLE -Target depth reached	5

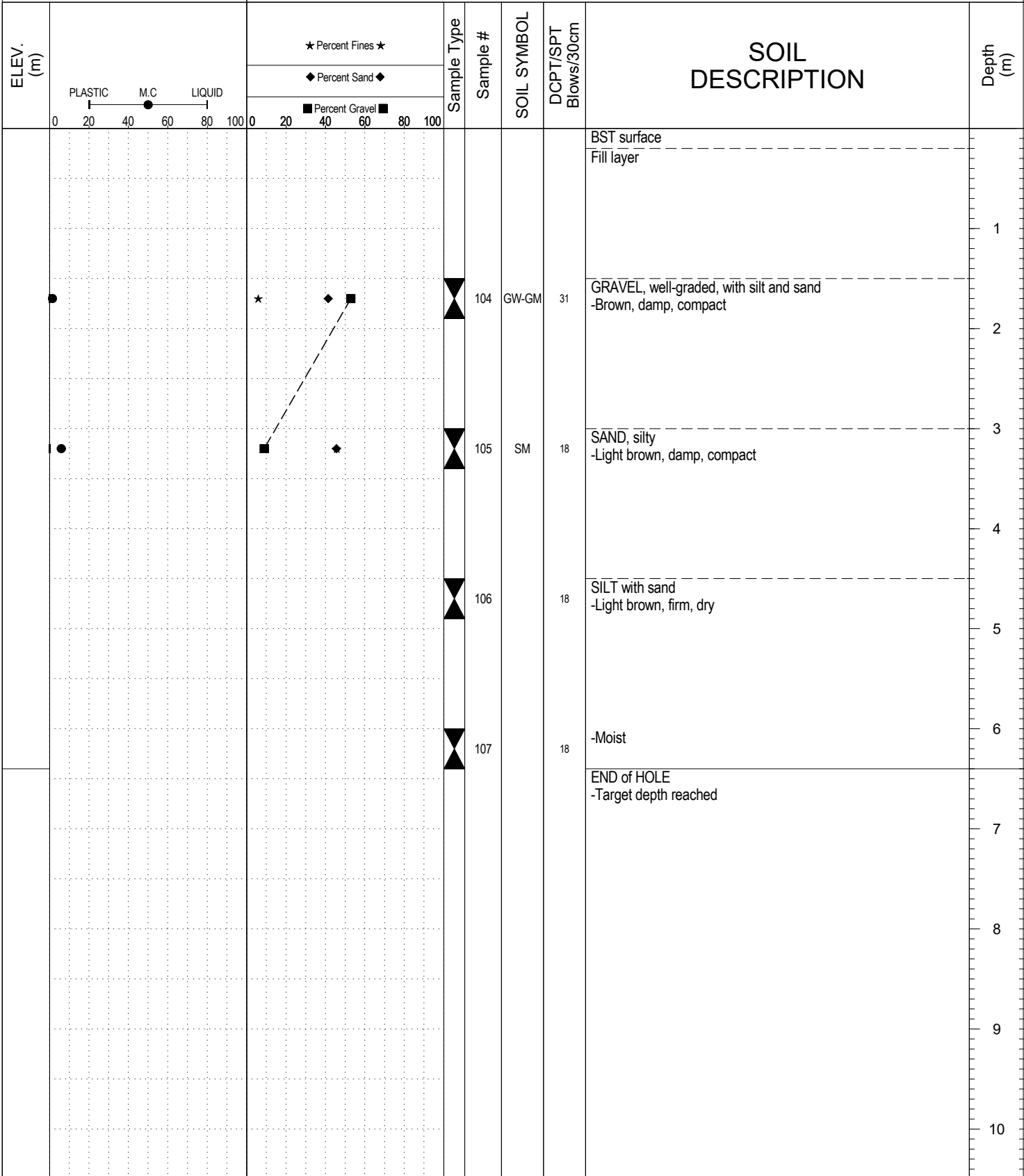
SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5439					
Gateway Drilling		Klondike Hwy Drilliry, km 639.3		PROJECT NO: 552-202102					
Auger		Coordinates: Z08N N7088007m E343847m		ELEVATION: m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE							
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)	
	PLASTIC M.C LIQUID 0 20 40 60 80 100								
							BST surface through alder grove, 2.0m embankment		
							Fill layer		
					093	SM	15	SAND, silty -Brown, damp, loose	1
					094	GM	22	GRAVEL, silty with sand -Brown, damp, compact	2
					095	GM	34	-Light brown, dry	3
								END of HOLE -Target depth reached	4
									5

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5440				
Gateway Drilling		Klondike Hwy Drilliry, km 639.6		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7088130m E343621m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample 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							
							BST surface through spruce bog, 3m embankment Fill layer	1
	●	■ ◆ ★	▲	096	SM	10	SAND, silty -Brown, damp, loose	2
			▲	097		5	-Dark brown, moist	3
			▲	098		11	-Interbedded brown SILT and black SAND -10cm layers	4
			▲	099		9	END of HOLE -Target depth reached	5
			▲	100		52		6
								7
								8
								9
								10

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5441					
Gateway Drilling		Klondike Hwy Drilliry, km 639.7		PROJECT NO: 552-202102					
Auger		Coordinates: Z08N N7088178m E343522m		ELEVATION: m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE		
ELEV. (m)	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 ◆							
								BST surface through marsh, 2.5m embankment	
								Fill layer -Grinding	
									1
								SAND, silty with gravel -Brown, damp, loose to compact	
					101	SM	14		
								-Bouncing drilling action	
								-No bouncing	
								-Smooth drilling	
									2
								-Buried creosote wooden culvert encountered	
					102		11		
									3
								ORGANIC SILT, some woody organics -Frozen (Nbe)	
								-Frozen (Vs), vertical ice seams	
					103		30		
								END of HOLE -Target depth reached	
									4
									5

SUBSURFACE EXPLORATION AND TEST REPORT	Klondike Highway North	SOURCE/TP#: 922-5442
Gateway Drilling	Klondike Hwy Drilliry, km 640.0	PROJECT NO: 552-202102
Auger	Coordinates: Z08N N7088306m E343290m	ELEVATION: m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5444			
Gateway Drilling		Klondike Hwy Drilliry, km 640.4		PROJECT NO: 552-202102			
Auger		Coordinates: Z08N N7088557m E342921m		ELEVATION: m			
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE					
ELEV. (m)	<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)

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5446				
Gateway Drilling		Klondike Hwy Drilliry, km 640.8		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7088850m E342646m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample 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							
							BST surface through mixed alder and spruce stand, 2m embankment	
							Fill layer	
							-Grinding on coarse material	1
					117	11	SILT, sandy with some gravel -Brown, firm, damp	2
					118	SM 53	SAND, silty with gravel -Light brown, dry, dense	3
								4
					119	57	-Light brown with ocher bands, large ocher band at interface with next layer GRAVEL, sandy with silt -Brown, dry, dense	
							END of HOLE -Target depth reached	5

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5448																	
Gateway Drilling		Klondike Hwy Drilliry, km 641.2		PROJECT NO: 552-202102																	
Auger		Coordinates: Z08N N7089037m E342310m		ELEVATION: m																	
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> SPT	<input type="checkbox"/> CORE														
ELEV. (m)	PLASTIC	M.C	LIQUID	0	20	40	60	80	100	0	20	40	60	80	100	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
																				BST surface through mixed spruce and alder stand, 1.5m embankment	
																				Fill layer	
																					1
																				SILT with sand -Brown, moist, firm	2
																					3
																				-Brown with grey and ocher banding, damp	4
																					5
																				-Dark grey brown -Brown with grey banding	
																				-Dark brown END of HOLE -Target depth reached	

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5449				
Gateway Drilling		Klondike Hwy Drilliry, km 641.4		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7089079m E342118m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
							BST surface through clearing, 1.5m embankment	
							Fill layer	
							-Smooth drilling	1
					126	ML	SILT, sandy -Interbedded sand and silt, 10cm layers -Brown, damp, soft silt -Brown and grey, damp, loose sand	2
					127		SAND with silt -Brown, loose to compact, wet	3
					128	GM	GRAVEL, silty with sand -Light brown, damp, very dense	4
							END of HOLE -Target depth reached	5

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5450				
Gateway Drilling		Klondike Hwy Drilliry, km 641.6		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7089090m E341911m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	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					
							BST surface through willow and grass	
							Fill layer -Grinding on coarse material	1
					129	SM	SAND, silty with gravel -Brown, compact, damp -Smooth -Grinding on coarse material	2
					130	SM		3
					131	GM	GRAVEL, silty with sand -Brown, damp to dry, compact -Refusal on rock in third flight, 10 blows without moving	5
					132	GP-GM	-Poorly graded -Dense -Refusal at 3cm of last flight - 10 blows with no movement END of HOLE -Target depth reached	6
								7
								8
								9
								10

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5452					
Gateway Drilling		Klondike Hwy Drilliry, km 642.05		PROJECT NO: 552-202102					
Auger		Coordinates: Z08N N7089126m E341523m		ELEVATION: m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE							
ELEV. (m)	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						
							BST surface through mixed alder and spruce stand, 1.0m embankment		
							Fill layer		
					136	GM	42	GRAVEL, silty with sand -Brown, compact, damp	1
					137	SM	70	SAND, silty with gravel -Brown, dense, damp with dry mottling -Refusal, no movement in 10 blows at 7.5cm in last flight	2
					138	SM	38	-Light brown, compact to dense	3
								END of HOLE -Target depth reached	4
									5

SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5453				
Gateway Drilling		Klondike Hwy Drilliry, km 642.25		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7089149m E341276m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
							BST surface through spruce stand, 3m embankment Fill layer	1
			▲	139		21	GRAVEL, silty with sand -Brown, damp, compact -Smooth drilling	2
			▲	140		19	SAND, silty with gravel -Brown, moist, compact	3
			▲	141		15	-Laminated with grey silt (abt 1cm layers) -Hard drilling	5
	●	■ ★ ◆	▲	142	SM	40	-Brown, damp, dense -Refusal after 5cm of last flight	6
							END of HOLE -Target depth reached	7
								8
								9
								10

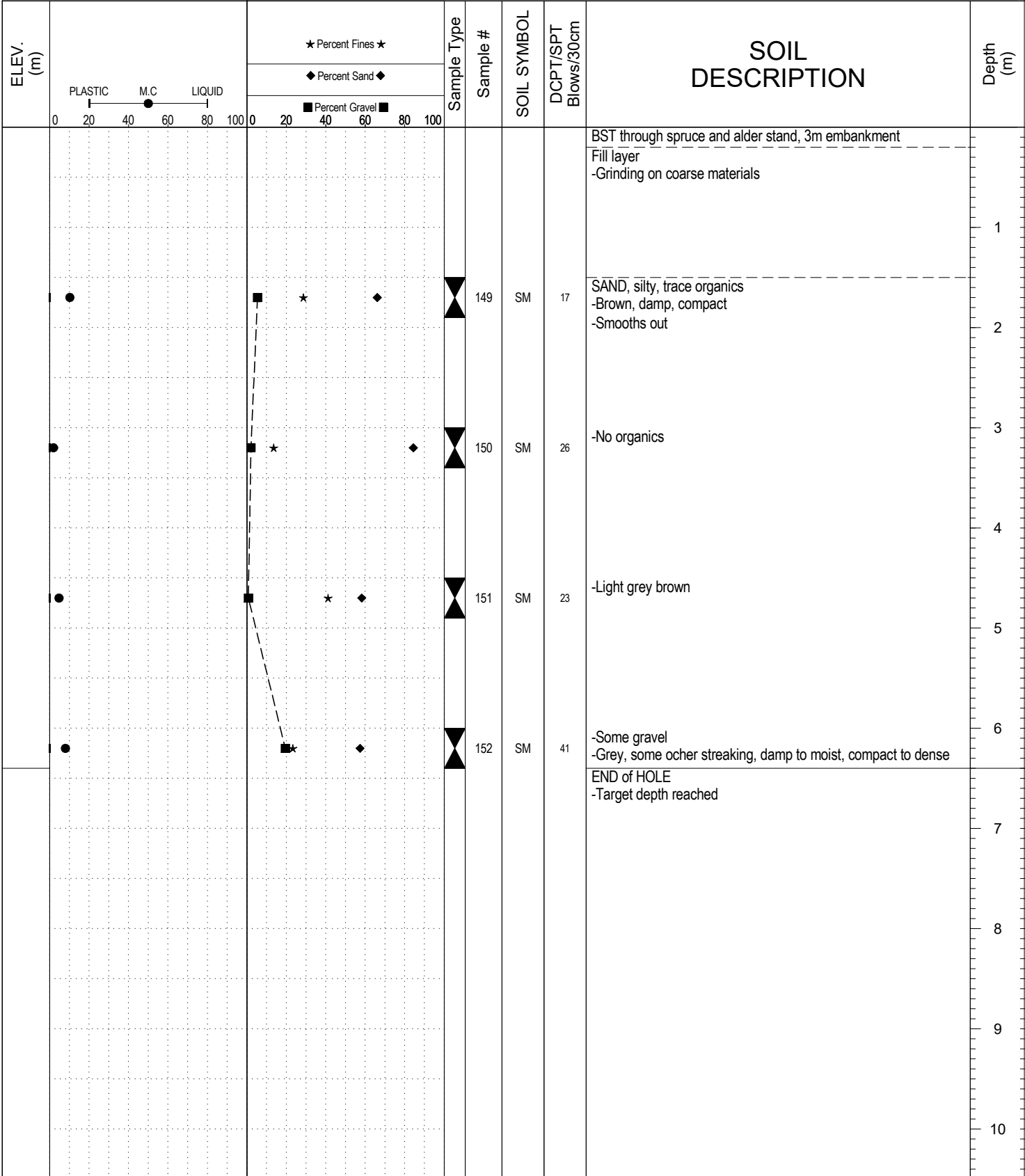
SUBSURFACE EXPLORATION AND TEST REPORT		Klondike Highway North		SOURCE/TP#: 922-5454				
Gateway Drilling		Klondike Hwy Drilliry, km 642.45		PROJECT NO: 552-202102				
Auger		Coordinates: Z08N N7089213m E341114m		ELEVATION: m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC M.C LIQUID 0 20 40 60 80 100							
							BST surface through aspen grove, 1.5m embankment	
							Fill layer	
								1
					143	SM	21 SAND, silty -Brown, damp, compact	2
					144	SM	38 -Some gravel -Compact to dense	3
					145	SM	61 -Dense to very dense	4
							END of HOLE -Target depth reached	5

SUBSURFACE EXPLORATION AND TEST REPORT Klondike Highway North SOURCE/TP#: 922-5456

Gateway Drilling Klondike Hwy Drilliry, km 642.85 PROJECT NO: 552-202102

Auger Coordinates: Z08N N7089381m E340740m ELEVATION: m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

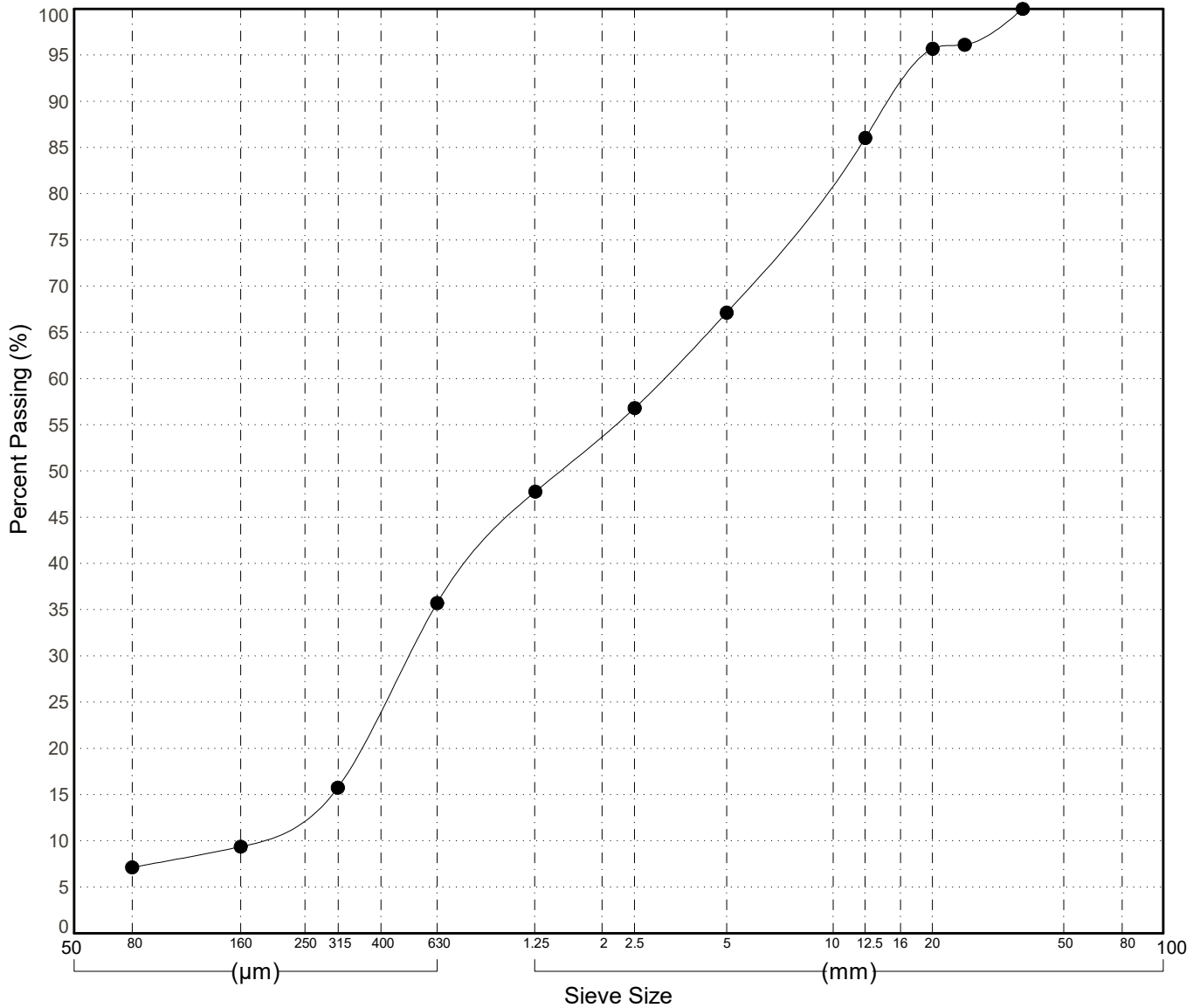


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5412
Gateway Drilling	km 488	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N6987556m E425657m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10										
● 001	1615	0.0 to 1.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	3.1	NP	NP	NP	0.5	17.8	0.17										
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown				
● 001	1615	100.0	100.0	100.0	96.1	95.7	86.0	81.7	67.1	53.9	41.0	24.4	13.6	9.4	7.1	Gravel	Sand	Silt	Clay	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

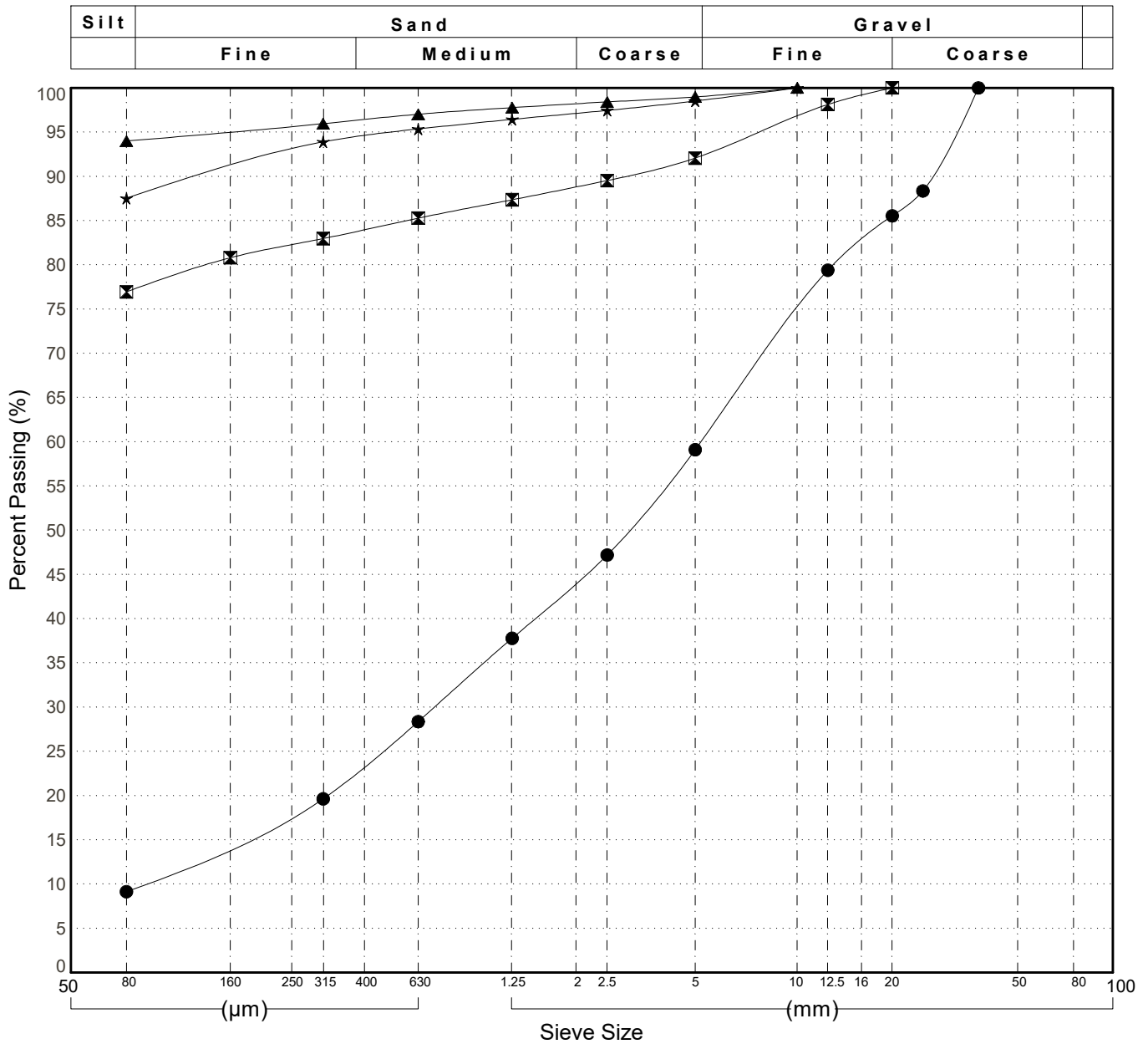


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5413
Gateway Drilling	km 633.8	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7085131m E348293m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 002	1616	1.5 to 1.9	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	6.3	NP	NP	NP	1.2	58.8	0.08
☒ 003	1617	3.0 to 3.4	SILT with SAND(ML)	15.1	NP	NP	NP			
▲ 004	1618	4.5 to 4.9	SILT(ML)	21.5	NP	NP	NP			
★ 005	1619	6.0 to 6.4	SILT(ML)	16.9	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	2.0	0.850	0.400	0.250	0.160	0.080	Gravel	Sand	Silt	Clay
●	002	1616	100.0	100.0	100.0	88.4	85.5	79.4	74.7	59.1	44.2	32.5	23.4	17.9	14.7	9.1	40.9	50.0	9.1	
☒	003	1617	100.0	100.0	100.0	100.0	100.0	98.1	96.7	92.1	88.8	86.2	84.0	82.2	80.8	76.9	7.9	15.1	76.9	
▲	004	1618	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.0	98.2	97.4	96.4	95.6	95.0	94.0	1.0	5.0	94.0	
★	005	1619	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.5	97.1	95.8	94.5	92.9	90.9	87.5	1.5	11.0	87.5	

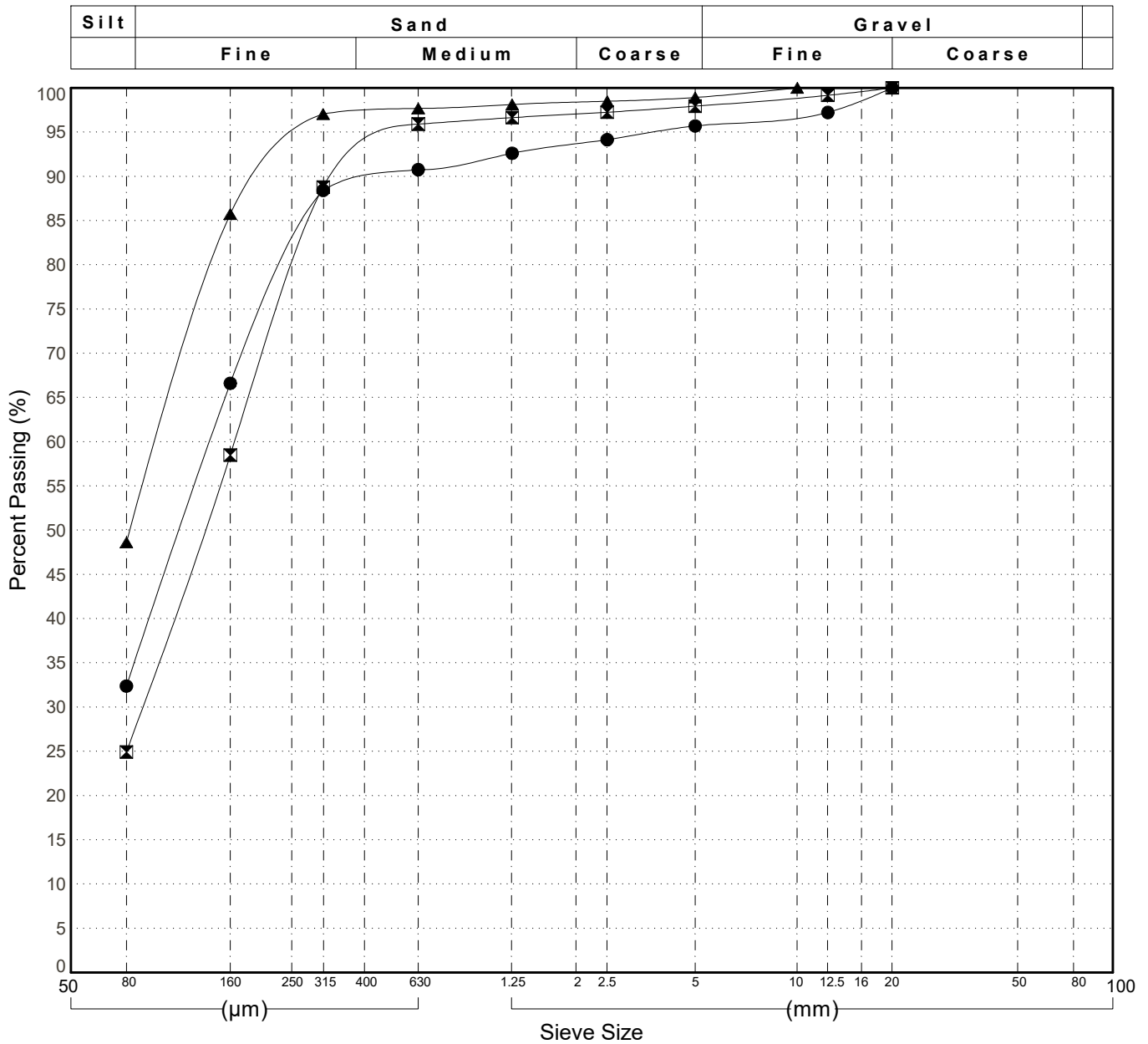


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5414
Gateway Drilling	km 634.0	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7085208m E348111m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 006	1620	1.5 to 1.9	SILTY SAND(SM)	7.0	NP	NP	NP			
☒ 007	1621	3.0 to 3.4	SILTY SAND(SM)	3.7	NP	NP	NP			
▲ 008	1622	4.5 to 4.9	SILTY SAND(SM)	4.8	NP	NP	NP			

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	006	1620	100.0	100.0	100.0	100.0	100.0	97.2	96.9	95.7	93.7	91.6	89.4	81.0	66.6	32.4	4.3	63.3	32.4	
☒	007	1621	100.0	100.0	100.0	100.0	100.0	99.2	98.9	97.9	97.1	96.2	91.9	78.5	58.5	24.9	2.1	73.0	24.9	
▲	008	1622	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	98.4	97.9	97.3	93.2	85.7	48.6	1.1	50.3	48.6	

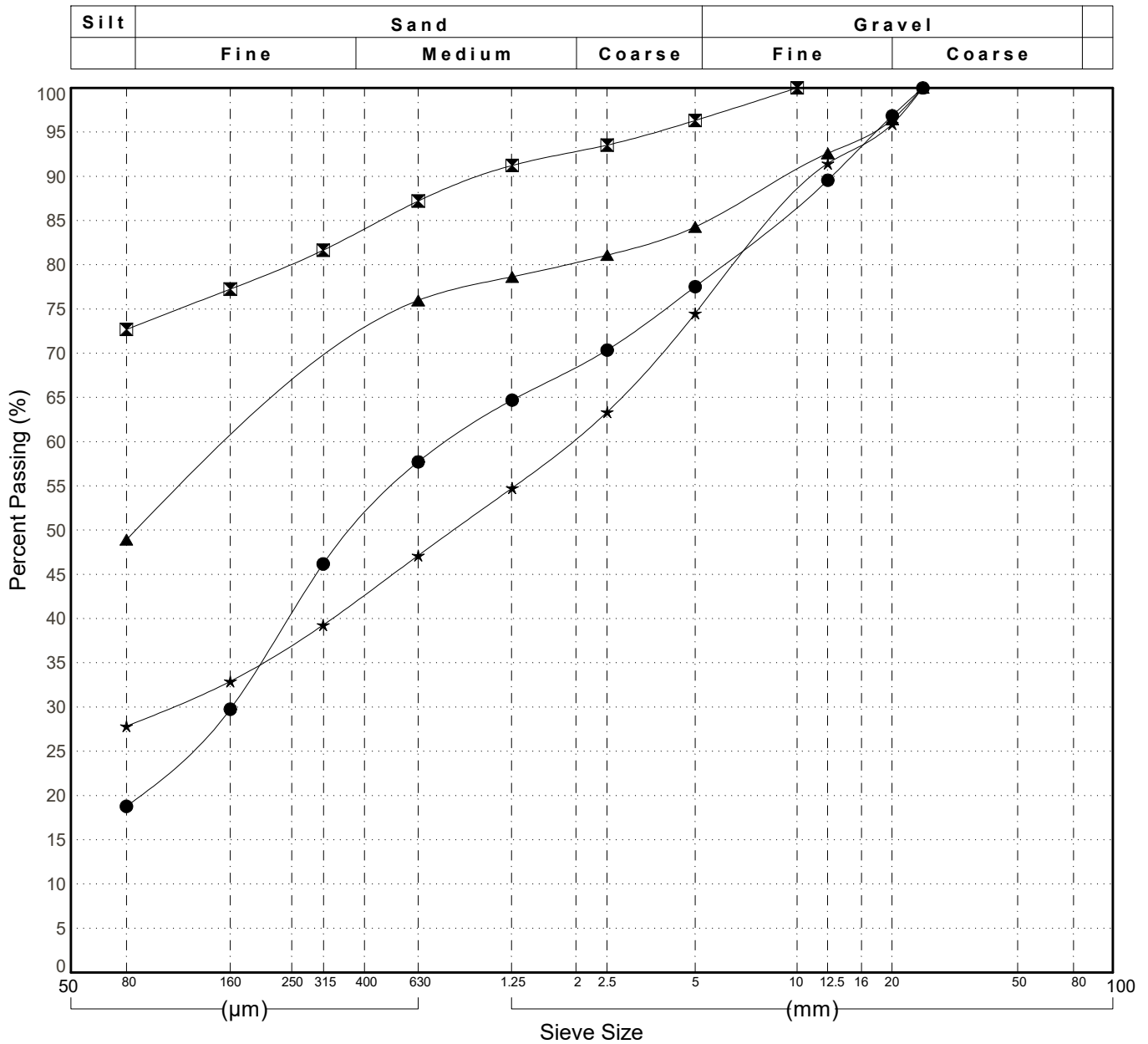


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5415
Gateway Drilling	km 634.3	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7085516m E347830m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 009	1624	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	4.4	NP	NP	NP			
☒ 010	1625	3.0 to 3.4	SILT with SAND(ML)	25.0	NP	NP	NP			
▲ 011	1626	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	14.7	NP	NP	NP			
★ 012	1627	6.5 to	SILTY SAND with GRAVEL(SM)	10.3	NP	NP	NP			

Field #	Lab #	% PASSING																	% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	Gravel	Sand	Silt	Clay		
●	009	1624	100.0	100.0	100.0	100.0	96.9	89.6	86.8	77.5	68.5	60.8	51.2	40.6	29.8	18.8	22.5	58.7	18.8			
☒	010	1625	100.0	100.0	100.0	100.0	100.0	100.0	96.3	92.8	89.0	84.1	80.2	77.3	72.7	3.7	23.6	72.7				
▲	011	1626	100.0	100.0	100.0	100.0	96.4	92.6	90.7	84.3	80.3	77.1	71.0	64.2	58.6	48.9	15.7	35.4	48.9			
★	012	1627	100.0	100.0	100.0	100.0	95.9	91.5	87.6	74.5	60.6	50.5	42.7	37.1	32.9	27.8	25.5	46.7	27.8			



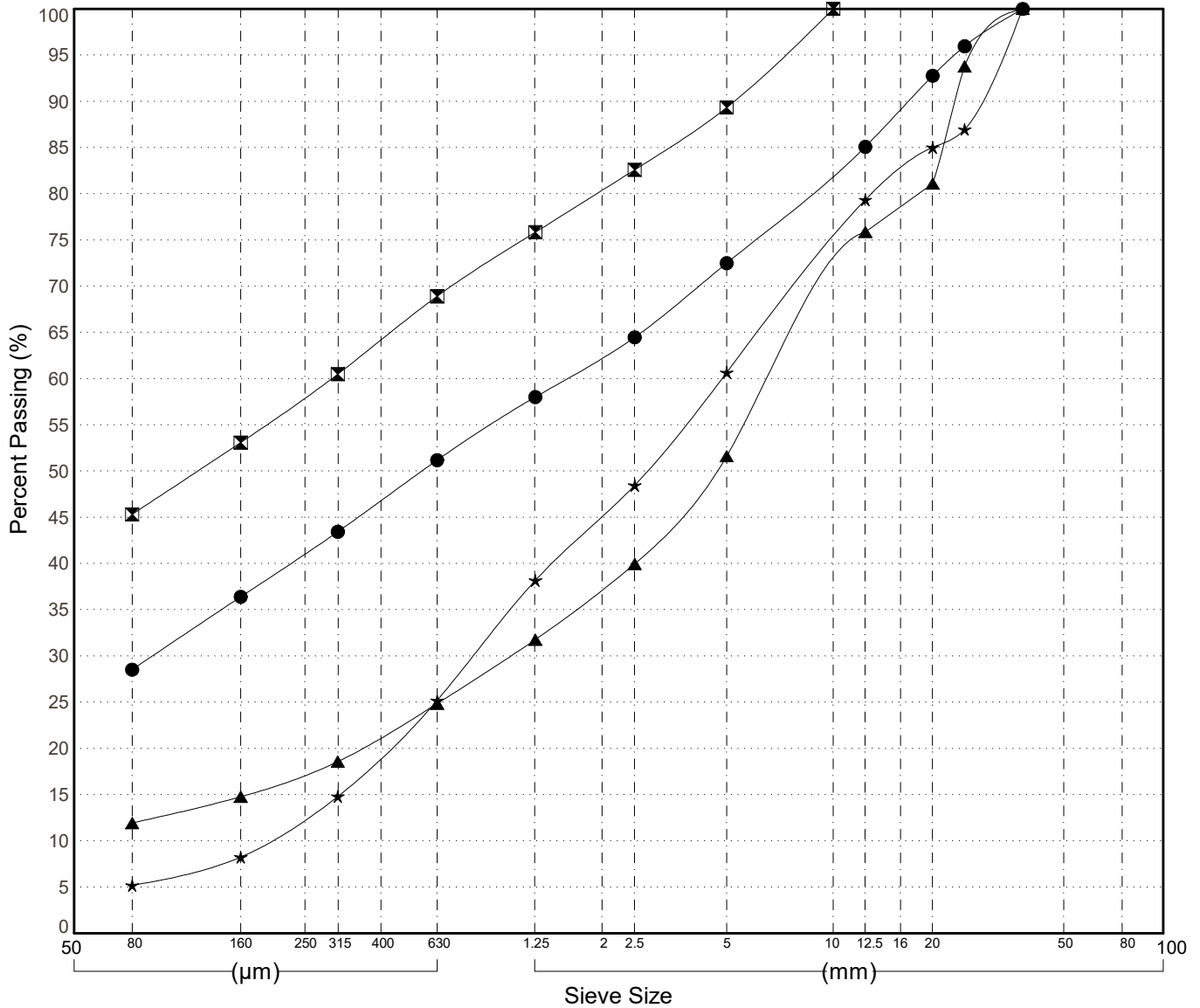
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5416
Gateway Drilling	km 634.9	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7085930m E347525m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 013	1629	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	4.9	NP	NP	NP			
☒ 014	1630	3.0 to 3.4	SILTY SAND(SM)	3.4	NP	NP	NP			
▲ 015	1631	4.5 to 4.9	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	8.7	NP	NP	NP	3.7	148.1	
★ 016	1632	6.0 to 6.4	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	8.2	NP	NP	NP	0.8	23.9	0.19

Field #	Lab #	% PASSING	Sieve Size (mm)																% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	Gravel	Sand	Silt	Clay		
●	013	1629	100.0	100.0	100.0	96.0	92.8	85.1	82.2	72.5	62.4	54.2	46.8	41.0	36.4	28.5	27.5	44.0		28.5		
☒	014	1630	100.0	100.0	100.0	100.0	100.0	100.0	100.0	89.3	80.4	71.9	64.1	58.0	53.1	45.3	10.7	44.0		45.3		
▲	015	1631	100.0	100.0	100.0	93.8	81.1	75.9	70.3	51.6	37.3	27.9	21.3	17.3	14.8	11.9	48.4	39.7		11.9		
★	016	1632	100.0	100.0	100.0	87.0	85.0	79.3	75.0	60.7	45.1	30.9	19.3	12.6	8.2	5.2	39.3	55.5		5.2		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



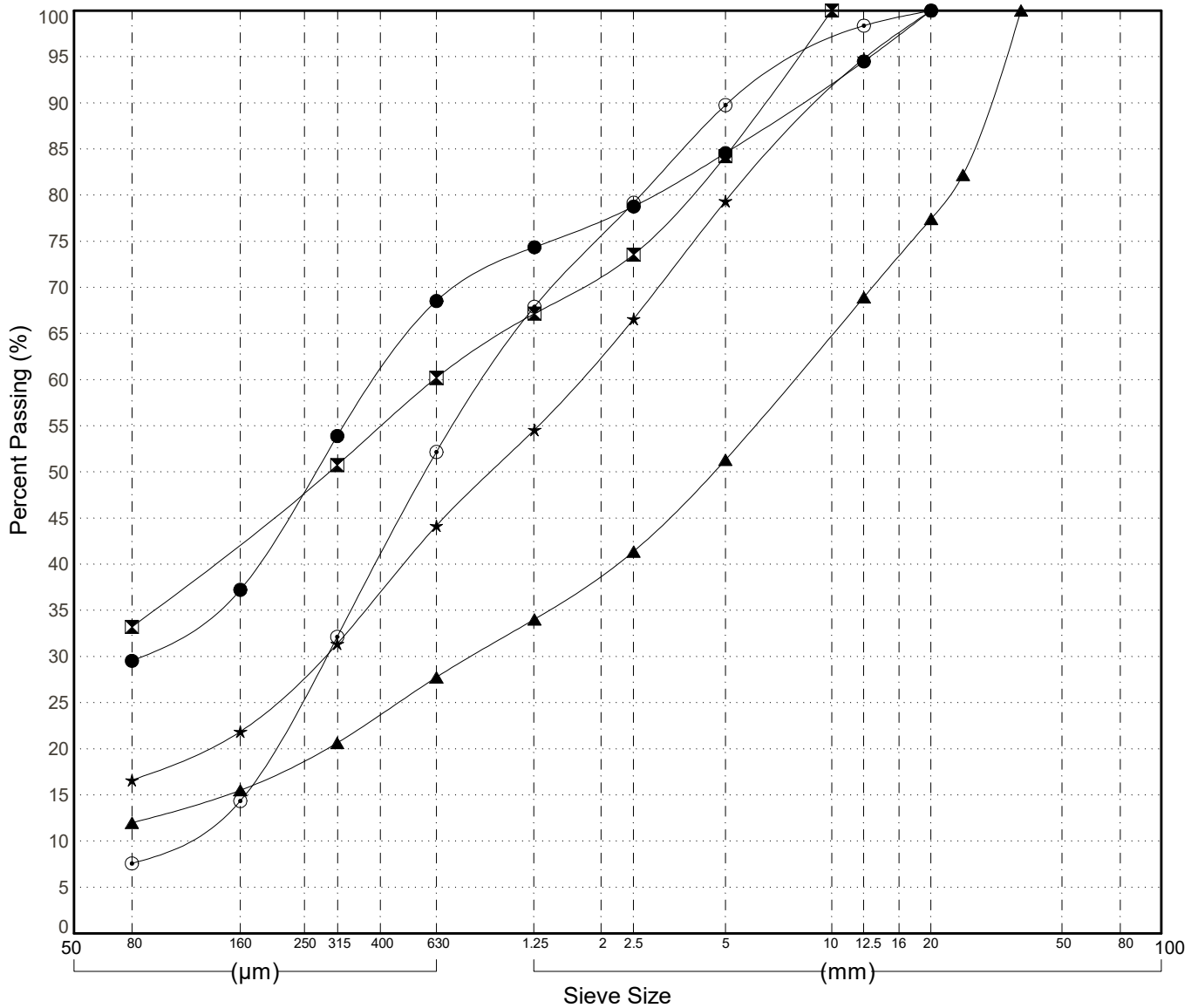
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5417
Gateway Drilling	km 634.7	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7085783m E347634m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 017	1633	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	6.1	NP	NP	NP			
☒ 018	1634	3.0 to 3.4	SILTY SAND with GRAVEL(SM)	3.1	NP	NP	NP			
▲ 019	1635	4.5 to 4.9	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	3.0	NP	NP	NP	1.7	156.2	
★ 020	1636	6.0 to 6.4	SILTY SAND with GRAVEL(SM)	13.4	NP	NP	NP			
⊙ 021	1637	7.5 to 7.9	POORLY GRADED SAND with SILT(SP-SM)	15.8	NP	NP	NP	1.0	9.0	0.10

Field #	Lab #	%PASSING	Sieve Size (mm)															% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	Gravel	Sand	Silt	Clay	
● 017	1633	100.0	100.0	100.0	100.0	100.0	100.0	94.5	92.2	84.6	77.4	71.1	60.2	48.2	37.2	29.5	15.4	55.0		29.5	
☒ 018	1634	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	84.2	71.5	63.2	54.8	47.9	42.5	33.2	15.8	51.0		33.2	
▲ 019	1635	100.0	100.0	100.0	82.2	77.4	68.9	64.9	51.3	39.0	30.5	23.7	18.9	15.5	12.0	48.7	39.3		12.0		
★ 020	1636	100.0	100.0	100.0	100.0	100.0	94.8	91.2	79.4	62.7	48.7	36.9	28.1	21.9	16.6	20.6	62.8		16.6		
⊙ 021	1637	100.0	100.0	100.0	100.0	100.0	98.4	96.4	89.8	75.5	59.1	40.8	26.1	14.4	7.6	10.2	82.2		7.6		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



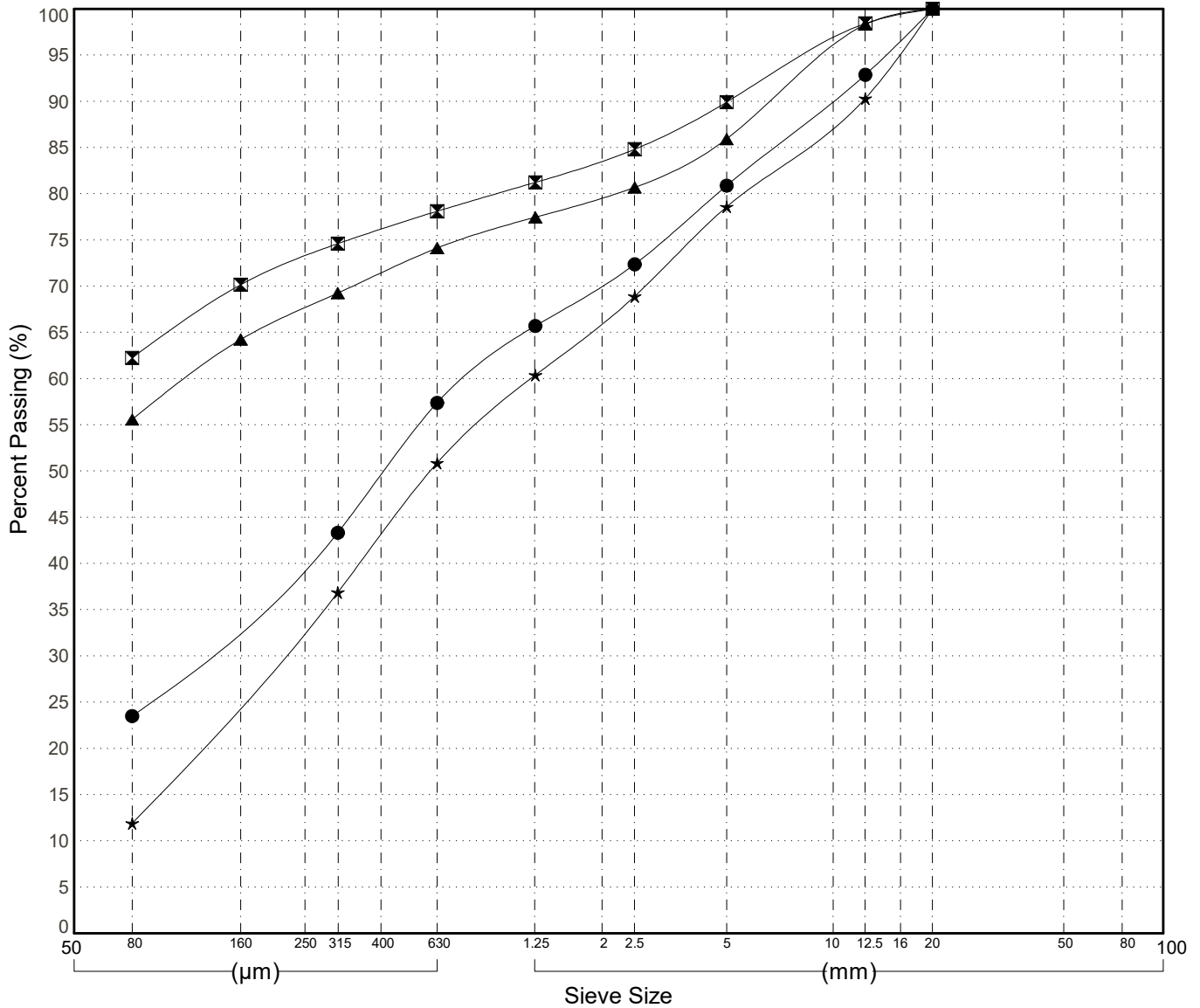
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5418
Gateway Drilling	km 634.5	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7085653m E347726m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 022	1638	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	5.3	NP	NP	NP			
☒ 023	1639	3.0 to 3.4	SANDY SILT(ML)	5.5	NP	NP	NP			
▲ 024	1640	4.5 to 4.9	SANDY SILT(ML)	22.8	NP	NP	NP			
★ 025	1641	6.0 to 6.4	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	9.7	NP	NP	NP	0.6	18.1	

Field #	Lab #	%PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	022	1638	100.0	100.0	100.0	100.0	100.0	92.9	90.1	80.9	70.2	61.0	49.4	40.1	34.0	23.5	19.1	57.4	23.5	
☒	023	1639	100.0	100.0	100.0	100.0	100.0	98.4	96.5	89.9	83.7	79.5	76.1	73.1	70.2	62.2	10.1	27.7	62.2	
▲	024	1640	100.0	100.0	100.0	100.0	100.0	98.3	95.5	85.9	79.6	75.6	71.4	67.5	64.2	55.6	14.1	30.4	55.6	
★	025	1641	100.0	100.0	100.0	100.0	100.0	90.3	87.6	78.6	66.2	55.0	42.9	32.9	25.1	11.9	21.4	66.7	11.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



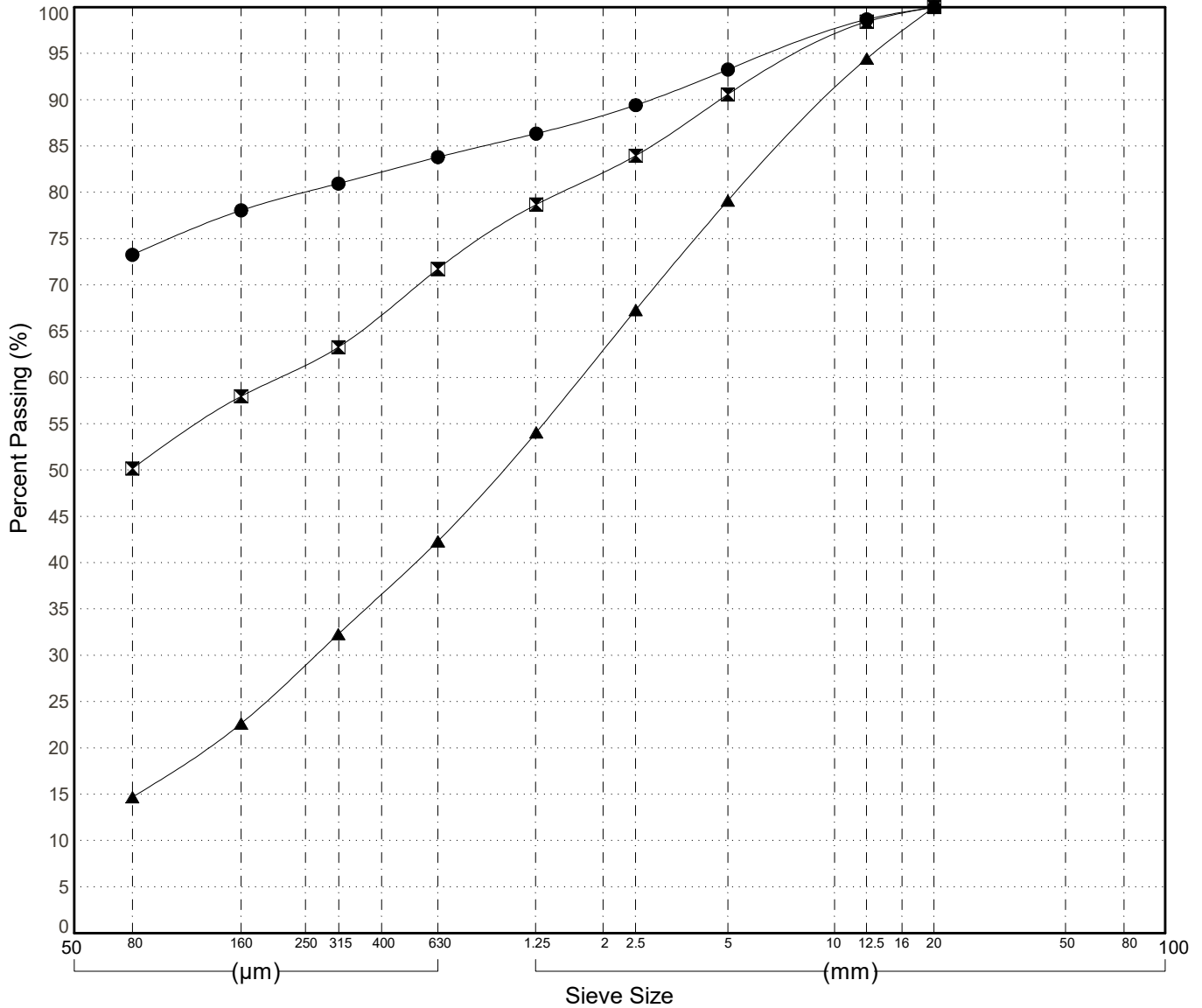
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5419
Gateway Drilling	km 635.1	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7086080m E347396m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 026	1642	1.5 to 1.9	SILT with SAND(ML)	14.7	NP	NP	NP			
☒ 027	1643	3.0 to 2.4	SANDY SILT(ML)	10.9	NP	NP	NP			
▲ 028	1644	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	1.9	NP	NP	NP			

Field #	Lab #	%PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	026	1642	100.0	100.0	100.0	100.0	100.0	98.7	97.4	93.3	88.4	84.9	82.2	80.0	78.1	73.3	6.7	20.0	73.3	
☒	027	1643	100.0	100.0	100.0	100.0	100.0	98.4	96.6	90.6	82.3	74.8	66.9	61.5	58.0	50.2	9.4	40.4	50.2	
▲	028	1644	100.0	100.0	100.0	100.0	100.0	94.4	90.9	79.1	63.0	47.5	36.6	29.0	22.6	14.7	20.9	64.4	14.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



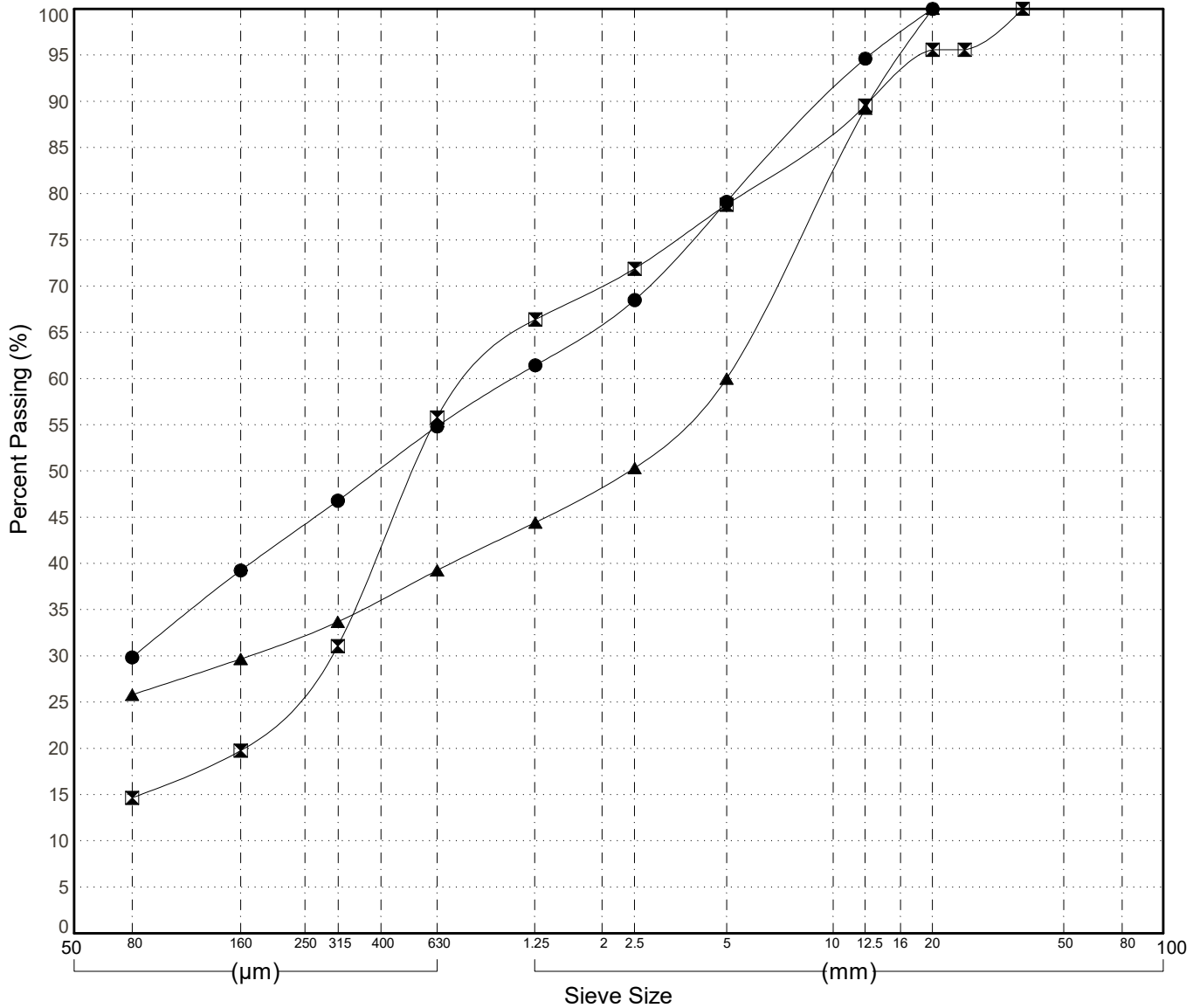
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5420
Gateway Drilling	km 635.3	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7086197m E347267m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 029	1645	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	5.9	NP	NP	NP			
☒ 030	1646	3.0 to 3.4	SILTY SAND with GRAVEL(SM)	3.5	NP	NP	NP			
▲ 031	1647	4.5 to 4.9	SILTY GRAVEL with SAND(GM)	3.1	NP	NP	NP			

Field #	Lab #	%PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	029	1645	100.0	100.0	100.0	100.0	100.0	94.6	91.0	79.1	66.2	57.7	50.3	44.2	39.2	29.8	20.9	49.3	29.8	
☒	030	1646	100.0	100.0	100.0	95.6	95.6	89.5	87.1	78.8	70.1	60.4	41.8	27.2	19.8	14.7	21.2	64.2	14.7	
▲	031	1647	100.0	100.0	100.0	100.0	100.0	89.2	82.5	60.0	48.4	41.5	36.1	32.3	29.7	25.8	40.0	34.2	25.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

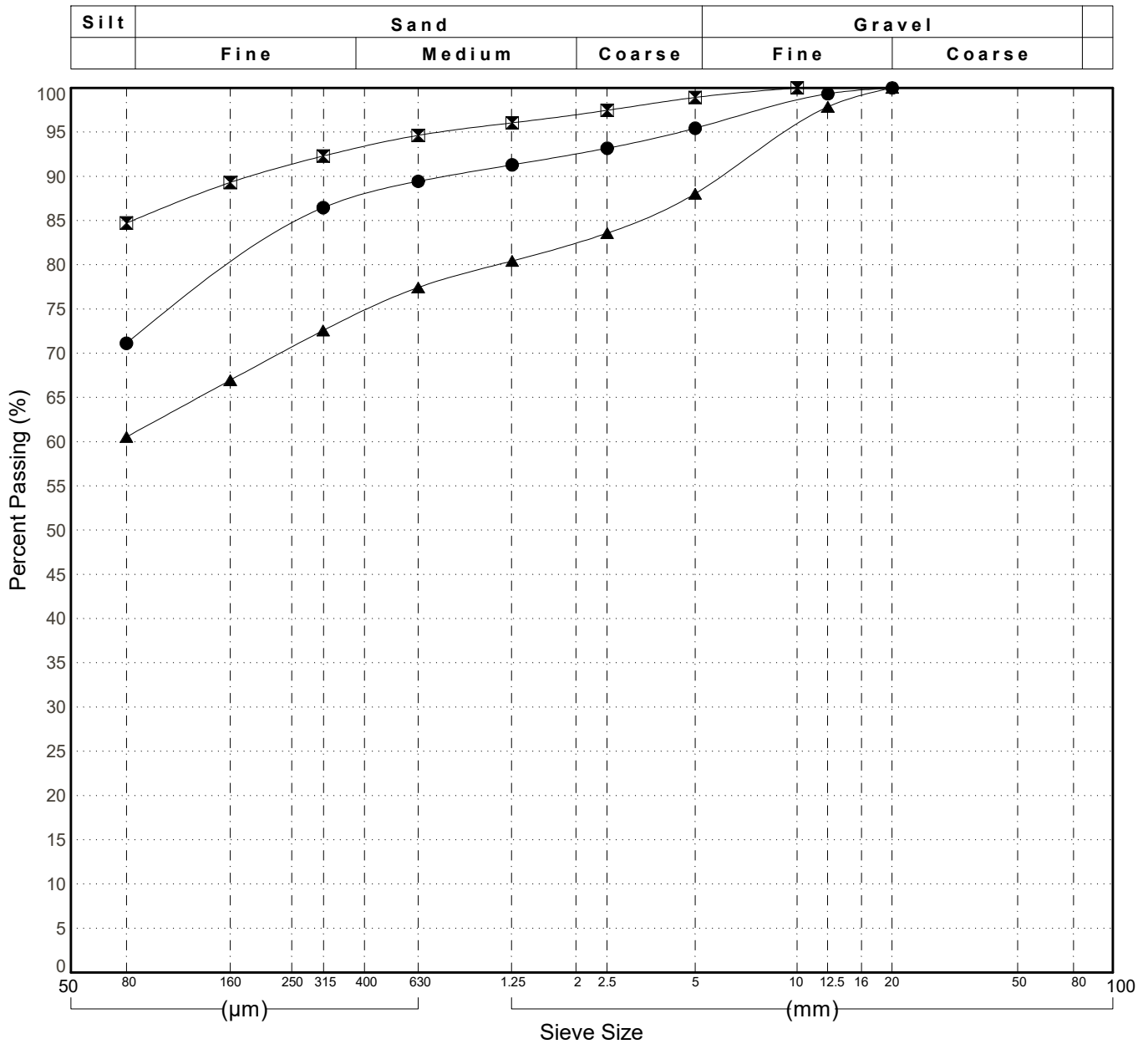


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5421
Gateway Drilling	km 635.5	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7086284m E347087m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 032	1648	1.5 to 1.9	SILT with SAND(ML)	11.9	NP	NP	NP			
☒ 033	1649	3.0 to 3.4	SILT with SAND(ML)	16.7	NP	NP	NP			
▲ 034	1650	4.5 to 4.9	SANDY SILT(ML)	12.6	NP	NP	NP			

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	032	1648	100.0	100.0	100.0	100.0	100.0	99.3	98.4	95.4	92.6	90.3	87.8	84.0	79.2	71.1	4.6	24.3	71.1	
☒	033	1649	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.9	97.0	95.3	93.3	91.3	89.3	84.7	1.1	14.2	84.7	
▲	034	1650	100.0	100.0	100.0	100.0	100.0	97.9	95.6	88.0	82.6	78.7	74.7	70.7	67.0	60.5	12.0	27.5	60.5	



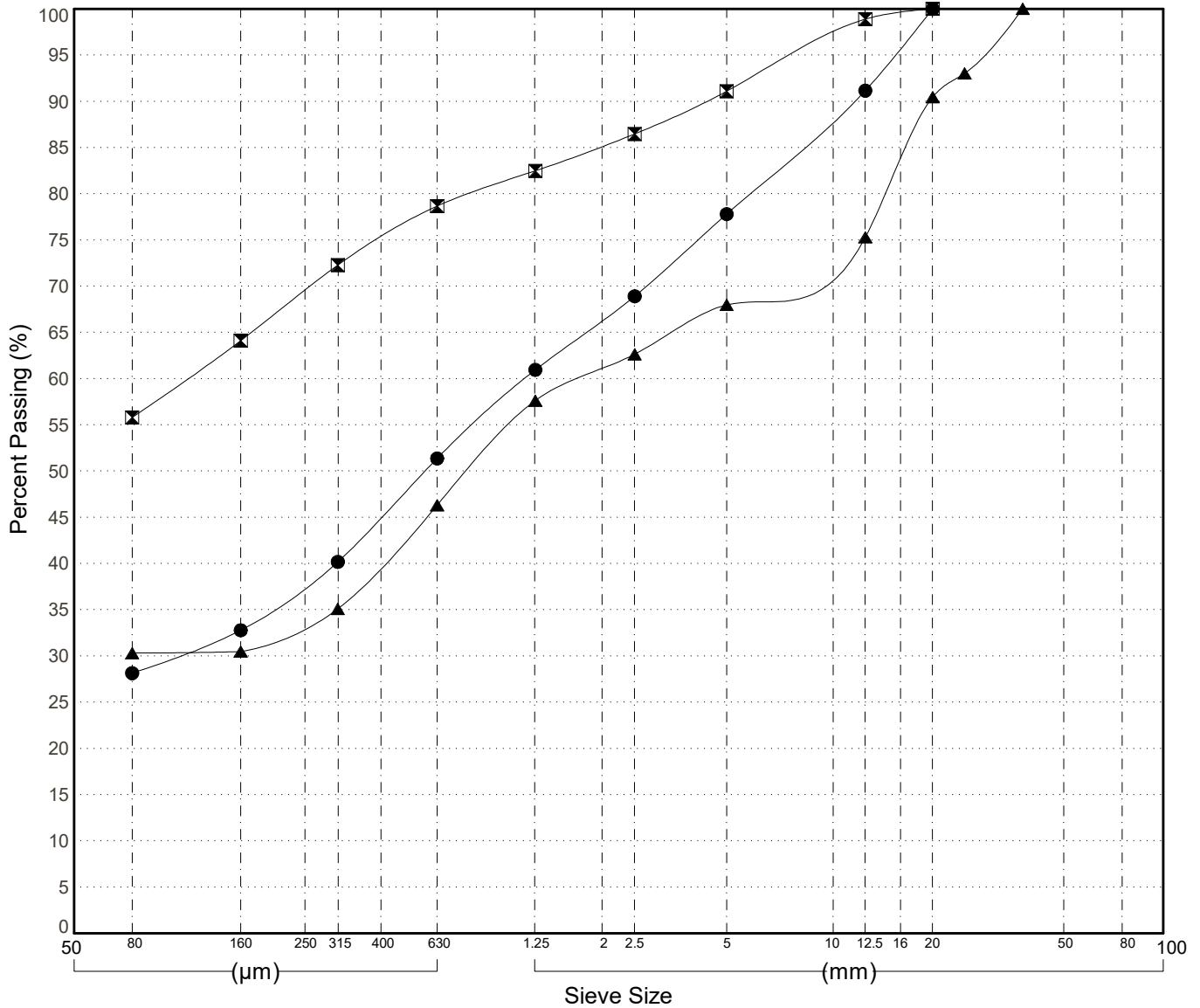
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5422
Gateway Drilling	km 635.7	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7086362m E346898m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 035	1651	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	12.6	NP	NP	NP			
☒ 036	1652	3.0 to 3.4	SANDY SILT(ML)	9.2	NP	NP	NP			
▲ 037	1653	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	6.0	NP	NP	NP			

Field #	Lab #	%PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	035	1651	100.0	100.0	100.0	100.0	100.0	91.2	88.1	77.8	66.3	55.6	45.0	37.7	32.8	28.1	22.2	49.7	28.1	
☒	036	1652	100.0	100.0	100.0	100.0	100.0	98.9	97.1	91.1	85.2	80.3	75.0	69.5	64.1	55.8	8.9	35.3	55.8	
▲	037	1653	100.0	100.0	100.0	93.0	90.5	75.3	73.6	68.0	61.0	51.3	39.9	33.5	30.5	30.3	32.0	37.7	30.3	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

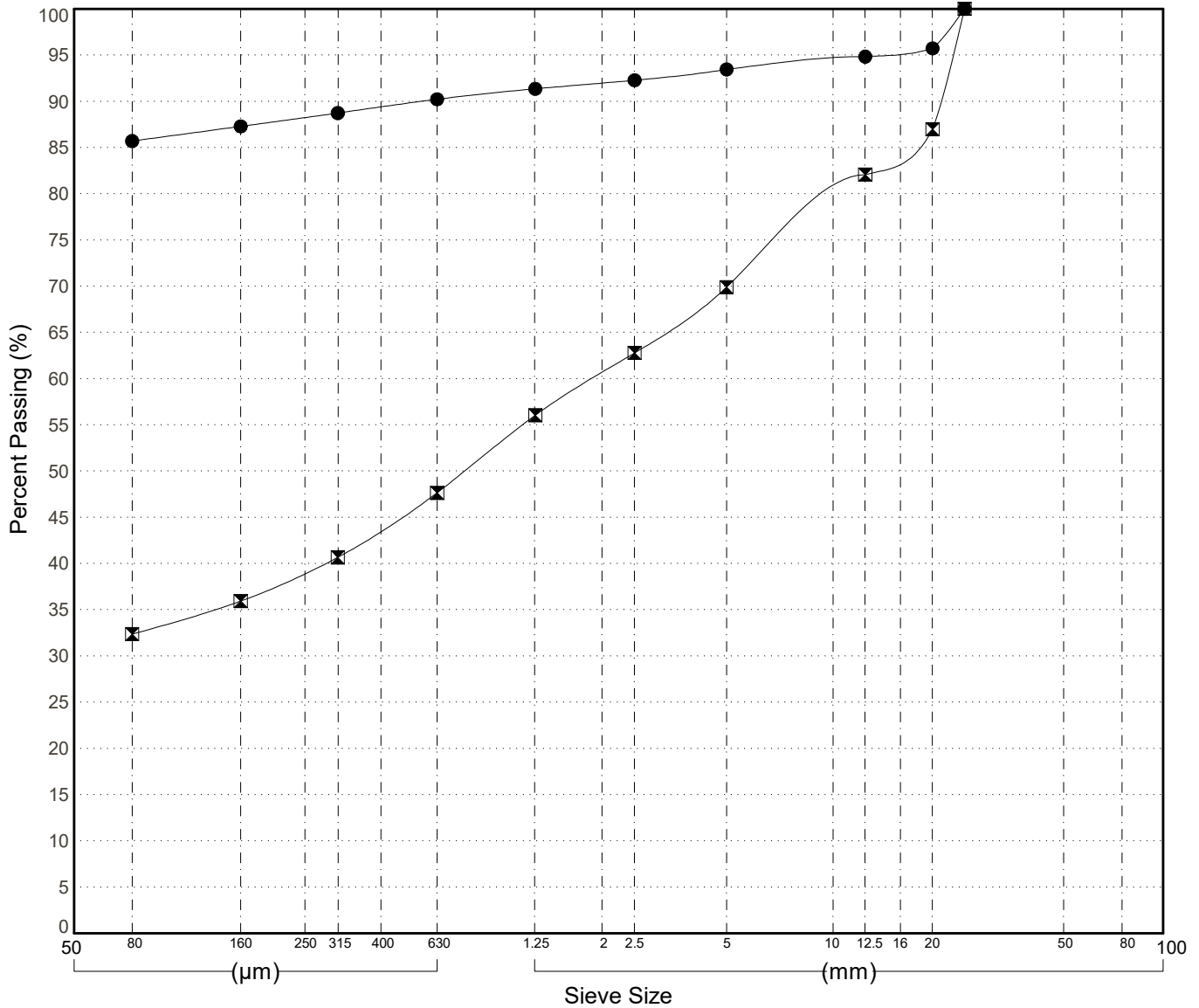


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5423
Gateway Drilling	km 635.9	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7086449m E346723m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10										
● 039	1655	3.0 to 3.4	SILT(ML)	18.9	NP	NP	NP													
☒ 040	1656	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	7.3	NP	NP	NP													
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown				
● 039	1655	100.0	100.0	100.0	100.0	95.7	94.8	94.5	93.5	92.0	90.7	89.4	88.2	87.3	85.7	Gravel	Sand	Silt	Clay	
☒ 040	1656	100.0	100.0	100.0	100.0	87.0	82.1	79.3	69.9	60.6	51.3	43.7	39.1	35.9	32.4	30.1	37.5	32.4		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



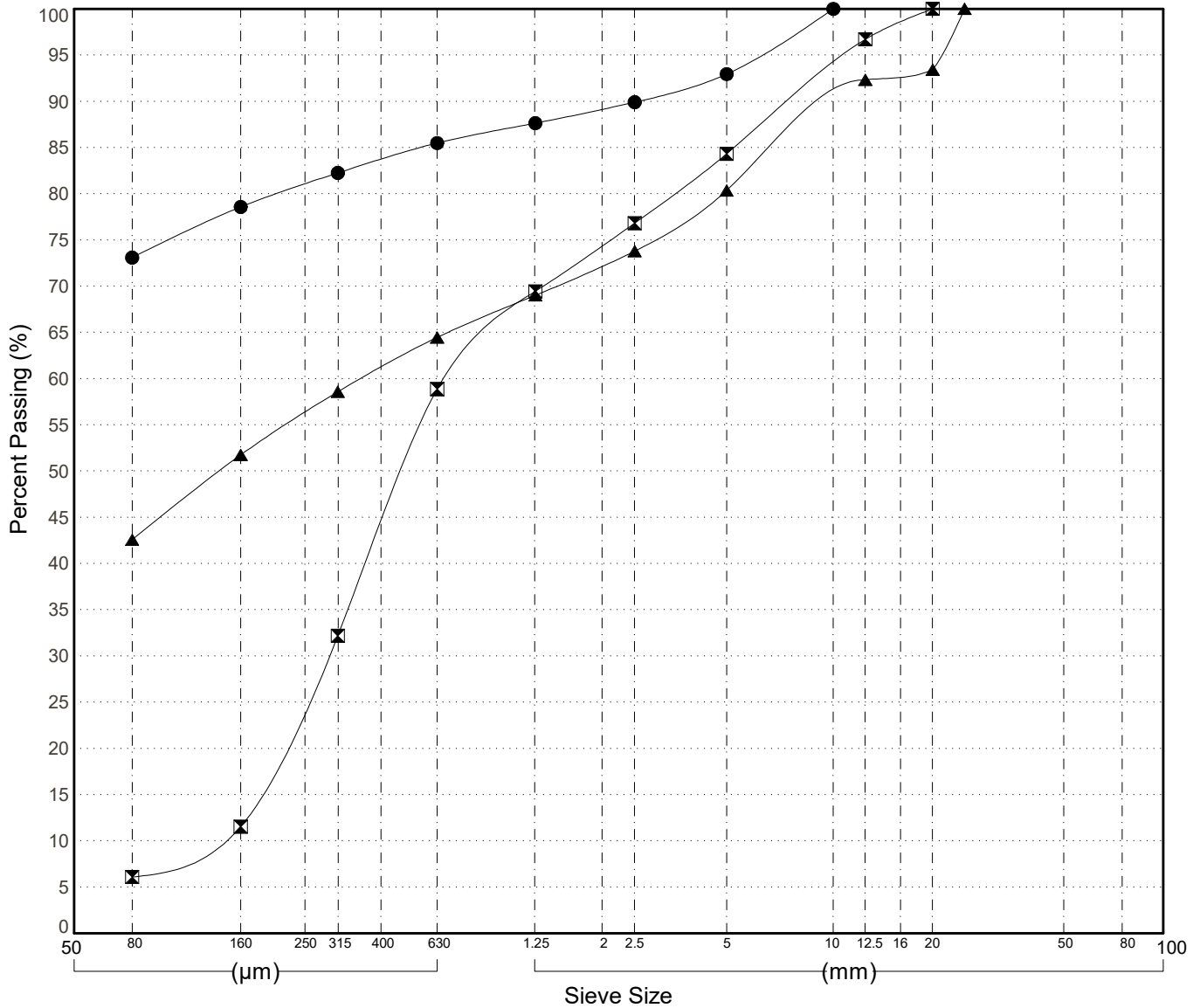
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5424
Gateway Drilling	km 636.1	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7086538m E346523m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 041	1657	1.5 to 1.9	SILT with SAND(ML)	14.4	NP	NP	NP			
☒ 042	1658	3.0 to 3.4	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	2.3	NP	NP	NP	1.0	5.2	0.13
▲ 043	1659	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	10.2	NP	NP	NP			

Field #	Lab #	%PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	041	1657	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.9	89.2	86.4	83.7	81.0	78.6	73.1	7.1	19.8	73.1	
☒	042	1658	100.0	100.0	100.0	100.0	100.0	96.7	93.9	84.3	74.4	63.5	43.7	25.1	11.5	6.1	15.7	78.2	6.1	
▲	043	1659	100.0	100.0	100.0	100.0	93.4	92.3	89.6	80.4	72.3	66.4	61.1	56.2	51.8	42.6	19.6	37.8	42.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



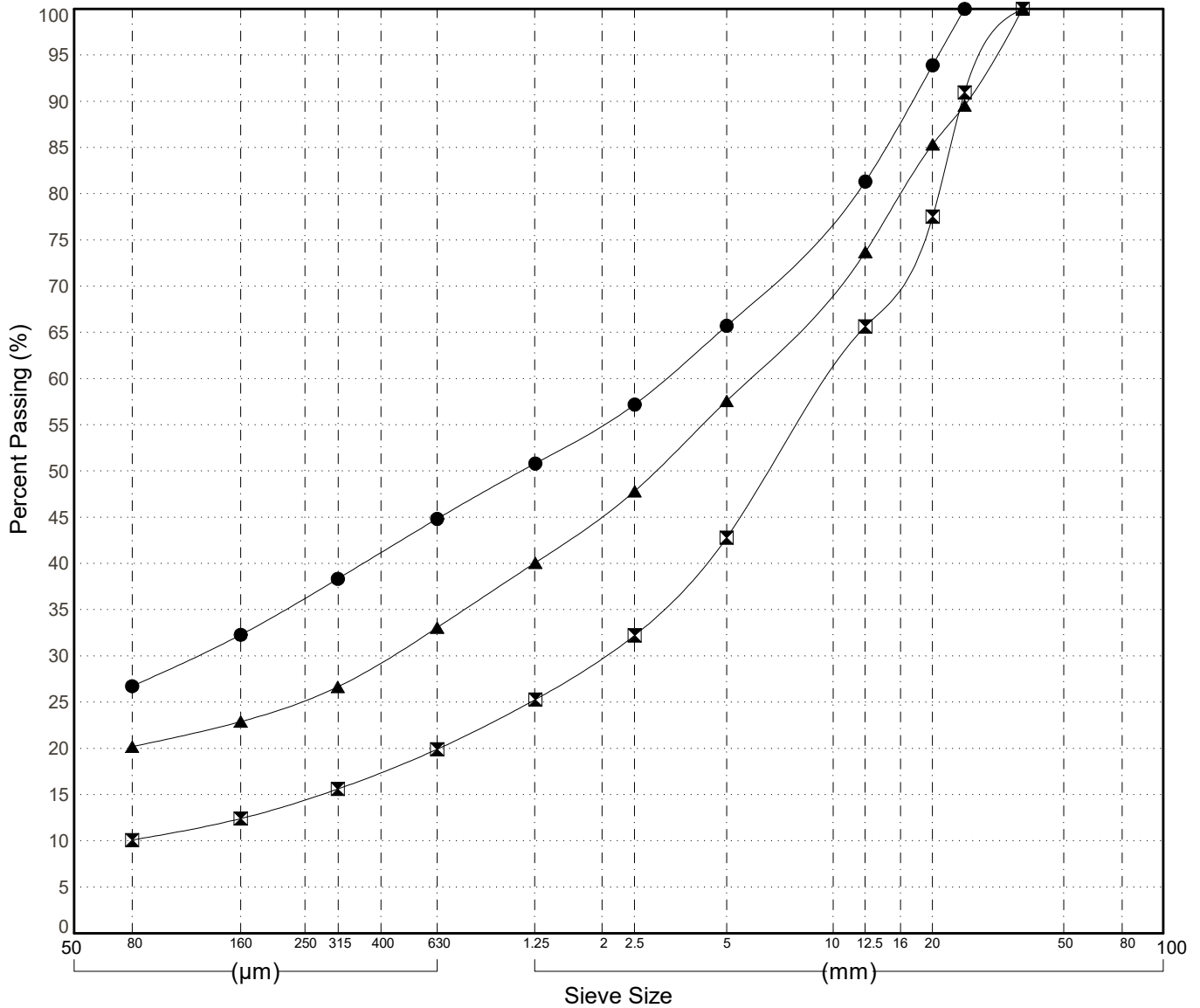
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5425
Gateway Drilling	km 636.3	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7086612m E346329m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 044	1660	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	4.1	NP	NP	NP			
☒ 045	1661	3.0 to 3.4	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	0.6	NP	NP	NP	5.6	135.0	
▲ 046	1662	4.5 to 4.9	SILTY GRAVEL with SAND(GM)	16.2	NP	NP	NP			

Field #	Lab #	%PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	044	1660	100.0	100.0	100.0	100.0	93.9	81.3	77.7	65.7	55.1	47.4	41.1	36.3	32.3	26.7	34.3	39.0	26.7	
☒	045	1661	100.0	100.0	100.0	91.0	77.5	65.6	60.4	42.8	30.0	22.3	17.5	14.5	12.4	10.1	57.2	32.7	10.1	
▲	046	1662	100.0	100.0	100.0	89.5	85.4	73.7	70.0	57.6	45.3	36.1	29.4	25.4	22.9	20.2	42.4	37.4	20.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



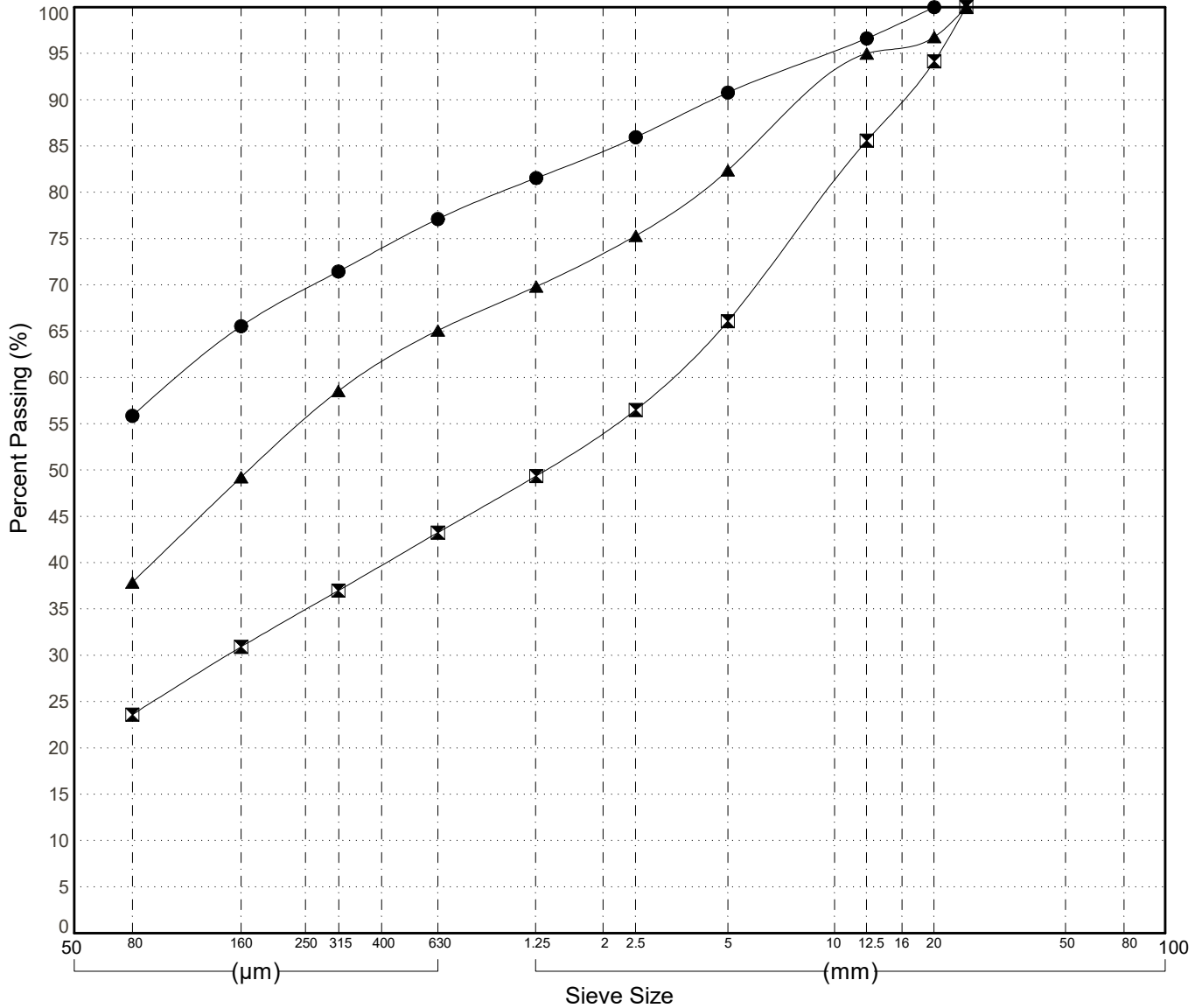
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5426
Gateway Drilling	km 636.5	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7086697m E346159m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 047	1663	1.5 to 1.9	SANDY SILT(ML)	9.4	NP	NP	NP			
☒ 048	1664	3.0 to 3.4	SILTY SAND with GRAVEL(SM)	7.6	NP	NP	NP			
▲ 049	1665	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	7.0	NP	NP	NP			

Field #	Lab #	%PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	047	1663	100.0	100.0	100.0	100.0	100.0	96.6	95.3	90.8	84.5	79.1	73.9	69.4	65.5	55.9	9.2	34.9	55.9	
☒	048	1664	100.0	100.0	100.0	100.0	94.1	85.6	81.1	66.1	54.2	45.9	39.7	34.9	30.9	23.6	33.9	42.5	23.6	
▲	049	1665	100.0	100.0	100.0	100.0	96.8	95.0	92.1	82.4	73.6	67.2	61.4	55.4	49.2	37.9	17.6	44.5	37.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



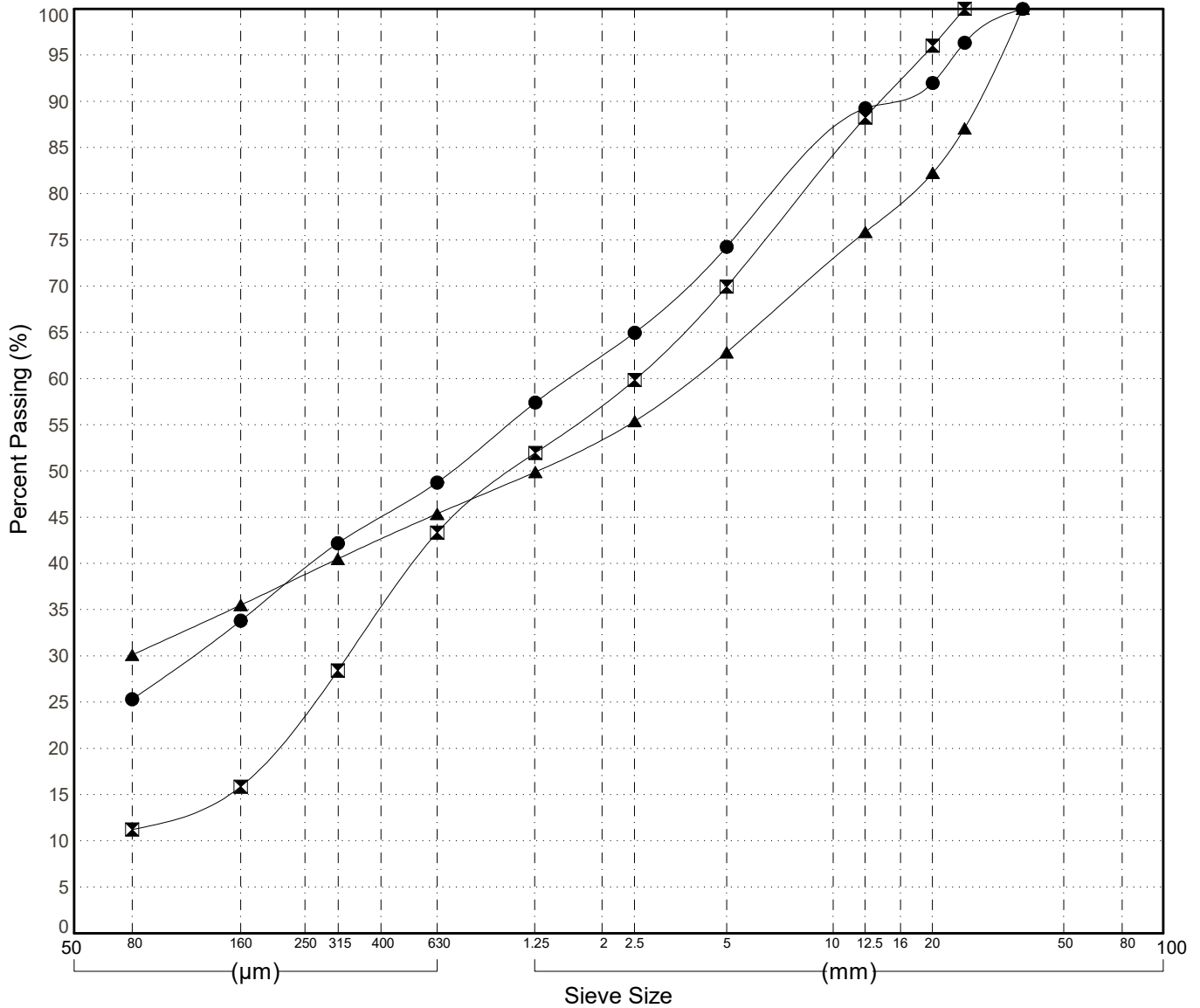
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5427
Gateway Drilling	km 636.7	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7086769m E345978m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 050	1666	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	5.4	NP	NP	NP			
☒ 051	1667	3.0 to 3.4	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	1.9	NP	NP	NP	0.7	41.1	
▲ 052	1668	4.5 to 4.9	SILTY GRAVEL with SAND(GM)	4.4	NP	NP	NP			

Field #	Lab #	%PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	050	1666	100.0	100.0	100.0	96.3	92.0	89.2	85.8	74.3	62.5	52.5	45.0	39.3	33.8	25.3	25.7	48.9	25.3	
☒	051	1667	100.0	100.0	100.0	100.0	96.0	88.3	84.0	70.0	57.3	47.1	34.9	24.1	15.9	11.2	30.0	58.7	11.2	
▲	052	1668	100.0	100.0	100.0	87.1	82.2	75.9	72.9	62.9	53.6	47.4	42.6	38.8	35.5	30.1	37.1	32.7	30.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



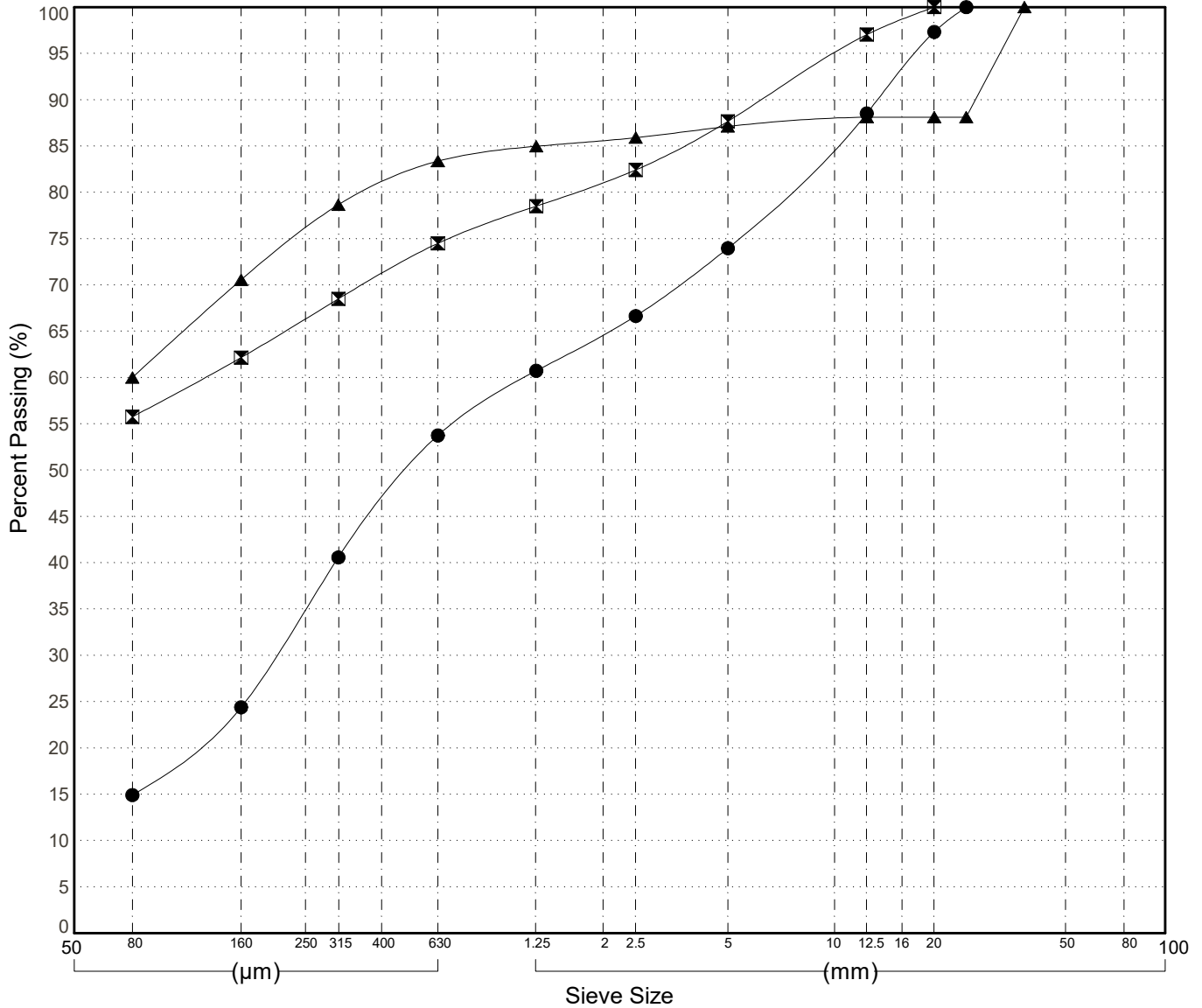
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5428
Gateway Drilling	km 636.9	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7086893m E345788m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 053	1669	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	3.7	NP	NP	NP			
☒ 054	1670	3.0 to 3.4	SANDY SILT(ML)	13.4	NP	NP	NP			
▲ 055	1671	4.5 to 4.9	SANDY SILT(ML)	12.7	NP	NP	NP			

Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
		% PASSING														Gravel	Sand	Silt	Clay
● 053	1669	100.0	100.0	100.0	100.0	97.3	88.5	85.2	74.0	64.7	56.8	46.3	35.1	24.4	14.9	26.0	59.1	14.9	
☒ 054	1670	100.0	100.0	100.0	100.0	100.0	97.0	94.9	87.7	81.2	76.2	71.1	66.3	62.2	55.8	12.3	31.9	55.8	
▲ 055	1671	100.0	100.0	100.0	88.1	88.1	88.1	87.9	87.1	85.6	84.1	80.7	75.9	70.6	60.0	12.9	27.1	60.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



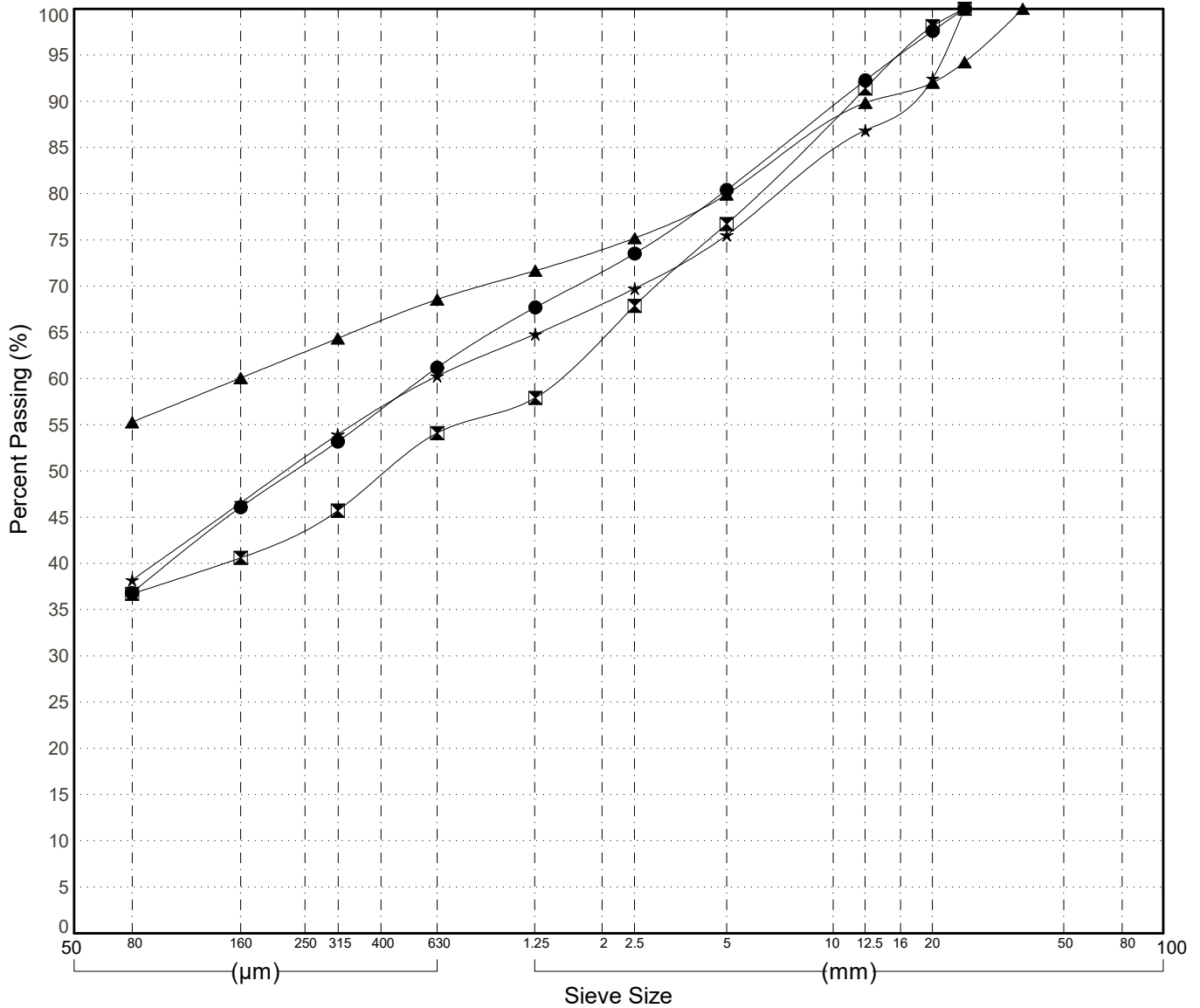
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5429
Gateway Drilling	km 637.1	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7087010m E345639m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 056	1672	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	5.9	NP	NP	NP			
☒ 057	1673	3.0 to 3.4	SILTY SAND with GRAVEL(SM)	7.2	NP	NP	NP			
▲ 058	1674	4.5 to 4.9	SANDY SILT with GRAVEL(ML)	9.1	NP	NP	NP			
★ 059	1675	6.0 to 6.4	SILTY SAND with GRAVEL(SM)	9.2	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	2.0	0.850	0.400	0.250	0.160	0.080	Gravel	Sand	Silt	Clay
●	056	1672	100.0	100.0	100.0	100.0	97.6	92.3	89.5	80.4	71.7	64.0	56.7	50.8	46.1	36.8	19.6	43.6	36.8	
☒	057	1673	100.0	100.0	100.0	100.0	98.1	91.4	88.0	76.7	64.7	55.8	49.3	44.0	40.6	36.7	23.3	40.0	36.7	
▲	058	1674	100.0	100.0	100.0	94.2	92.0	89.8	87.6	79.9	74.1	69.9	66.2	62.9	60.1	55.3	20.1	24.6	55.3	
★	059	1675	100.0	100.0	100.0	100.0	92.5	86.9	84.2	75.5	68.2	62.3	56.7	51.4	46.6	38.2	24.5	37.3	38.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

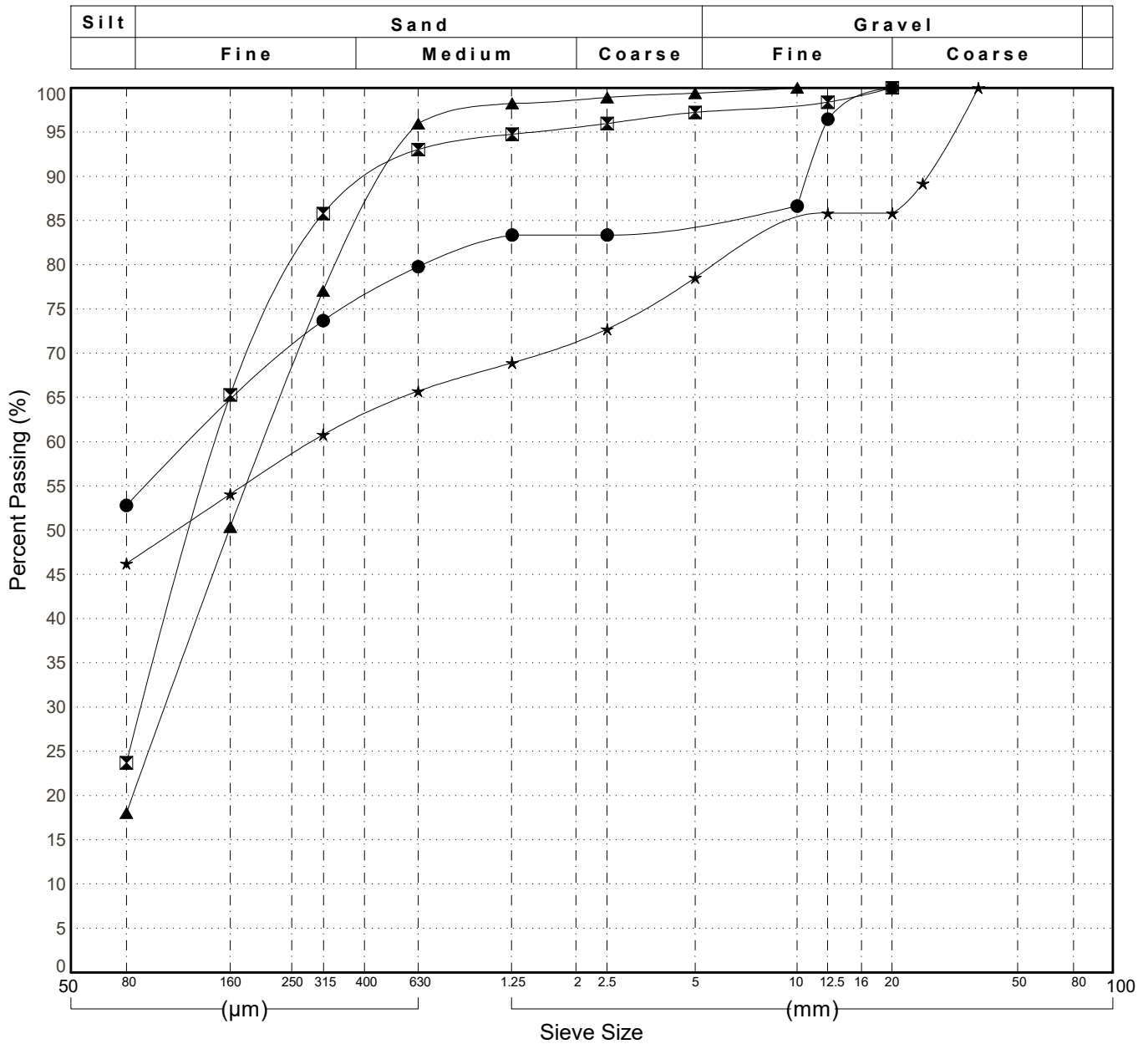


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5430
Gateway Drilling	km 637.3	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7087113m E345494m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 060	1676	1.5 to 1.9	SANDY SILT with GRAVEL(ML)	10.0	NP	NP	NP			
☒ 061	1677	3.0 to 3.4	SILTY SAND(SM)	4.9	NP	NP	NP			
▲ 062	1678	4.5 to 4.9	SILTY SAND(SM)	17.6	NP	NP	NP			
★ 063	1679	6.0 to 6.4	SILTY SAND with GRAVEL(SM)	11.1	NP	NP	NP			

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 060	1676	100.0	100.0	100.0	100.0	100.0	96.5	86.7	84.9	83.4	81.4	76.3	70.3	63.8	52.8	15.1	32.1	52.8		
☒ 061	1677	100.0	100.0	100.0	100.0	100.0	98.4	98.1	97.2	95.6	93.8	88.9	78.8	65.3	23.7	2.8	73.5	23.7		
▲ 062	1678	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	98.7	97.0	85.2	68.0	50.4	18.0	0.6	81.4	18.0		
★ 063	1679	100.0	100.0	100.0	89.2	85.8	85.8	84.2	78.5	71.5	67.1	62.9	58.5	54.1	46.2	21.5	32.3	46.2		

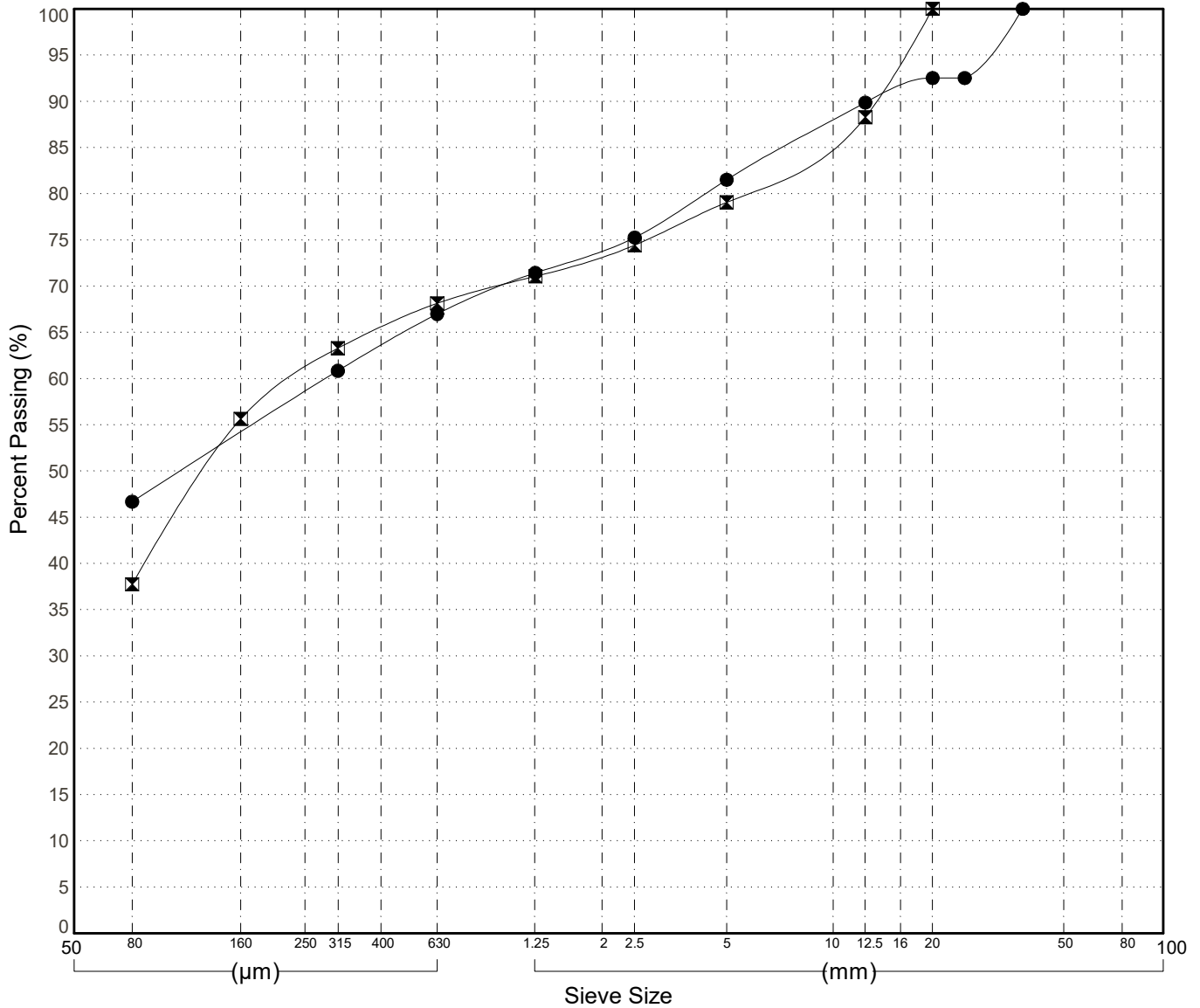


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5431
Gateway Drilling	km 637.5	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7087264m E345297m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10										
● 064	1680	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	9.7	NP	NP	NP													
☒ 066	1682	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	9.9	NP	NP	NP													
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown				
● 064	1680	100.0	100.0	100.0	92.5	92.5	89.9	87.9	81.5	74.0	68.9	63.5	58.6	54.2	46.7	Gravel	Sand	Silt	Clay	
☒ 066	1682	100.0	100.0	100.0	100.0	100.0	88.3	86.2	79.1	73.4	69.4	65.4	60.7	55.6	37.8	20.9	41.3		37.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

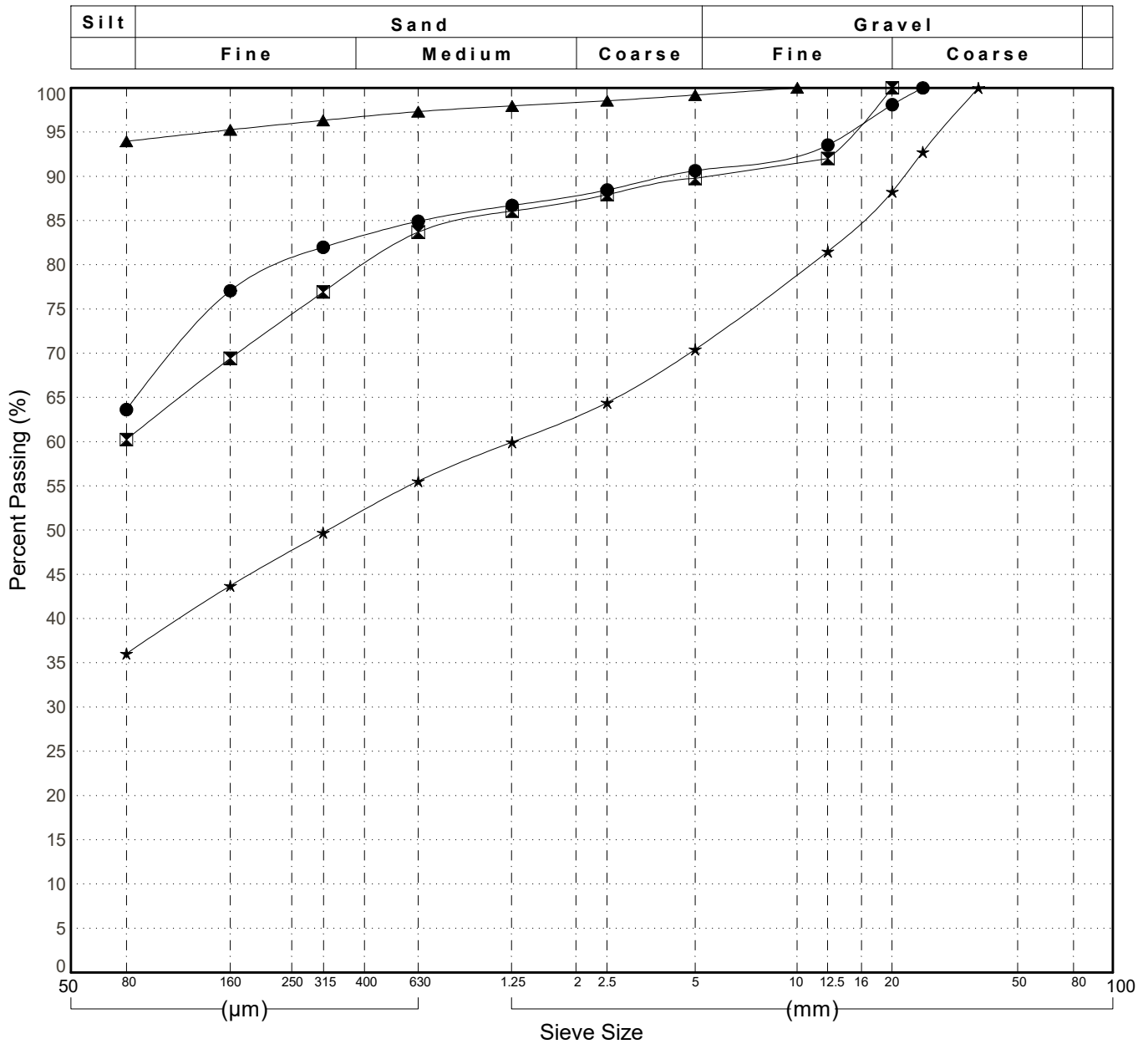


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5432
Gateway Drilling	km 637.8	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7087381m E345133m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 068	1684	1.5 to 1.9	SANDY SILT(ML)	10.3	NP	NP	NP			
☒ 069	1685	3.0 to 3.4	SANDY SILT(ML)	7.8	NP	NP	NP			
▲ 070	1686	4.5 to 4.9	SILT(ML)	28.3	NP	NP	NP			
★ 071	1687	6.0 to 6.4	SILTY SAND with GRAVEL(SM)	6.7	NP	NP	NP			

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	068	1684	100.0	100.0	100.0	100.0	98.1	93.5	92.9	90.6	87.9	85.7	83.3	80.3	77.1	63.6	9.4	27.0	63.6	
☒	069	1685	100.0	100.0	100.0	100.0	92.0	91.5	89.8	87.3	84.7	79.9	74.4	69.4	60.2	10.2	29.5	60.2		
▲	070	1686	100.0	100.0	100.0	100.0	100.0	100.0	99.2	98.4	97.6	96.8	96.0	95.3	94.0	0.8	5.2	94.0		
★	071	1687	100.0	100.0	100.0	92.8	88.3	81.5	79.0	70.4	63.0	57.5	52.2	47.7	43.7	36.1	29.6	34.4	36.1	



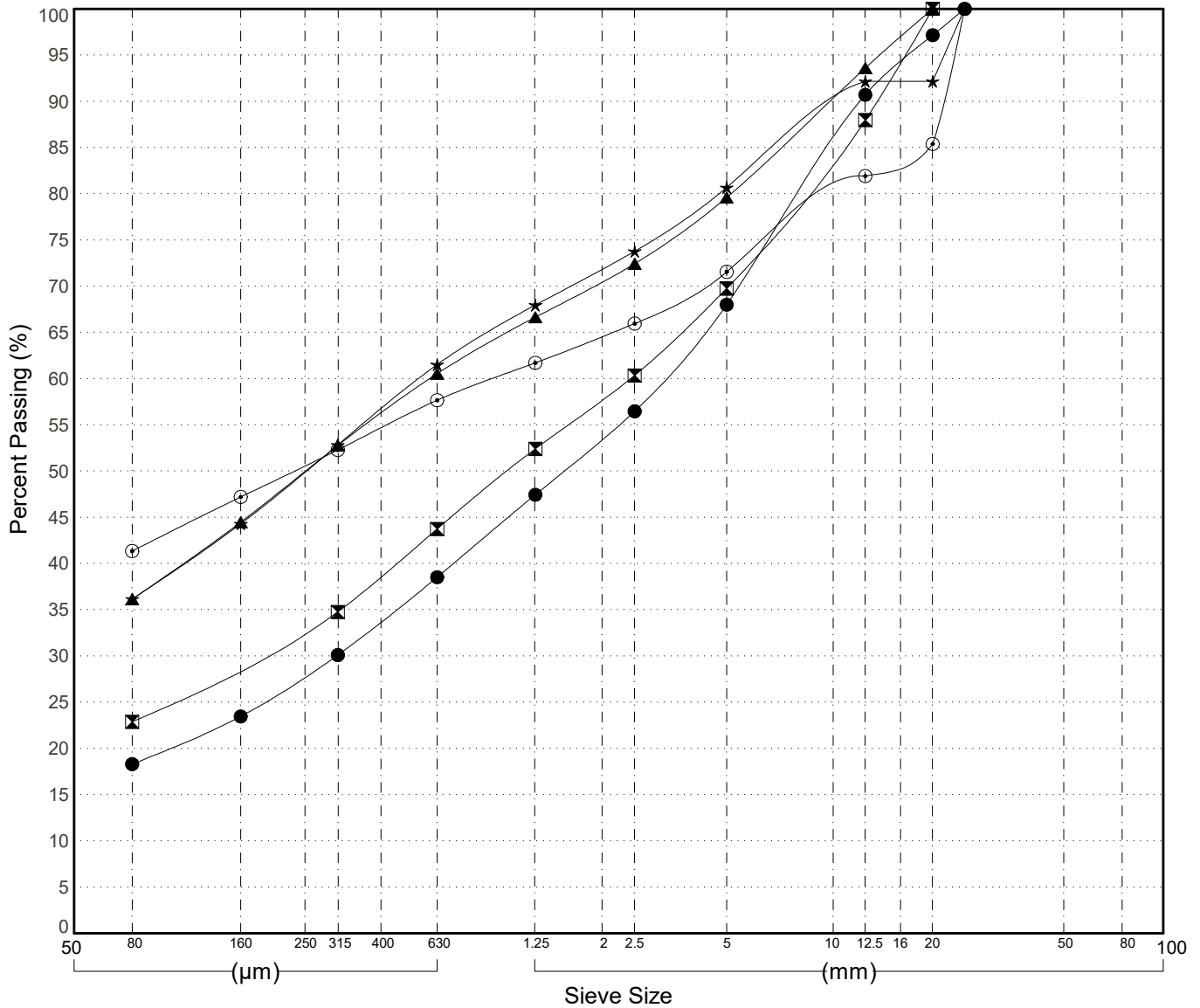
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5433
Gateway Drilling	km 638.1	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7087506m E344968m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 072	1688	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	3.2	NP	NP	NP			
☒ 073	1689	3.0 to 3.4	SILTY SAND with GRAVEL(SM)	3.0	NP	NP	NP			
▲ 074	1690	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	4.9	NP	NP	NP			
★ 075	1691	6.0 to 6.4	SILTY SAND with GRAVEL(SM)	3.7	NP	NP	NP			
⊙ 076	1693	7.5 to 7.9	SILTY SAND with GRAVEL(SM)	5.7	NP	NP	NP			

Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
		% PASSING														Gravel	Sand	Silt	Clay
● 072	1688	100.0	100.0	100.0	100.0	97.2	90.7	85.5	68.0	53.6	42.4	33.7	27.8	23.5	18.3	32.0	49.7	18.3	
☒ 073	1689	100.0	100.0	100.0	100.0	100.0	88.0	83.8	69.8	57.8	47.5	38.6	32.9	29.2	22.9	30.2	46.9	22.9	
▲ 074	1690	100.0	100.0	100.0	100.0	100.0	93.6	90.4	79.6	70.6	63.2	56.1	49.9	44.5	36.1	20.4	43.5	36.1	
★ 075	1691	100.0	100.0	100.0	100.0	92.2	92.2	89.5	80.7	71.9	64.3	56.6	49.9	44.3	36.2	19.3	44.5	36.2	
⊙ 076	1693	100.0	100.0	100.0	100.0	85.4	81.9	79.5	71.6	64.6	59.4	54.6	50.5	47.2	41.3	28.4	30.2	41.3	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



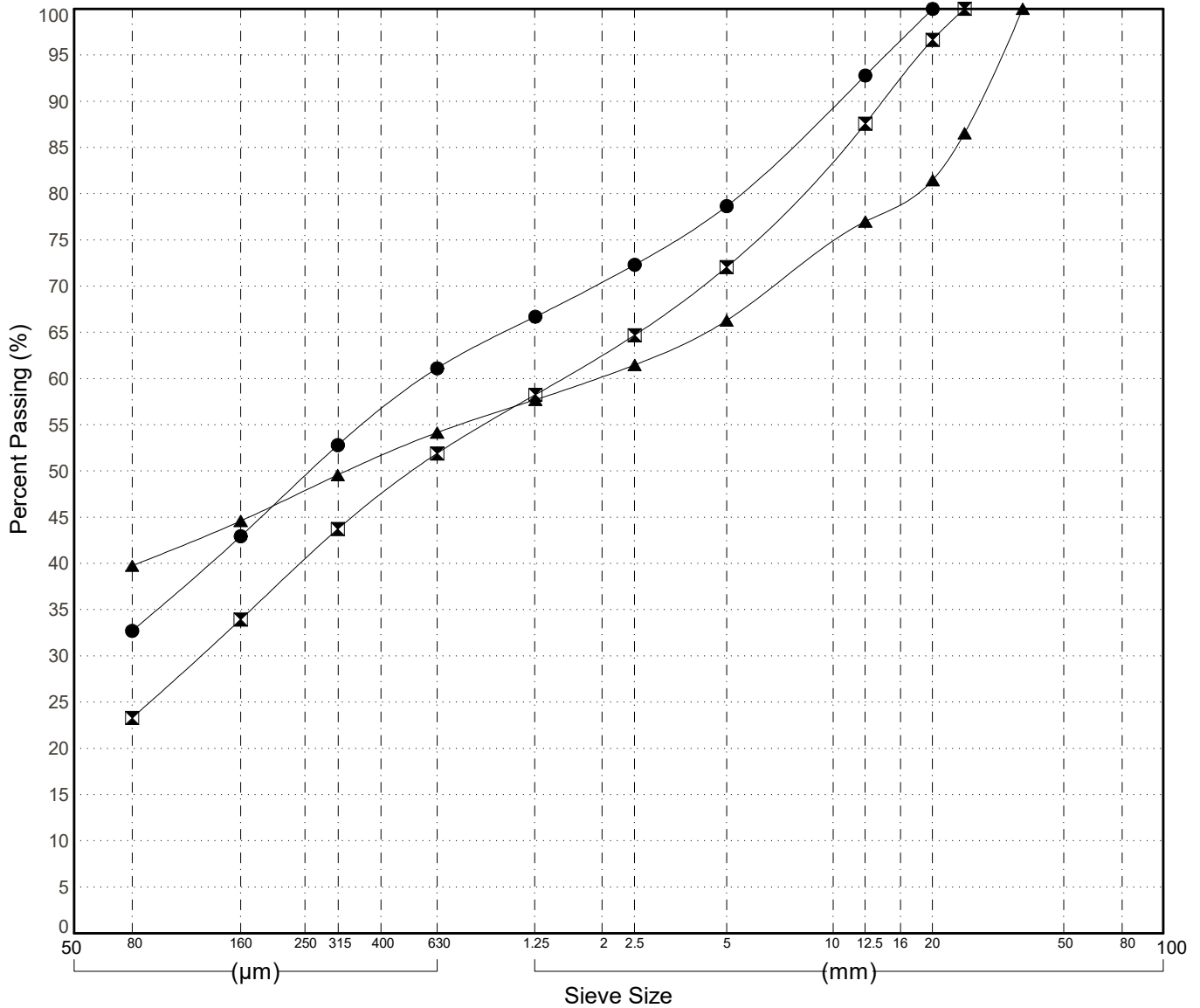
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5434
Gateway Drilling	km 638.3	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7087651m E344780m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 078	1698	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	4.8	NP	NP	NP			
☒ 079	1696	3.0 to 3.4	SILTY SAND with GRAVEL(SM)	4.9	NP	NP	NP			
▲ 080	1700	4.5 to 4.9	SILTY GRAVEL with SAND(GM)	7.6	NP	NP	NP			

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	078	1698	100.0	100.0	100.0	100.0	100.0	92.8	89.5	78.7	70.5	63.6	56.4	49.4	43.0	32.7	21.3	45.9	32.7	
☒	079	1696	100.0	100.0	100.0	100.0	96.7	87.6	84.0	72.1	62.6	54.7	47.3	40.4	33.9	23.3	27.9	48.8	23.3	
▲	080	1700	100.0	100.0	100.0	86.6	81.5	77.0	74.5	66.3	60.3	55.7	51.6	47.9	44.6	39.8	33.7	26.5	39.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

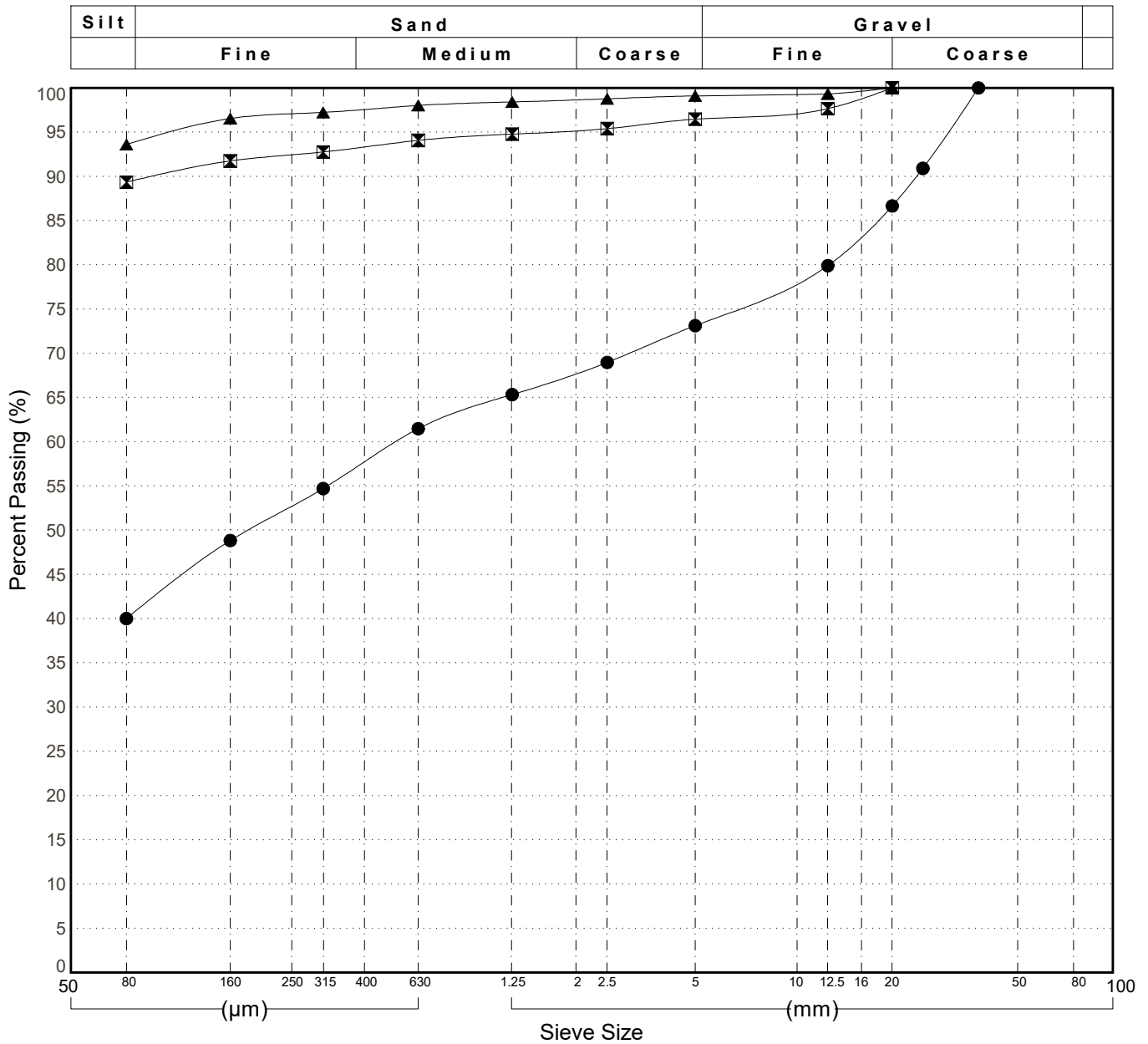


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5435
Gateway Drilling	km 638.5	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7087743m E344619m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 081	1701	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	4.6	NP	NP	NP			
☒ 082	1702	3.0 to 3.4	SILT(ML)	11.2	NP	NP	NP			
▲ 083	1703	4.5 to 4.9	SILT(ML)	13.5	NP	NP	NP			

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 081	1701	100.0	100.0	100.0	90.9	86.7	79.9	78.3	73.1	67.8	63.2	57.6	52.7	48.8	40.0	26.9	33.1	40.0		
☒ 082	1702	100.0	100.0	100.0	100.0	97.7	97.4	96.5	95.2	94.4	93.3	92.4	91.7	89.3	3.5	7.1	89.3			
▲ 083	1703	100.0	100.0	100.0	100.0	99.3	99.3	99.1	98.7	98.2	97.6	97.0	96.5	93.6	0.9	5.5	93.6			

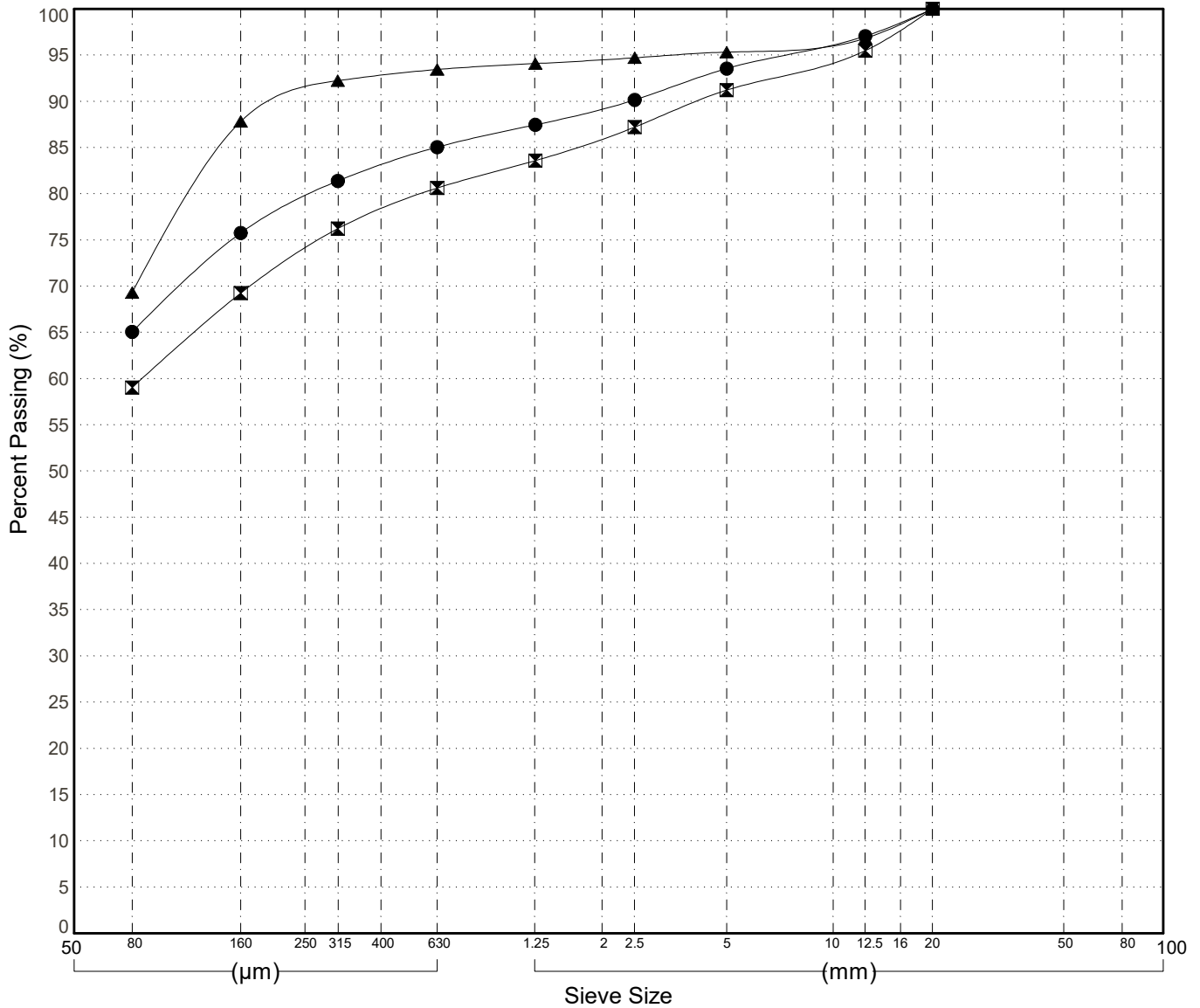


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5436
Gateway Drilling	km 638.7	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7087791m E344452m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification													%H2O	LL	PL	PI	Cc	Cu	D10
● 084	1704	1.5 to 1.9	SANDY SILT (ML)													11.1	NP	NP	NP			
☒ 085	1705	3.0 to 3.4	SANDY SILT (ML)													1.7	NP	NP	NP			
▲ 086	1706	4.5 to 4.9	SANDY SILT (ML)													7.8	NP	NP	NP			
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown						
● 084	1704	100.0	100.0	100.0	100.0	100.0	97.1	96.2	93.5	89.3	86.1	83.0	79.5	75.8	65.1	Gravel	Sand	Silt	Clay			
☒ 085	1705	100.0	100.0	100.0	100.0	100.0	95.5	94.5	91.2	86.0	81.9	78.1	73.8	69.3	59.0	6.5	28.5	65.1				
▲ 086	1706	100.0	100.0	100.0	100.0	100.0	96.8	96.5	95.3	94.5	93.7	92.8	90.7	87.8	69.3	4.7	26.0	69.3				

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

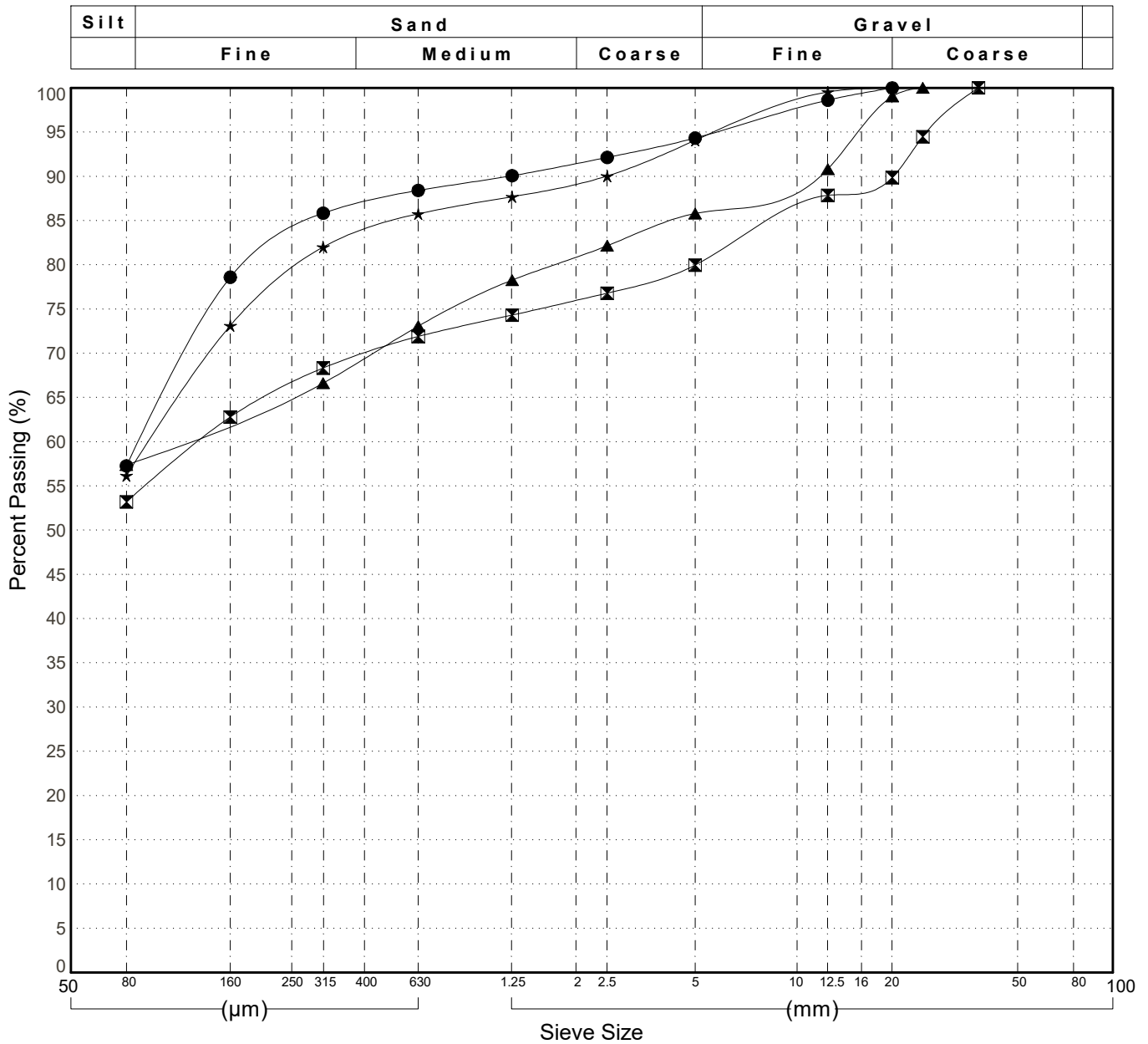


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5437
Gateway Drilling	km 638.9	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7087828m E344232m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 087	1707	1.5 to 1.9	SANDY SILT (ML)	9.0	NP	NP	NP			
☒ 088	17075	3.0 to 3.4	SANDY SILT with GRAVEL (ML)	9.2	NP	NP	NP			
▲ 088A	1708	4.5 to 4.9	SANDY SILT (ML)	10.7	NP	NP	NP			
★ 089	1709	4.6 to 4.9	SANDY SILT (ML)	9.6	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	2.0	0.850	0.400	0.250	0.160	0.080	Gravel	Sand	Silt
● 087	1707	100.0	100.0	100.0	100.0	100.0	98.6	97.6	94.3	91.5	89.1	87.0	83.4	78.6	57.3	5.7	37.1	57.3	
☒ 088	17075	100.0	100.0	100.0	94.5	89.9	87.9	86.0	80.0	76.0	73.0	69.9	66.4	62.8	53.2	20.0	26.8	53.2	
▲ 088A	1708	100.0	100.0	100.0	100.0	99.0	90.8	89.7	85.8	80.9	75.3	69.4	65.1	62.3	57.4	14.2	28.4	57.4	
★ 089	1709	100.0	100.0	100.0	100.0	99.5	98.3	94.1	89.3	86.6	83.6	79.0	73.1	56.2	5.9	37.9	56.2		



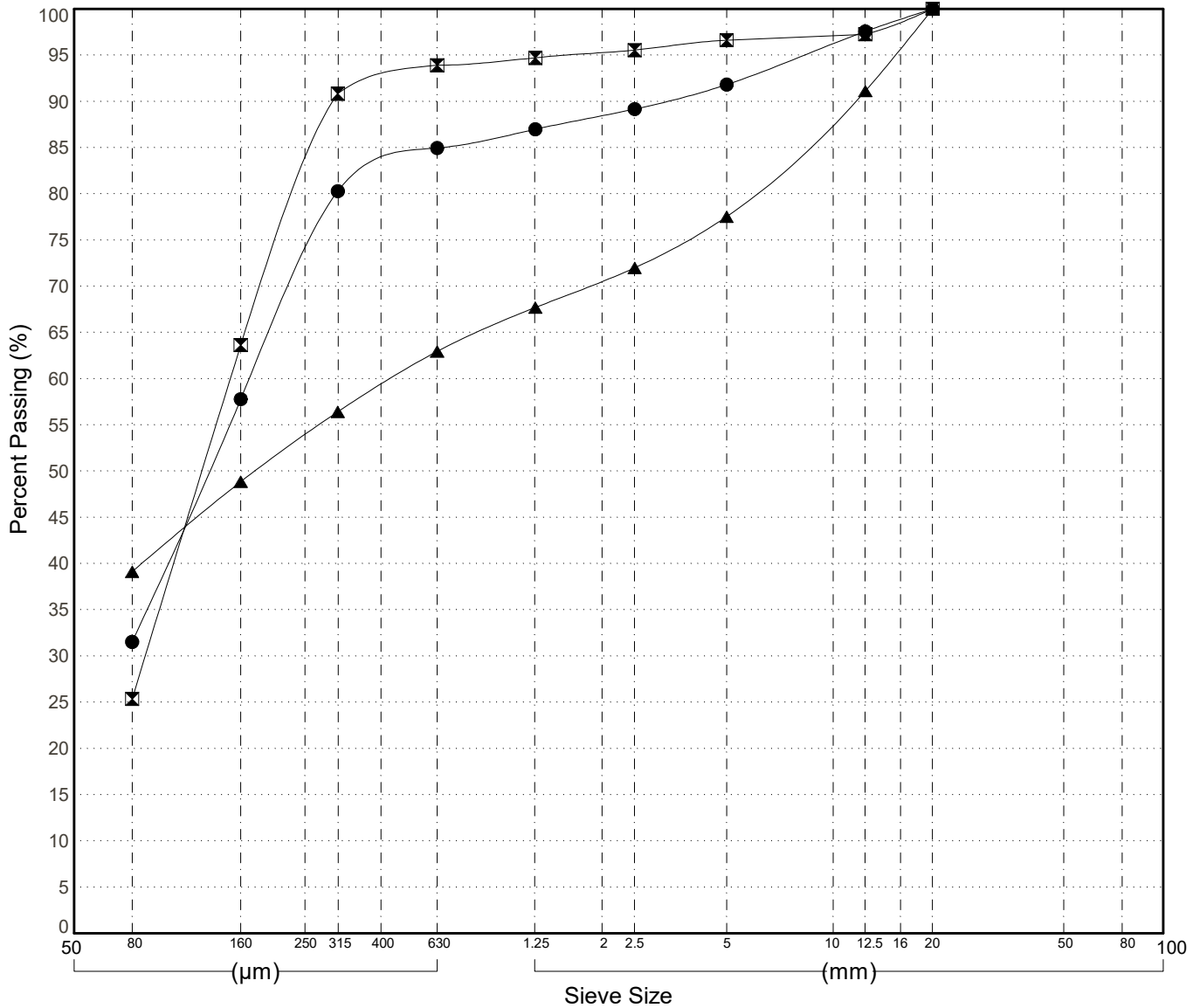
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5438
Gateway Drilling	km 639.1	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7087911m E344043m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 090	1710	1.5 to 1.9	SILTY SAND(SM)	5.7	NP	NP	NP			
☒ 091	1711	3.0 to 3.4	SILTY SAND(SM)	5.9	NP	NP	NP			
▲ 092	1712	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	5.7	NP	NP	NP			

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 090	1710	100.0	100.0	100.0	100.0	100.0	97.6	96.2	91.8	88.5	85.8	82.3	72.6	57.8	31.5	8.2	60.3	31.5		
☒ 091	1711	100.0	100.0	100.0	100.0	100.0	97.3	97.1	96.6	95.3	94.3	92.2	81.6	63.6	25.4	3.4	71.3	25.4		
▲ 092	1712	100.0	100.0	100.0	100.0	100.0	91.1	88.0	77.5	70.6	65.0	59.2	53.8	48.8	39.1	22.5	38.4	39.1		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

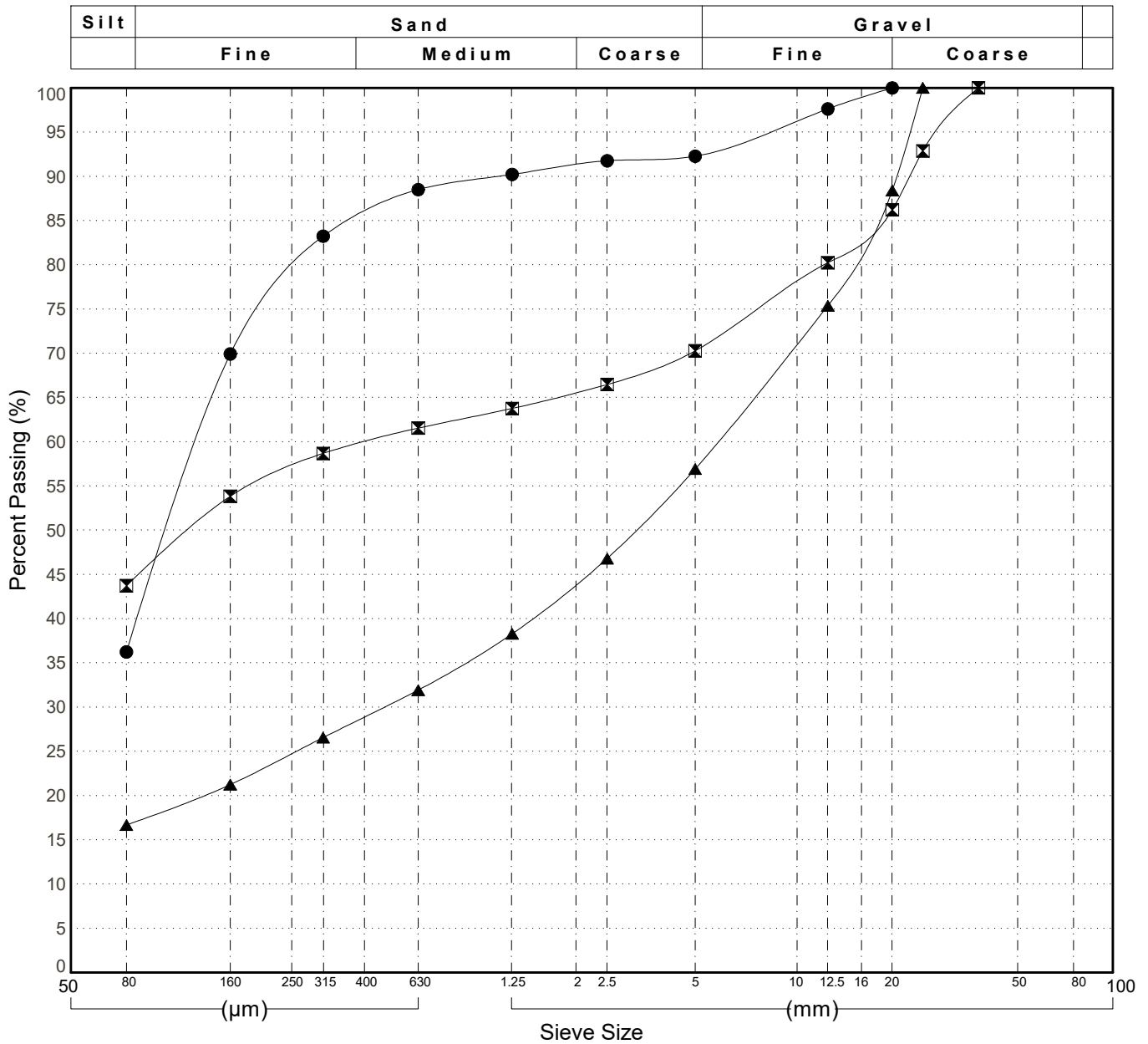


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5439
Gateway Drilling	km 639.3	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7088007m E343847m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 093	1713	1.5 to 1.9	SILTY SAND(SM)	1092.7	NP	NP	NP			
☒ 094	1714	3.0 to 3.4	SILTY GRAVEL with SAND(GM)	8.9	NP	NP	NP			
▲ 095	1715	4.5 to 4.9	SILTY GRAVEL with SAND(GM)	1.7	NP	NP	NP			

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 093	1713	100.0	100.0	100.0	100.0	100.0	97.6	96.4	92.3	91.3	89.3	85.5	78.7	69.9	36.2	7.7	56.0	36.2		
☒ 094	1714	100.0	100.0	100.0	92.9	86.2	80.2	77.9	70.3	65.6	62.5	59.9	57.0	53.8	43.7	29.7	26.5	43.7		
▲ 095	1715	100.0	100.0	100.0	100.0	88.4	75.4	71.1	56.9	44.1	34.7	28.9	24.7	21.2	16.7	43.1	40.2	16.7		

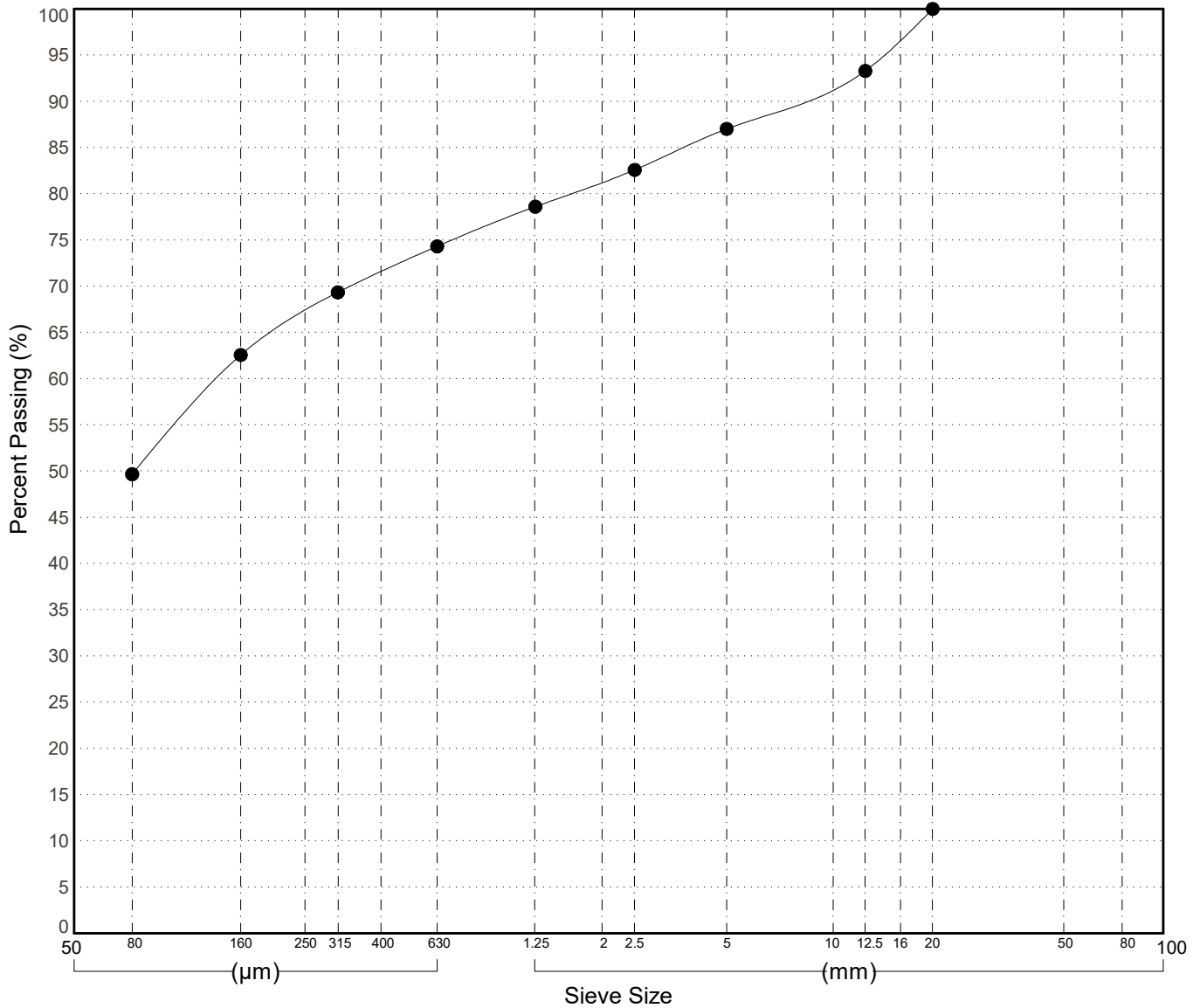


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5440
Gateway Drilling	km 639.6	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7088130m E343621m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification													%H2O	LL	PL	PI	Cc	Cu	D10
● 096	1716	1.5 to 1.9	SILTY SAND(SM)													9.6	NP	NP	NP			
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown						
● 096	1716	100.0	100.0	100.0	100.0	100.0	93.3	91.8	87.0	81.3	76.2	71.5	67.0	62.6	49.7	Gravel	Sand	Silt	Clay			
																13.0	37.4		49.7			

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

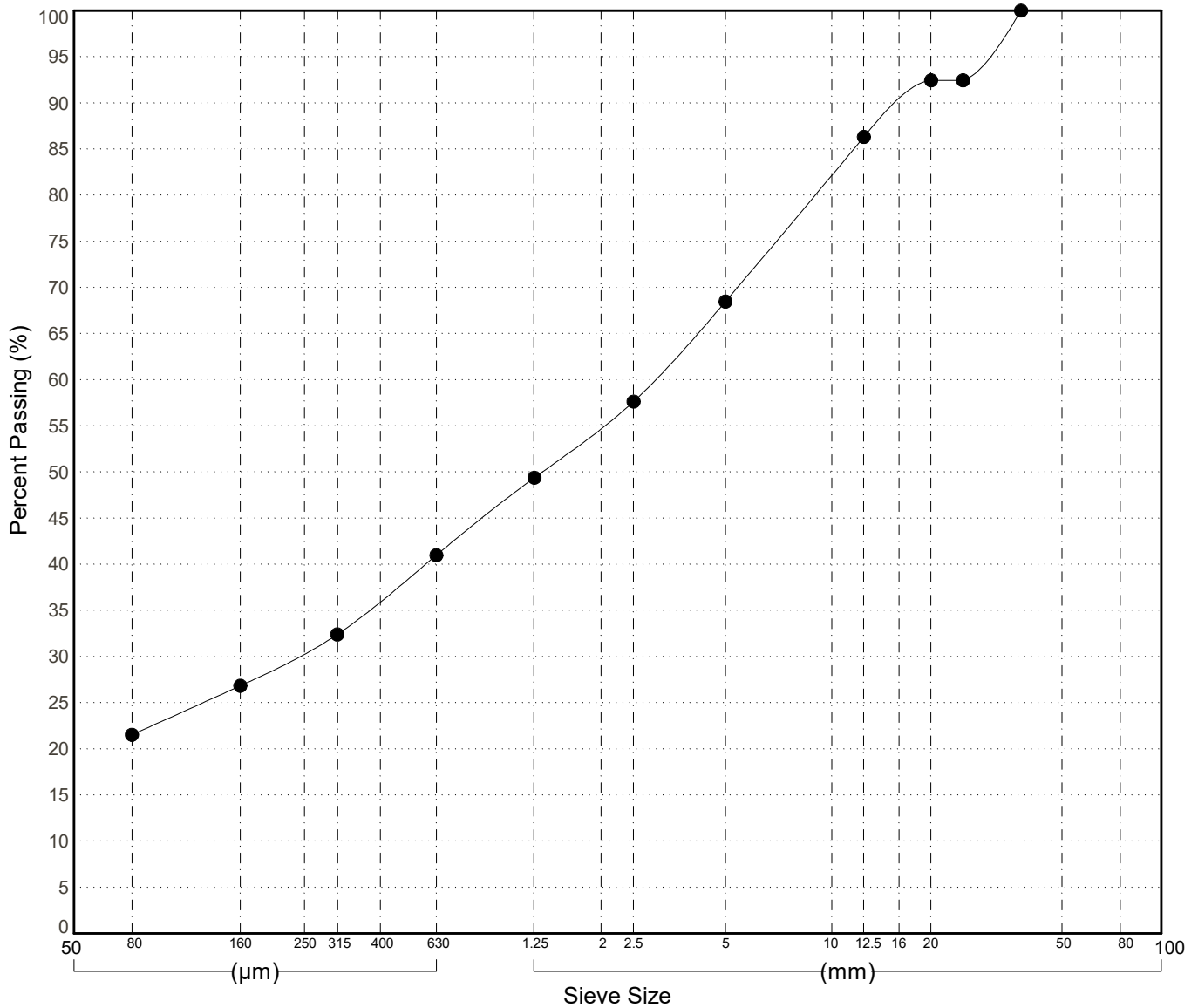


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5441
Gateway Drilling	km 639.7	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7088178m E343522m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification													%H2O	LL	PL	PI	Cc	Cu	D10
● 101	1721	1.5 to 1.9	SILTY SAND with GRAVEL(SM)													4.6	NP	NP	NP			
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown						
● 101	1721	100.0	100.0	100.0	92.4	92.4	86.3	82.2	68.5	55.0	44.7	36.1	30.5	26.8	21.5	Gravel	Sand	Silt	Clay			
																31.5	46.9		21.5			

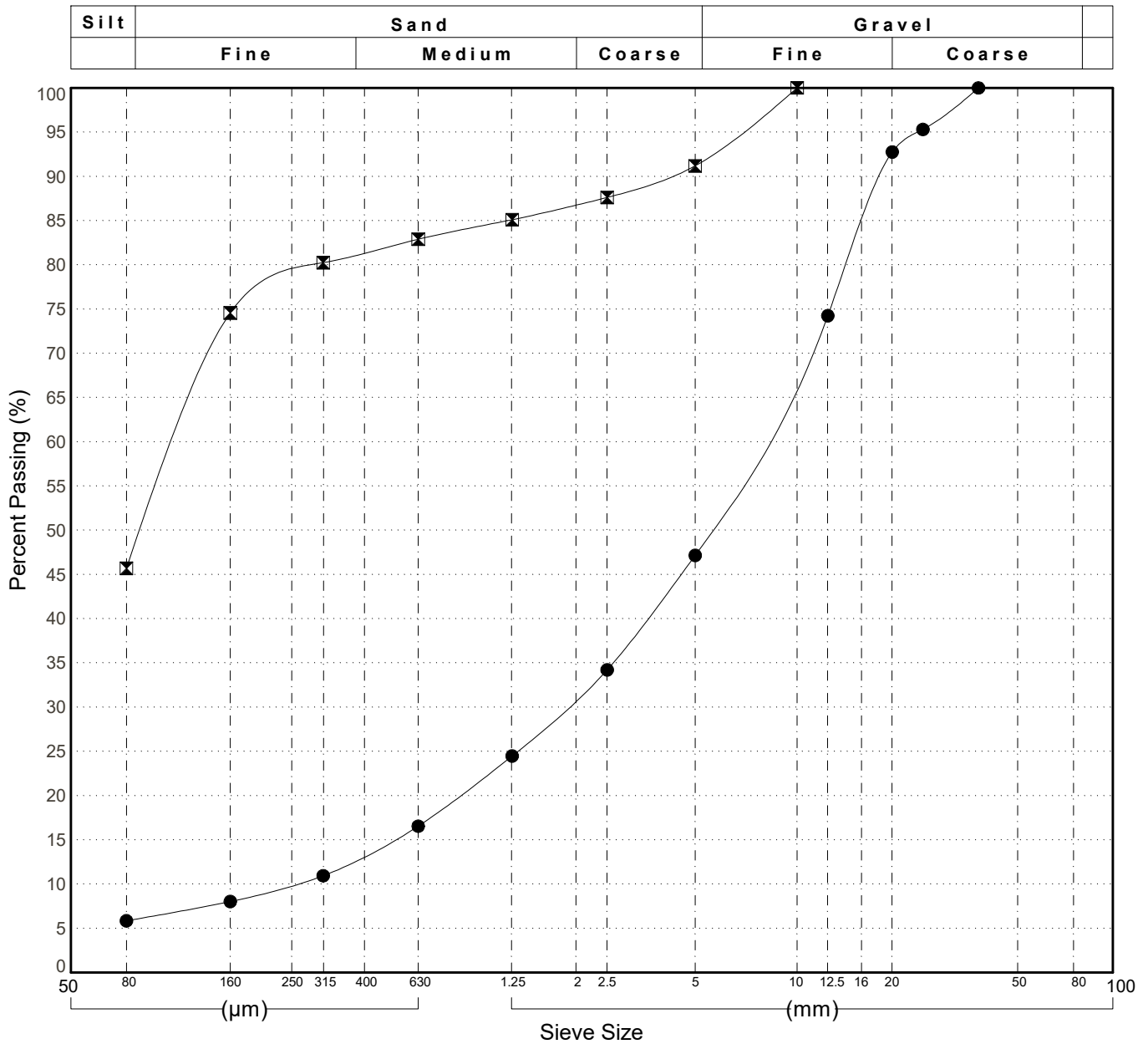
Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5442
Gateway Drilling	km 640.0	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7088306m E343290m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10										
● 104	1724	1.5 to 1.9	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	1.4	NP	NP	NP	1.8	29.7	0.25										
☒ 105	1725	3.0 to 3.4	SILTY SAND(SM)	5.9	NP	NP	NP													
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown				
● 104	1724	100.0	100.0	100.0	95.3	92.8	74.2	68.0	47.2	31.1	20.0	13.4	9.9	8.0	5.8	Gravel	Sand	Silt	Clay	
☒ 105	1725	100.0	100.0	100.0	100.0	100.0	100.0	100.0	91.2	86.8	83.9	81.4	78.3	74.6	45.7	8.8	45.5		5.8	



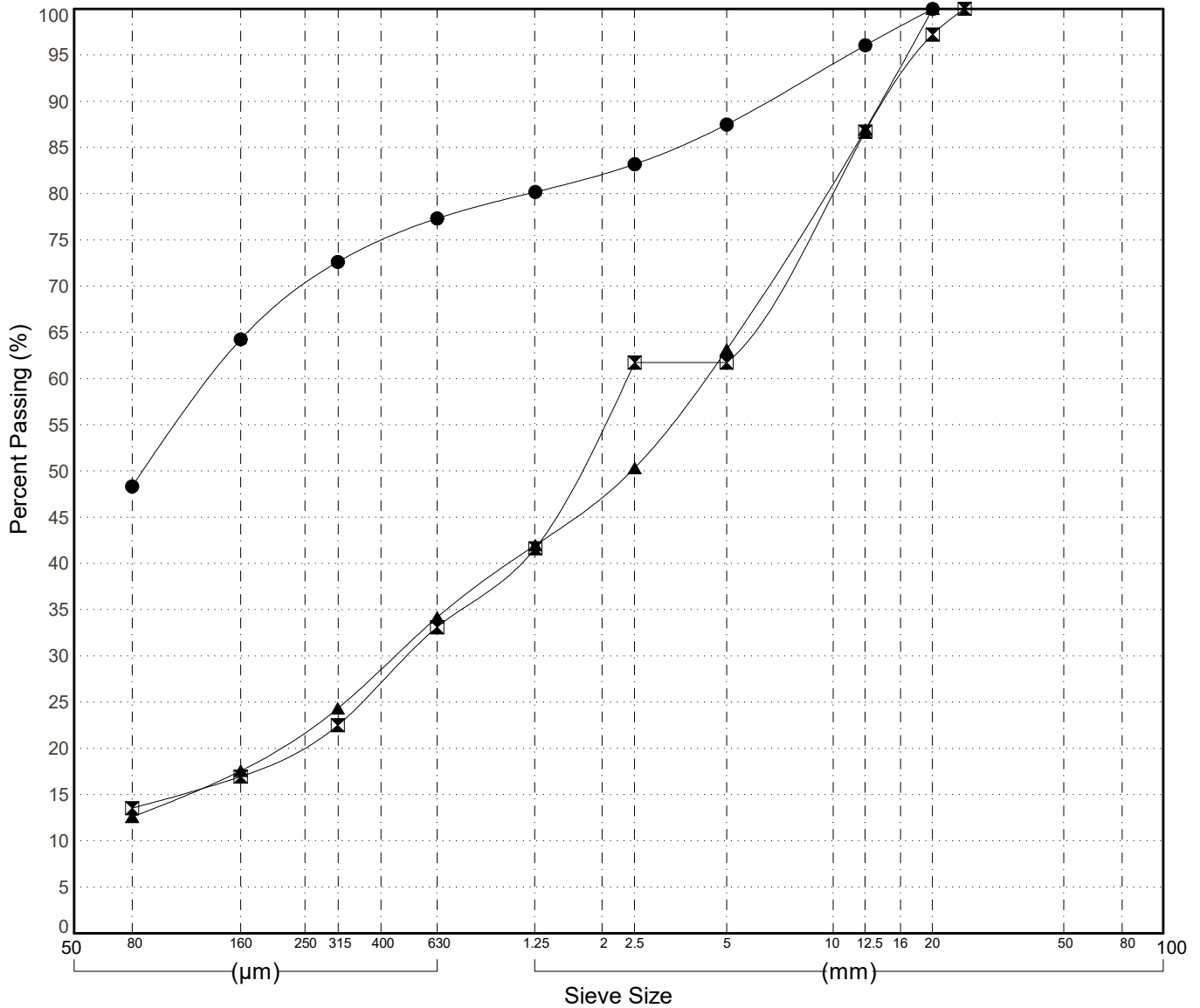
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5443
Gateway Drilling	km 640.2	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7088427m E343065m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 108	1728	1.5 to 1.9	SILTY SAND(SM)	9.4	NP	NP	NP			
☒ 109	1729	3.0 to 3.4	SILTY SAND with GRAVEL(SM)	6.7	NP	NP	NP			
▲ 110	1730	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	2.5	NP	NP	NP			

Field #	Lab #	%PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	108	1728	100.0	100.0	100.0	100.0	100.0	96.1	94.1	87.5	82.2	78.6	74.7	69.8	64.3	48.3	12.5	39.2	48.3	
☒	109	1729	100.0	100.0	100.0	100.0	97.2	86.7	81.0	61.7	55.3	36.8	27.1	20.6	17.0	13.5	38.3	48.2	13.5	
▲	110	1730	100.0	100.0	100.0	100.0	100.0	86.9	81.5	63.1	47.6	37.6	28.6	22.0	17.6	12.6	36.9	50.6	12.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



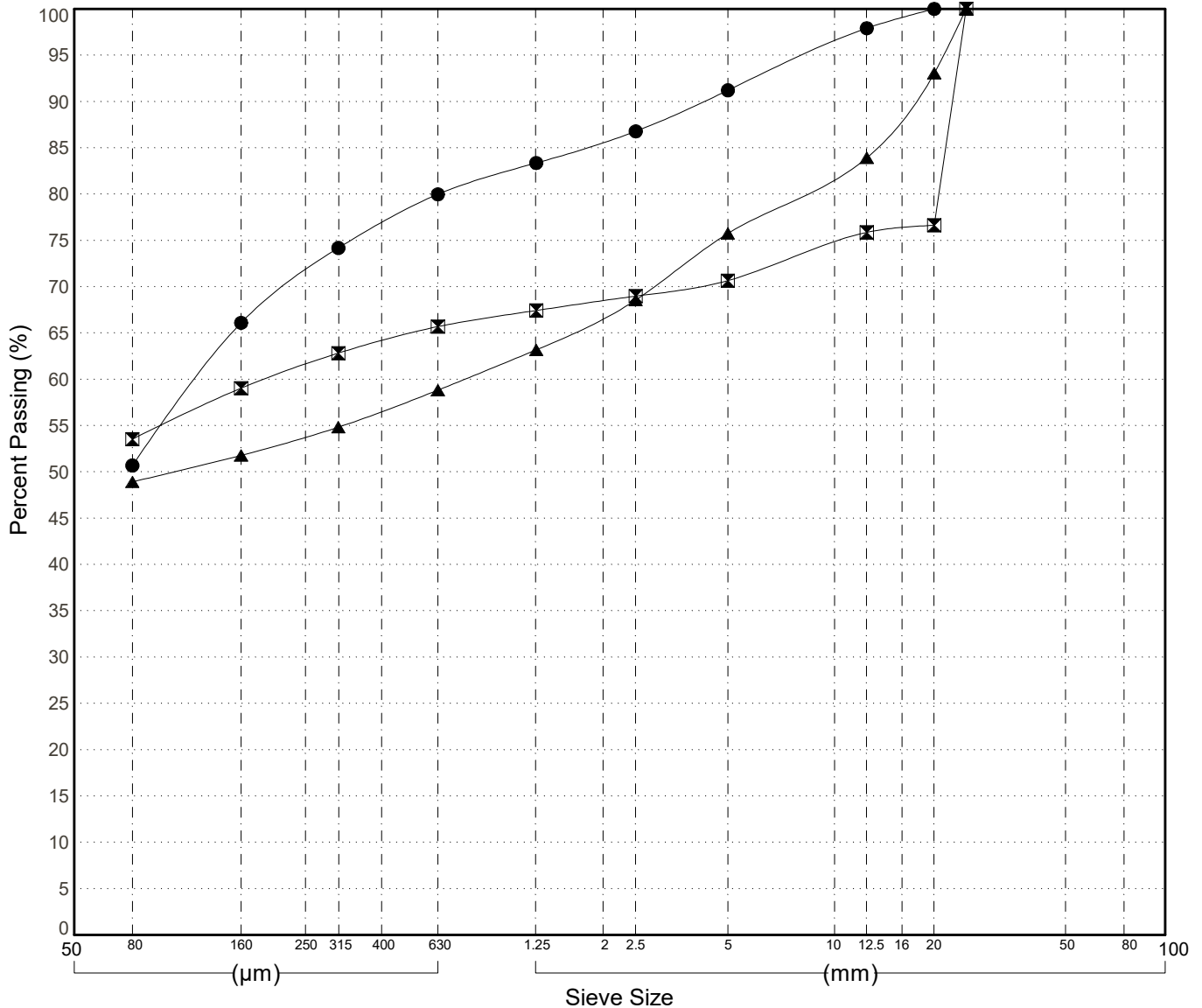
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5444
Gateway Drilling	km 640.4	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7088557m E342921m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
●	1731	1.0 to 1.9	SANDY SILT(ML)	9.6	NP	NP	NP			
☒	112	1732	3.0 to 3.4	11.6	NP	NP	NP			
▲	113	1733	4.5 to 4.9	9.6	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	2.0	0.850	0.400	0.250	0.160	0.080	Gravel	Sand	Silt
●	1731	100.0	100.0	100.0	100.0	100.0	97.9	96.4	91.2	85.7	81.5	76.7	71.4	66.1	50.7	8.8	40.5	50.7	
☒	112	100.0	100.0	100.0	100.0	76.6	75.9	74.7	70.7	68.5	66.5	64.1	61.5	59.0	53.5	29.3	17.1	53.5	
▲	113	100.0	100.0	100.0	100.0	93.1	83.9	82.0	75.7	66.8	60.7	56.6	53.8	48.9	24.3	26.8	48.9		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



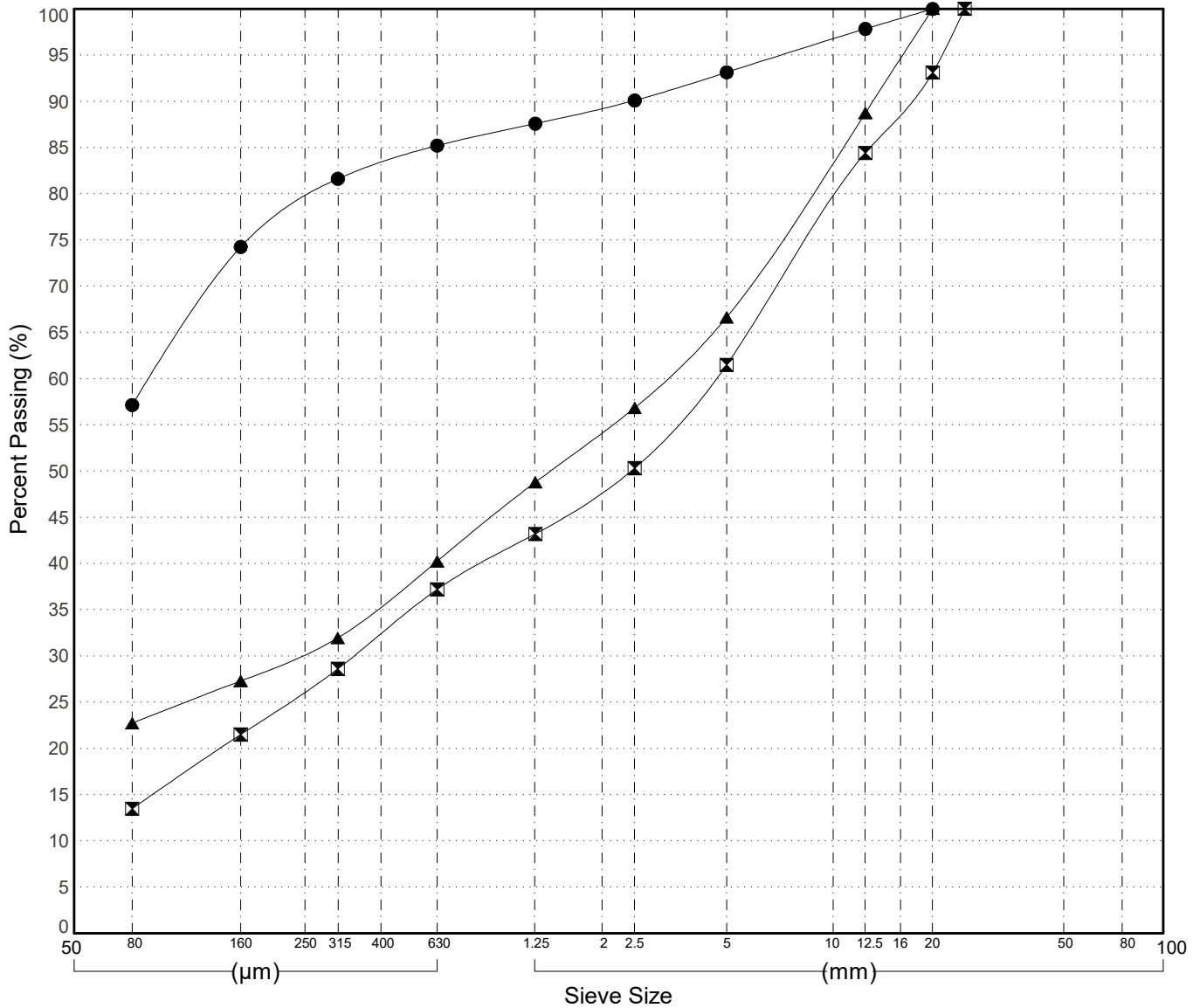
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5445
Gateway Drilling	km 640.4	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7088703m E342790m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 114	1734	1.5 to 1.9	SANDY SILT(ML)	10.1	NP	NP	NP			
☒ 115	1735	3.0 to 3.4	SILTY SAND with GRAVEL(SM)	2.2	NP	NP	NP			
▲ 116	1736	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	4.4	NP	NP	NP			

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	114	1734	100.0	100.0	100.0	100.0	100.0	97.8	96.8	93.1	89.3	86.3	83.2	79.1	74.3	57.1	6.9	36.0	57.1	
☒	115	1735	100.0	100.0	100.0	100.0	93.1	84.4	79.1	61.5	48.0	39.8	32.3	26.2	21.5	13.5	38.5	48.0	13.5	
▲	116	1736	100.0	100.0	100.0	100.0	100.0	88.7	83.6	66.6	54.2	44.0	35.5	30.4	27.3	22.7	33.4	43.9	22.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

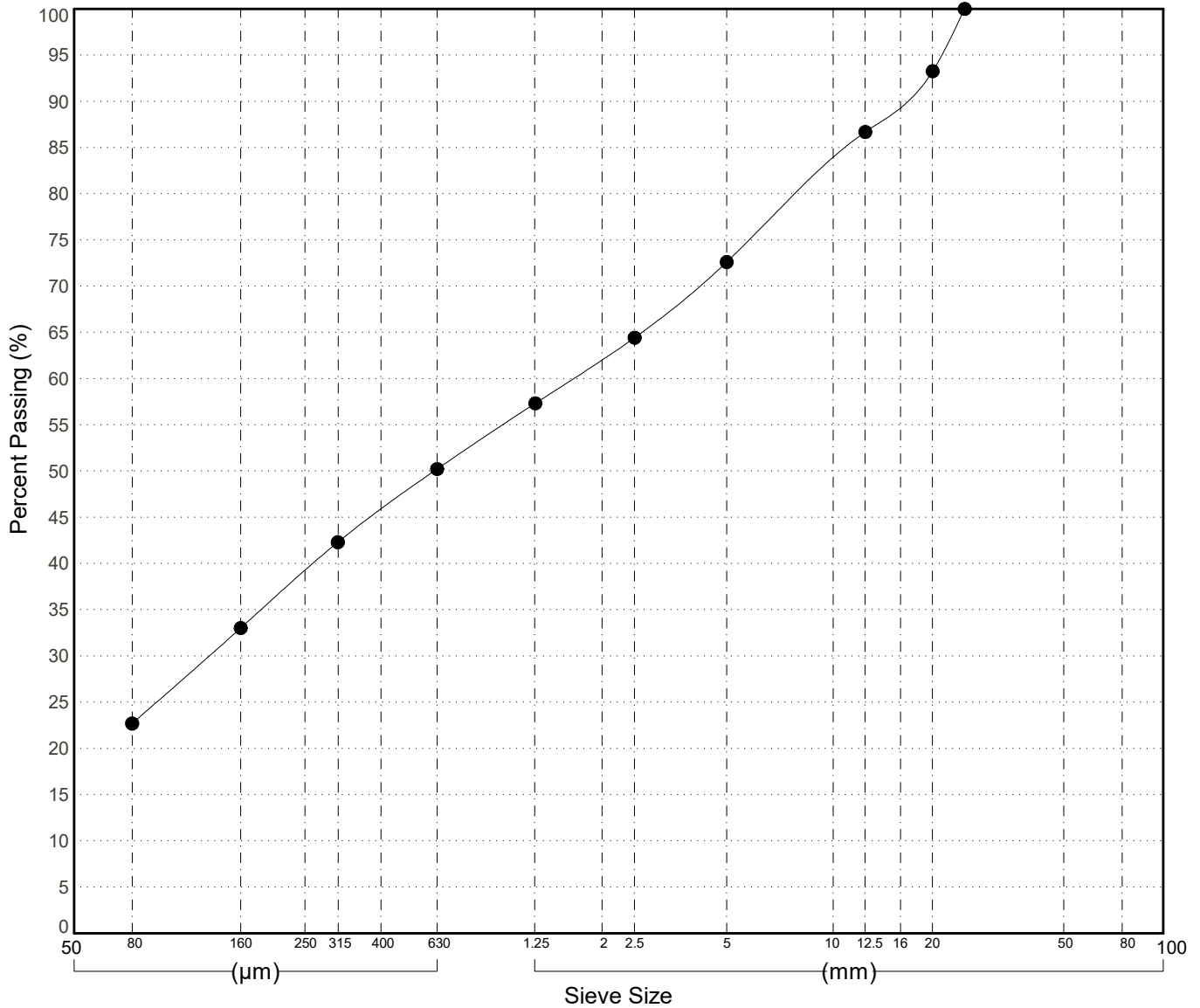


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5446
Gateway Drilling	km 640.8	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7088850m E342646m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification													%H2O	LL	PL	PI	Cc	Cu	D10
● 118	1738	3.0 to 3.4	SILTY SAND with GRAVEL(SM)													3.3	NP	NP	NP			
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown						
● 118	1738	100.0	100.0	100.0	100.0	93.3	86.7	83.4	72.6	62.1	53.3	45.7	39.1	33.0	22.7	Gravel	Sand	Silt	Clay			
																27.4	49.9		22.7			

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

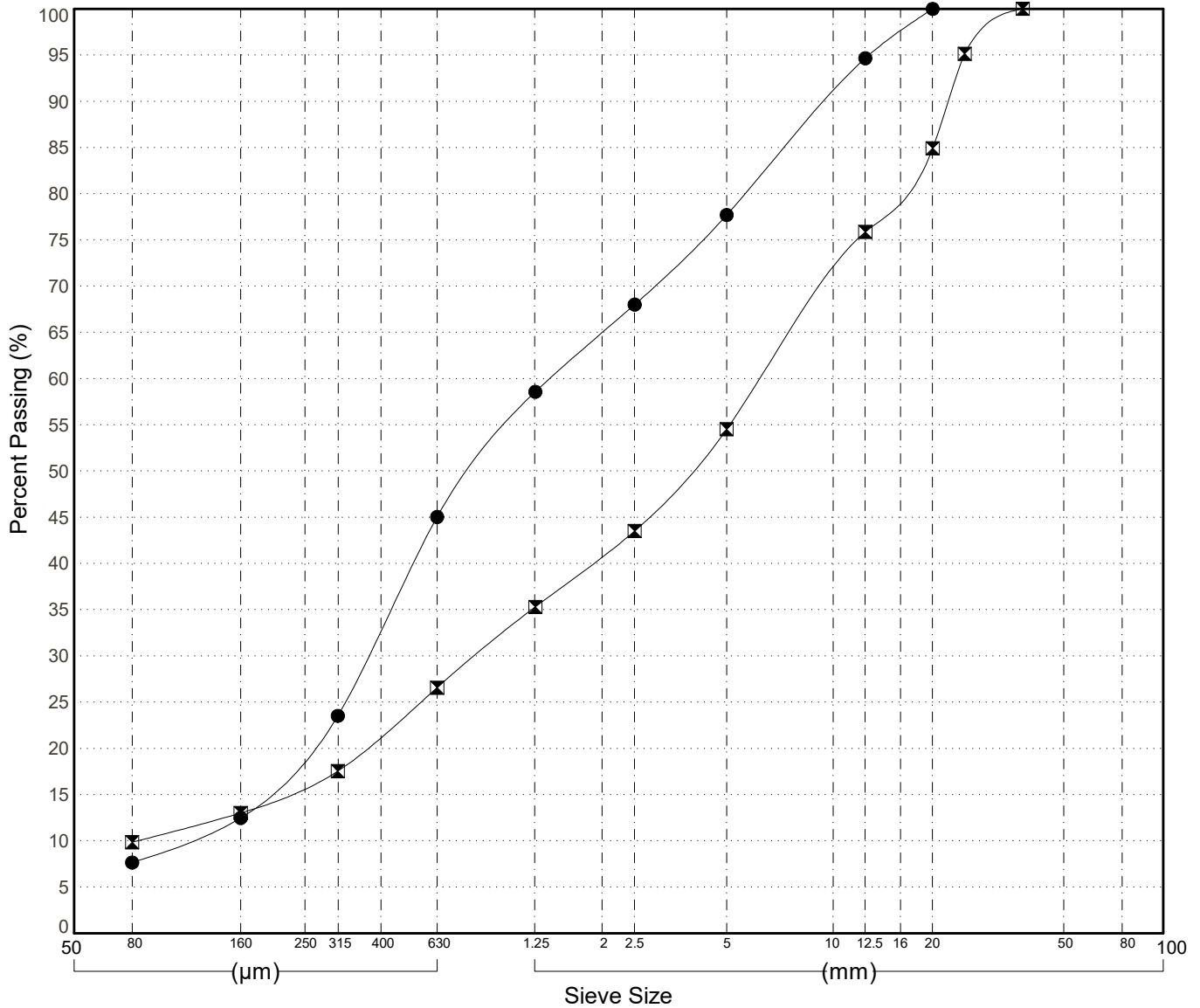


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5447
Gateway Drilling	km 641.0	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7088965m E342477m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10										
● 120	1740	1.5 to 1.9	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	1.1	NP	NP	NP	1.0	12.8	0.11										
☒ 121	1741	3.0 to 3.4	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	0.4	NP	NP	NP	1.4	78.4	0.08										
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown				
● 120	1740	100.0	100.0	100.0	100.0	100.0	94.7	90.8	77.7	65.0	51.0	32.8	19.8	12.5	7.7	Gravel	Sand	Silt	Clay	
☒ 121	1741	100.0	100.0	100.0	95.1	84.9	75.9	71.0	54.5	40.9	30.4	21.4	16.0	13.0	9.9	45.5	44.7	9.9		

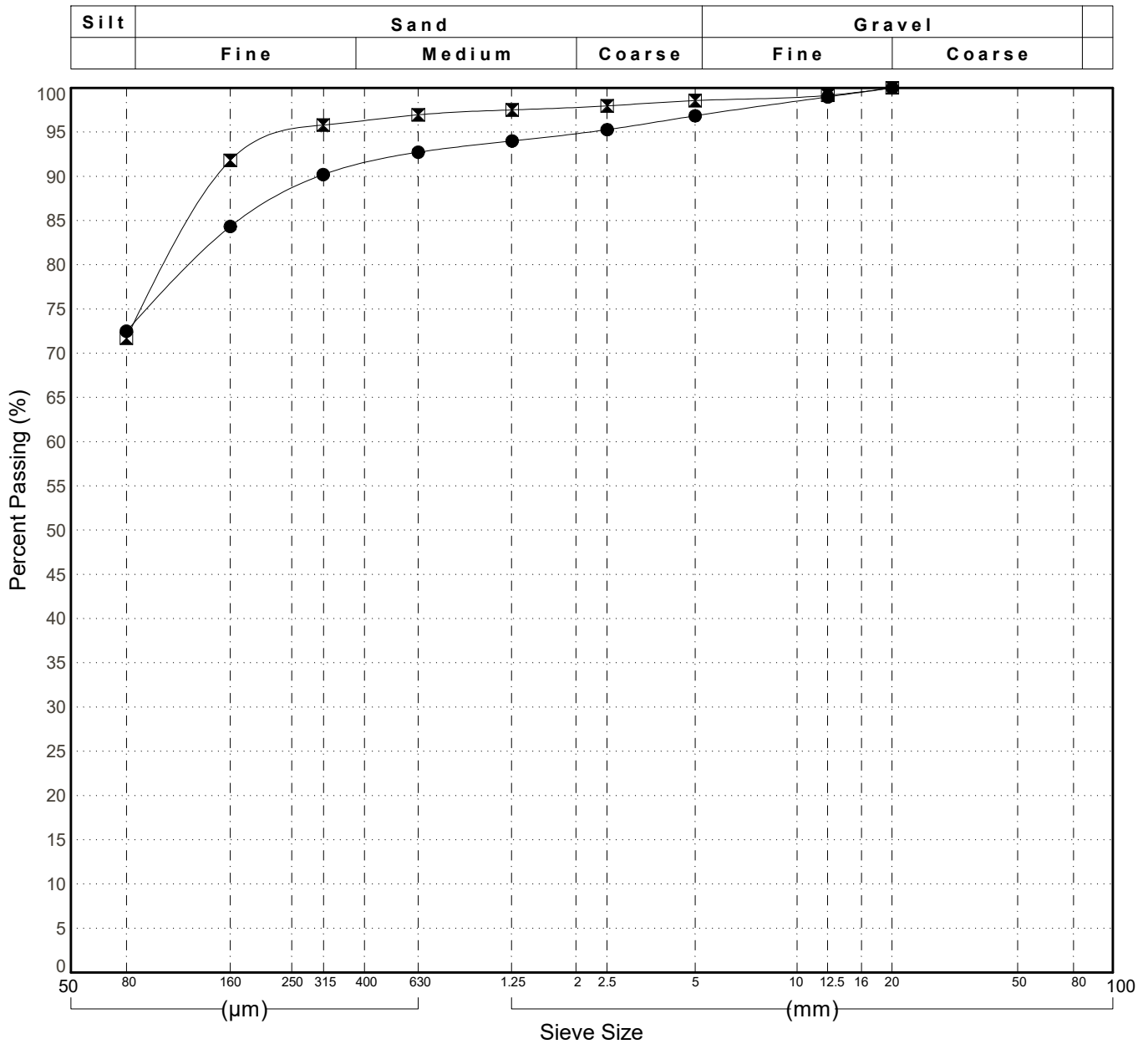
Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5448
Gateway Drilling	km 641.2	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7089037m E342310m	ELEVATION: m

Master Revised June 2017

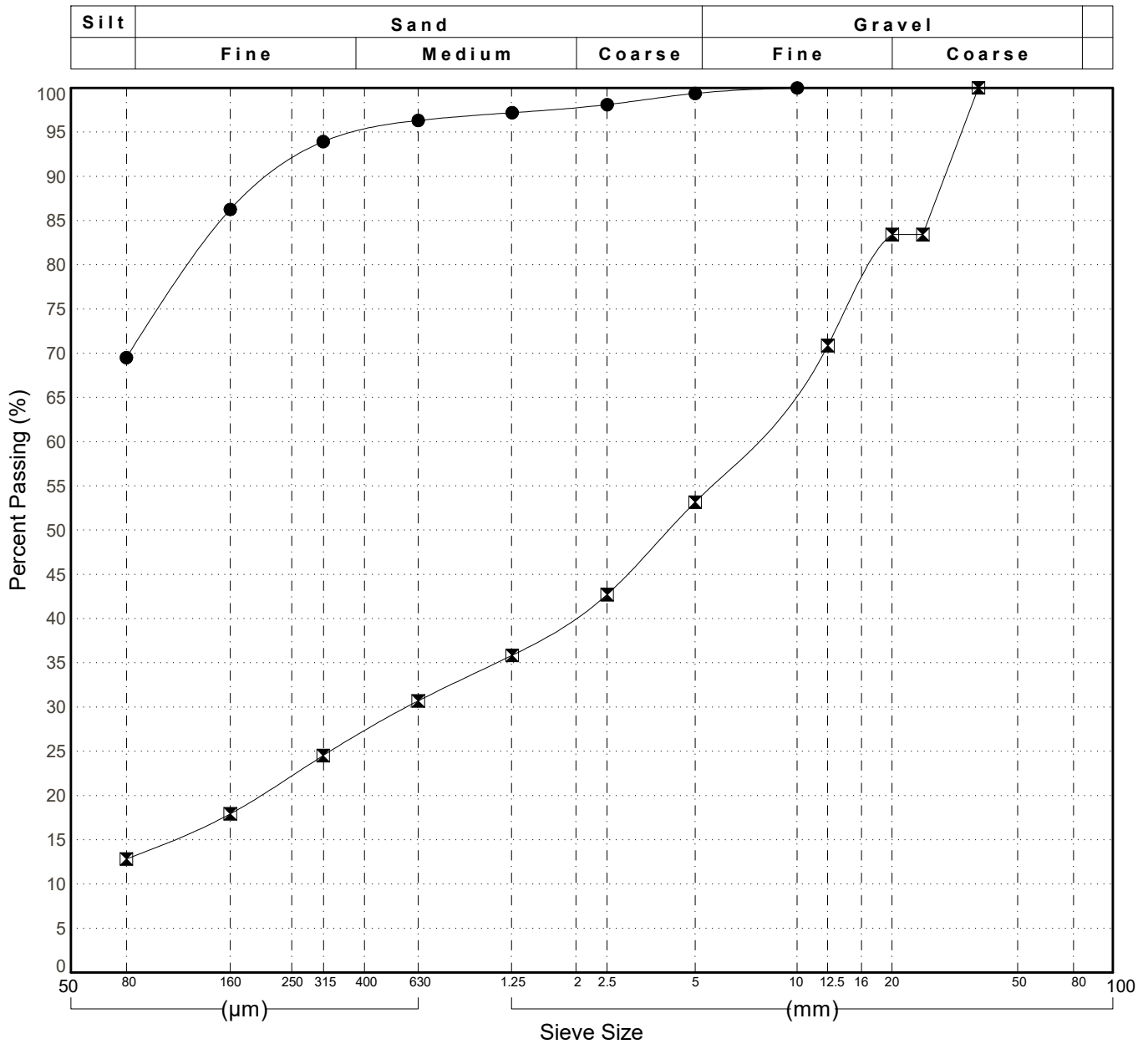
Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10										
● 123	1743	1.5 to 1.9	SILT with SAND(ML)	11.3	NP	NP	NP													
☒ 125	1745	4.5 to 4.9	SILT with SAND(ML)	15.3	NP	NP	NP													
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown				
● 123	1743	100.0	100.0	100.0	100.0	100.0	99.0	98.5	96.8	94.9	93.3	91.3	88.2	84.3	72.5	Gravel	Sand	Silt	Clay	
☒ 125	1745	100.0	100.0	100.0	100.0	100.0	99.2	99.0	98.6	97.8	97.2	96.3	94.4	91.8	71.7	1.4	26.9		72.5	



GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5449
Gateway Drilling	km 641.4	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7089079m E342118m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10										
● 126	1746	1.5 to 1.9	SANDY SILT(ML)	13.2	NP	NP	NP													
☒ 128	1748	4.5 to 4.9	SILTY GRAVEL with SAND(GM)	2.5	NP	NP	NP													
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown				
																Gravel	Sand	Silt	Clay	
● 126	1746	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.4	97.8	96.7	95.0	91.3	86.3	69.5	0.6	29.9		69.5	
☒ 128	1748	100.0	100.0	100.0	83.4	83.4	70.9	66.8	53.2	40.5	33.0	27.2	22.3	17.9	12.8	46.8	40.3		12.8	



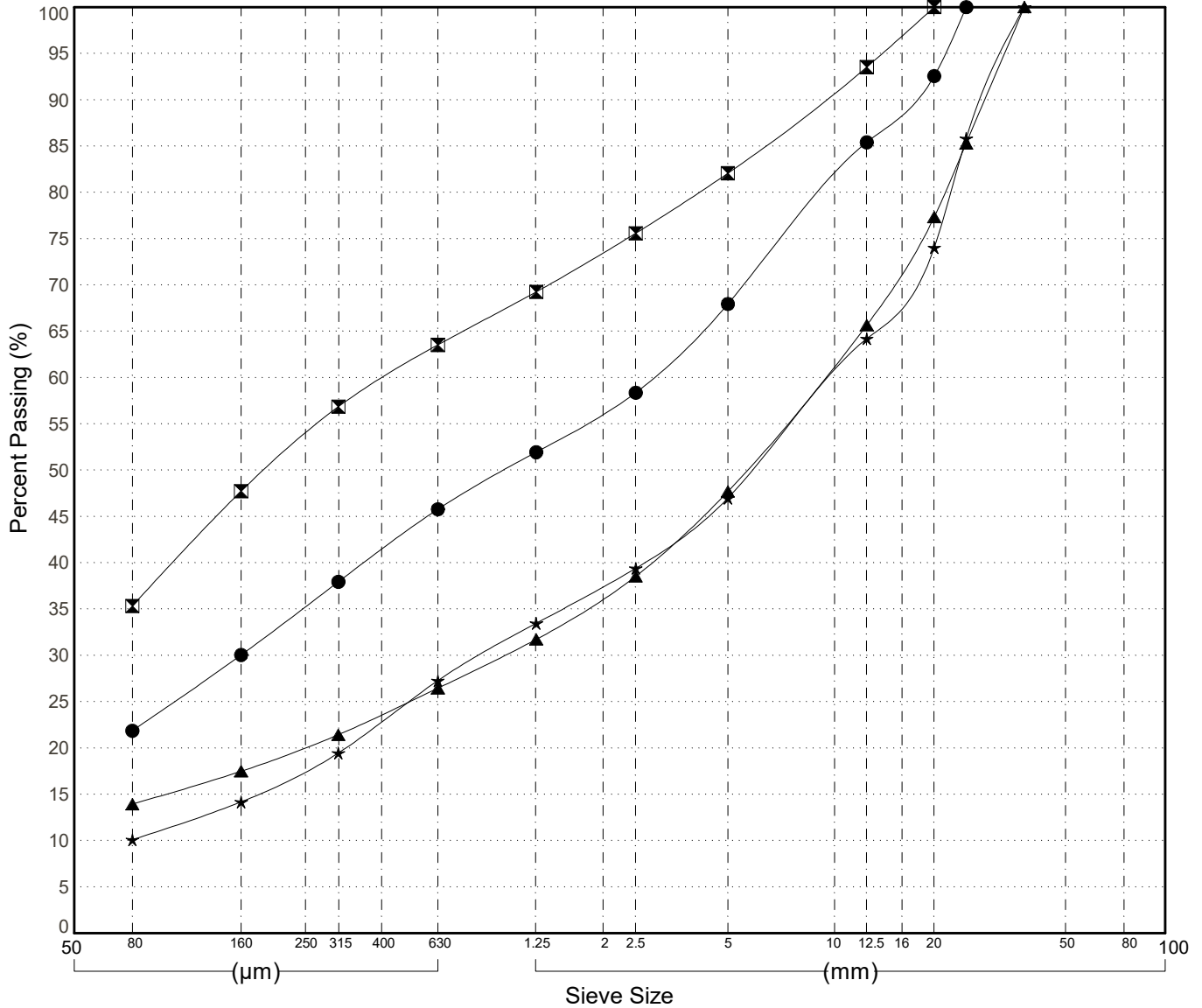
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5450
Gateway Drilling	km 641.6	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7089090m E341911m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 129	1749	1.5 to 1.9	SILTY SAND with GRAVEL(SM)	3.5	NP	NP	NP			
☒ 130	1750	3.0 to 3.4	SILTY SAND with GRAVEL(SM)	3.1	NP	NP	NP			
▲ 131	1751	4.5 to 4.9	SILTY GRAVEL with SAND(GM)	0.9	NP	NP	NP			
★ 132	1752	6.0 to 6.4	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	0.1	NP	NP	NP	1.0	133.8	

Field #	Lab #	%PASSING	Sieve Size (mm)													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	Gravel	Sand	Silt	Clay
●	129	1749	100.0	100.0	100.0	100.0	92.6	85.4	81.4	67.9	56.3	48.5	41.3	35.2	30.0	21.9	32.1	46.1	21.9	
☒	130	1750	100.0	100.0	100.0	100.0	93.5	90.9	82.1	73.5	66.0	59.7	53.7	47.7	35.3	17.9	46.7	35.3		
▲	131	1751	100.0	100.0	100.0	85.3	77.3	65.7	61.5	47.7	36.3	28.8	23.6	20.1	13.9	52.3	33.8	13.9		
★	132	1752	100.0	100.0	100.0	85.8	74.0	64.2	60.2	47.0	37.5	30.0	22.8	17.7	14.2	10.1	53.0	36.9	10.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



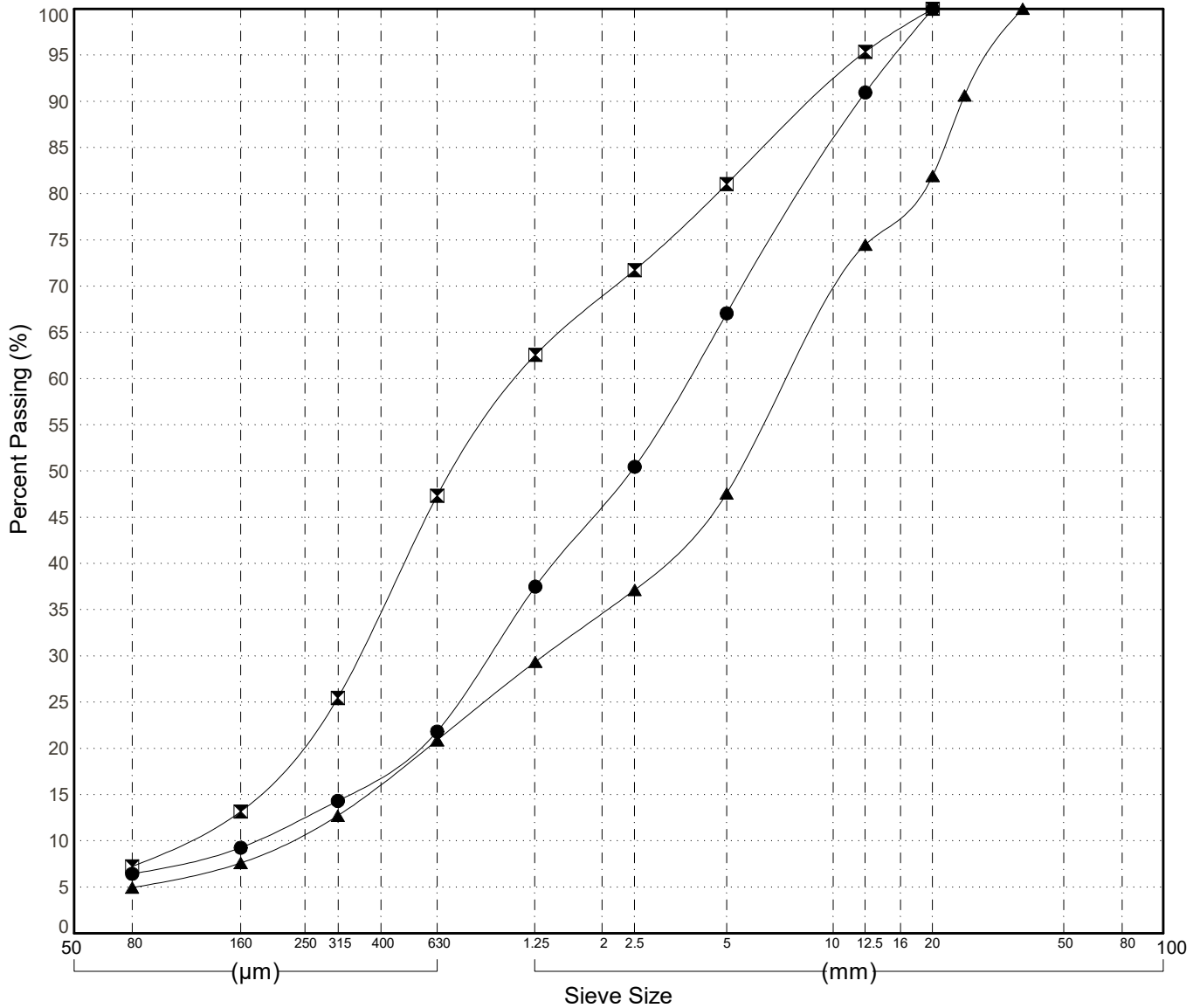
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5451
Gateway Drilling	km 641.8	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7089109m E341706m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 133	1753	1.5 to 1.9	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	1.7	NP	NP	NP	1.3	20.5	0.18
☒ 134	1754	3.0 to 3.4	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	1.5	NP	NP	NP	1.1	10.4	0.11
▲ 135	1755	4.5 to 4.9	WELL-GRADED GRAVEL with SAND(GW)	0.9	NP	NP	NP	1.1	33.8	0.22

Field #	Lab #	% PASSING	Sieve Size (mm)													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	Gravel	Sand	Silt	Clay
●	133	1753	100.0	100.0	100.0	100.0	100.0	91.0	85.5	67.1	46.3	28.7	17.6	12.6	9.3	6.4	32.9	60.6	6.4	
☒	134	1754	100.0	100.0	100.0	100.0	95.4	92.1	81.0	68.8	54.0	34.9	21.3	13.2	7.2	19.0	73.8	7.2		
▲	135	1755	100.0	100.0	100.0	90.6	81.9	74.5	68.3	47.6	34.6	24.6	16.3	11.0	7.6	4.9	52.4	42.6	4.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



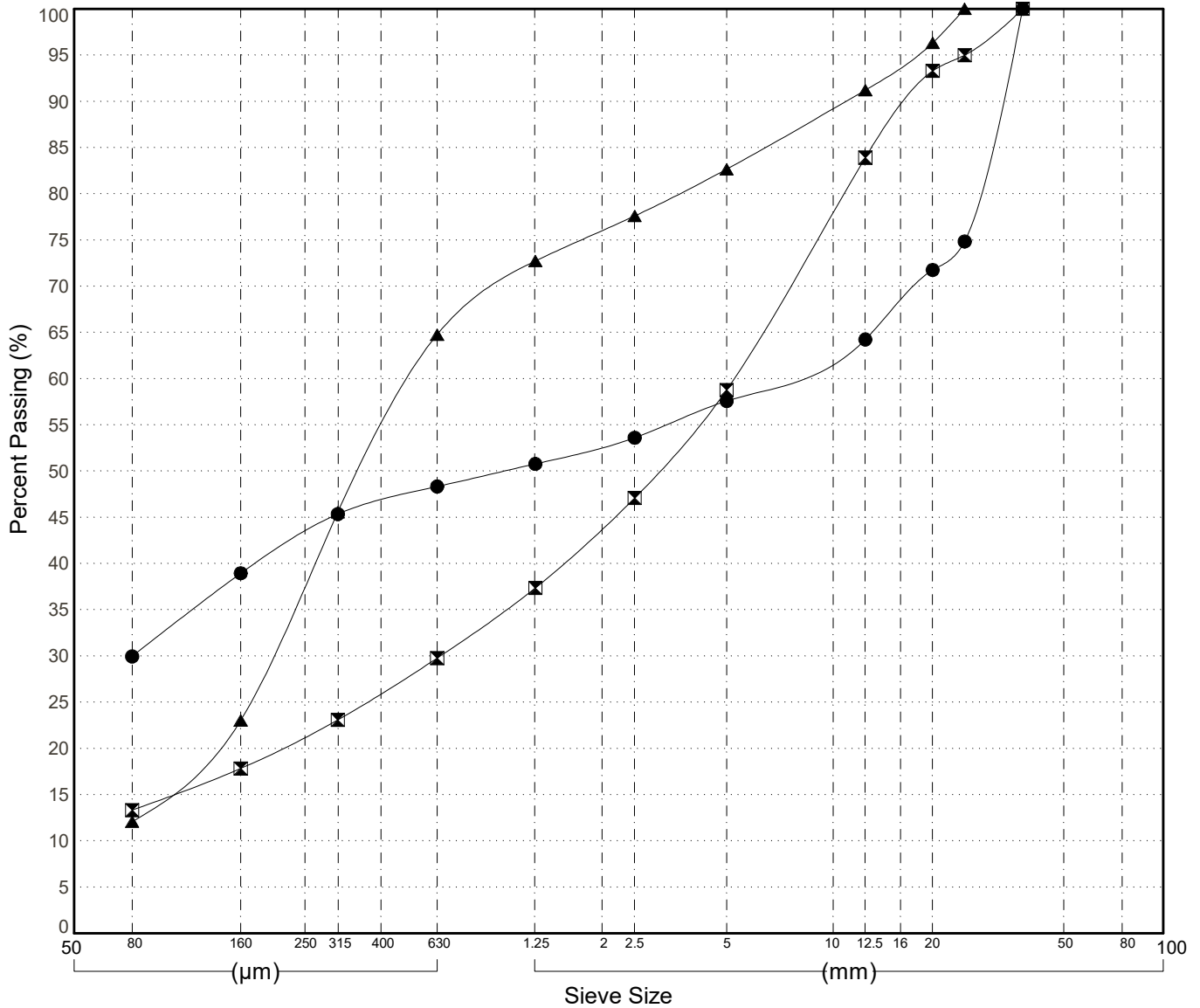
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5452
Gateway Drilling	km 642.05	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7089126m E341523m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 136	1756	1.5 to 1.9	SILTY GRAVEL with SAND(GM)	5.2	NP	NP	NP			
☒ 137	1457	3.0 to 3.4	SILTY SAND with GRAVEL(SM)	2.3	NP	NP	NP			
▲ 138	1758	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	2.5	NP	NP	NP	1.1	8.2	

Field #	Lab #	%PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
● 136	1756	100.0	100.0	100.0	74.8	71.8	64.2	62.7	57.6	52.7	49.4	46.6	43.2	38.9	30.0	42.4	27.6	30.0		
☒ 137	1457	100.0	100.0	100.0	95.0	93.3	83.9	78.1	58.8	44.0	33.1	26.0	21.3	17.8	13.3	41.2	45.5	13.3		
▲ 138	1758	100.0	100.0	100.0	100.0	96.3	91.2	89.2	82.7	76.0	68.2	53.9	37.9	23.0	12.1	17.3	70.6	12.1		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

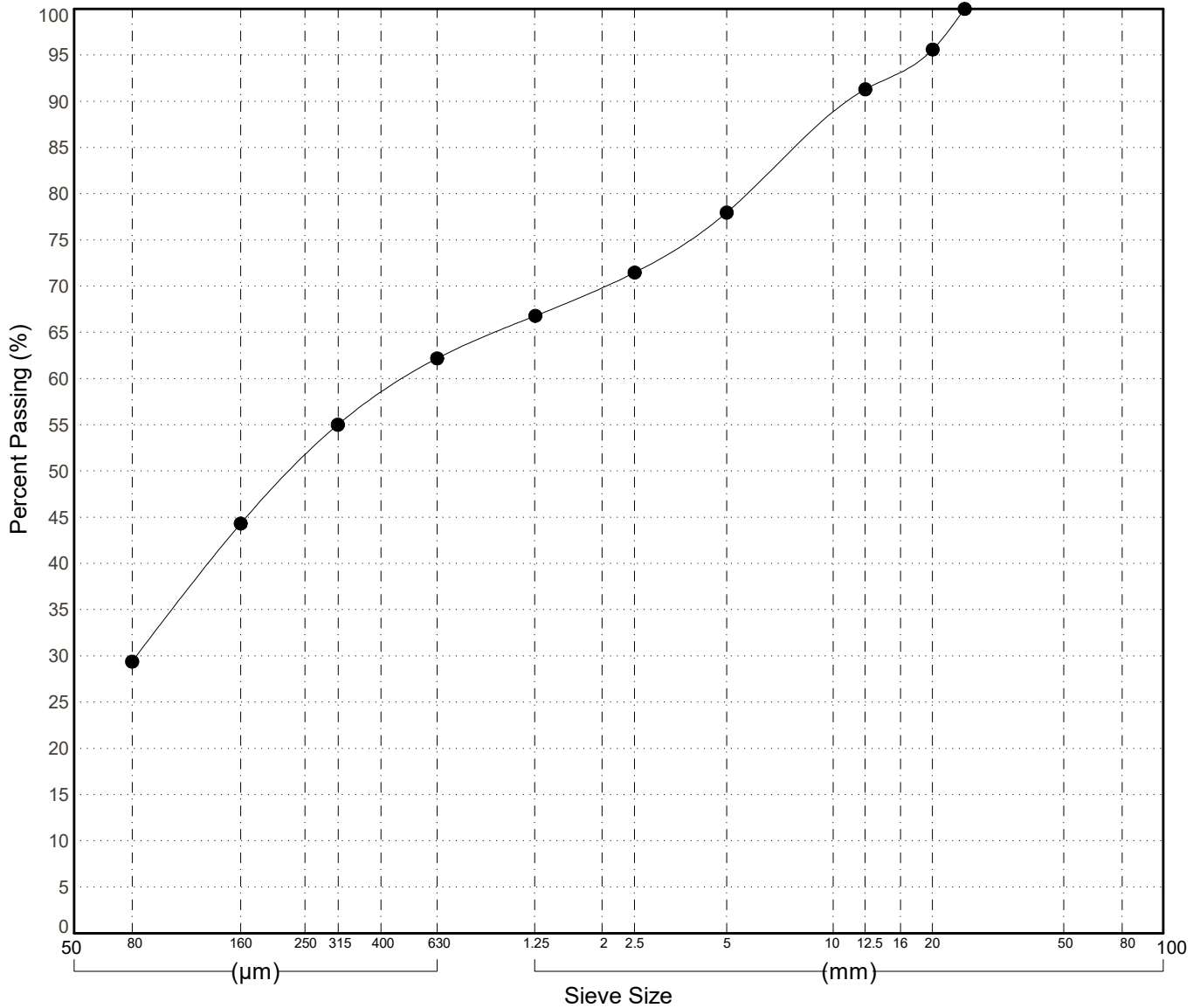


GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5453
Gateway Drilling	km 642.25	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7089149m E341276m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification													%H2O	LL	PL	PI	Cc	Cu	D10
● 142	1762	6.0 to 6.4	SILTY SAND with GRAVEL(SM)													3.7	NP	NP	NP			
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown						
● 142	1762	100.0	100.0	100.0	100.0	95.6	91.3	88.2	78.0	70.0	64.2	58.1	51.4	44.3	29.4	Gravel	Sand	Silt	Clay			
																22.0	48.6		29.4			

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



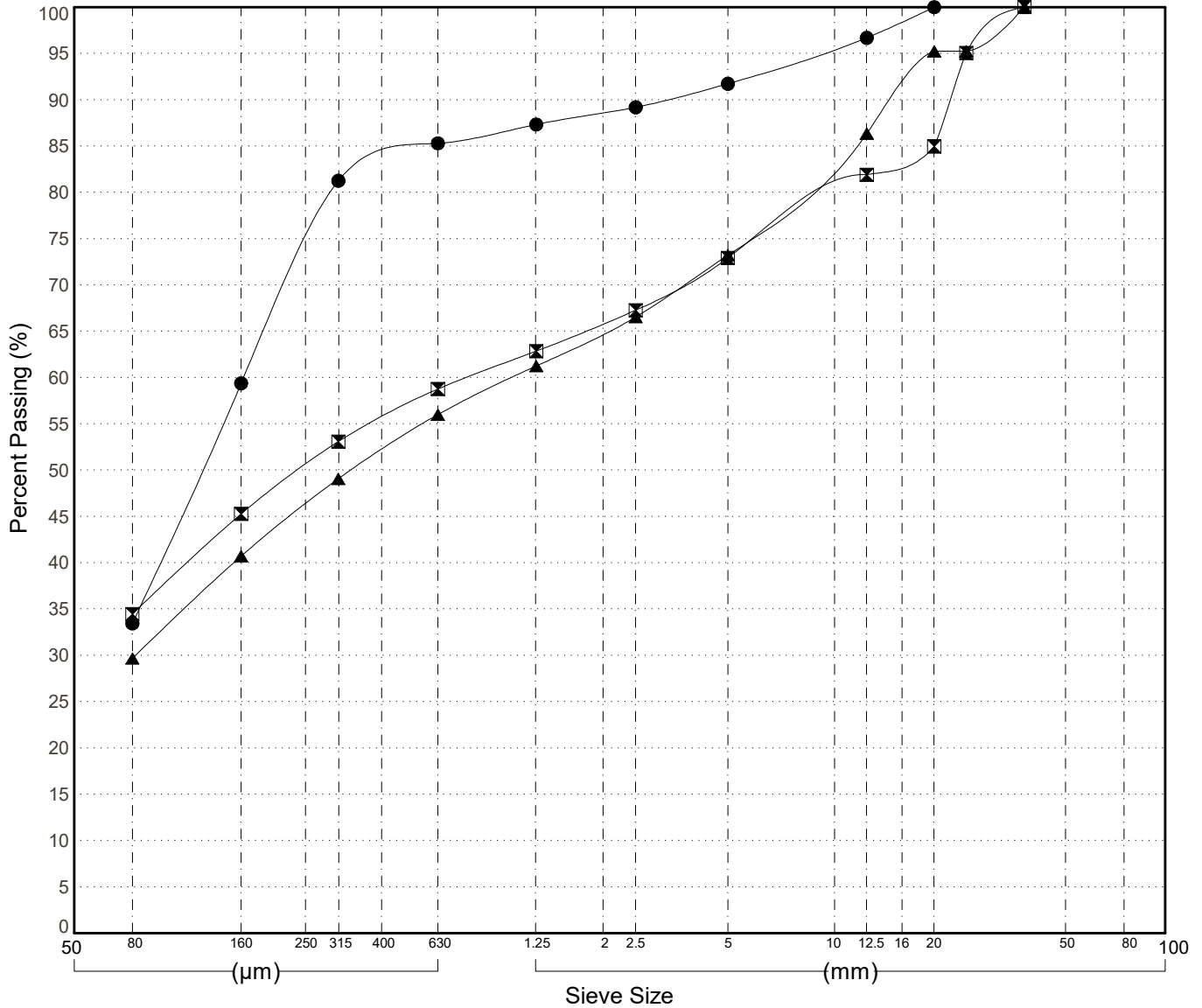
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5454
Gateway Drilling	km 642.45	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7089213m E341114m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 143	1763	1.5 to 1.9	SILTY SAND(SM)	7.9	NP	NP	NP			
☒ 144	1764	3.0 to 3.4	SILTY SAND with GRAVEL(SM)	4.6	NP	NP	NP			
▲ 145	1765	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	2.7	NP	NP	NP			

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	143	1763	100.0	100.0	100.0	100.0	100.0	96.7	95.5	91.7	88.6	86.2	83.0	73.8	59.4	33.4	8.3	58.3	33.4	
☒	144	1764	100.0	100.0	100.0	95.0	85.0	81.9	79.8	72.9	65.9	60.5	55.5	50.4	45.3	34.5	27.1	38.5	34.5	
▲	145	1765	100.0	100.0	100.0	95.2	95.2	86.4	83.3	73.2	64.8	58.3	52.1	46.2	40.7	29.7	26.8	43.5	29.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



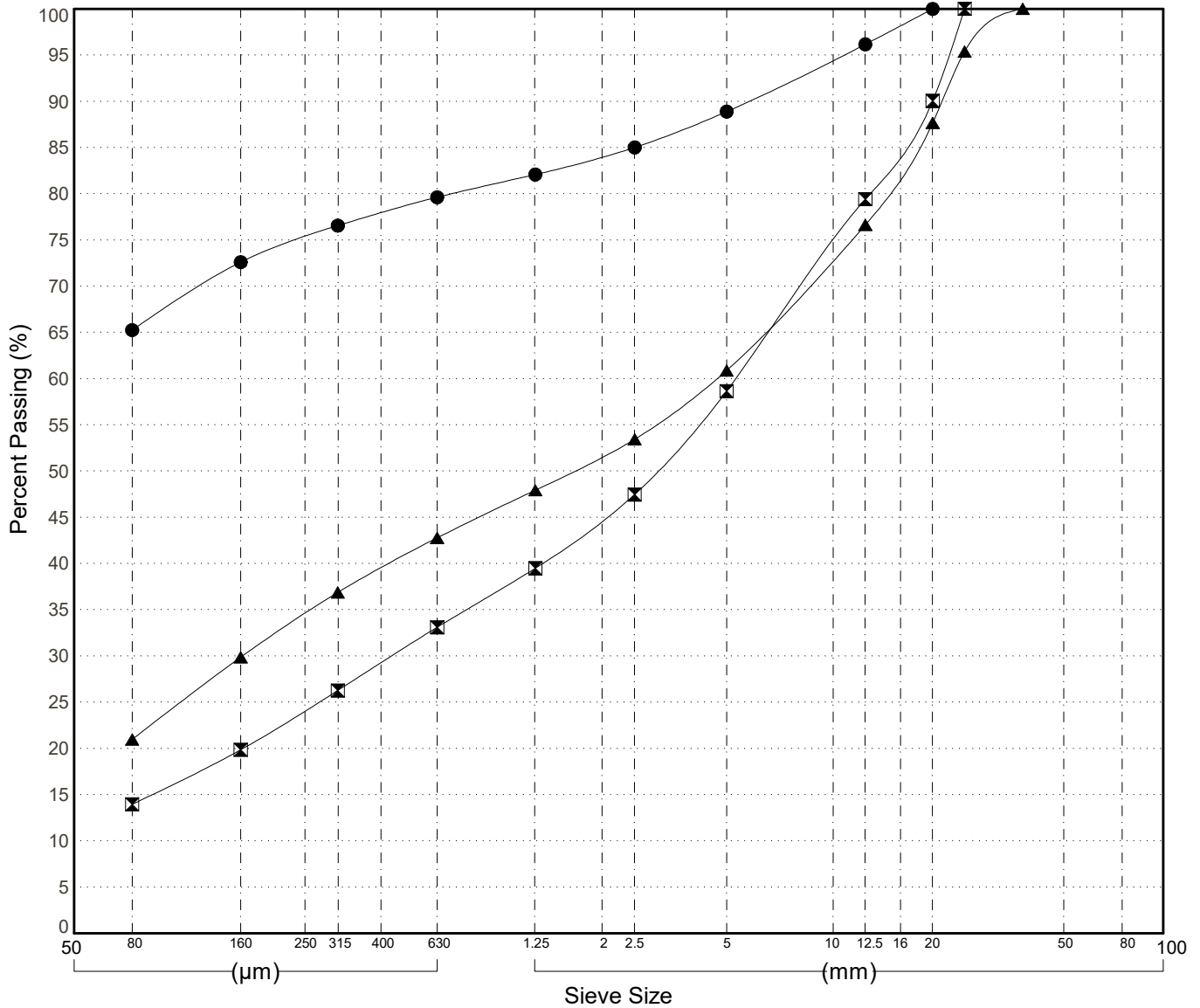
GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5455
Gateway Drilling	km 642.65	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7089312m E340962m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 149	1766	1.5 to 1.9	SANDY SILT(ML)	13.1	NP	NP	NP			
☒ 150	1767	3.0 to 3.4	SILTY SAND with GRAVEL(SM)	1.1	NP	NP	NP			
▲ 151	1768	4.5 to 4.9	SILTY SAND with GRAVEL(SM)	2.0	NP	NP	NP			

Field #	Lab #	%PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.0	0.850	0.400	0.250	0.160	0.080	% Breakdown			
			Gravel	Sand	Silt	Clay														
●	149	1766	100.0	100.0	100.0	100.0	100.0	96.2	94.5	88.9	84.1	80.7	77.9	75.2	72.6	65.3	11.1	23.6	65.3	
☒	150	1767	100.0	100.0	100.0	100.0	90.1	79.4	74.6	58.7	44.9	35.9	29.2	24.1	19.9	14.0	41.3	44.7	14.0	
▲	151	1768	100.0	100.0	100.0	95.4	87.7	76.6	73.0	60.9	51.7	45.0	39.4	34.5	29.9	21.0	39.1	39.9	21.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Klondike Hwy Drilliry	SOURCE/TP#: 922-5456
Gateway Drilling	km 642.85	PROJECT NO: 552-202102
Auger	Coordinates:Z08N N7089381m E340740m	ELEVATION: m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 149	1769	1.5 to 1.9	SILTY SAND(SM)	10.2	NP	NP	NP			
☒ 150	1770	3.0 to 3.4	SILTY SAND(SM)	1.9	NP	NP	NP			
▲ 151	1771	4.5 to 4.9	SILTY SAND(SM)	4.7	NP	NP	NP			
★ 152	1772	6.0 to 6.4	SILTY SAND with GRAVEL(SM)	8.0	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	2.0	0.850	0.400	0.250	0.160	0.080	Gravel	Sand	Silt	Clay		
●	149	1769	100.0	100.0	100.0	100.0	100.0	96.5	96.1	94.7	92.7	89.2	69.9	51.9	42.7	28.6	5.3	66.1	28.6			
☒	150	1770	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.9	96.7	93.9	83.0	65.7	45.9	13.5	2.1	84.4	13.5			
▲	151	1771	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.3	98.7	98.2	97.3	92.6	84.4	41.1	0.7	58.2	41.1			
★	152	1772	100.0	100.0	100.0	100.0	96.7	91.4	88.9	80.6	73.6	69.9	66.5	60.6	52.6	23.2	19.4	57.3	23.2			

