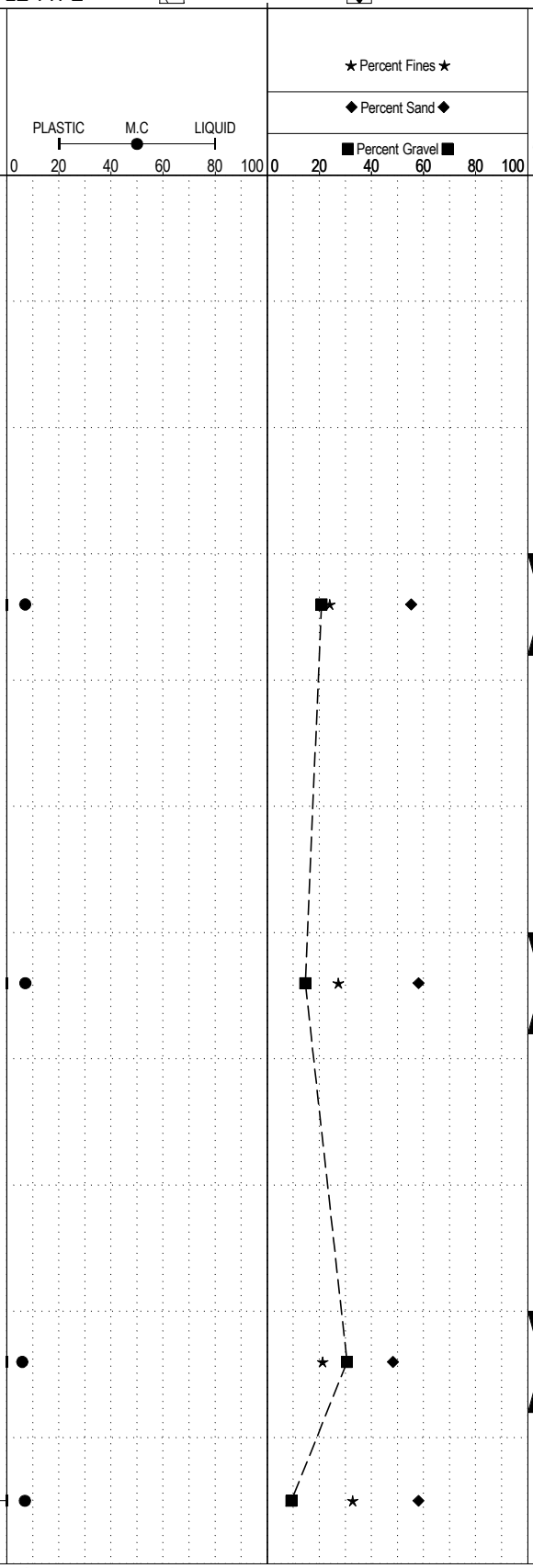
SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5457**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818993m E452849m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, silty with gravel -Embankment/fill -Brown, damp, angular, compact	
						1
		001	SM	21		
						2
						3
		002	SM	28		
					-Easy drilling	4
					-Shale aggregate	
		003	SM	31		
						5
		004	SM		END of HOLE -Refusal on hard surface	

Yukon Highways and Public Works Transportation Engineering Branch	LOGGED BY: KAE/RWS	Termination Depth: 5.25m
	COMPILED BY: TAJ	Complete: 10/6/2017 10:34:00 AM
	REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5457**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818993m E452849m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

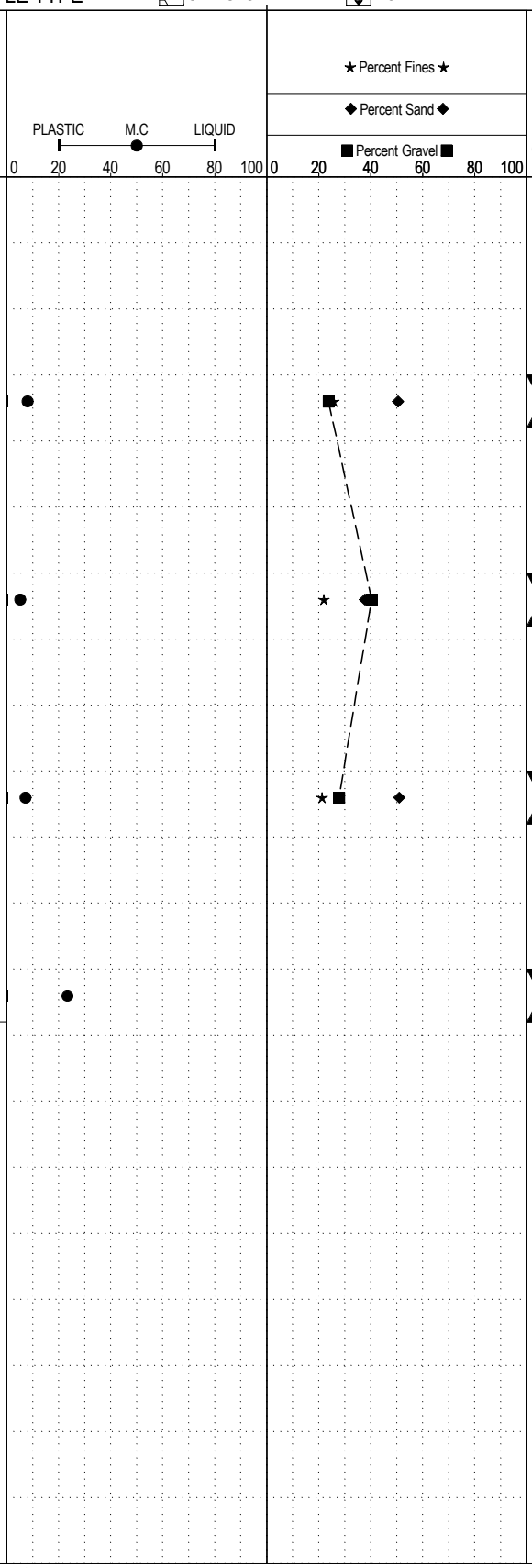
ELEV. (m)	PLASTIC — M.C — LIQUID (0 20 40 60 80 100)	★ Percent Fines ★ / ◆ Percent Sand ◆ / ■ Percent Gravel ■ (0 20 40 60 80 100)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
							-likely shale bedrock	
								6
								7
								8
								9
								10

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 5.25m
COMPILED BY: TAJ	Complete: 10/6/2017 10:34:00 AM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5458**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818996m E452925m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



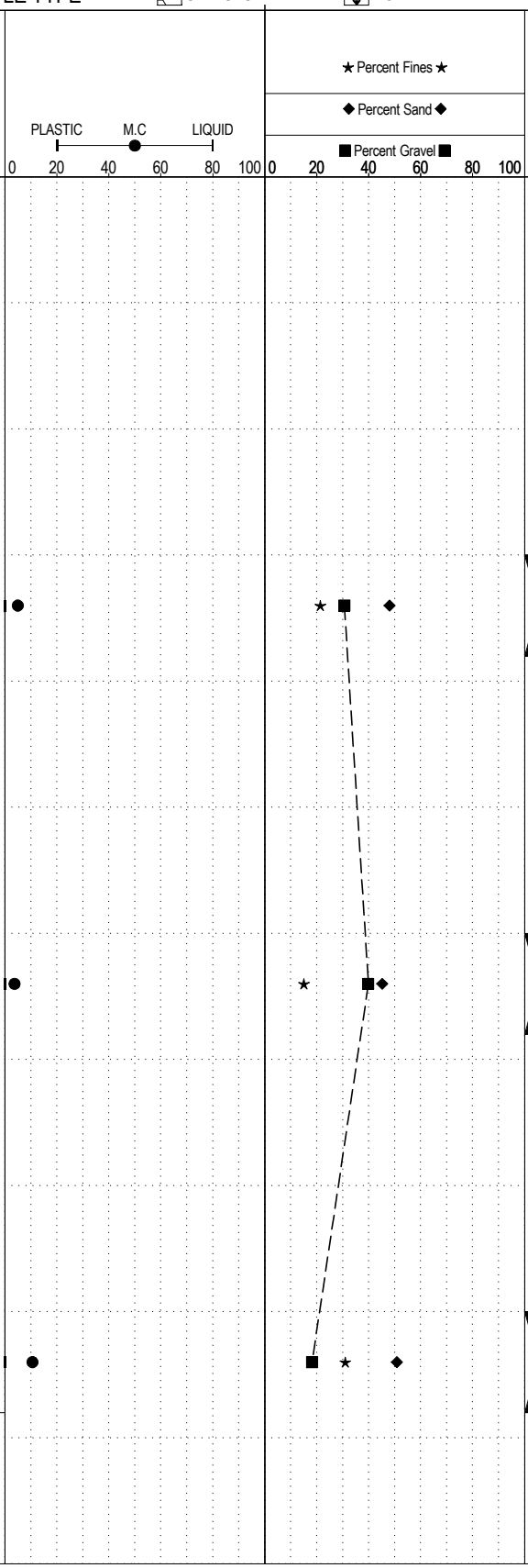
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, silty with gravel -Light brown, compact, angular	1
	SPT	005	SM	11	ORGANICS, ash inclusion	2
					GRAVEL, silty with sand -Grinding, rounded gravel coming up on flights -Brown, dense, moist, subrounded -Traces of angular shale	3
	SPT	006	GM	36		4
	SPT	007	SM	22	SAND, silty with gravel -Dark brown, compact, wet	5
	SPT	008		17	SILT, some sand, trace clay -Non-plastic, dialating -Saturated, stiff, dark grey	6
					END of HOLE -Target depth reached	7
						8
						9
						10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.4m
COMPILED BY: TAJ	Complete: 10/6/2017 12:00:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5459**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6819006m E453092m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



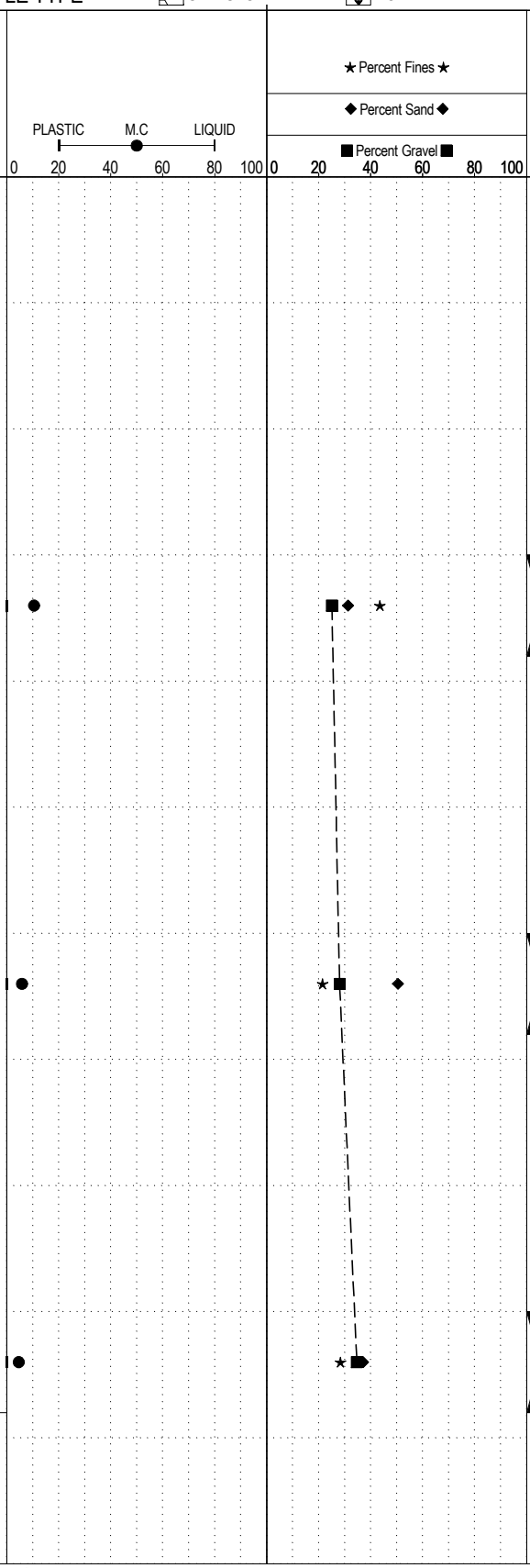
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					GRAVEL, sandy, trace cobbles -Brown, wet, compact, angular	1
	SPT	009	SM	41	SAND, silty with gravel -Brown, dense, moist, subangular	2
	SPT	010	SM	63	-Very dense, angular	3
						4
	SPT	011	SM	48	-Dense	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.9m
COMPILED BY: TAJ	Complete: 12/6/2017 12:51:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5460**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6819007m E453193m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

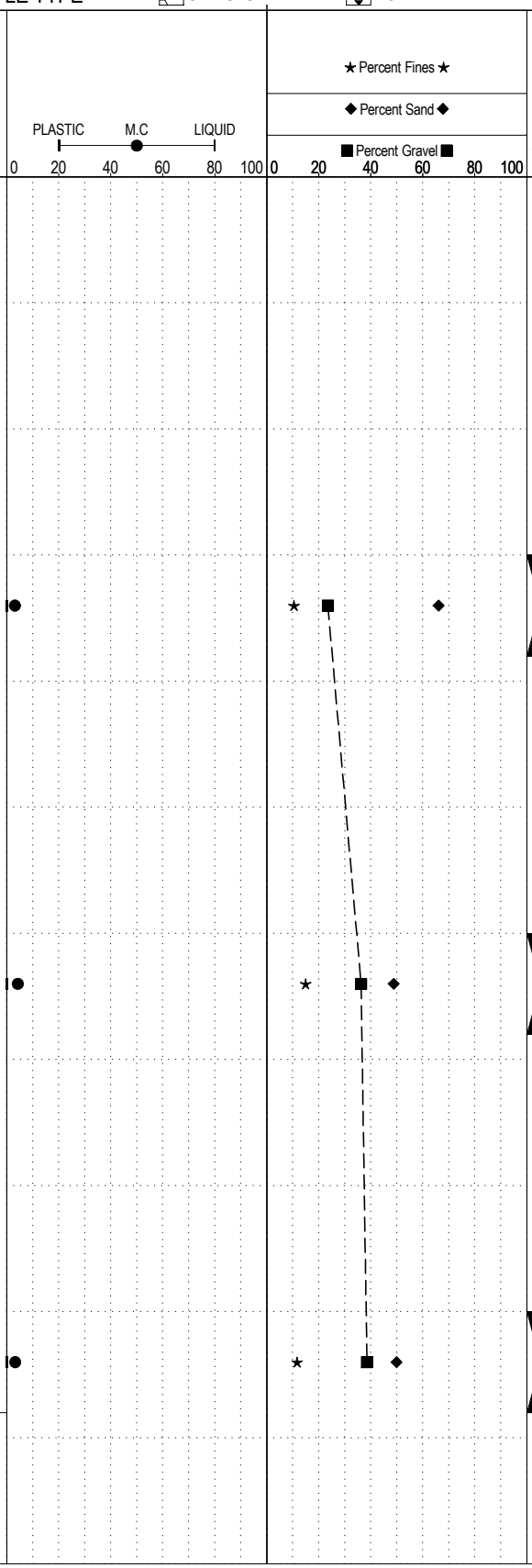


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND -Embankment fill	1
	SPT	012	SM	22	-Silt lense, 100mm thick SAND, silty with gravel -Brown, moist, compact, angular	2
	SPT	013	SM		-Light brown, very dense, damp	3
	SPT	014	SM			4
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works Transportation Engineering Branch	LOGGED BY: KAE/RWS	Termination Depth: 4.9m
	COMPILED BY: TAJ	Complete: 10/6/2017 1:49:00 PM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5461**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6819006m E453309m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



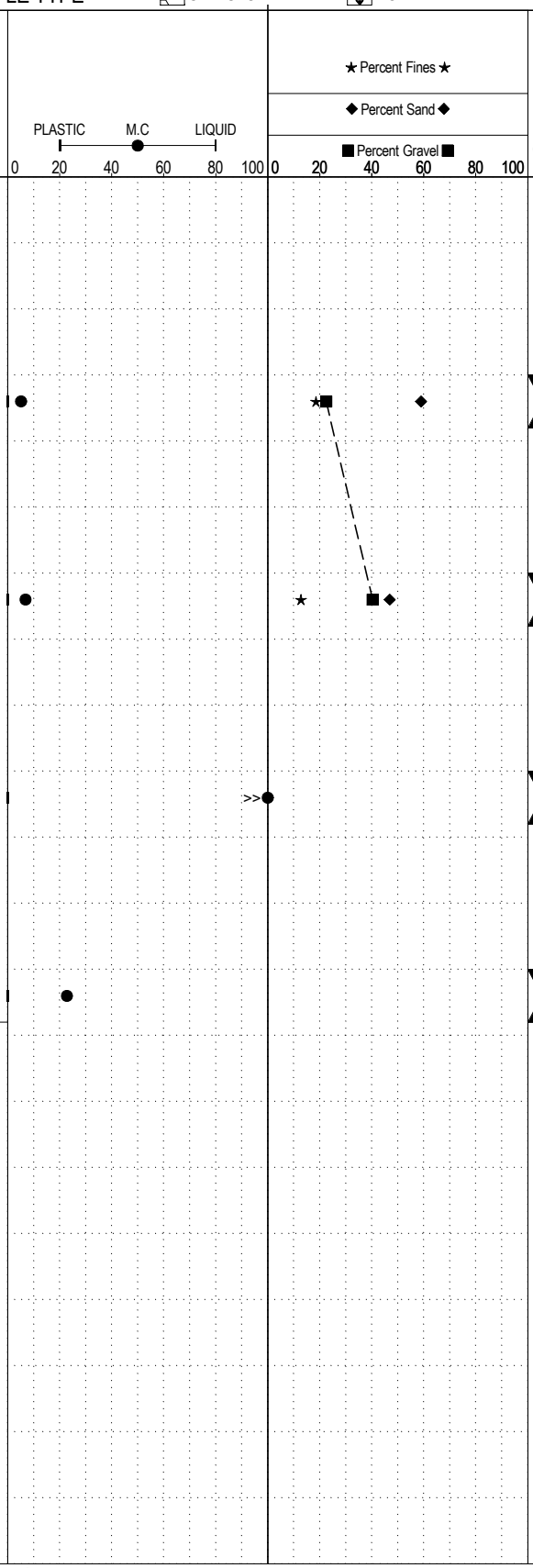
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND and gravel, trace silt -Brown, damp, compact, subrounded	
					-poorly graded with silt and gravel	1
		015	SP-SM	15		2
		016	SM	43	-Silty -Brown, dense, angular -Weathering on aggregate, oxidization -Heavy grinding	3
						4
		017	SW-SM		-Well graded	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.9m
COMPILED BY: TAJ	Complete: 10/6/2017 2:40:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5462**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818992m E453438m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, silty with gravel -Brown, damp, compact, angular	1
	SPT	018	SM	28		2
	SPT	0.19	SM	11		3
						4
	SPT	020		5	PEAT -50% fibrous, black, no strong odour -150 to 200% moisture	5
	SPT	021		7	SAND and ORGANICS SAND -Dark grey, saturated, loose, dialating	6
					END of HOLE -Target depth reached	7
						8
						9
						10

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.4m
COMPILED BY: TAJ	Complete: 10/6/2017 4:00:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5463**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818980m E453629m	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 ■ (0 20 40 60 80 100)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
							Embankment fill -Hard drilling	
							-Pulverized rock -Potential bedrock -Moved ahead 1.5m to same result END of HOLE -Refusal on rock	1
	●	★■ ◆		022	SM			2
								3
								4
								5

Yukon — Highways and Public Works, Transportation Engineering Branch	LOGGED BY: KAE/RWS	Termination Depth: 0.8m
	COMPILED BY: TAJ	Complete: 10/6/2017 4:25:00 PM
	REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5464**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818989m E453536m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

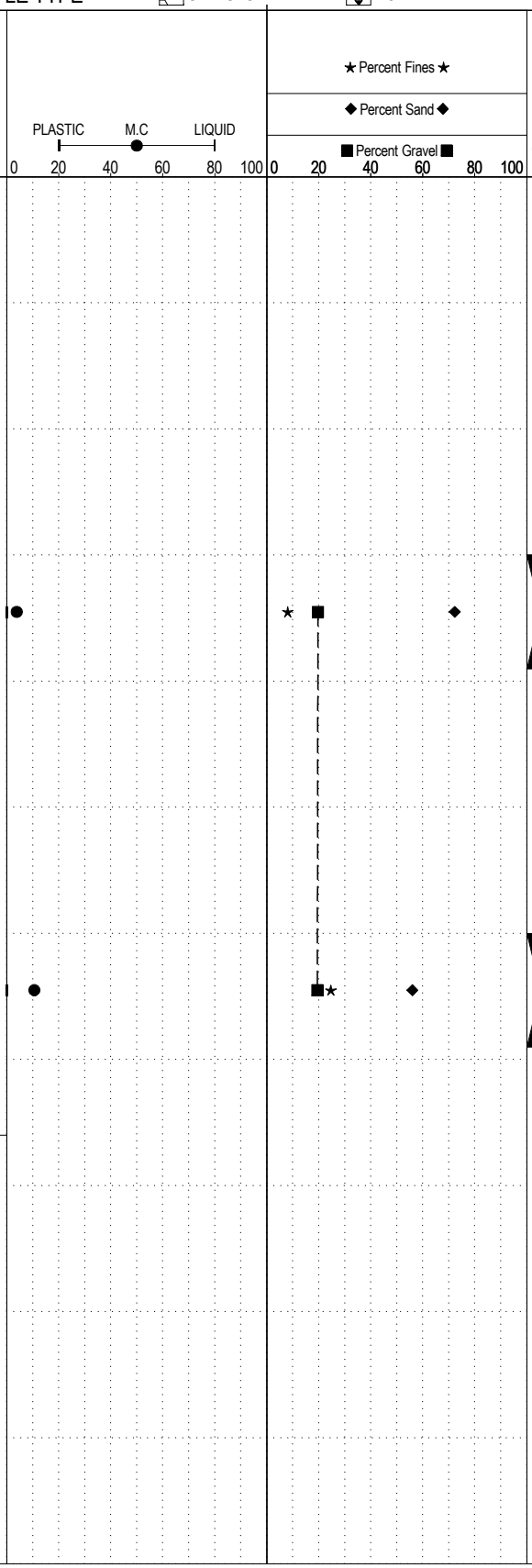
ELEV. (m)	PLASTIC / M.C / LIQUID (0 20 40 60 80 100)	★ Percent Fines ★ / ◆ Percent Sand ◆ / ■ Percent Gravel ■ (0 20 40 60 80 100)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
							GRAVEL and sand, trace silt -Brown, moist, dense, angular	1
			SPT	022			-Heavy grinding, 300mm	2
			SPT	023		19	-damp	3
	●	★ ■ ◆	SPT	024	SM	20		4 5
			SPT	025			END of HOLE -Refusal on hard ground -Potential bedrock	6 7 8 9 10

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 5.7m
COMPILED BY: TAJ	Complete: 10/6/2017 5:06:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5465**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818976m E453713m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



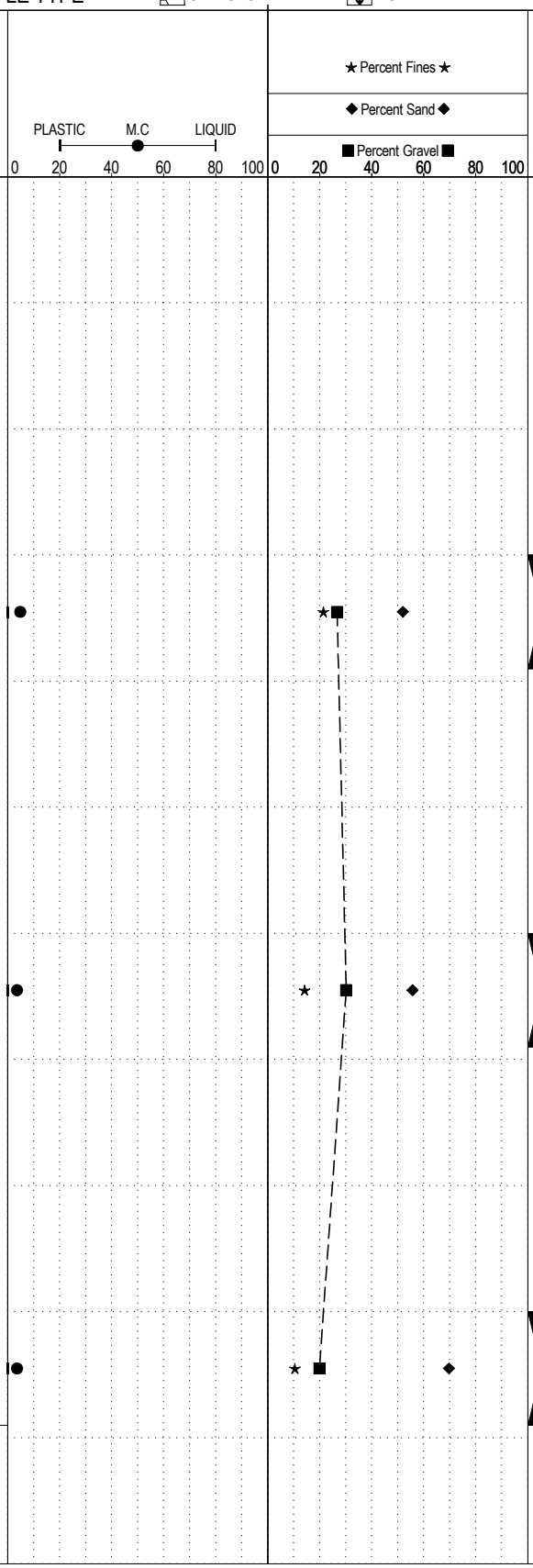
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, well graded with silt and gravel -Dark brown, moist, angular to subangular -2m embankment	1
		026	SW-SM	33		2
		027	SM	52	SAND, fine -Dark brown, wet, clean Interbedded at 3cm intervals with GRAVEL, silty -Dark brown, moist, angular	3
					END of HOLE -Refusal on hard material	4 5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.8m
COMPILED BY: TAJ	Complete: 10/7/2017 9:15:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5466**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818982m E453837m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					-0.5m embankment	1
		028	SM	83	SAND, silty with gravel -Brown, damp, subrounded -Refusal at 2cm from 45cm, more than 100 blows in 45cm	2
		029	SM	78	-Trace ocher, dry, angular	3 4
		030	SP-SM		-Poorly graded -Brown, damp, subangular -Refusal at 7.5 cm of 2nd flight, 10 blows with no movement	
					END of HOLE -Target depth reached	5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/7/2017 11:30:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5467**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818970m E453947m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

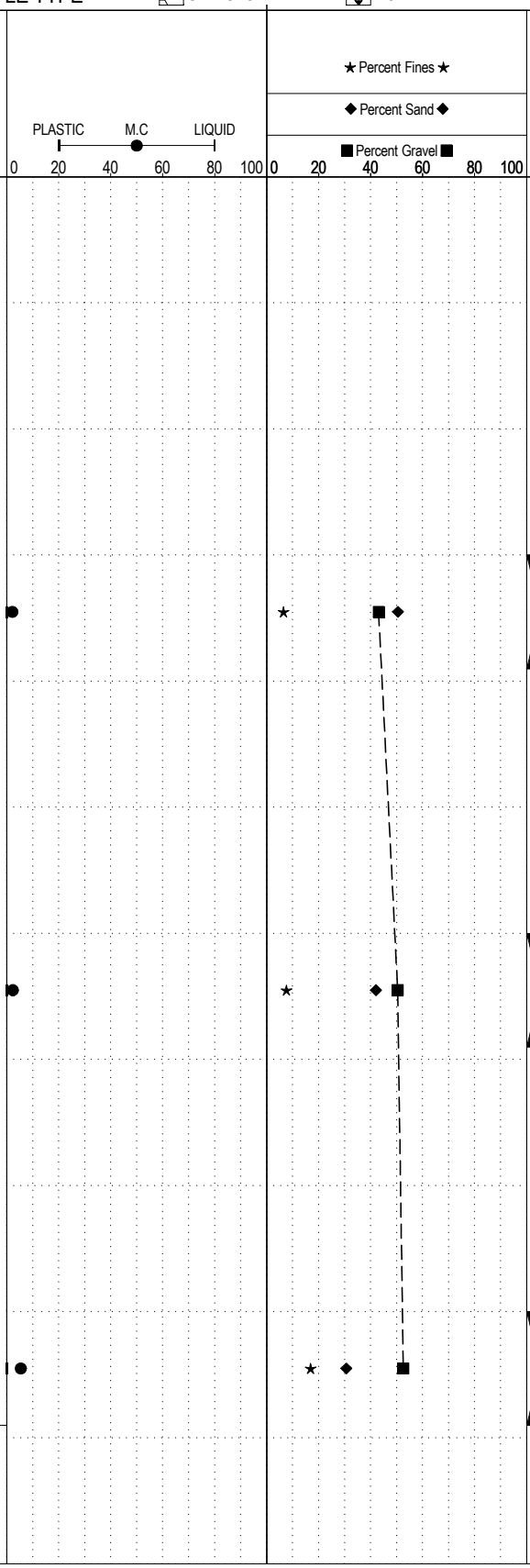
ELEV. (m)	PLASTIC / M.C / LIQUID (0 20 40 60 80 100)	★ Percent Fines ★ / ◆ Percent Sand ◆ / ■ Percent Gravel ■ (0 20 40 60 80 100)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
							SAND, silty with gravel -Brown, sub-angular, damp	
								1
	●	★ ■ ◆		031	SM	29		
								2
							-Well graded -Angular	3
	●	★ ■ ◆		0.32	SW-SM	48		
							-Heavy grinding	
							END of HOLE -Refusal on rock	4
								5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.8m
COMPILED BY: TAJ	Complete: 10/7/2017 12:38:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5468**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818923m E454028m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



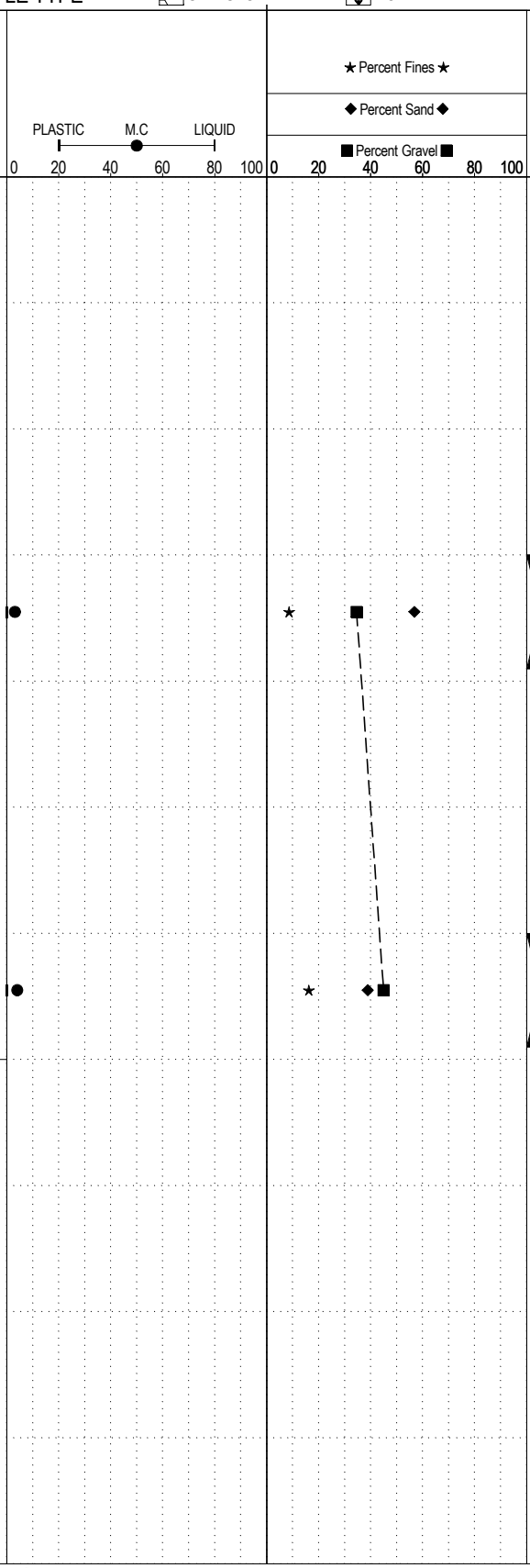
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, well graded with silt and gravel -Brown, dry, angular	1
		033	SW-SM	29		2
					GRAVEL, well graded with silt and sand -Brown, damp, angular	3
		034	GW-GM	19		4
		035	GM		-Silty -wet, compact -Refusal at 10cm of 2nd flight, no movement after 10 blows	
					END of HOLE -target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/7/2017 1:15:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5469**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818837m E454200m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



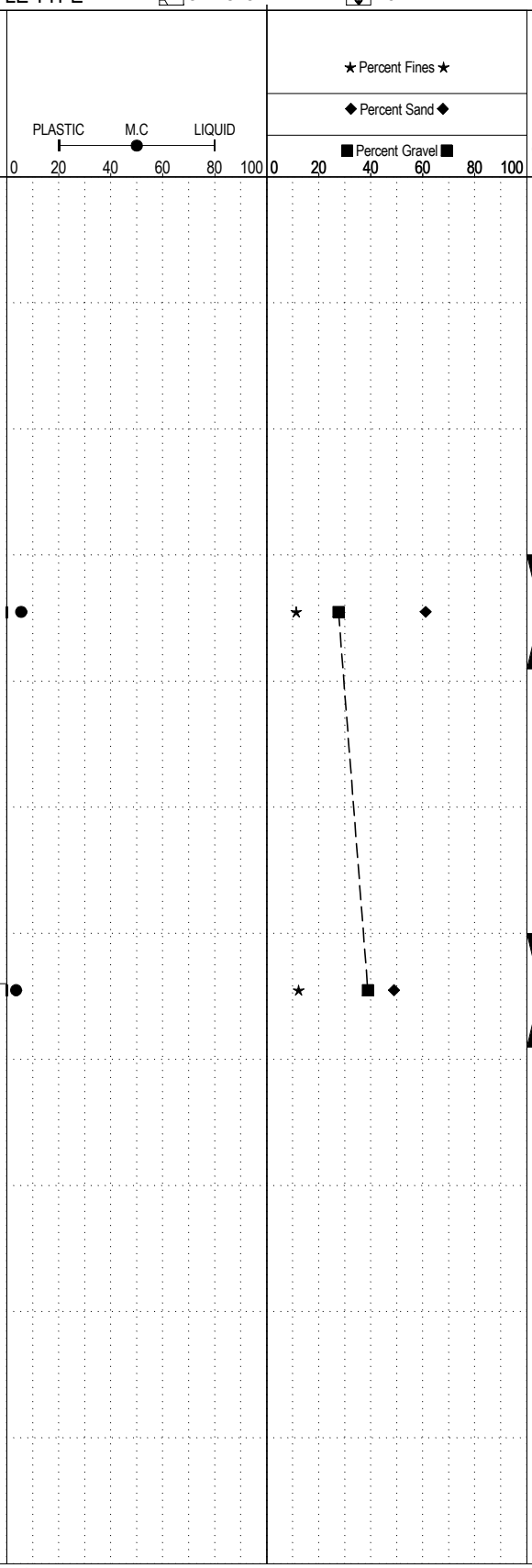
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, well graded with silt and gravel -Light brown to grey, dry, angular	1 2
		036	SW-SM	33		
					GRAVEL, silty with sand -Dark brown, damp, angular. -Refusal in 10cm of first flight, 10 blows with no movement	3
		037	GM			
					END of HOLE -Refusal on rock	4 5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.5m
COMPILED BY: TAJ	Complete: 10/7/2017 2:00:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5470**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818794m E454288m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, well graded with silt and gravel -Brown, damp, angular	
		038	SW-SM	30		1 2
		039	SM	33	-Silty -Dry -Refusal at 1cm of third flight, 10 blows with no movement END of HOLE -Refusal on rock	3 4 5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.2m
COMPILED BY: TAJ	Complete: 10/7/2017 2:30:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5471**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818744m E454383m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

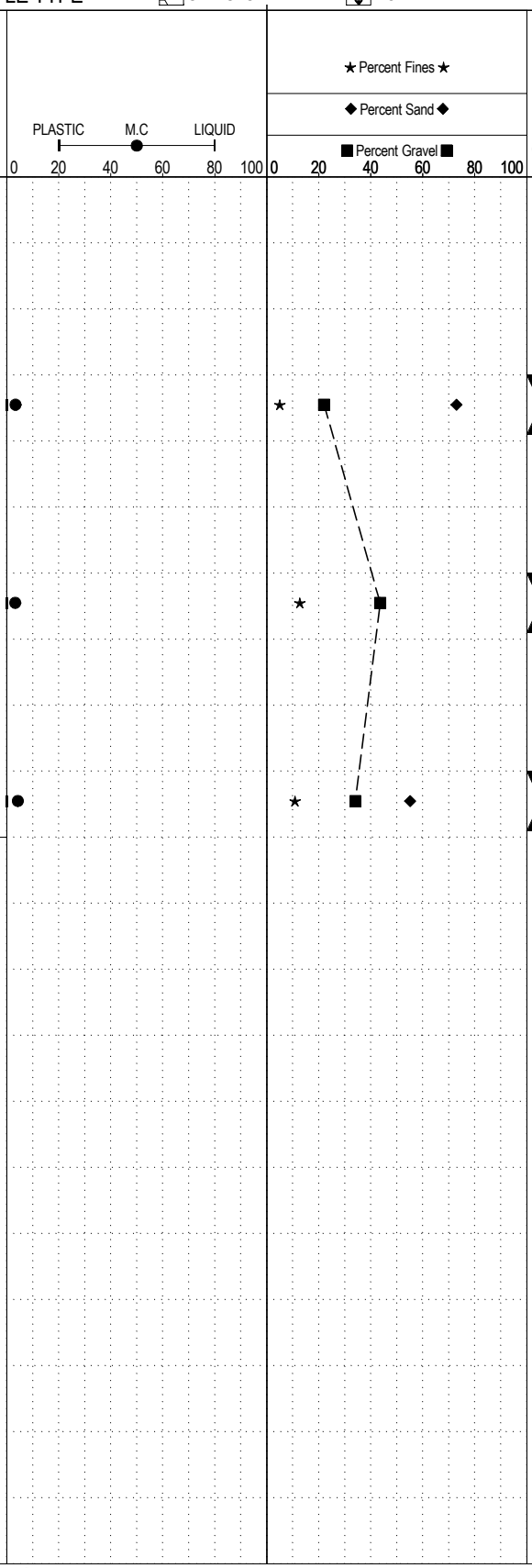
ELEV. (m)	PLASTIC / M.C / LIQUID (0 20 40 60 80 100)	★ Percent Fines ★ / ◆ Percent Sand ◆ / ■ Percent Gravel ■ (0 20 40 60 80 100)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
							Embankment, 0.5m	1
	●	★ ■ ◆		040	SW-SM		SAND, well graded with silt and gravel -Refusal at 0cm of second flight, 10 blows with no movement END of HOLE -Refusal on rock	2
								3
								4
								5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 1.6m
COMPILED BY: TAJ	Complete: 10/7/2017 2:50:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5472**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818698m E454462m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

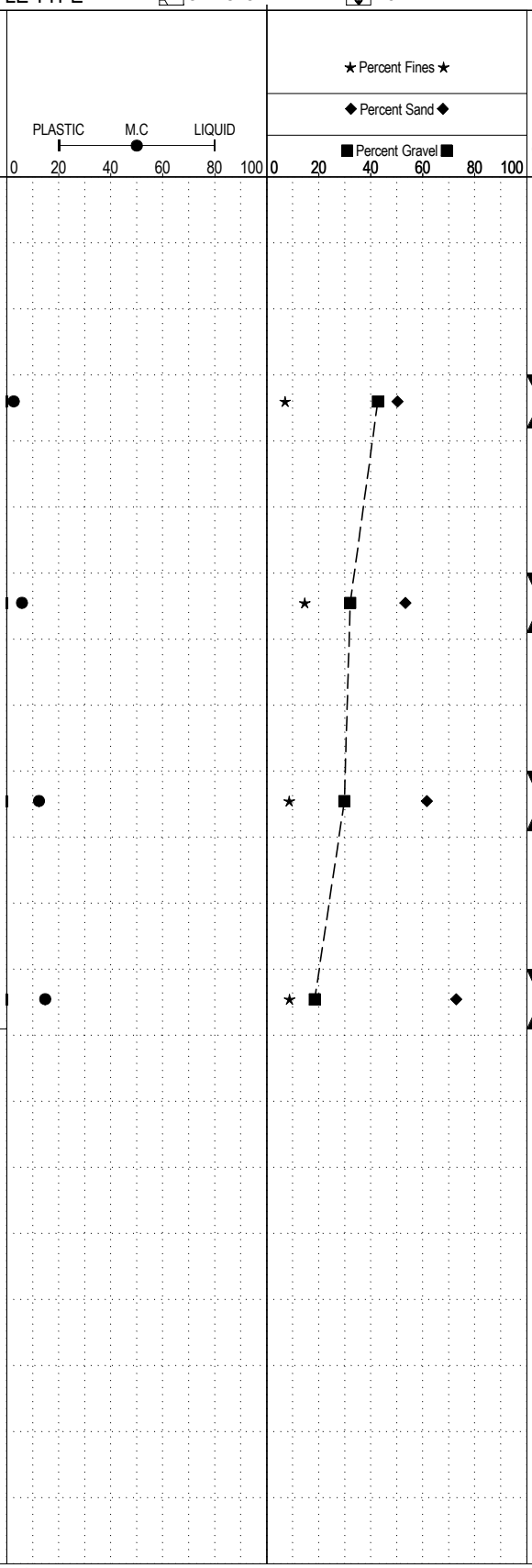


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, well graded with gravel -Brown, damp, subrounded	1
		041	SW	13		2
		042	SM	70	-Silty -Light grey/brown, dry, angular	3 4
		043	SW-SM	66	-Well graded -brown -Wet	5
					END of HOLE -Target depth reached	6 7 8 9 10

Yukon **Highways and Public Works Transportation Engineering Branch**	LOGGED BY: KAE/RWS	Termination Depth: 5m
	COMPILED BY: TAJ	Complete: 10/7/2017 3:30:00 PM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5473**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818659m E454559m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

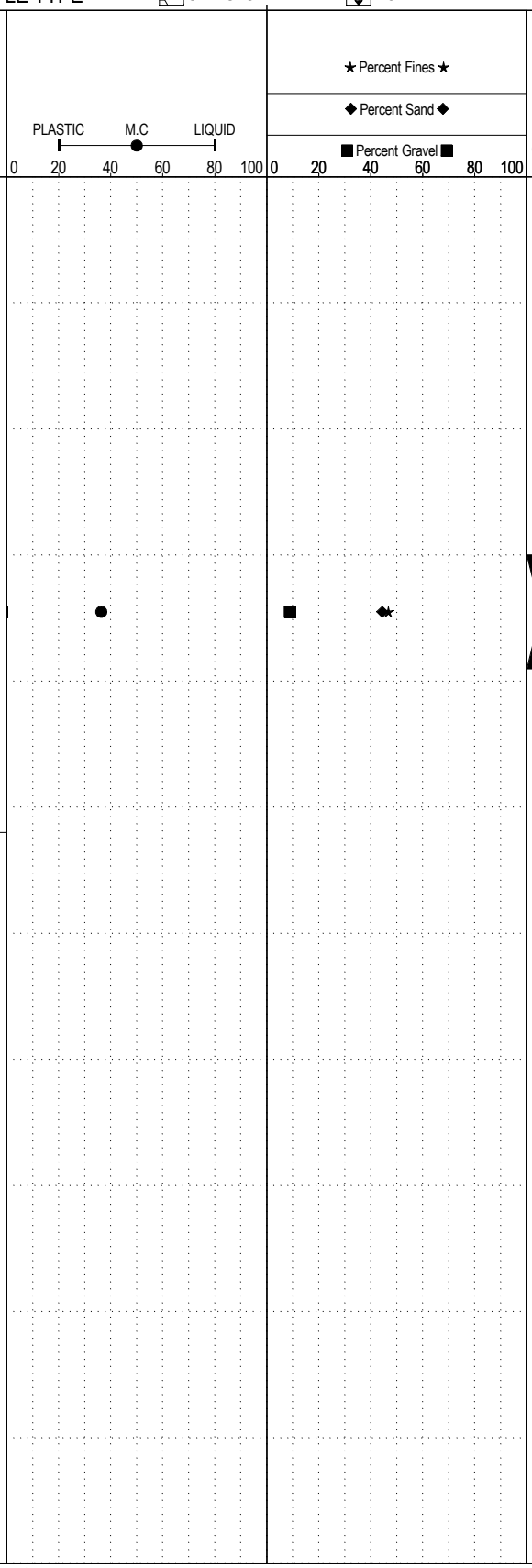


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, well graded with silt and gravel -Grey-brown, dry angular	1
	SPT	044	SW-SM	41		2
					-Easy drilling	3
	SPT	045	SM	33	-Silty -Brown, damp, angular -Grey, dry -Ocher, wet	4
	SPT	046	SP-SM	33	-Poorly graded -Brown, saturated	5
	SPT	047	SW-SM	29	-Well graded	6
					END of HOLE -Target depth reached	7
						8
						9
						10

Yukon **Highways and Public Works Transportation Engineering Branch**	LOGGED BY: KAE/RWS	Termination Depth: 6.45m
	COMPILED BY: TAJ	Complete: 10/7/2017 4:20:00 PM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5474**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818645m E454660m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



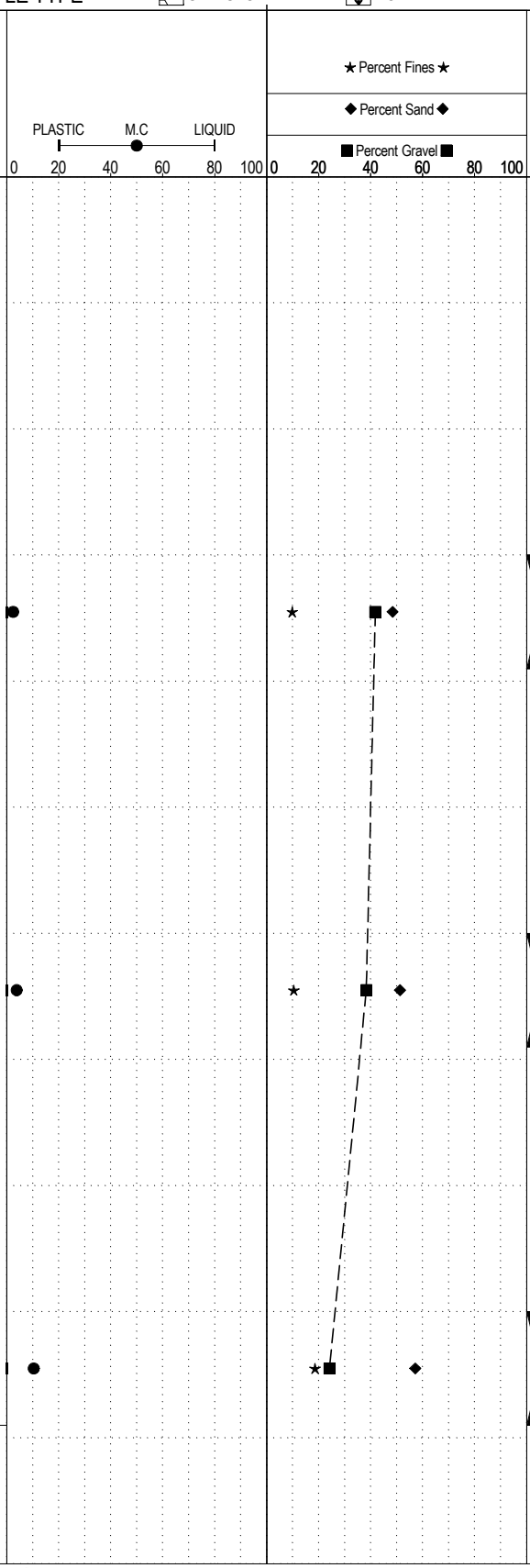
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty, trace fibreous, trace woody organics -Black, moist, loose	1
		048	SM	3		
						2
				40	-Frozen (Vr), 25-20% ice, 0.5cm thick veins	
					END of HOLE -Refusal on ice	3
						4
						5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 2.6m
COMPILED BY: TAJ	Complete: 10/7/2017 4:50:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5475**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818666m E454753m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



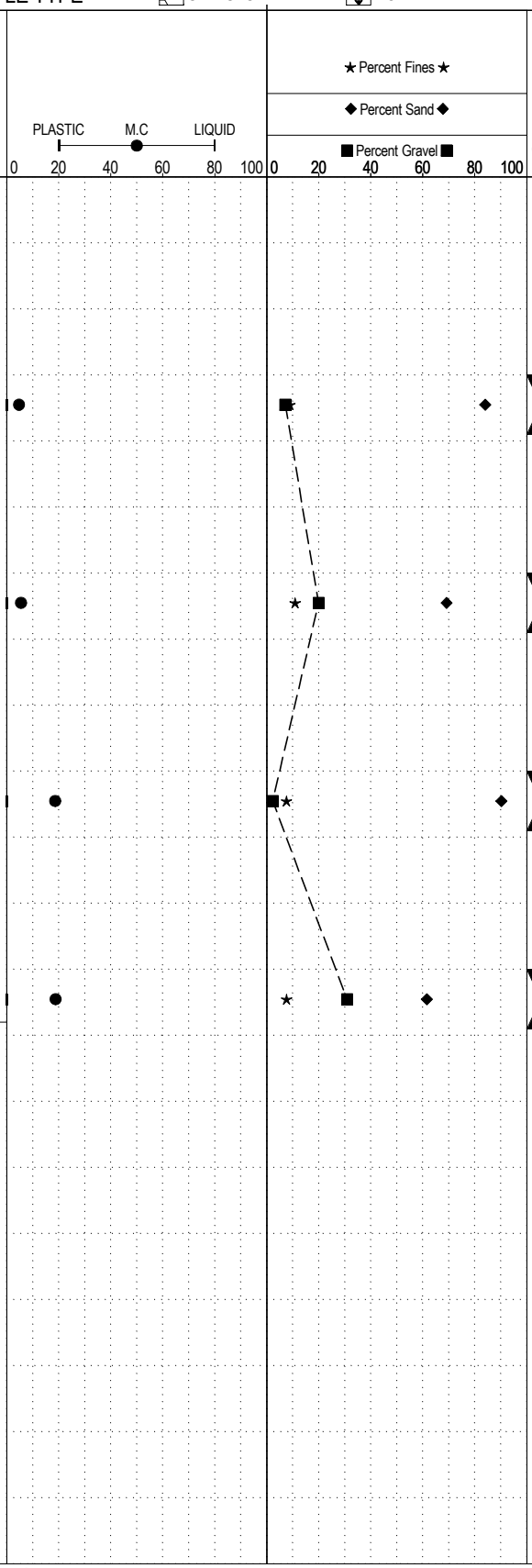
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, poorly graded with silt and gravel -Brown, compact, damp, angular	
						1
		050	SP-SM	37		
					-Grinding	2
						3
		051	SW-SM	49	-50mm Ash, weathered and granular -Well graded -Brown, dense, moist, subrounded	
						4
		052	SM	70	-Silty -very dense, wet, subangular	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/8/2017 9:36:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5476**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818799m E454930m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



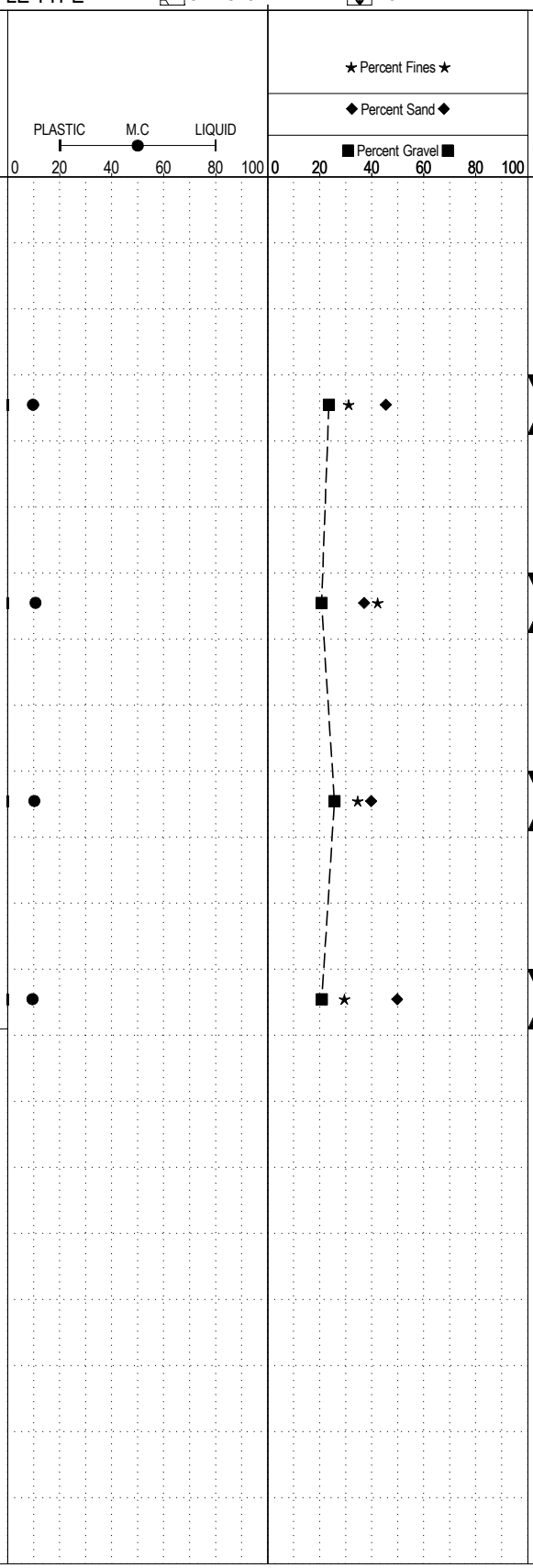
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, some gravel, trace silt -Embankment fill	1
	SPT	054	SW-SM	28	-Well graded, with silt -Brown, damp, compact, subrounded	2
	SPT	055	SW-SM	69	-Some gravel -Moist, very dense	3, 4
	SPT	056	SW-SM	68	-Trace gravel -Sub angular, very dense, saturated	5
	SPT	057	SW-SM	48	-Some gravel -Dense	6
					END of HOLE -Target depth reached	7, 8, 9, 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.4m
COMPILED BY: TAJ	Complete: 10/8/2017 10:36:00 AM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5477**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818933m E455086m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



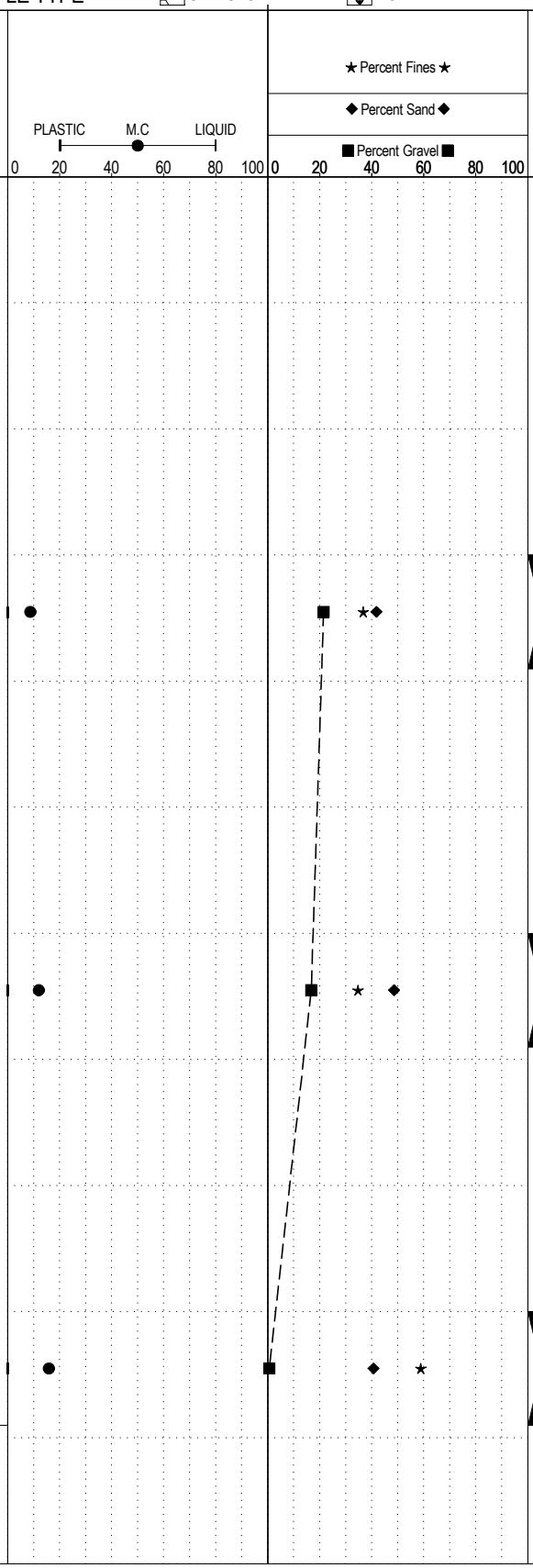
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, silty with gravel -Brown, dense, damp, angular	1
	SPT	058	SM	36		2
	SPT	059	SM	7	-Some grinding -Greyish brown, subrounded, moist	3 4
	SPT	060	SM	21	-Dark grey, oxidization on aggregate -Slight organic odour	5
	SPT	061	SM	18	-Dense	6
					END of HOLE -Target depth reached	7 8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/8/2017 11:35:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5478**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818996m E455165m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



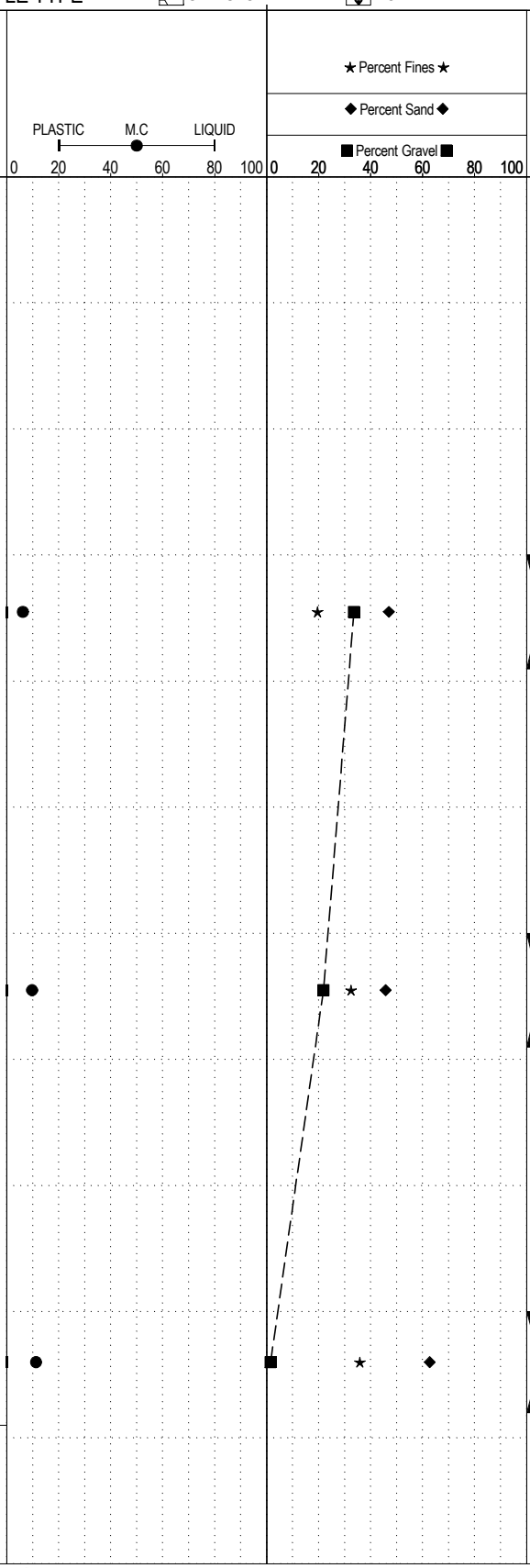
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty with gravel -brown, very dense, angular	1
		062	SM	31		2
		063	SM	20	-Oxidization on aggregate	3
						4
		064	ML	17	SHALE, weathered (tested as SILT, sandy) -Cohesion between particles	
					END of HOLE -Target depth	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/8/2017 12:15:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5479**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6819035m E455258m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



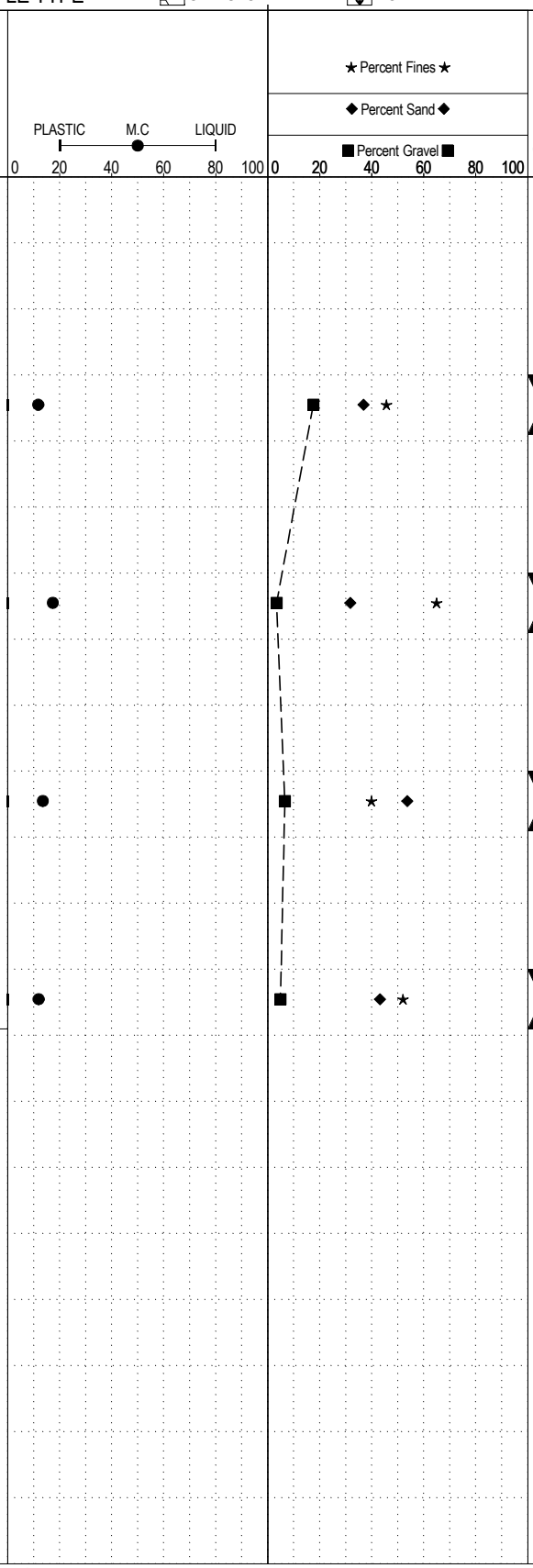
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty with gravel -Brown, damp, dense, angular	1
		065	SM	32		2
					-Refusal on hard ground -Move ahead 1.5m	3
		066	SM	34	-Grey, damp, brown	4
		067	SM	47	-Trace gravel -Weathered shale	
					END of HOLE -Target depth reached	5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/8/2017 1:30:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5480**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6819019m E455483m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



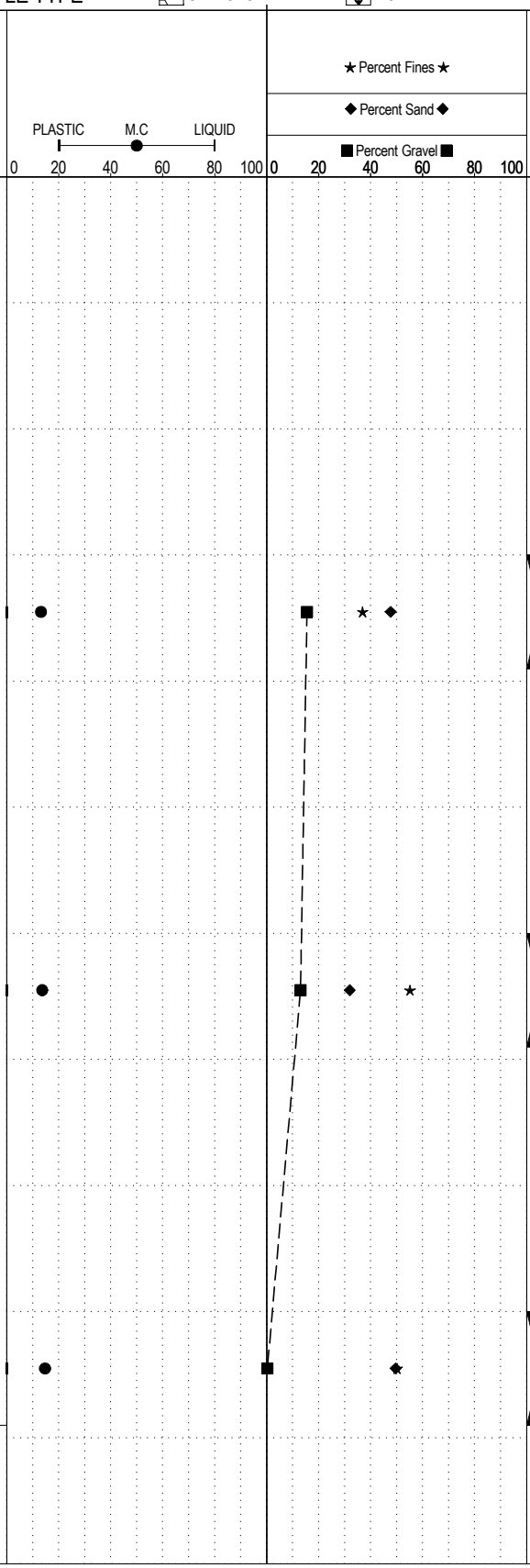
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	068	SM	14	SAND, silty with gravel -Dark grey, damp, subrounded	2
	SPT	069	ML	9	Weathered Shale (Tested as sandy silt)	3, 4
	SPT	070	SM	42	-Tested as silty sand -Oxidization present	5
	SPT	071	ML	63	-Tested as sandy silt -Very dense, friable	6
					END of HOLE -Target depth reached	7, 8, 9, 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/8/2017 2:27:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5481**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818953m E455583m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



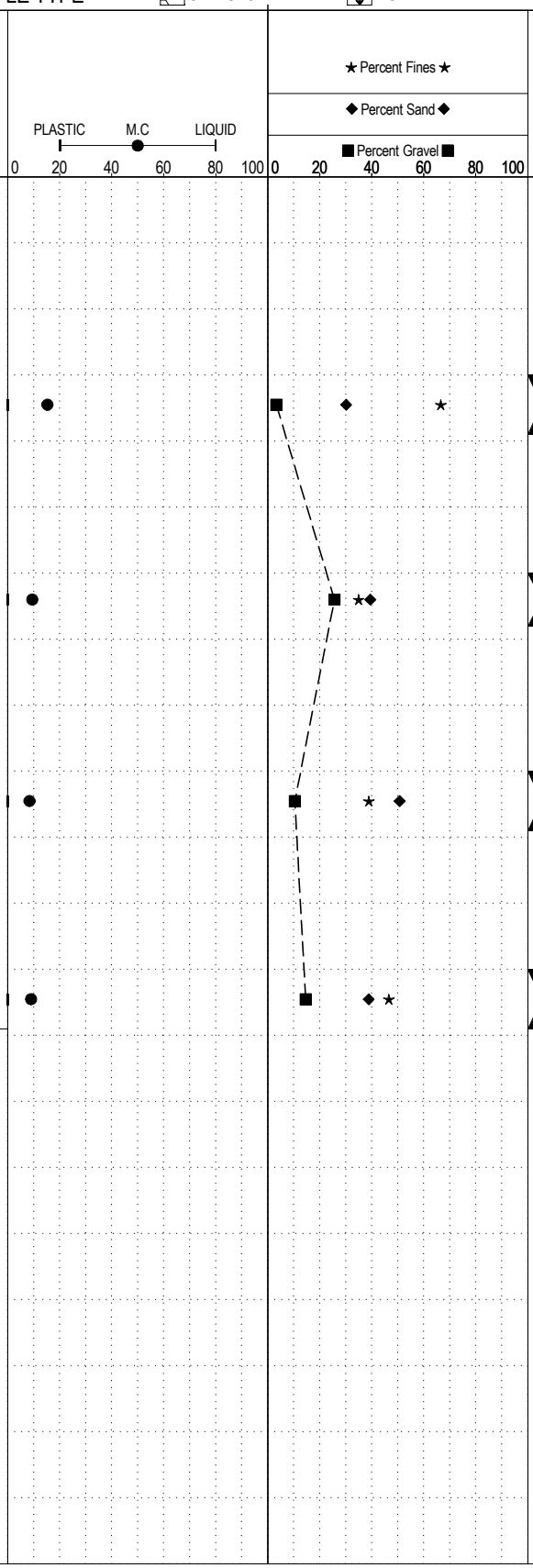
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty with gravel -Brown, damp, dense	1
		072	SM	11		2
					Gravel and sand -some oxidization	3
		073	ML	15	Weathered Shale (tested as sandy silt)	4
		074	ML	19	-Highly oxidized	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/8/2017 3:05:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5482**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818843m E455689m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



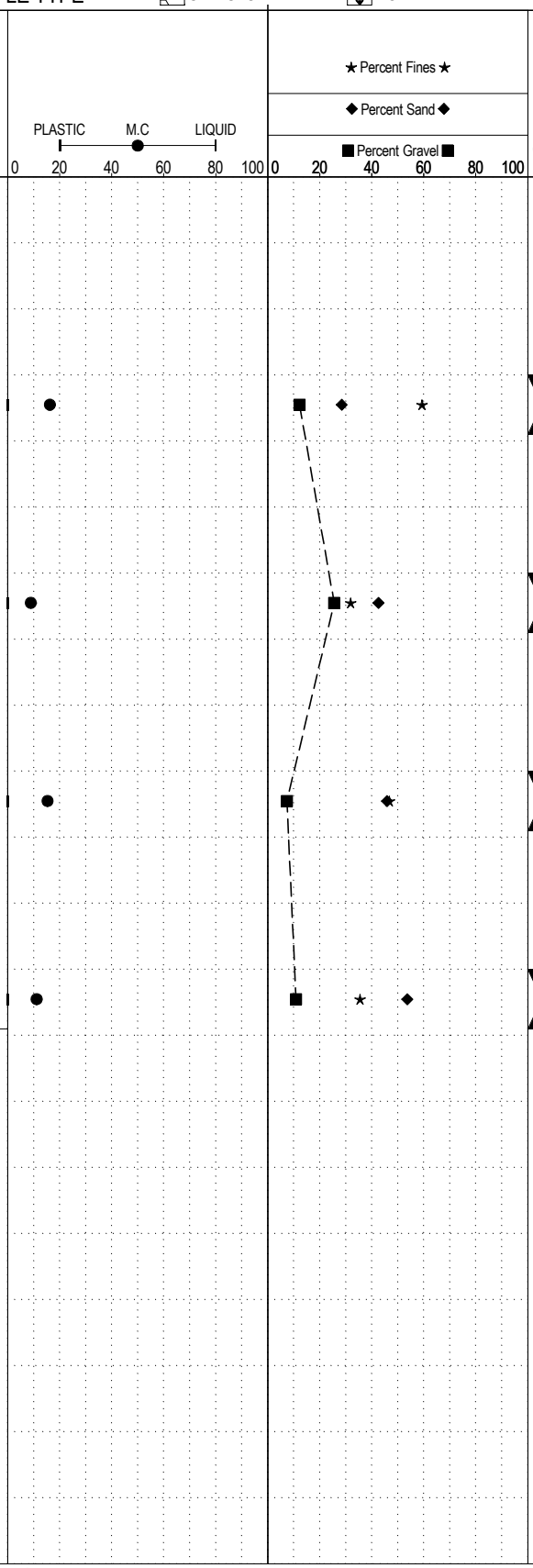
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	075	ML	8	-Refusal at 1.4m -Move ahead 1.5m SILT, sandy -Brown, damp, firm, low plastic	2
					Weathered Shale (tested as sandy silt) -Grey, some oxidization	3
	SPT	076	SM	23	-Competent rock mixed into sample	4
	SPT	077	SM	31	-Oxidization	5
	SPT	078	SM	30	-No oxidization	6
					END of HOLE -Target depth reached	7
						8
						9
						10

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/8/2017 4:21:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5483**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818751m E455780m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



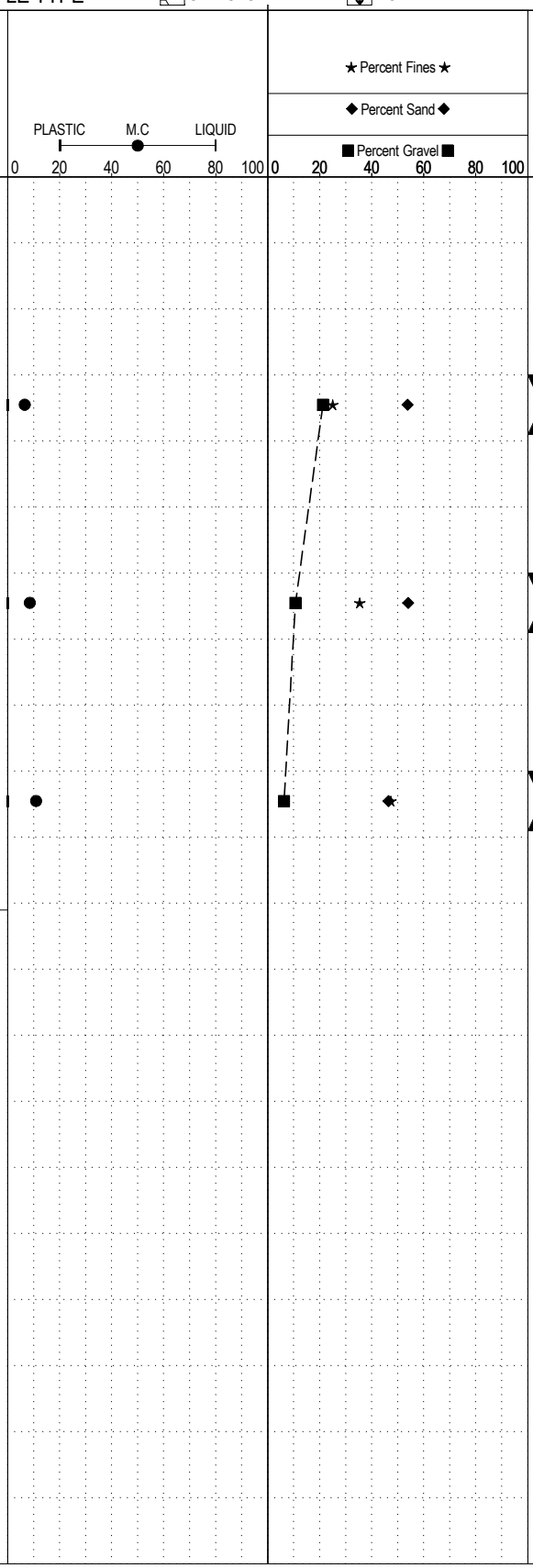
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	079	ML	9	SILT, sandy -Dark beige, firm, non plastic -Oxidization on gravel	2
	SPT	080	SM	28	SAND, silty with gravel -Very stiff	3, 4
	SPT	081	SM	26	Weathered Shale with quartz inclusions (tested as silty sand) -Heavy oxidization	5
	SPT	082	SM	48		6
					END of HOLE -Target depth reached	7, 8, 9, 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/8/2017 5:15:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5484**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818684m E455880m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



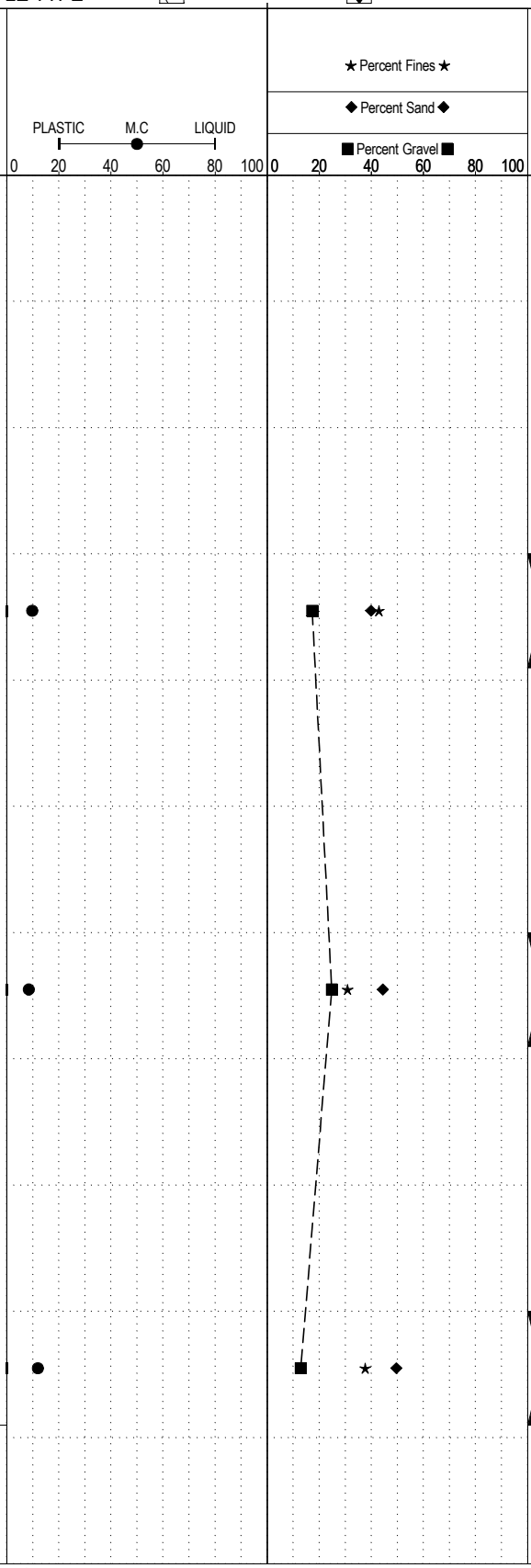
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty with gravel -Brown, moist, dense	1
		083	SM	18		2
						3
		084	SM	50	Weathered Shale (tested as silty sand) -Grey, oxidization present -Hard drilling -Refusal 7.5cm from end of third flight, 10 blows with no advancement	4
		085	SM	54	-Some oxidization, cohesion, brown -Possibly mudstone -Slow drilling	5
					END of HOLE -Refusal on hard ground -No SPT	6
						7
						8
						9
						10

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 5.55m
COMPILED BY: TAJ	Complete: 10/9/2017 10:54:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5485**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818598m E456059m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



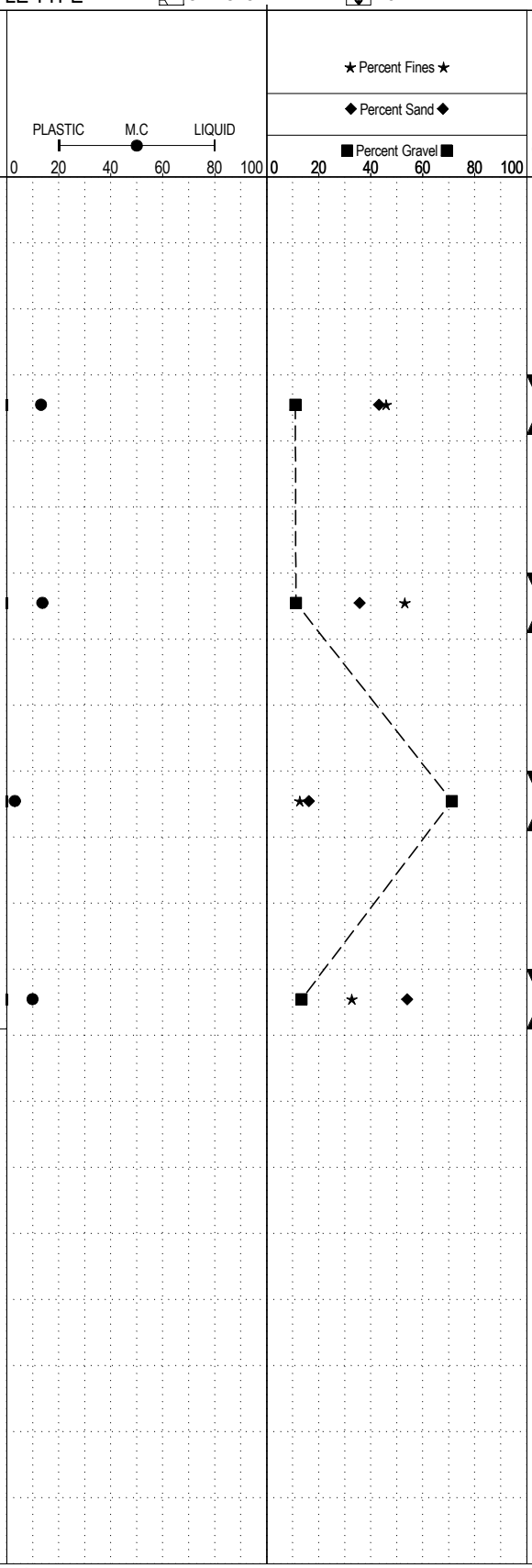
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty with gravel -Brown, moist, dense	1
		086	SM	22	-Refusal, moved ahead 1.5m	2
		087	SM	29	-Trace gravel	3
						4
		088	SM	21	-Rounded	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/9/2017 12:12:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5486**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818528m E456257m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



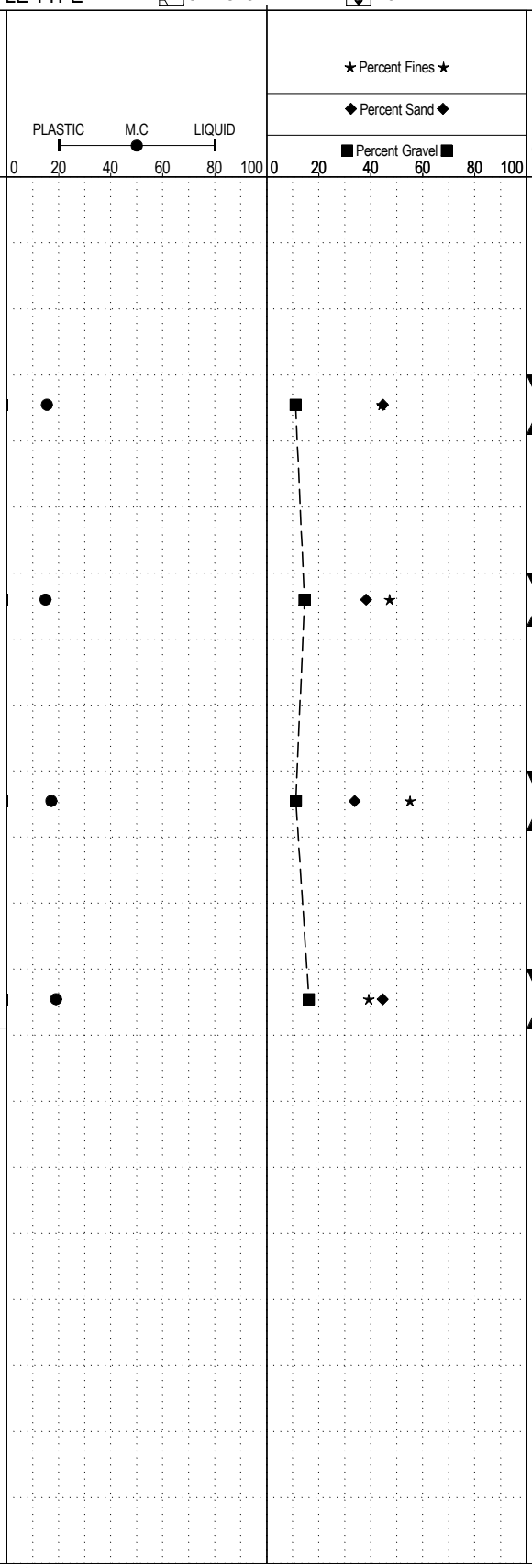
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	089	SM	11	SAND, silty -Brown, damp, compact	2
	SPT	090	ML	12	SILT, sand -Brown, damp, firm	3, 4
	SPT	091	GM	39	GRAVEL, silty with sand -Brown, damp, firm	5
	SPT	092	SM		SAND, silty -Brown, damp, very dense, subrounded -Some oxidization -Refusal at 10cm of second flight, 10 blows with no advancement	6
					END of HOLE -Target depth reached	7, 8, 9, 10

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/9/2017 1:04:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5487**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818462m E456443m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

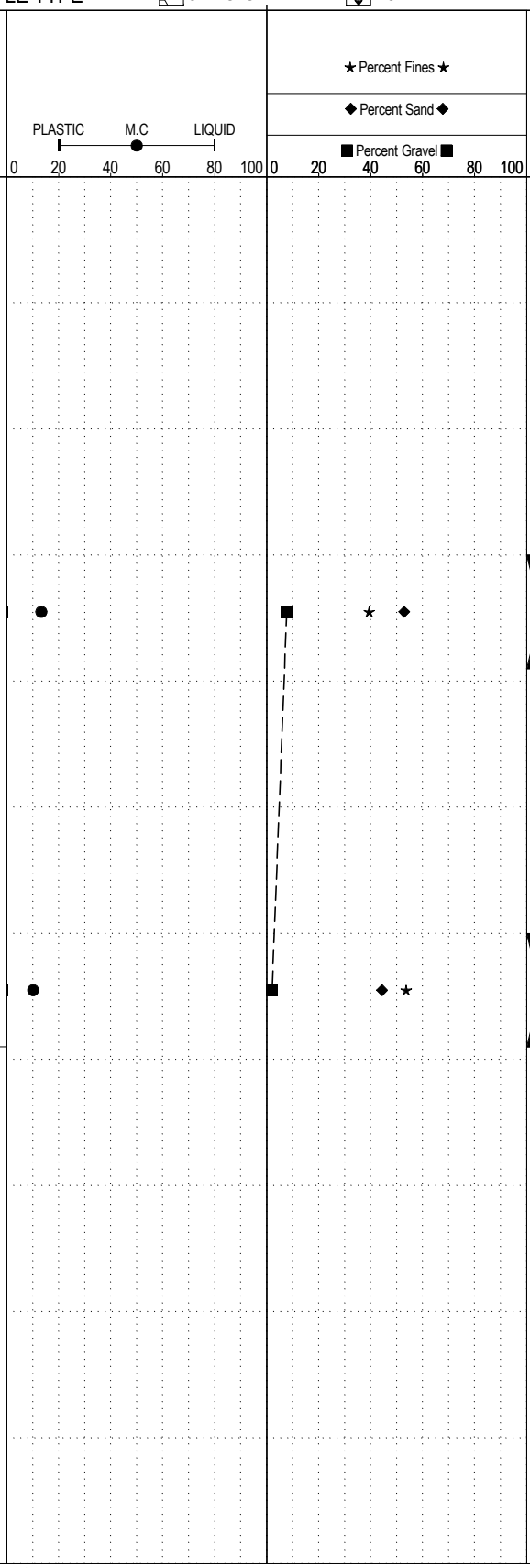


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty -Brown, damp, dense -Some oxidization on aggregate	1
	SPT	093	SM	17		2
	SPT	094	SM	20		3 4
	SPT	095	ML	12	SILT, sandy -Brown, damp, very stiff	5
	SPT	096	SM	12	SAND, silty with gravel -Brown, damp, dense -Heavy oxidization	6
					END of HOLE -Target depth reached	7 8 9 10

Yukon Highways and Public Works Transportation Engineering Branch	LOGGED BY: KAE/RWS	Termination Depth: 6.45m
	COMPILED BY: TAJ	Complete: 10/9/2017 2:04:00 PM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5488**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818394m E456633m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

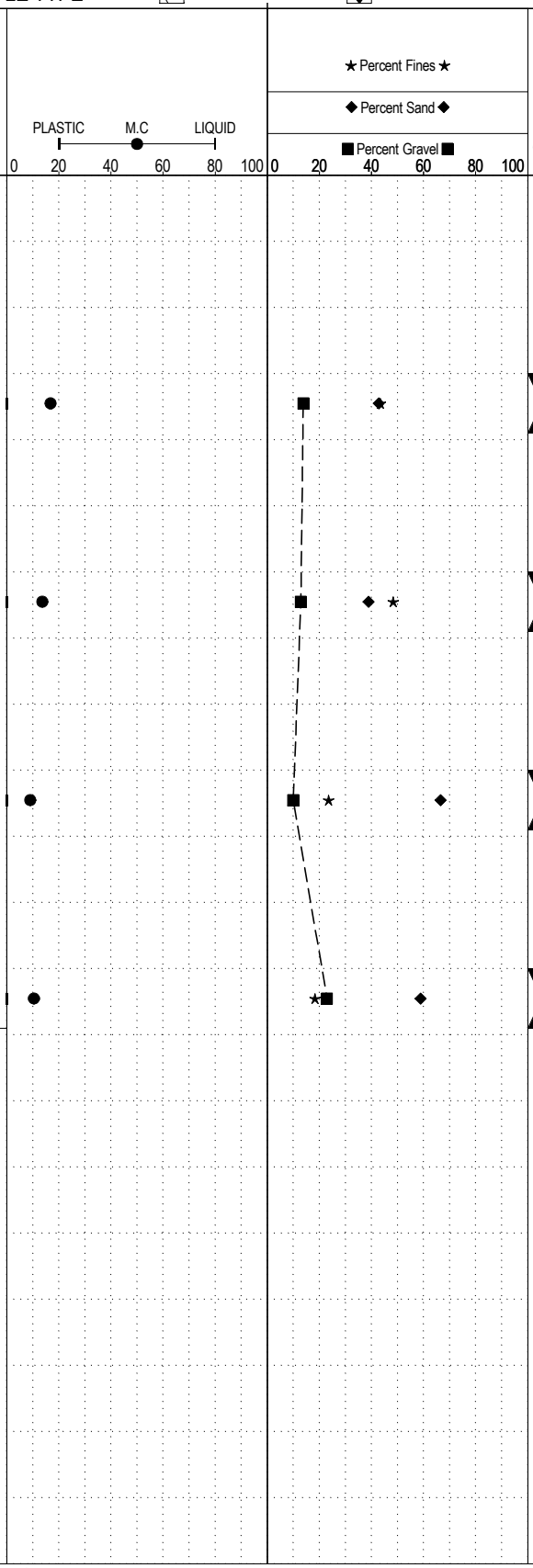


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty -Brown with grey inclusions, moist, compact	1
		097	SM	10		2
					-Hard drilling	3
		098	ML	58	Weathered Shale or Mudstone (Tested as sandy silt)	
					END of HOLE -Refusal on tight formation, high torque	4 5

Yukon Highways and Public Works Transportation Engineering Branch	LOGGED BY: KAE/RWS	Termination Depth: 3.45m
	COMPILED BY: TAJ	Complete: 10/9/2017 2:39:00 PM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5489**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818333m E456816m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



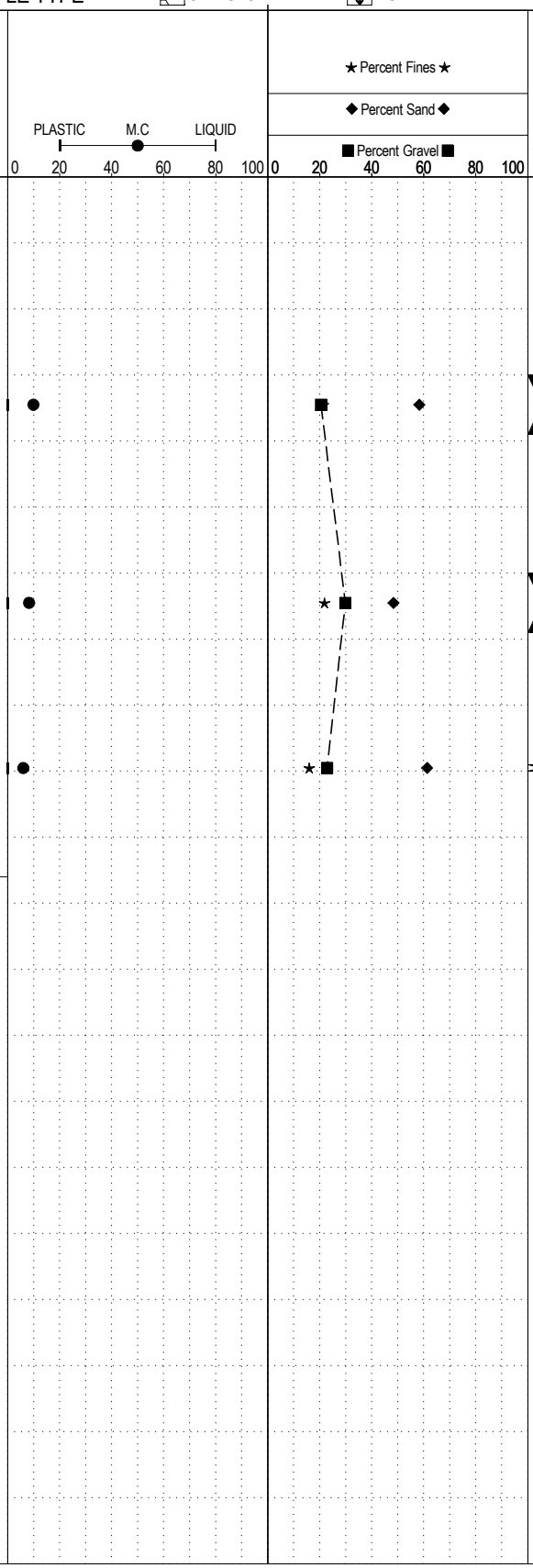
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	099	SM	9	SAND, silty	
					ORGANICS -Fiberous, slight odour	2
	SPT	100	SM	15	SAND, silty -Damp, stiff, beige	3, 4
	SPT	101	SM	22	Weathered Shale (tested as silty sand) -Friable, some oxidization	5
	SPT	102	SM	18		6
					END of HOLE -Target depth reached	7, 8, 9, 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/9/2017 3:20:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5490**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818258m E457019m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



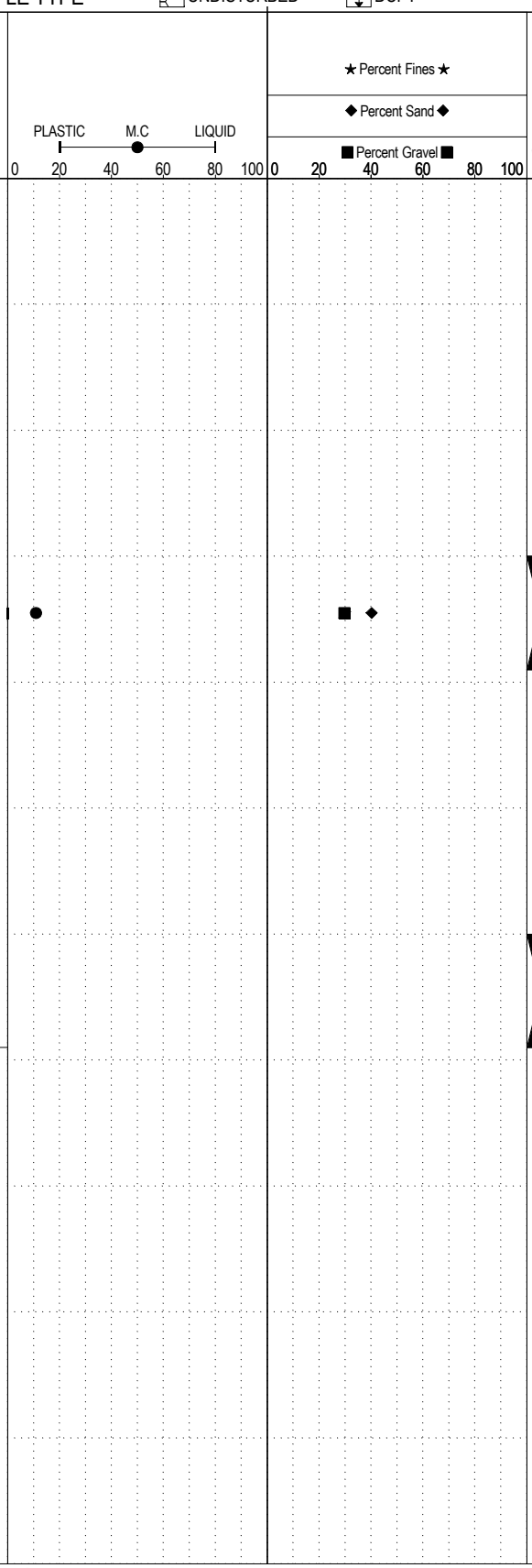
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty with gravel -Rusty brown, damp, compact, subangular	1
		103	SM	16		2
						3
		104	SM	12	Weathered Shale (Tested as silty sand with gravel) -Friable, some oxidization -Slow drilling	4
		105	SM	60	-Heavy oxidization -Quartz inclusions	5
					END of HOLE -Refusal on hard ground -Probably competent bedrock	6
						7
						8
						9
						10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 5.3m
COMPILED BY: TAJ	Complete: 10/9/2017 2:08:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5491**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818295m E456908m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



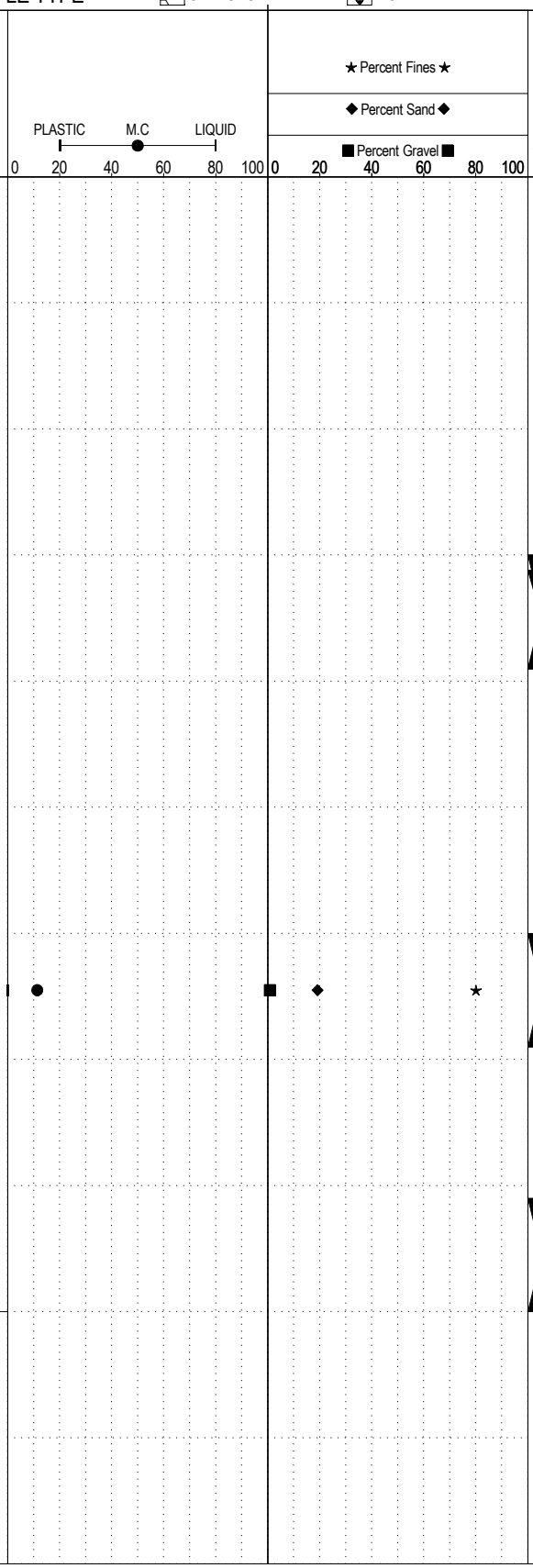
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SILT, some sand, trace gravel	1
		106	SM	47	SAND, silty with gravel -Rusty brown, dense, damp, angular -Weathering/oxidization evident -Grinding	2
		107		64	Weathered Shale	3
					END of HOLE -Refusal on tight formation or more competent bedrock	4 5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.45m
COMPILED BY: TAJ	Complete: 10/9/2017 5:01:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5492**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818214m E457130m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



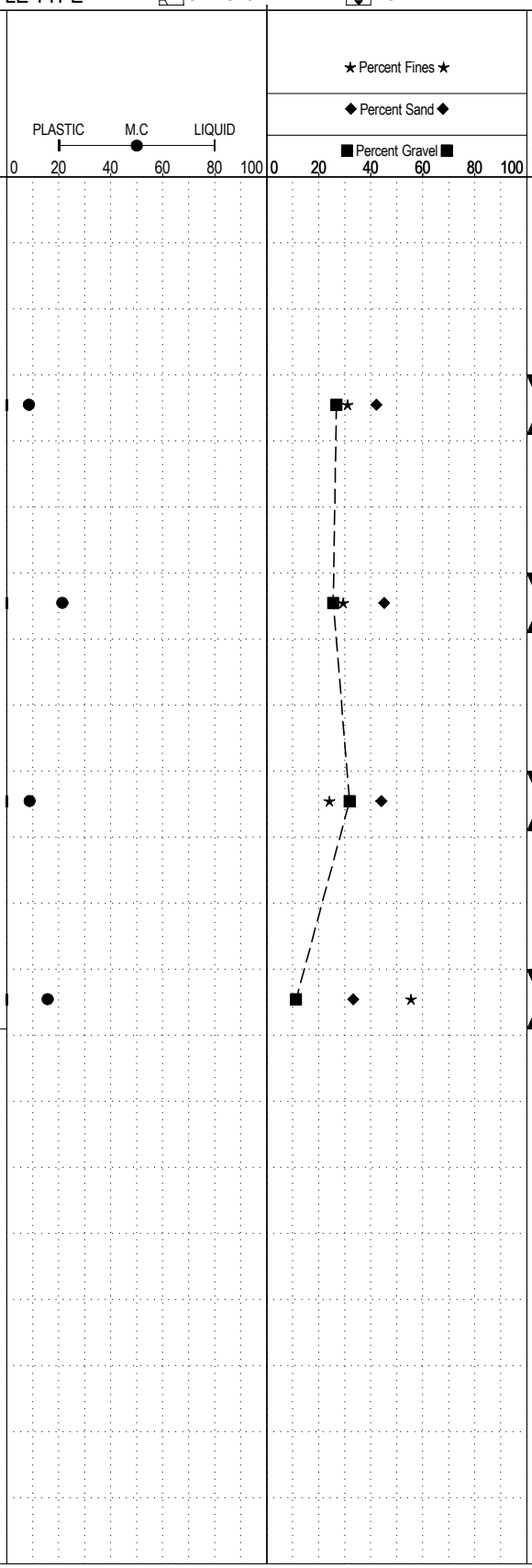
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		108 109		16	SAND, some silt, some gravel -Brown, damp, compact, subangular -Heavy grinding, refusal, moved ahead 2m	2
		110	ML	23	Weathered Shale (tested as silt with sand) -Hard drilling	3
		111			-Refusal at 5cm of flight 1, 10 blows with no advancement	4
					END of HOLE -Refusal on tight formation	5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.5m
COMPILED BY: TAJ	Complete: 10/9/2017 6:02:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5493**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818167m E457206m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



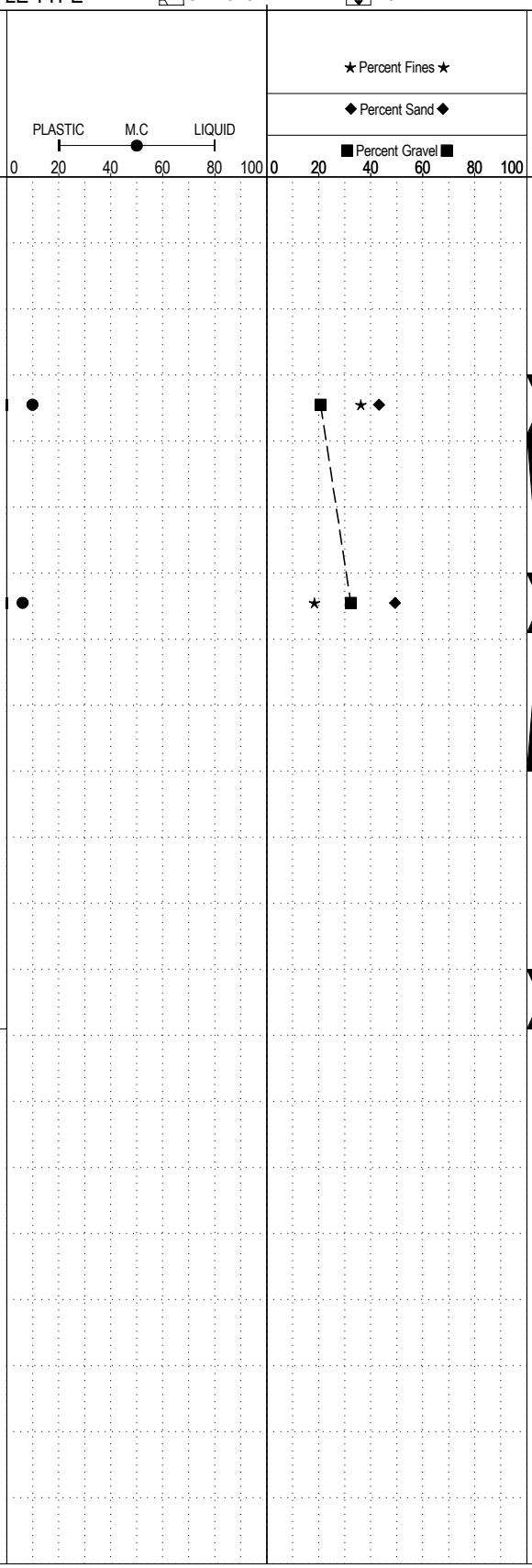
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	112	SM	19	SAND, silty with gravel -Brown, damp, compact, sub angular	2
	SPT	113	SM	8	-ORGANIC SOIL, peaty -50mm SAND, silty with gravel -Rusty brown, moist, loose, angular	3 4
	SPT	114	SM	12	-Brown, damp, sub angular	5
	SPT	115	ML	13	SILT, sandy -Brown, damp, sub angular	6
					END of HOLE -Target depth reached	7 8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/10/2017 9:34:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5494**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818105m E457256m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



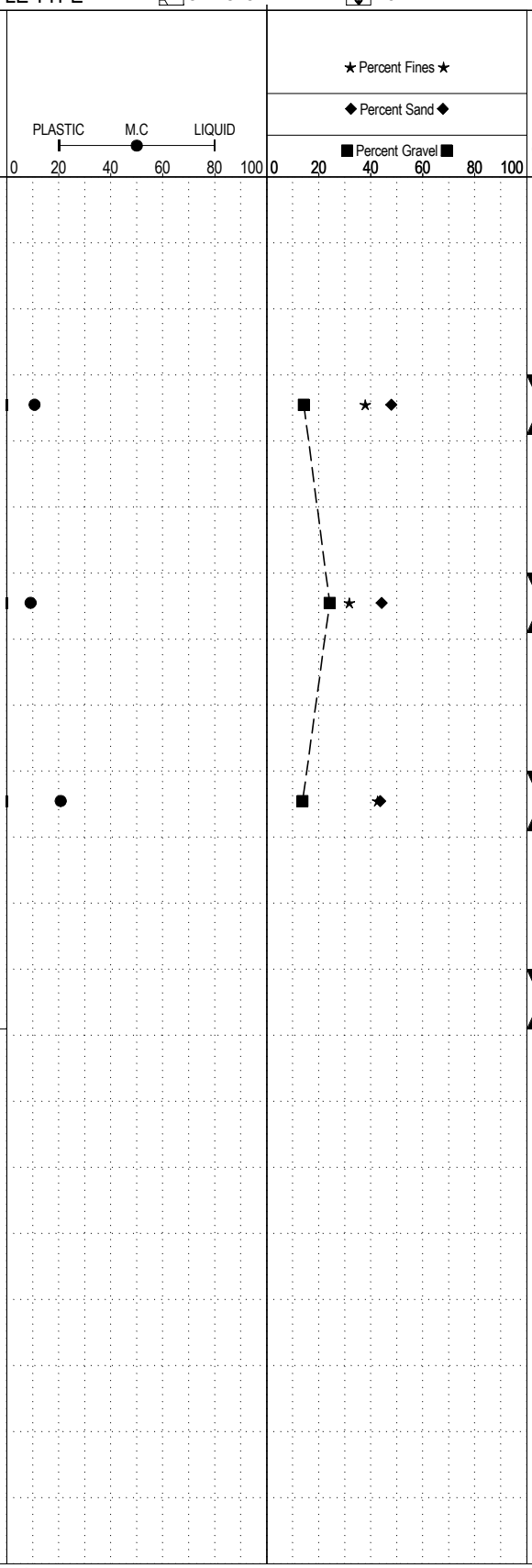
Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
				Embankment fill	
				SAND, silty with gravel -Brown, damp, compact, angular	1
SPT	116	SM	18	-Silt lense, 50mm	2
SPT	117 118	SM	24 15	-Sub angular -Some oxidization -Light grinding	3 4
				Weathered Shale -Friable, some cohesion, smearing -Light oxidization	5
SPT	119		13	Weathered Mudstone -Dark brown, friable	6
				END of HOLE -Target depth reached	7 8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/10/2017 10:26:00 AM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5495**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6818030m E457329m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



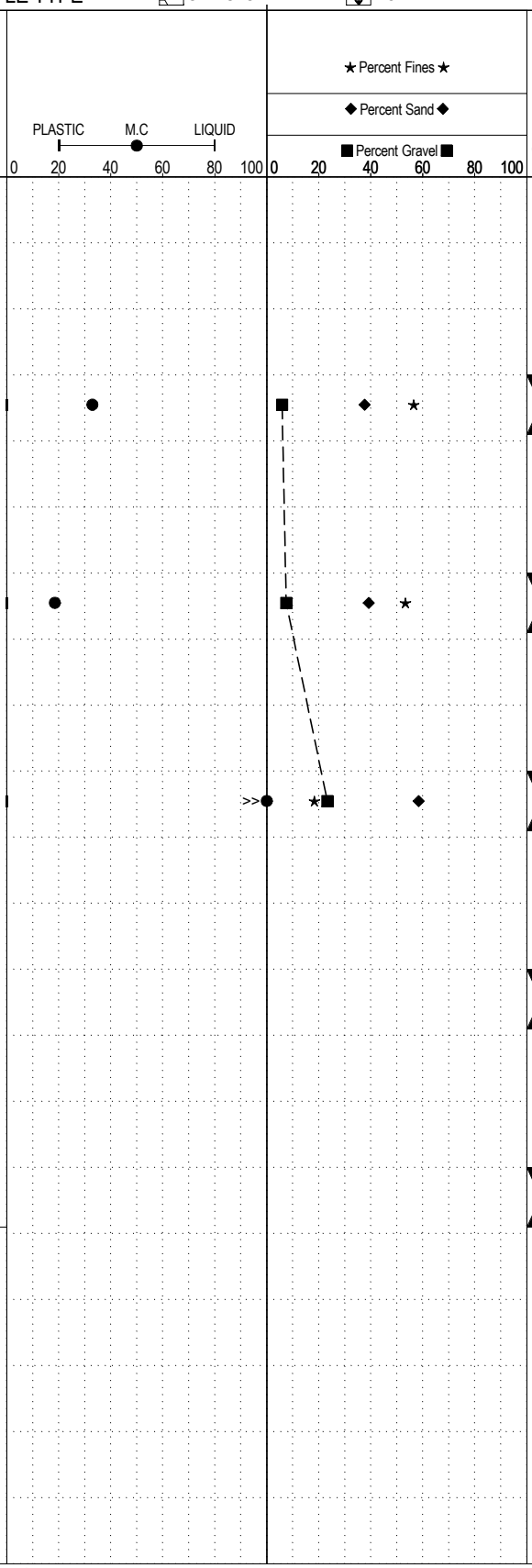
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	120	SM	13	SAND, silty -Brown, moist, compact, sub angular	2
	SPT	121	SM	14	-Some gravel	3, 4
	SPT	122	SM	10	ORGANIC SOIL, peaty -Trace gravel -Light brown	5, 6
	SPT	123		14	PEAT	
					SILT, some gravel, trace sand, trace clay -Light brown, stiff, moist END of HOLE -Target depth reached	7, 8, 9, 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/10/2017 11:17:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5496**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6817950m E457367m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



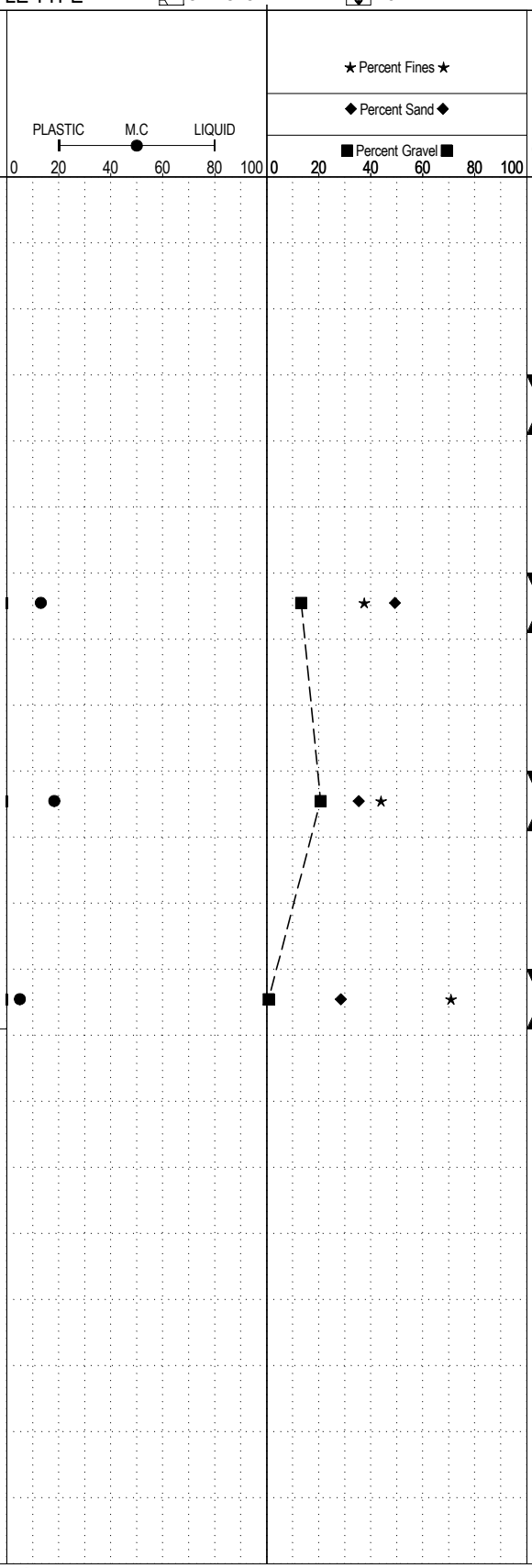
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment Fill	
					SILT, sandy -Interbedded with peat, at 50mm thick	1
		124	ML	7		2
		125	ML	8	-Brown, moist, firm -Sand Lense, 50mm	3 4
		126	SM	23	SAND, silty with gravel -Brown, damp, compact, angular -Grinding -No grinding	5
		127		3	SILT, some sand -Brown, damp -Silty Clay seam, 150mm -Soft, grey, moist, plastic SAND, silty with gravel -Brown, loose, moist	6 7
		128		29	Weathered Shale -Friable	
					END of HOLE -Target + extra to define soft layer	8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 7.95m
COMPILED BY: TAJ	Complete: 10/10/2017 12:13:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5497**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6817765m E457464m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



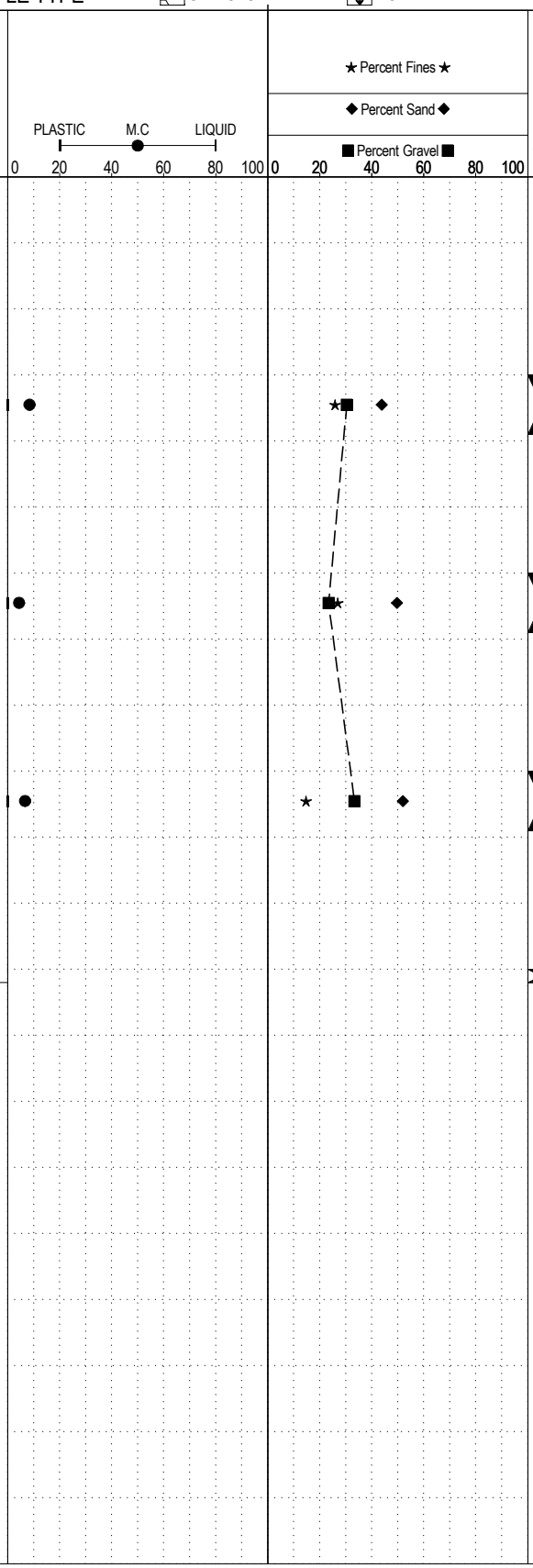
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	129		8	ORGANIC SOIL -Ash and fibre inclusions, slight odour	
					SAND, silty -Brown, moist, firm -Wet	2
	SPT	130	SM	7	SAND, silty with gravel -5mm sand lenses at 100mm spacing in spt	3 4
	SPT	131	SM	37	-Slow drilling -Frozen (Nbe) -Invalid blow count -Frozen (Vr), 5-10% near verticle ice vein	5
	SPT	132	ML	58	Weathered Shale -Frozen (Vx) <5% -Oxidization near ice lense	6
					END of HOLE -Target depth reached	7 8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/10/2017 1:45:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5498**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6817581m E457484m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



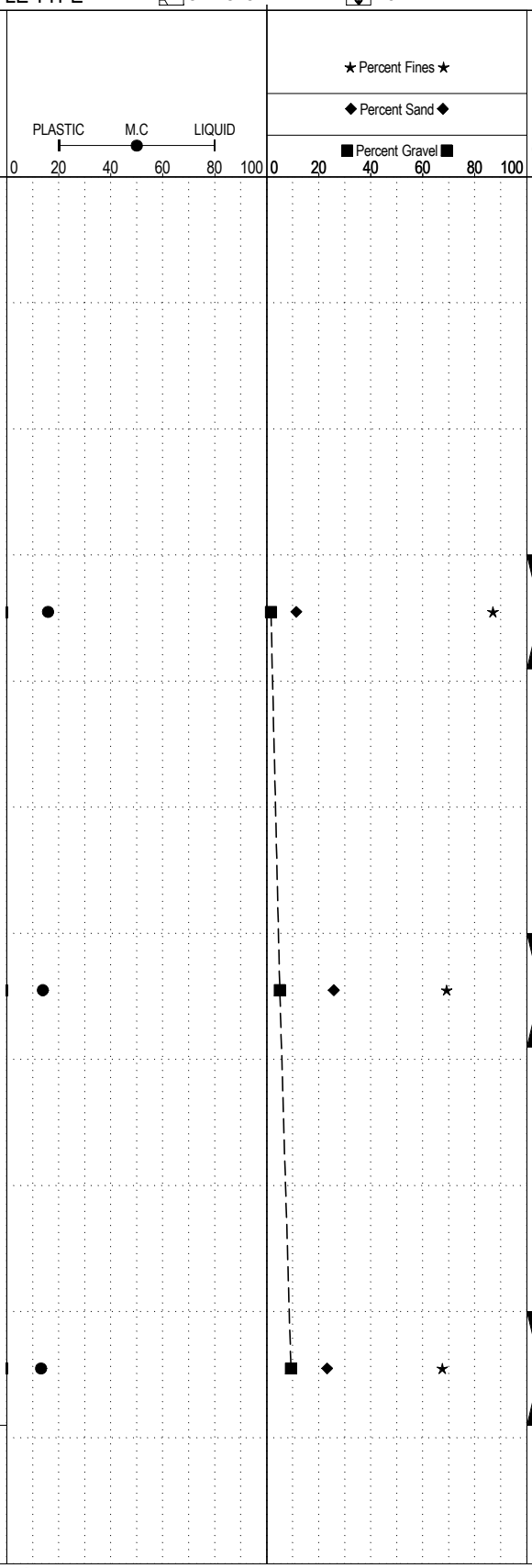
Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
				Embankment fill	1
	132	SM	16	-Refusal on hard ground, potential rock layer in embankment -Moved ahead 4m Organic soil with ash -Wet -Grinding	2
	133	SM	19	SAND, silty with gravel -Greyish brown, compact, saturated, sub angular -Some oxidization	3, 4
	134	SM	38	-Dark grey, dense, angular	5
	135			-Refusal at 20 blows, no advancement -No recovery END of HOLE -Target depth reached	6, 7, 8, 9, 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.1m
COMPILED BY: TAJ	Complete: 10/10/2017 2:40:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5499**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6817377m E457502m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



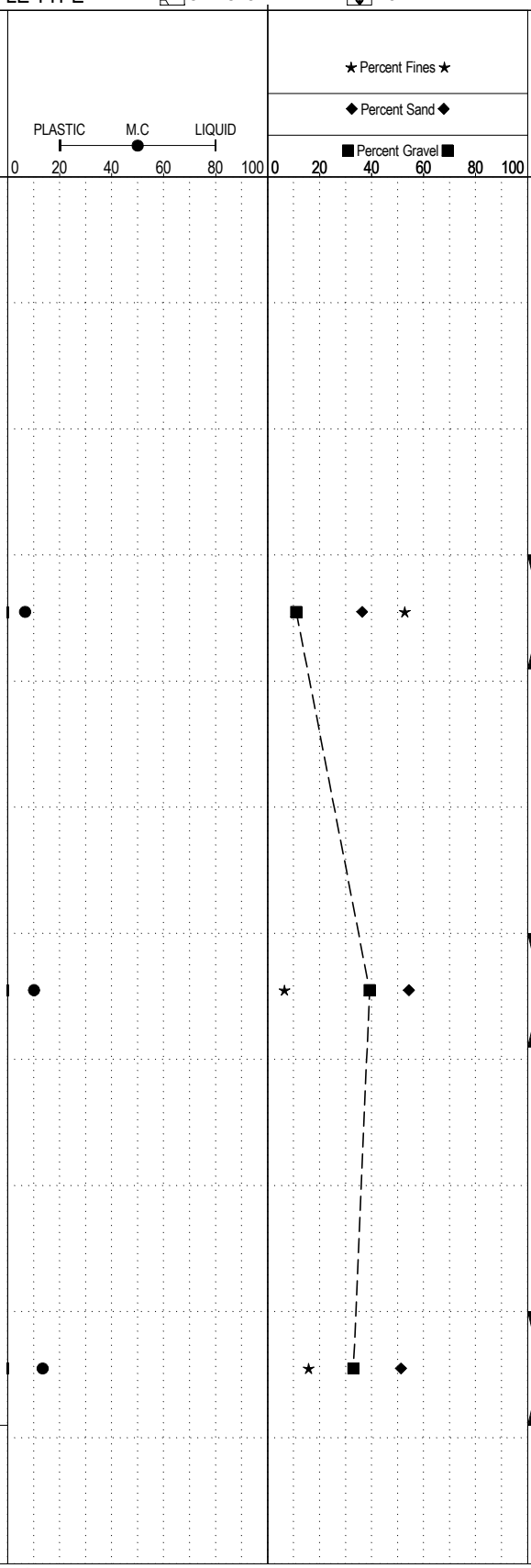
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					Weathered Shale (Tested as silt) -Brown, some cohesion, flaking	1
		136	ML	8		2
		137	ML	15	-Friable, quartz veins -Dark grey, some oxidization	3
						4
		138	ML	27		
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/10/2017 3:30:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5500**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6817198m E457592m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



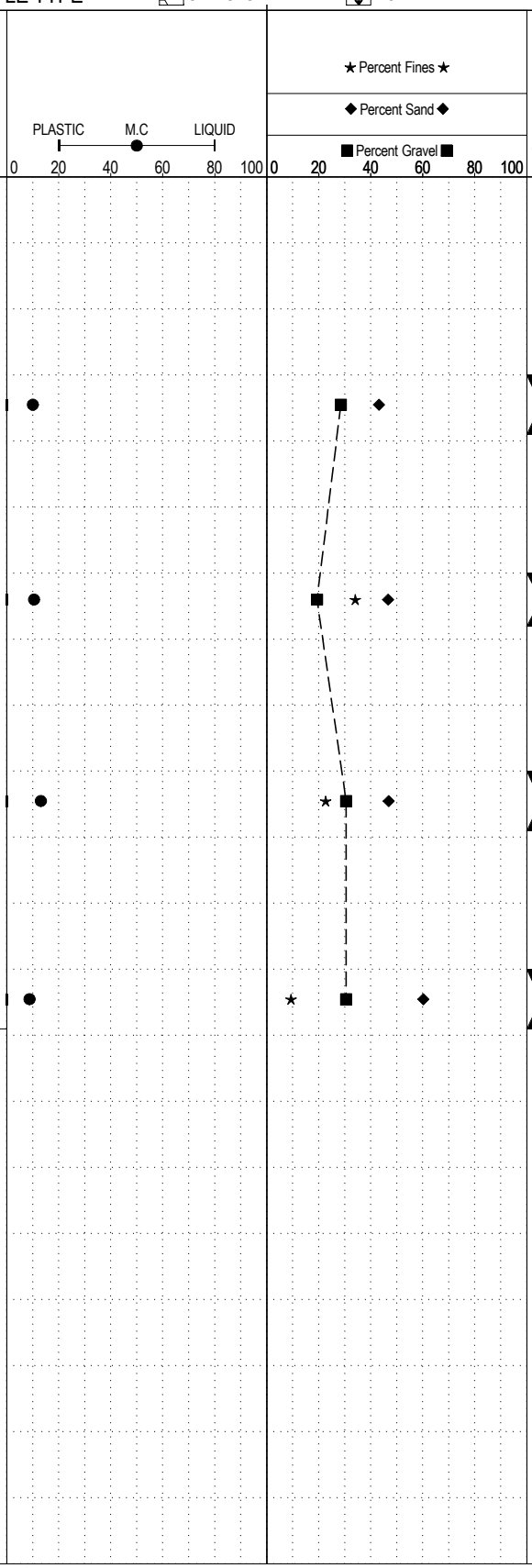
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		139	ML	51	SILT, sandy -Brown, damp, very dense, sub rounded	2
					-Heavy grinding -No grinding	3
		140	SW-SM	20	SAND, well graded with silt and gravel -Brown, compact, saturated, sub angular	4
					-Light grinding -Wet -Slow drilling	
		141	SM	95	Weathered Shale (tested as silty sand with gravel) -Dark grey, friable, saturated	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/10/2017 4:15:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5501**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6817028m E457724m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

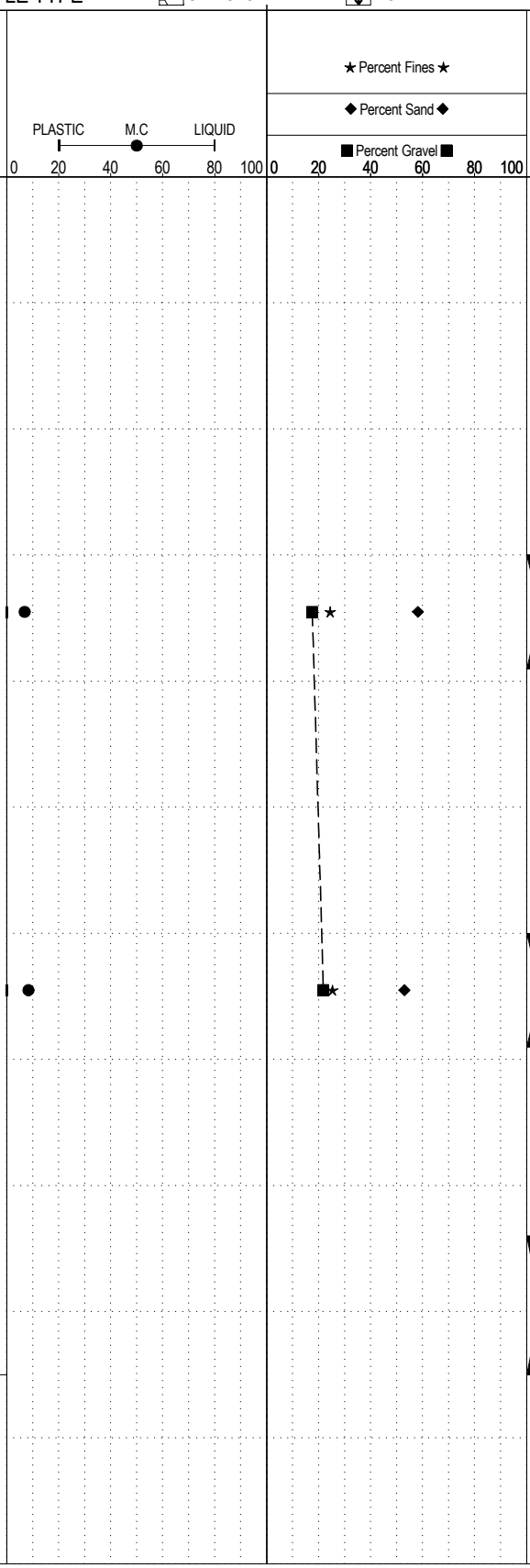


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, silty with gravel -Embankment fill	1
	SPT	142	SM	28		2
					-Sub rounded, compact, moist, greyish brown	3
	SPT	143	SM	18	-Light grinding -Grinding stops	4
	SPT	144	SM	62	-Saturated -Coarse sand, 70mm -Sub angular, light brown	5
	SPT	145	SW-SM	64	-Well graded -Angular, very dense, brown -Some oxidization on coarse material	6
					END of HOLE -Target depth reached	7
						8
						9
						10

Yukon **Highways and Public Works Transportation Engineering Branch**	LOGGED BY: KAE/RWS	Termination Depth: 6.45m
	COMPILED BY: TAJ	Complete: 10/10/2017 5:10:00 PM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5502**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6816883m E457853m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

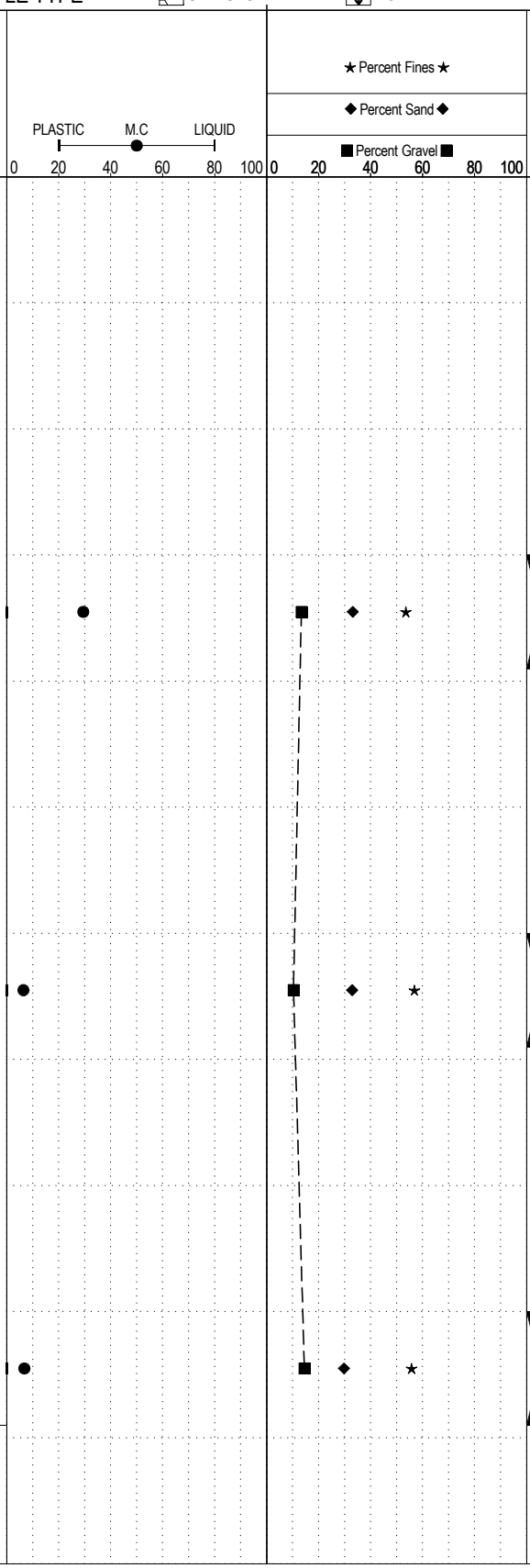


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty with gravel -Brown, damp, compact, angular	1
					-Grinding	
		146	SM	26		2
					-Grinding stops	
					-Slow drilling	3
					Weathered Shale (tested as silty sand with gravel) -Friable, flaking, some oxidization	
		147	SM	57		
					-Heavy grinding -Refusal on SPT, 50 blows before first flight finished	4
		148				
					END of HOLE -Refusal on hard ground	5

Yukon **Highways and Public Works Transportation Engineering Branch**	LOGGED BY: KAE/RWS	Termination Depth: 4.75m
	COMPILED BY: TAJ	Complete: 10/11/2017 9:35:00 AM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5503**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6816805m E458035m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

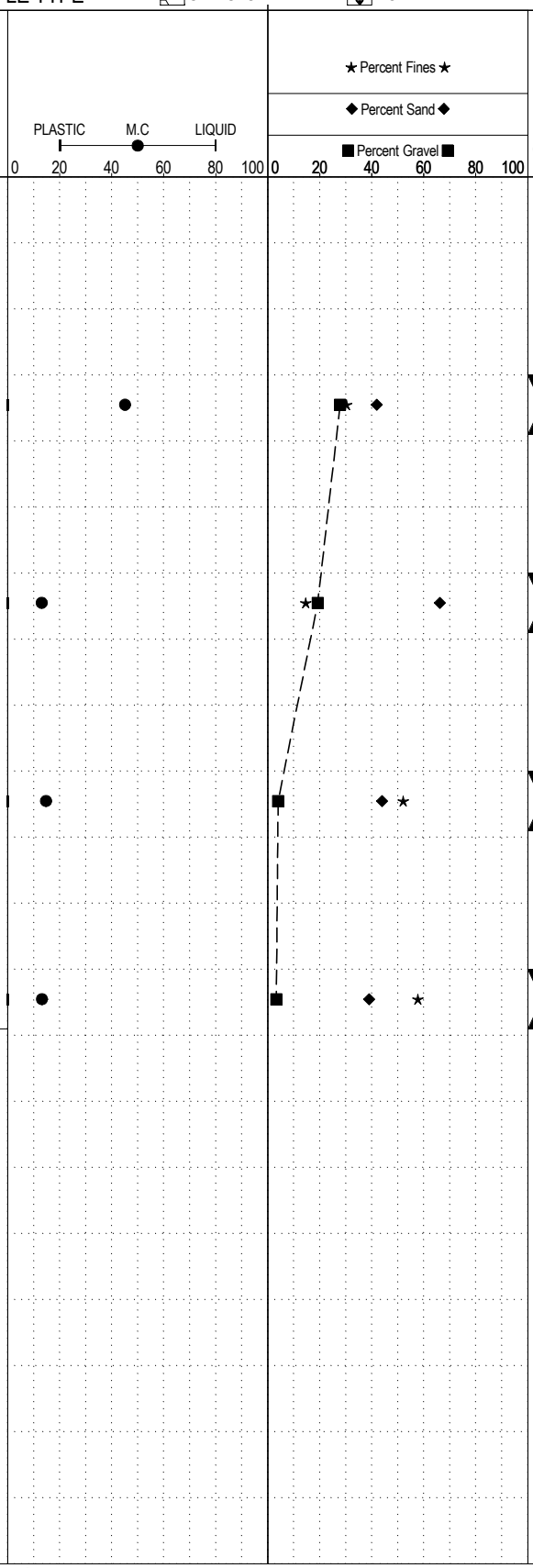


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SILT, sandy -Beige, moist, hard, sub angular	1
		149	ML	31		2
					-Heavy grinding	
		150	ML		-End of heavy grinding -Refusal on SPT, 10 blows with no advancement	3
					-Heavy grinding -Slow drilling -Dark grey, damp	4
		151	ML			
					END of HOLE -Target depth reached	5

Yukon **Highways and Public Works Transportation Engineering Branch**	LOGGED BY: KAE/RWS	Termination Depth: 4.95m
	COMPILED BY: TAJ	Complete: 10/11/2017 10:24:00 AM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5504**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6816740m E458228m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



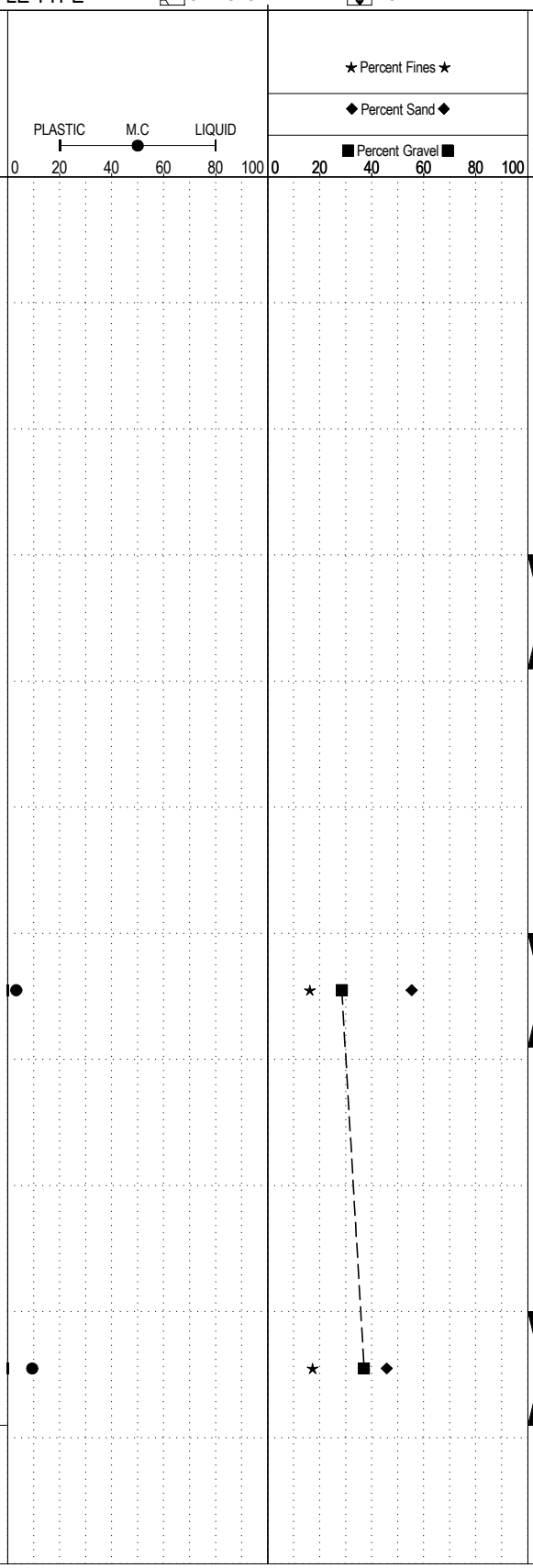
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	152	SM	46	PEAT -150mm SAND, silty with gravel -some peat -Rock blocks spt spoon -Periodic heavy grinding	2
	SPT	153	SM	28	-Light brown, compact, saturated, sub angular	3 4
	SPT	154	ML	18	Weathered Shale (tested as sandy silt) -Cohesion between flakes, grey texture, some oxidization	5
	SPT	155	ML	53	-Oxidization on layers of shale	6
					END of HOLE -Target depth reached	7 8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/11/2017 11:09:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5505**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6816664m E458405m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



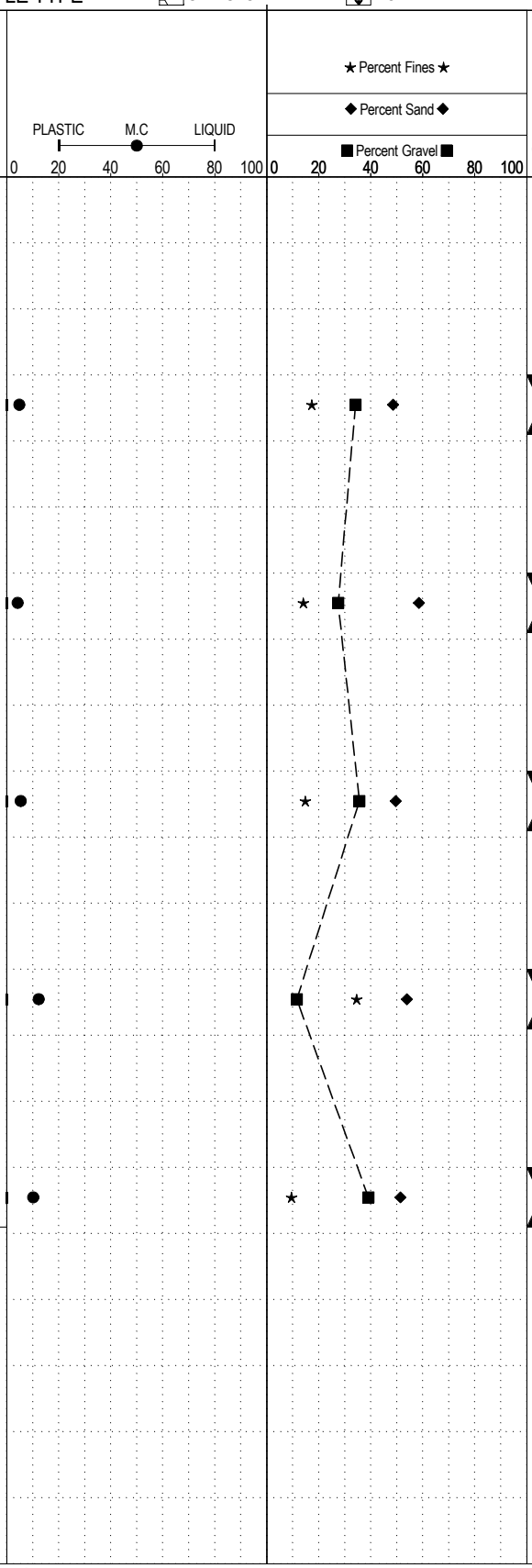
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill -Periodic heavy grinding for entire borehole	1
		156			-Refusal on SPT, 10 blows with no advancement	2
		157	SM	51	SILT, sandy -Brown, dry, dense, angular -Slight oxidization	3
		158	SM	59	SAND, silty with gravel -Brown, saturated, dense, angular -Some oxidization	4
					END of HOLE -Target depth reached	5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/11/2017 12:24:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5506**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6816559m E458569m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	159	SM	45	SAND, silty with gravel -Brown, damp, dense, angular	2
	SPT	160	SM	16	-Compact	3, 4
	SPT	161	SM	25	-Slight oxidization on coarse material	5
	SPT	162	SM	18	SILT, sandy -Matrix supported SAND, silty -Grey, saturated, compact, sub rounded	6, 7
	SPT	163	SP-SM	27	-Poorly graded, some gravel	
					END of HOLE -Target depth reached	8, 9, 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 7.95m
COMPILED BY: TAJ	Complete: 10/11/2017 1:25:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5507**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6816421m E458702m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

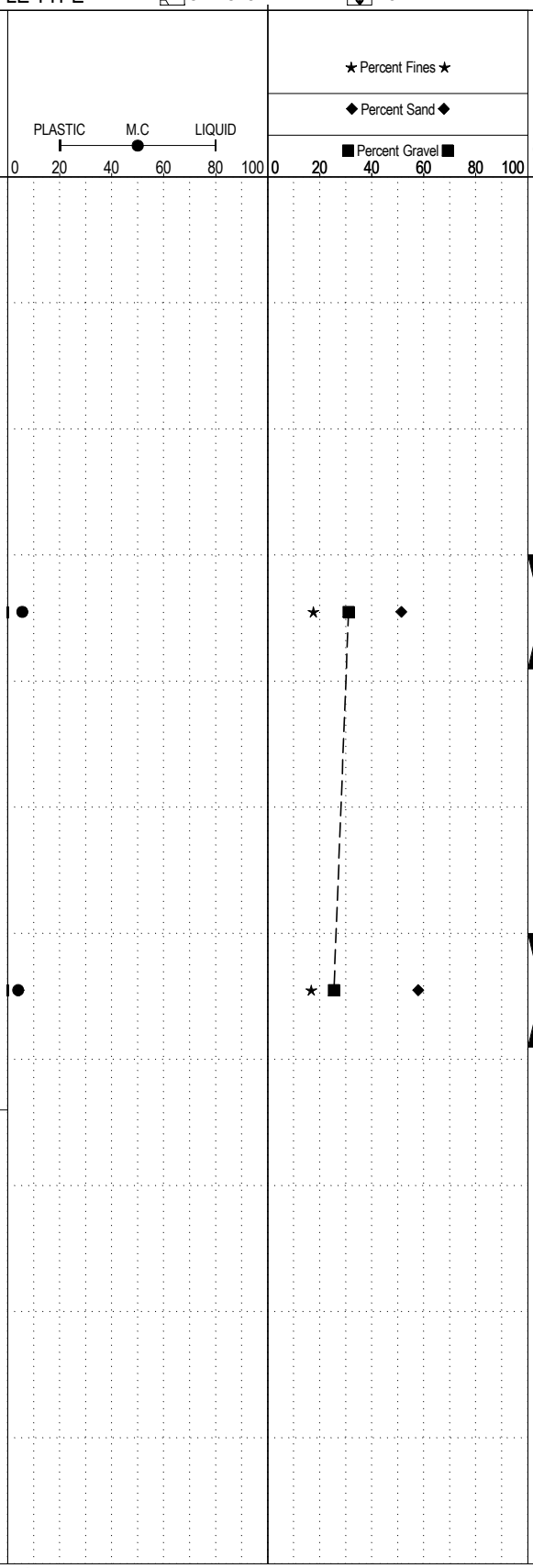
ELEV. (m)	PLASTIC / M.C / LIQUID (0 20 40 60 80 100)	★ Percent Fines ★ / ◆ Percent Sand ◆ / ■ Percent Gravel ■ (0 20 40 60 80 100)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
							Embankment fill	
							-Heavy grinding, possible cobble or boulder	1
	●	★ ◆ ■		164	GM	54	GRAVEL, silty with sand -Brown, moist, very dense, angular	
							-Very hard drilling	2
							END of HOLE -Refusal on hard ground -Moved ahead 4m to refusal at 1.8m	3
								4
								5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 2.35m
COMPILED BY: TAJ	Complete: 10/11/2017 2:15:00 AM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5508**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6816264m E458841m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill -Heavy grinding	1
					-Refusal at 1.5m on hollow stem, moved ahead 4m SAND, silty with gravel -Brown, Dense, moist, angular	
		165	SM	35	-Original ground -Damp	2
					-Sub rounded, very dense	3
		166	SM	55	Sand lense, 100mm	
					END of HOLE -Refusal on hard ground	4 5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.7m
COMPILED BY: TAJ	Complete: 10/11/2017 4:11:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5509**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6816191m E458909m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

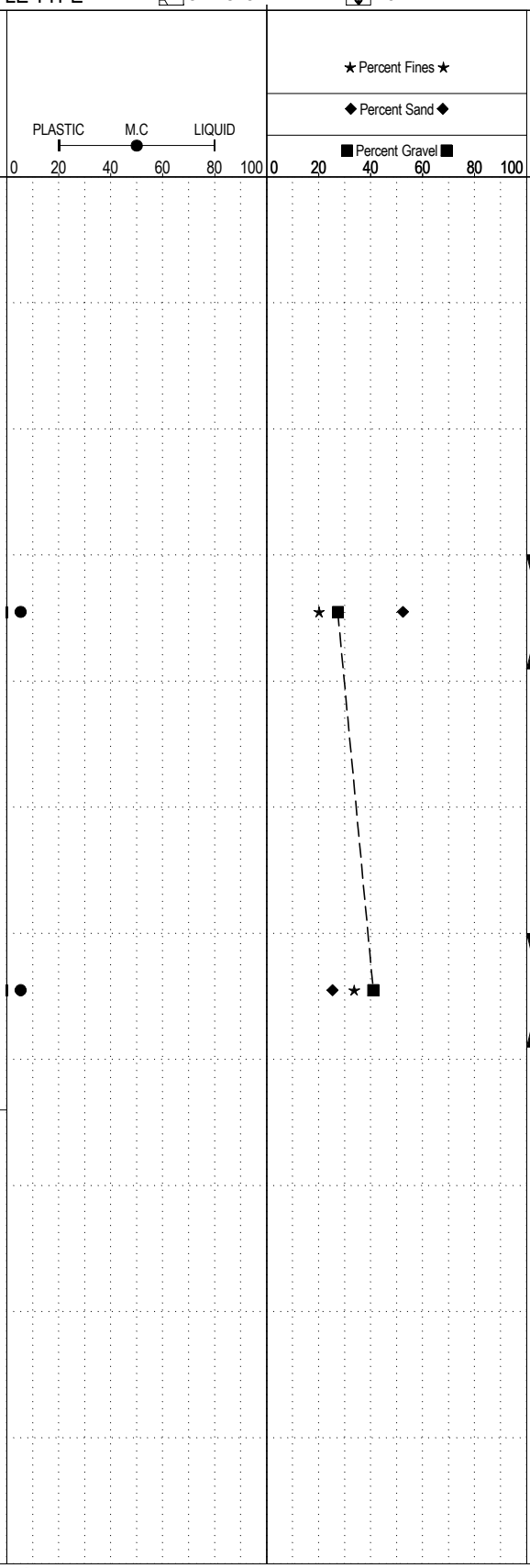
ELEV. (m)	PLASTIC / M.C / LIQUID (0 20 40 60 80 100)	★ Percent Fines ★ / ◆ Percent Sand ◆ / ■ Percent Gravel ■ (0 20 40 60 80 100)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
							Embankment fill	
							SAND, poorly graded with silt and gravel -Brown, damp, dense, angular	1
	●	★ ■ ◆		167	SP-SM	36		
							END of HOLE -Refusal at 1.8m	2
								3
								4
								5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 1.95m
COMPILED BY: TAJ	Complete: 10/11/2017 3:40:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5510**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6816119m E458979m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
					ORGANIC SOIL with gravel inclusions	
		168	SM	33	SAND, silty with gravel -Brown, damp, dense, angular -Grinding between 2 and 3m	2
		169	GM	45	GRAVEL, silty with sand -Matrix supported -Heavy grinding	3
					END of HOLE -Refusal on hard ground	4 5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.7m
COMPILED BY: TAJ	Complete: 10/11/2017 4:14:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5511**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6816043m E459048m	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 ■ (0 20 40 60 80 100)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
							Embankmen fill	1
	●	★ ■ ◆		170	SM	24	SAND, silty with gravel -Brown, compact, damp PEAT and wood fibres, 100mm Grey, compact, dry, angular	2
				171			END of HOLE -Refusal on tight ground	3 4 5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3m
COMPILED BY: TAJ	Complete: 10/11/2017 4:47:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5512**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815963m E459119m	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 ■ (0 20 40 60 80 100)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
							Embankment fill	
							SAND, silty with gravel -Brown, dense, moist, sub angular -Organic soil lense, 50mm	
	●	★ ■◆		172	SM	48	GRAVEL, some sand -Grey, dry, dense, angular	
							END of HOLE -refusal on hard ground	

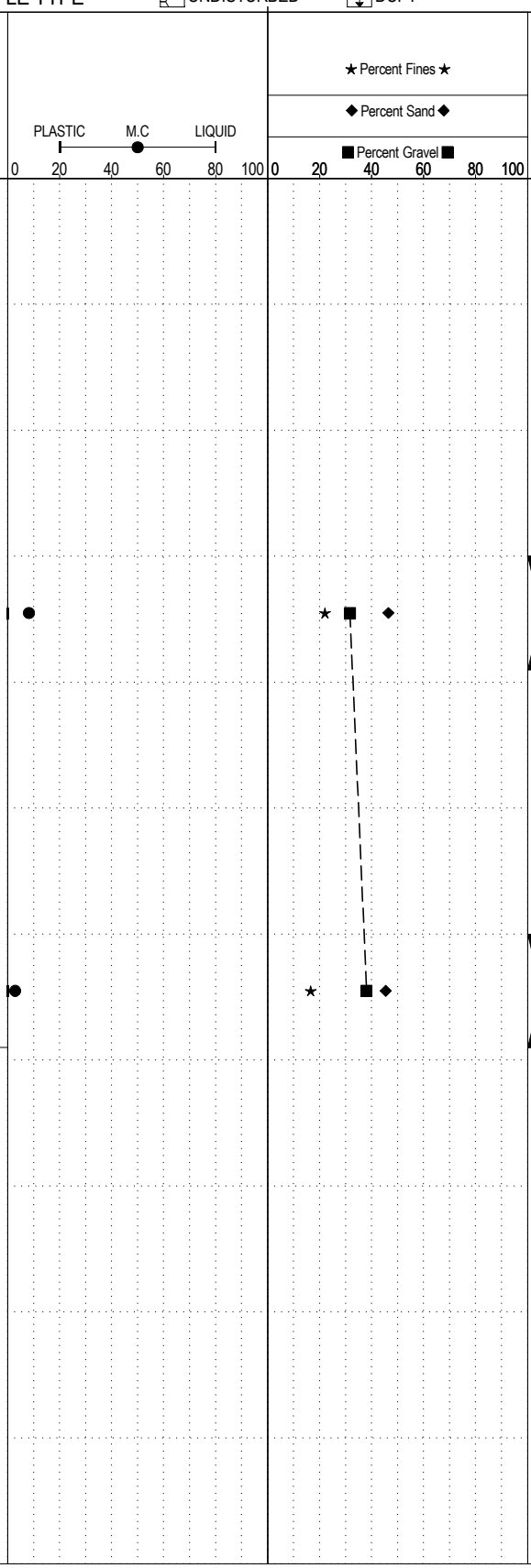
Depth (m): 1, 2, 3, 4, 5

Yukon — Highways and Public Works, Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 1.95m
COMPILED BY: TAJ	Complete: 10/11/2017 5:10:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5513**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815867m E459220m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



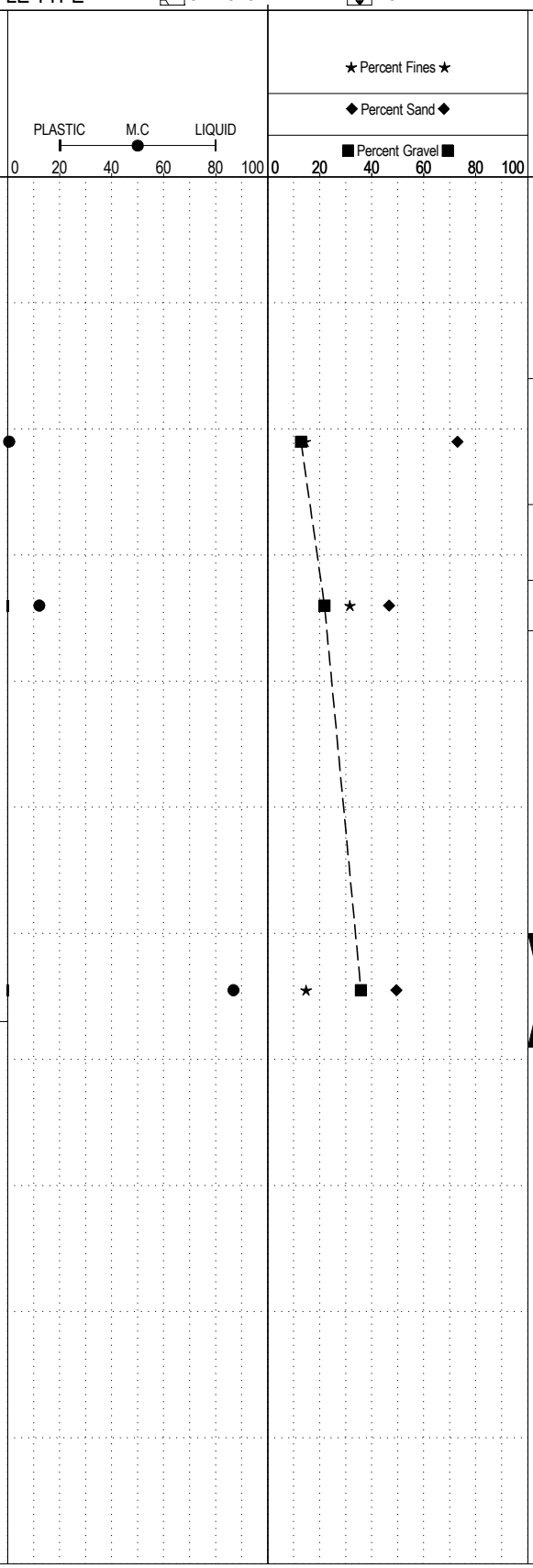
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty with gravel -Rusty brown, moist, dense, sub angular	1
		173	SM	36		
						2
					-Grinding	
					-Refusal on SPT, 10 blows with no advancement at 5cm of second flight	3
		174	SM	30		
					END of HOLE -Refusal on hard ground	
						4
						5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.45m
COMPILED BY: TAJ	Complete: 10/11/2017 5:36:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5514**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815918m E459163m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

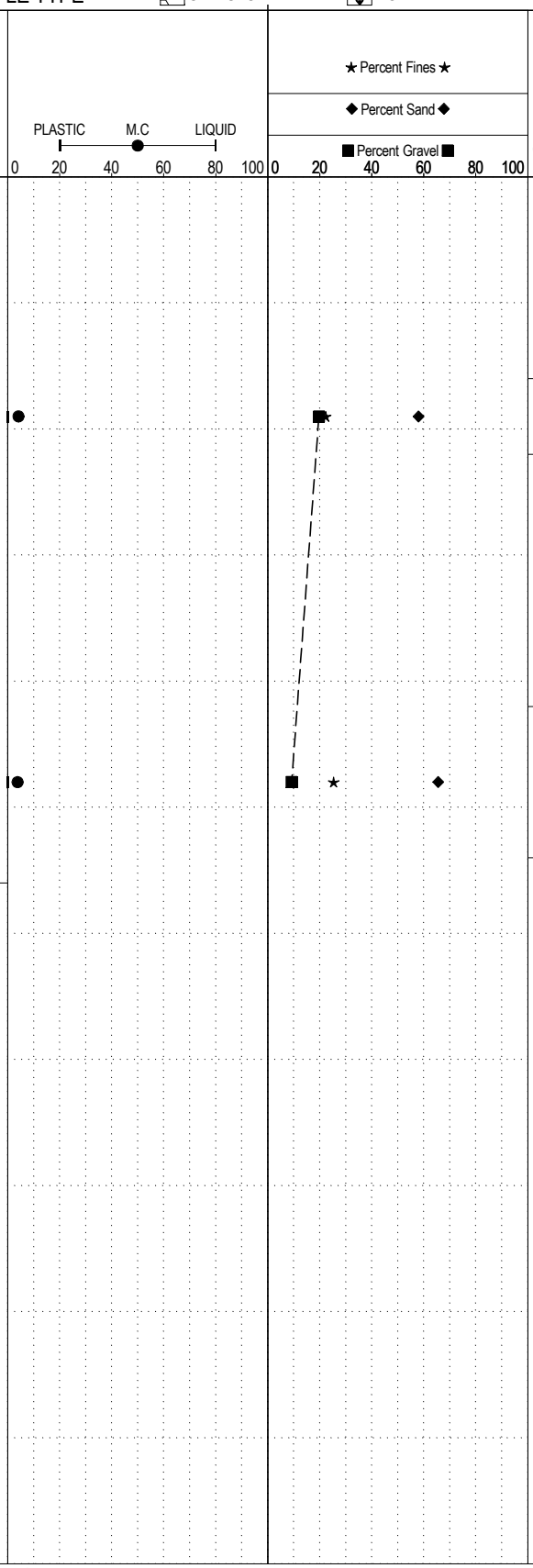


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, silty -Brown, damp, sub angular, compact	
		175	SM			1
		176	SM		-Some gravel -Very dense, sub rounded	2
		177	SM		-Refusal on SPT, 12.5cm in first flight, no movement in 20 blows -Pulverized rock blocking end of SPT	3
					END of HOLE -Refusal on hard ground	4
						5

Yukon **Highways and Public Works Transportation Engineering Branch**	LOGGED BY: KAE/RWS	Termination Depth: 3.35m
	COMPILED BY: TAJ	Complete: 8/12/2017 9:21:00 AM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5515**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815768m E459330m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



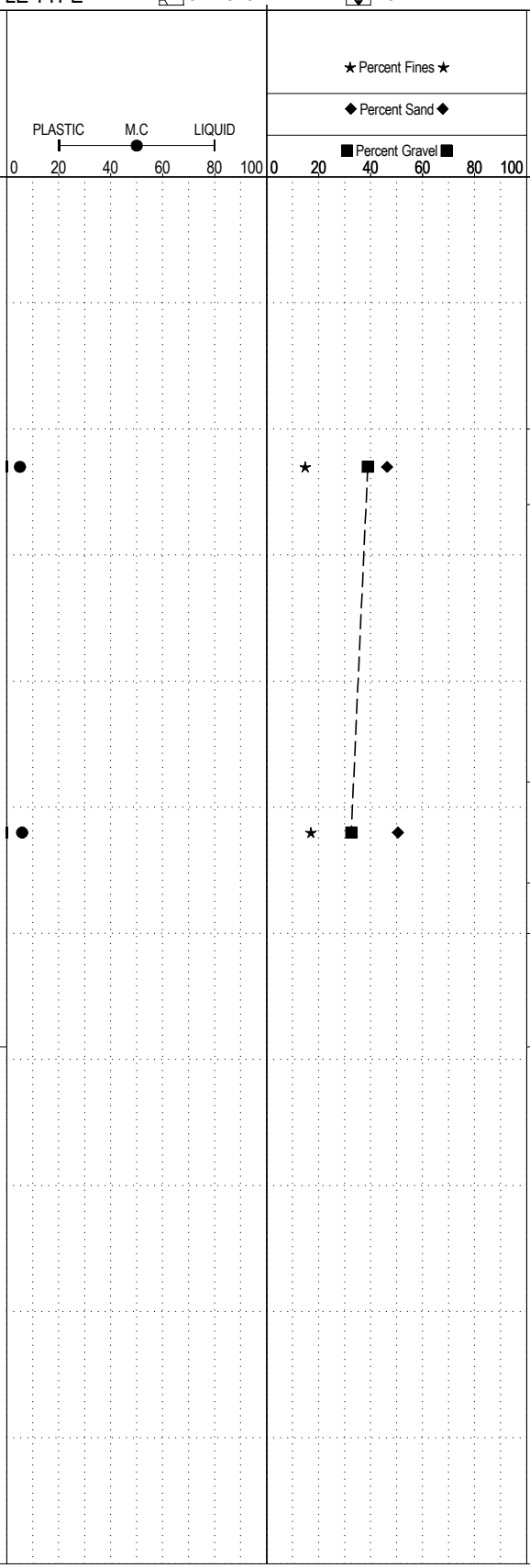
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, silty with gravel -Light brown, dry, sub angular -Some flat and elongated gravel	
		178	SM			1
					-Heavy grinding	2
		179	SM		-Trace gravel	
					END of HOLE -Refusal on hard ground	3
						4
						5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 2.8m
COMPILED BY: TAJ	Complete: 10/12/2017 9:35:00 AM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5516**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815727m E459392m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, silty with gravel -Brown, damp, rounded to sub angular	
		180	SM			1
						2
		181	SM			
		182				3
					END of HOLE -Refusal on hard ground	4
						5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.45m
COMPILED BY: TAJ	Complete: 10/12/2017 10:15:00 AM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5517**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815809m E459284m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

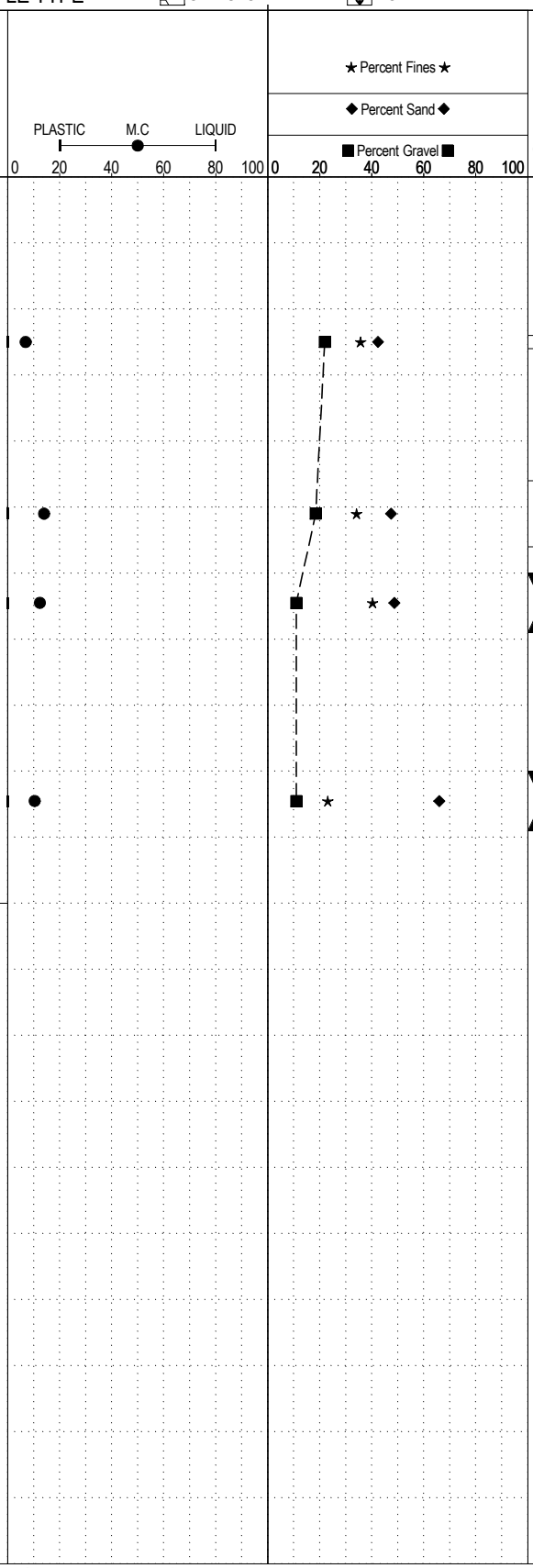
ELEV. (m)	PLASTIC / M.C / LIQUID (0 20 40 60 80 100)	★ Percent Fines ★ / ◆ Percent Sand ◆ / ■ Percent Gravel ■ (0 20 40 60 80 100)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
							SAND, silty with gravel -Embankment fill	1
	●	★■ ◆		182	SM			
							END of HOLE -Refusal on rock	2
								3
								4
								5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 1.3m
COMPILED BY: TAJ	Complete: 10/12/2017 10:30:00 AM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5518**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815667m E459457m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



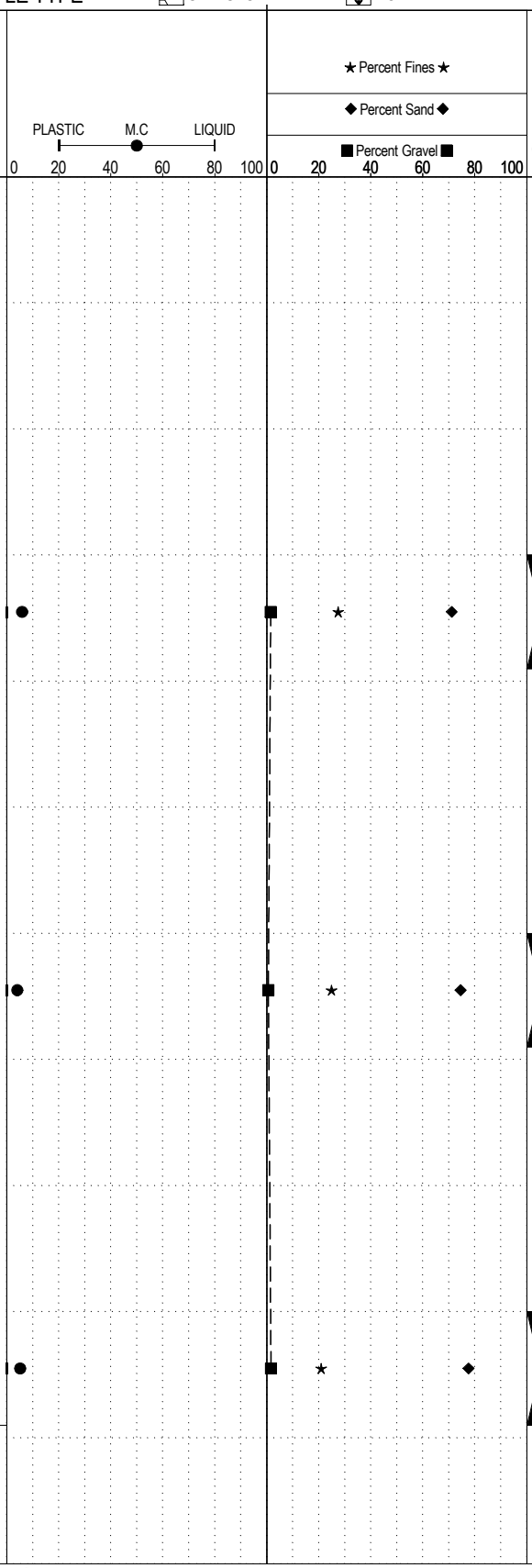
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					SAND, silty with gravel -Brown, damp, compact, sub rounded	1
		183	SM			2
		184	SM		-Dark greyish brown -Moisture increases gradually from 2.2 to 2.8m	
		185	SM	16	Weathered Shale (Tested as silty sand) -Some oxidization -Slow drilling	3 4
		186	SM	15	-Moist, some sections with greasy texture -Black	5
					END of HOLE -Refusal on hard ground	6 7 8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 5.5m
COMPILED BY: TAJ	Complete: 10/12/2017 11:27:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5519**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815598m E459524m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

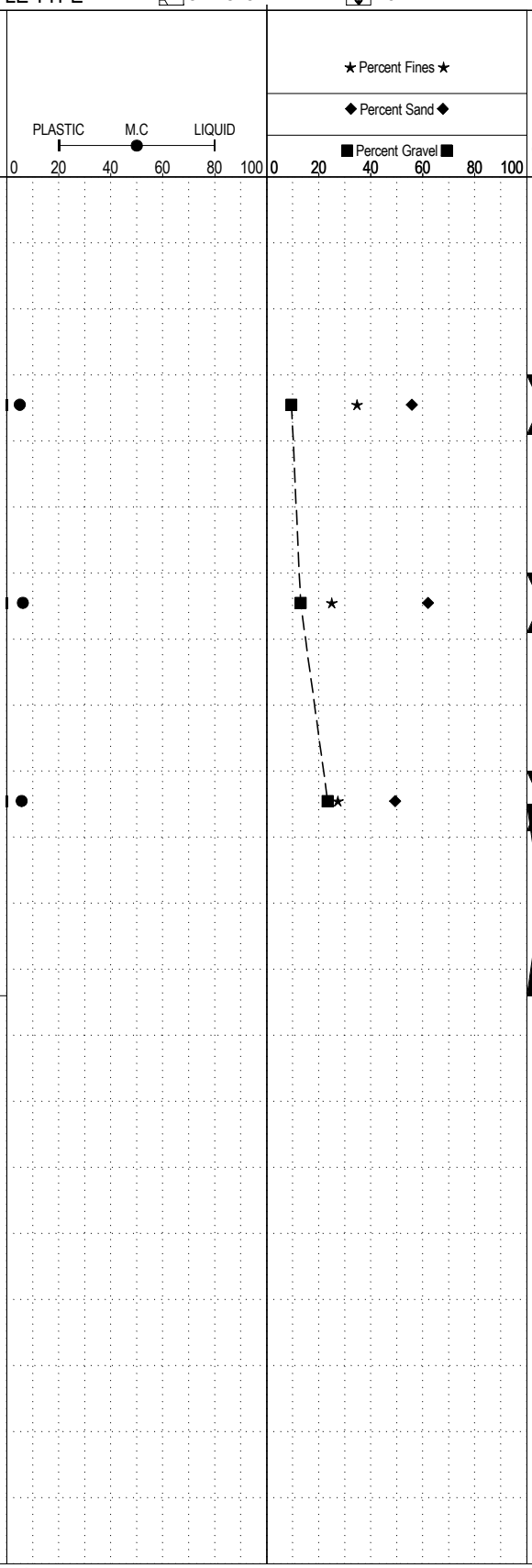


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					GRAVEL Fill	
					-Pulverized shale	
						1
		187	SM	70	Weathered Shale (tested as silty sand) -Flaking in needle like structure, friable, dry -Breaking down into fine powder	
						2
					-Slow drilling	
						3
		188	SM	85		
						4
					-Oxidization	
		189	SM			
					END of HOLE -Slow/hard drilling	5

Yukon **Highways and Public Works Transportation Engineering Branch**	LOGGED BY: KAE/RWS	Termination Depth: 4.95m
	COMPILED BY: TAJ	Complete: 10/12/2017 12:14:00 PM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5520**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815530m E459599m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



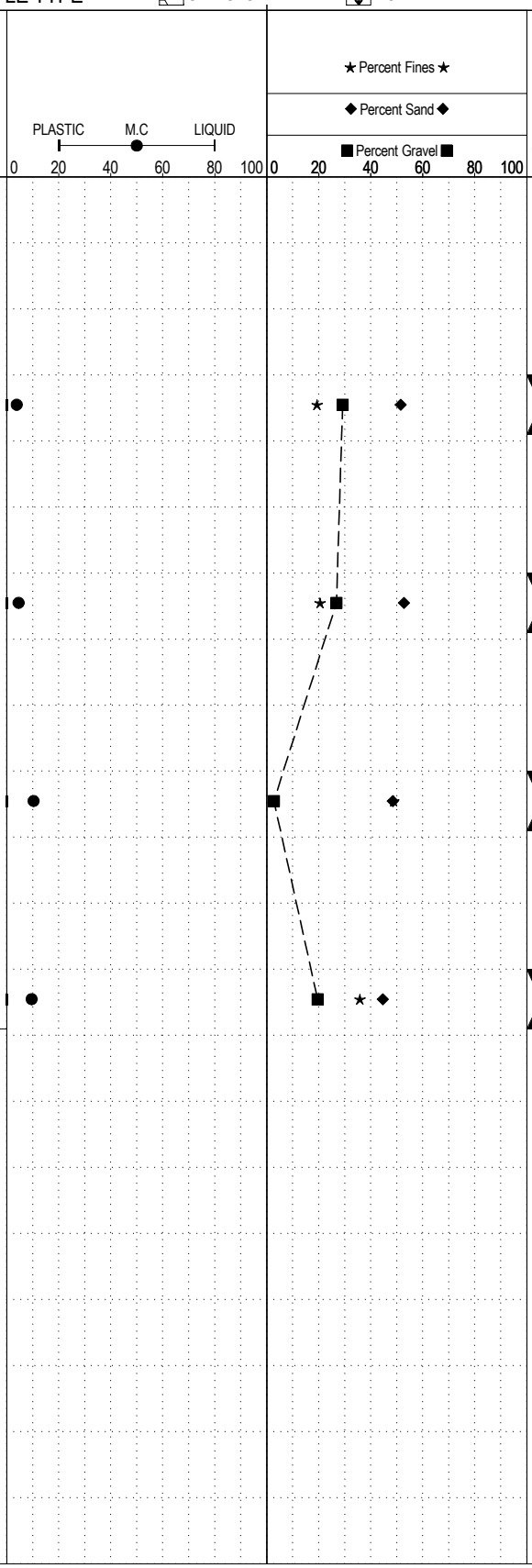
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					-Grinding	1
	SPT	190	SM	23	SAND, Silty -Light brown, compact	
					-Slow drilling, periodic grinding	2
	SPT	191	SM	41	-Brown, moist, sub rounded to angular particles	3
					-Sand lense	4
	SPT	192	SM	52	-Some gravel -Silt pockets -Some weathering	5
	SPT	193			-Refusal on SPT after 2.5cm of flight 1 with no advance after 10 blows	6
					END of HOLE -Refusal on hard ground	7
						8
						9
						10

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.2m
COMPILED BY: TAJ	Complete: 10/20/2017 1:19:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5521**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815463m E459667m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



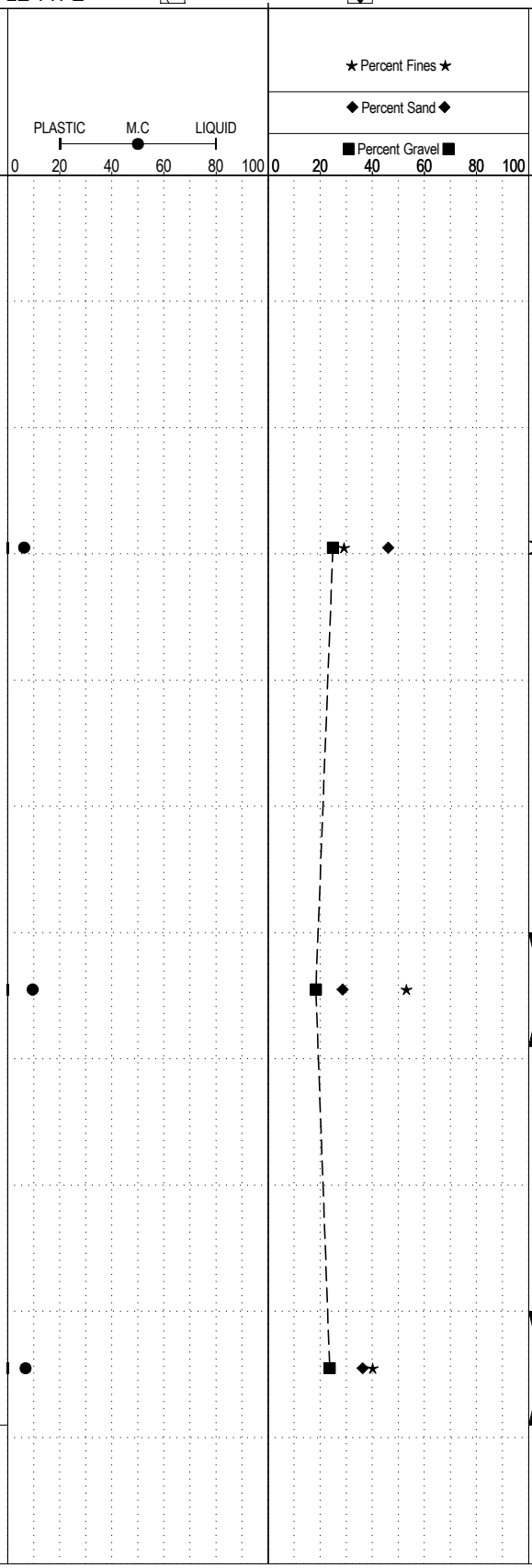
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					-Grinding	
					-No grinding	1
	SPT	194	SM	14	SAND, silty with gravel -Brown, damp, compact, sub angular	2
	SPT	195	SM	24	-Coarse, angular	3
						4
	SPT	196	SM	31	-Interbedded silt and shale, 100mm thick layers	
					Weathered Shale -Friable, some cohesion, some oxidization -Very slow drilling	5
	SPT	197	SM	82		6
					END of HOLE -Target depth reached	7
						8
						9
						10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/12/2017 2:30:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5522**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815400m E459728m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



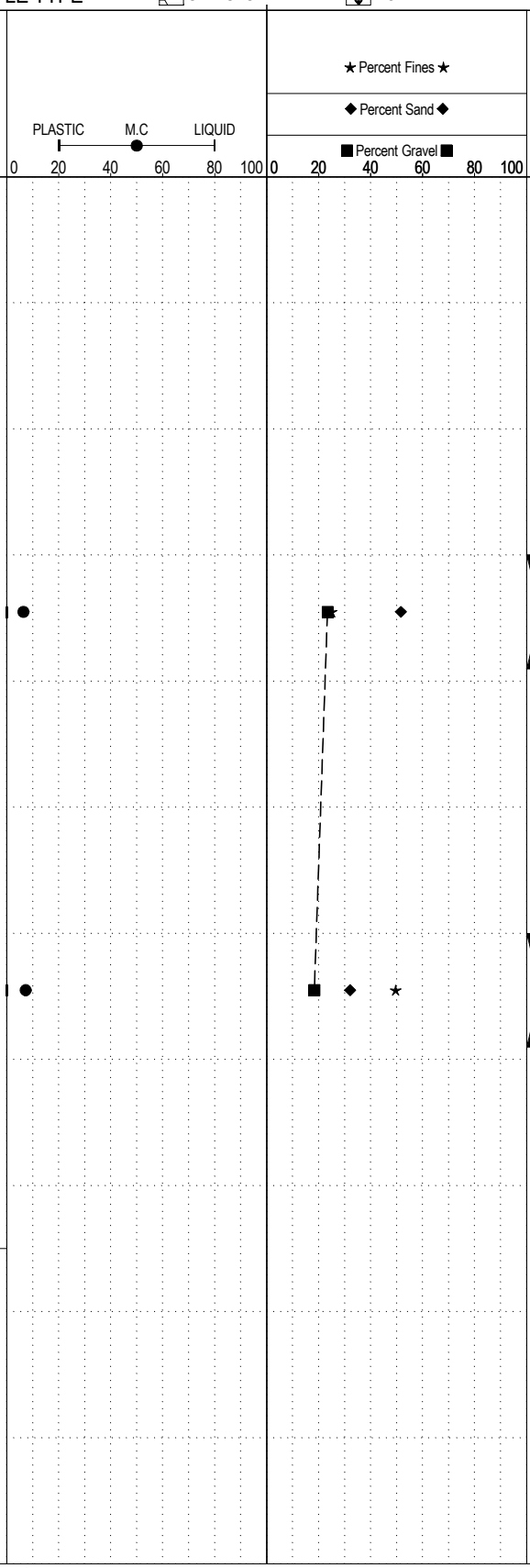
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	198	SM		SAND, silty with gravel -Brown, damp, dense, angular -Refusal on SPT in second flight - no advancement after 15 blows -Grinding	2
					-No grinding	3
	SPT	199	ML	20	SILT, sandy with gravel -Greyish brown, damp, very stiff, rounded -Slow drilling	4
	SPT	200	SM	34	SAND, silty with gravel	
					END of HOLE -Refusal on hard ground	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/12/2017 3:18:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5523**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815256m E459877m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



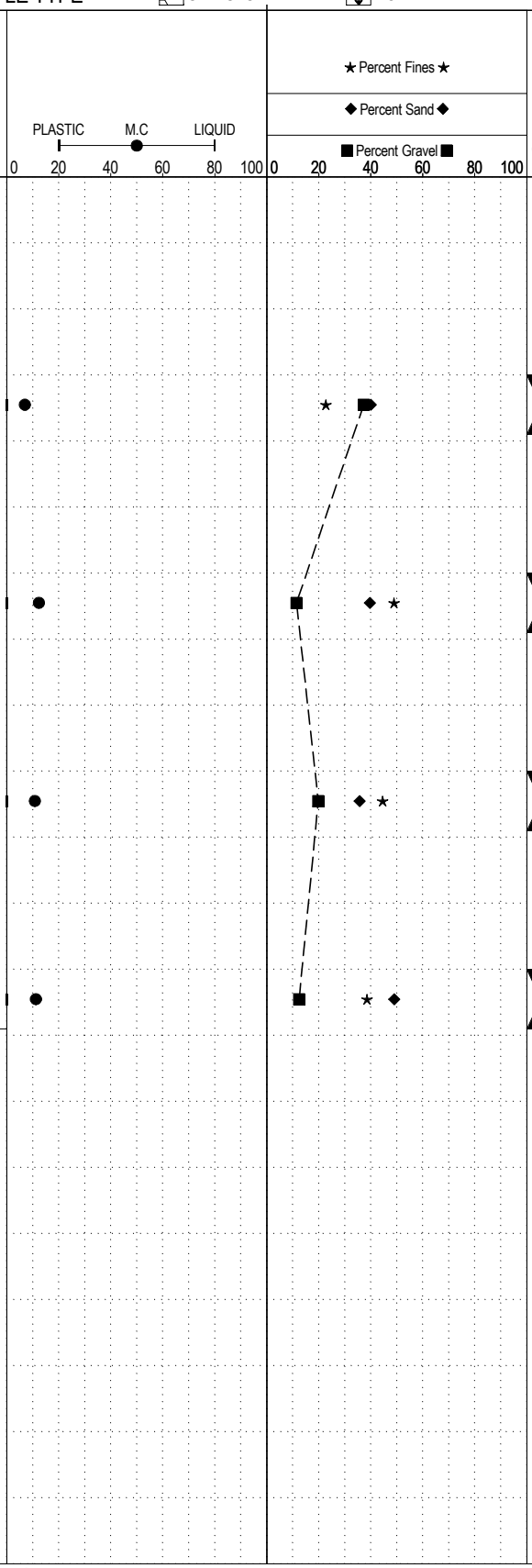
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		201	SM	18	-Seasonal depositions varying from silt, fine sand, medium sand with gravel Weathered Shale	2
		202	SM	70	SAND (till), silty with gravel -Hard, damp, brown -Very slow drilling	3 4
					END of HOLE -Refusal on hard ground	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.25m
COMPILED BY: TAJ	Complete: 10/12/2017 3:50:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5524**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6815110m E460013m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



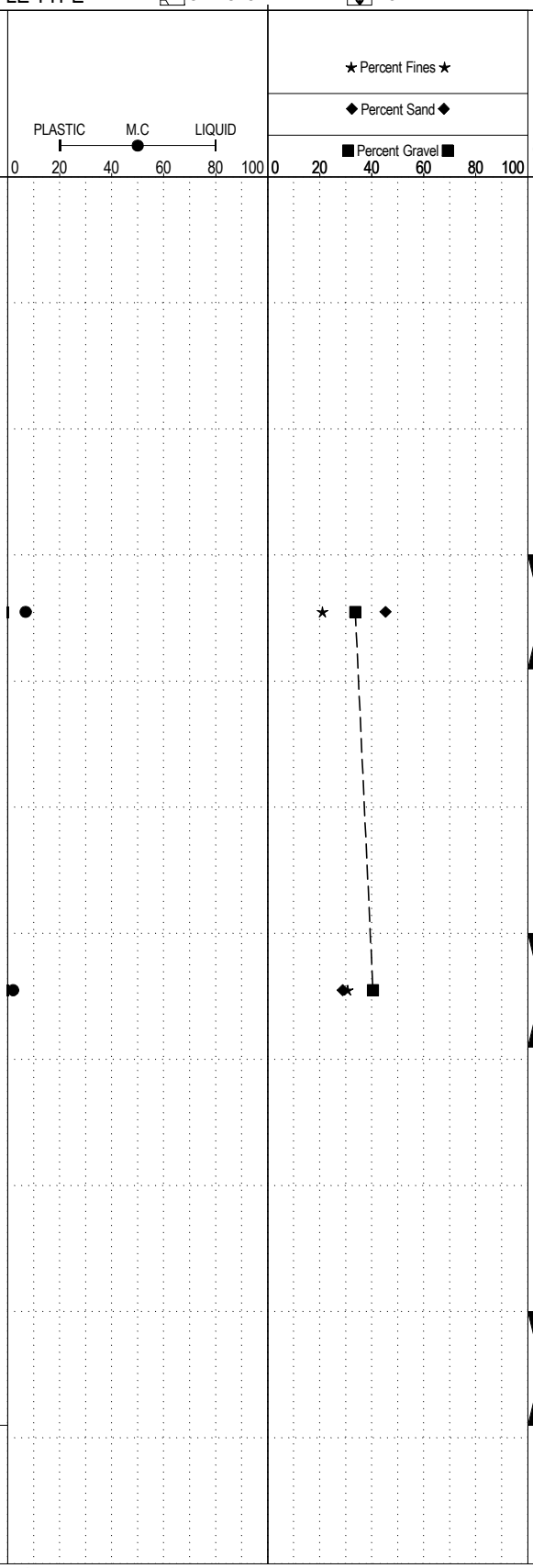
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	203	SM	26	Organic Soil GRAVEL and SAND -Silty, light brown -Dark brown SILT (Till), some sand, trace gravel, trace clay	2
	SPT	204	SM	17	SAND, Silty -Damp	3 4
	SPT	205	SM	54	-Some gravel -Brown, damp, very dense, angular	5
	SPT	206	SM		-Trace gravel -Refusal on SPT in first flight, 20 blows with no advancement	6
					END of HOLE Target depth reached	7 8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/12/2017 4:45:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5525**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6814923m E460035m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



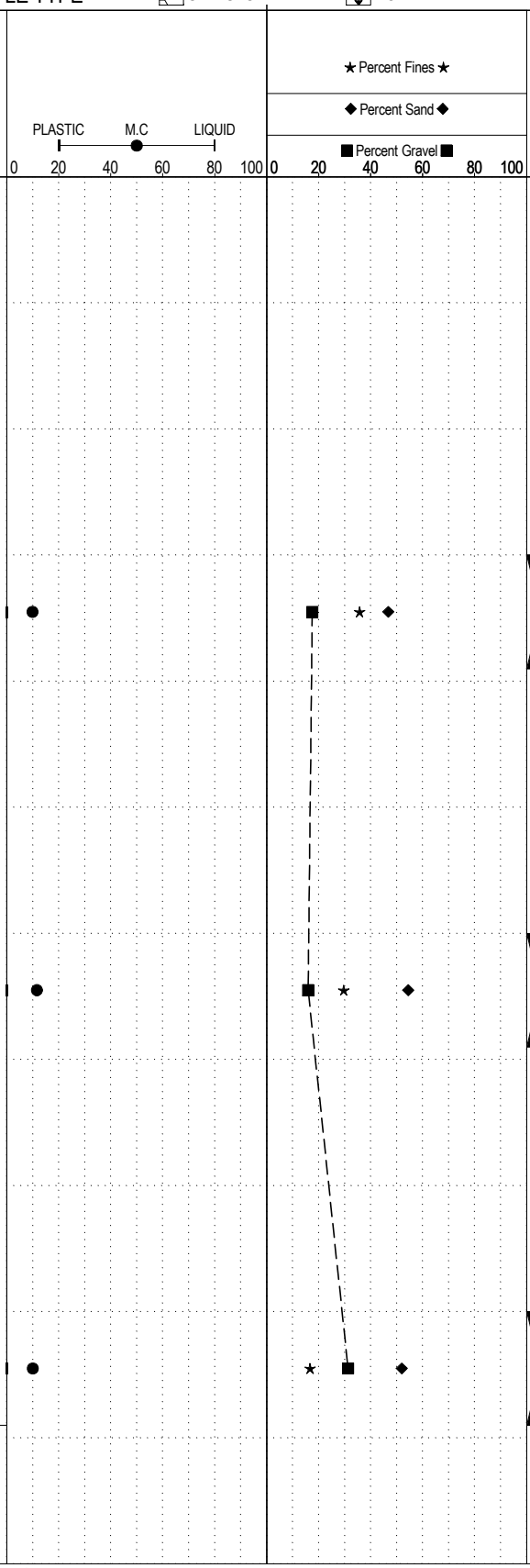
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		207	SM	23	-Seasonal depositions of sand. Fine sand to medium with gravel, 50mm thick layers SAND, silty with gravel	2
		208	GM	32	GRAVEL, silty with sand -Brown, wet, sub rounded	3 4
		209		23	SAND, silty -Dark grey, saturated	
					END of HOLE -Target depth reached	5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/12/2017 5:25:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5526**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6814691m E460001m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



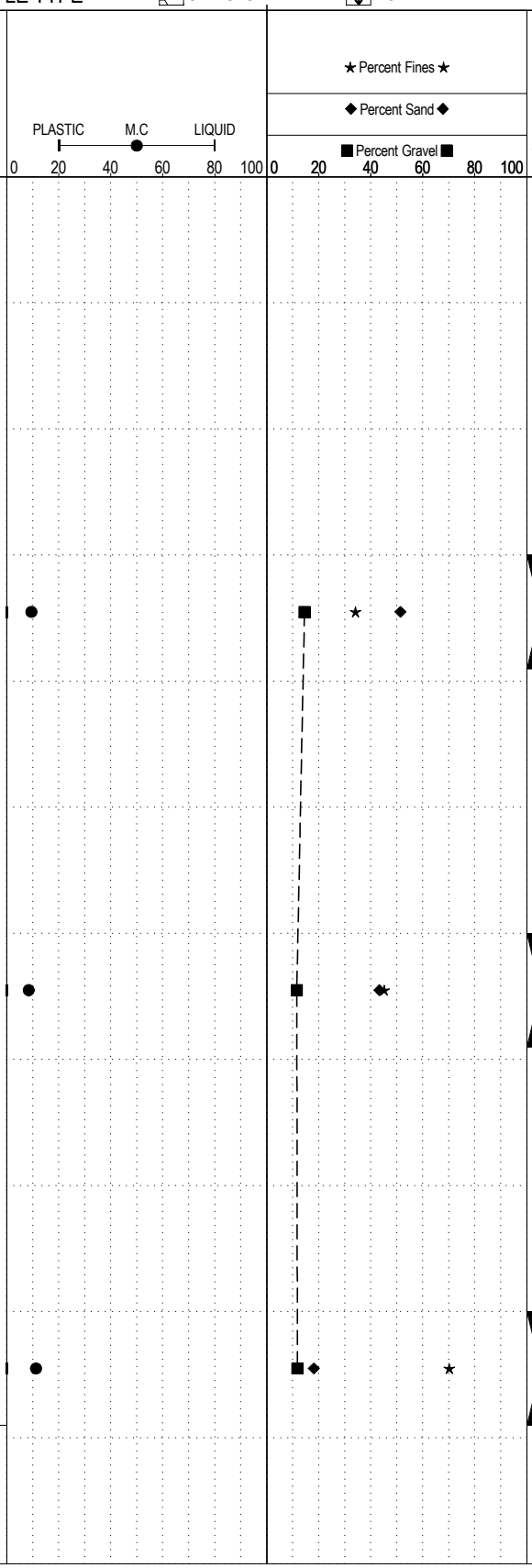
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty with gravel -Brown, compact, damp, sub angular	1
		210	SM	13		2
					-Wet, angular	3
		211	SM	18		
					-Periodic light grinding	4
					-Saturated	
		212	SM			
					END of HOLE -Target depth reached	5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/13/2017 9:55:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5527**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6814483m E459976m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



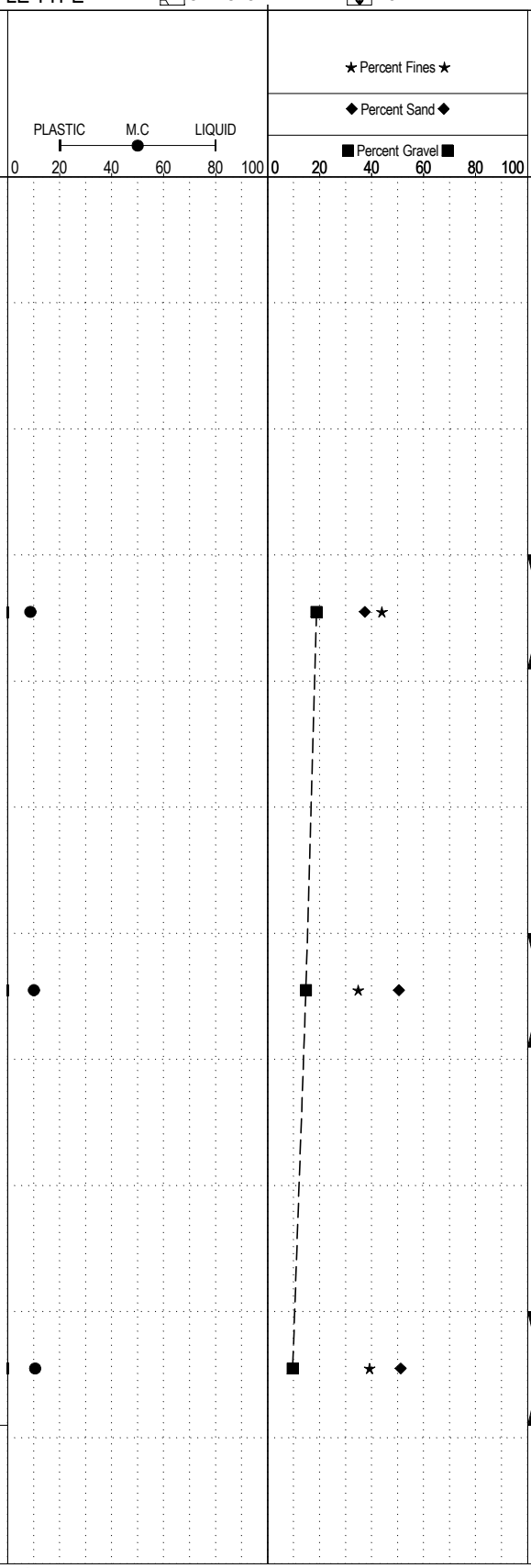
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		213	SM	17	-Clay lense, 70mm Sand lense (med), 50mm SAND, silty -Dark brown, moist, compact, sub rounded	2
		214	SM	36	-Dense, damp, ranges in angularity -Matrix supported -Periodic light grinding -Slow drilling	3 4
		215	ML	62	SILT with sand -Brown -Interbedded with clay at 50mm intervals	
					END of HOLE -Refusal on tight formation	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/12/2017 10:26:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5528**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6814297m E459991m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



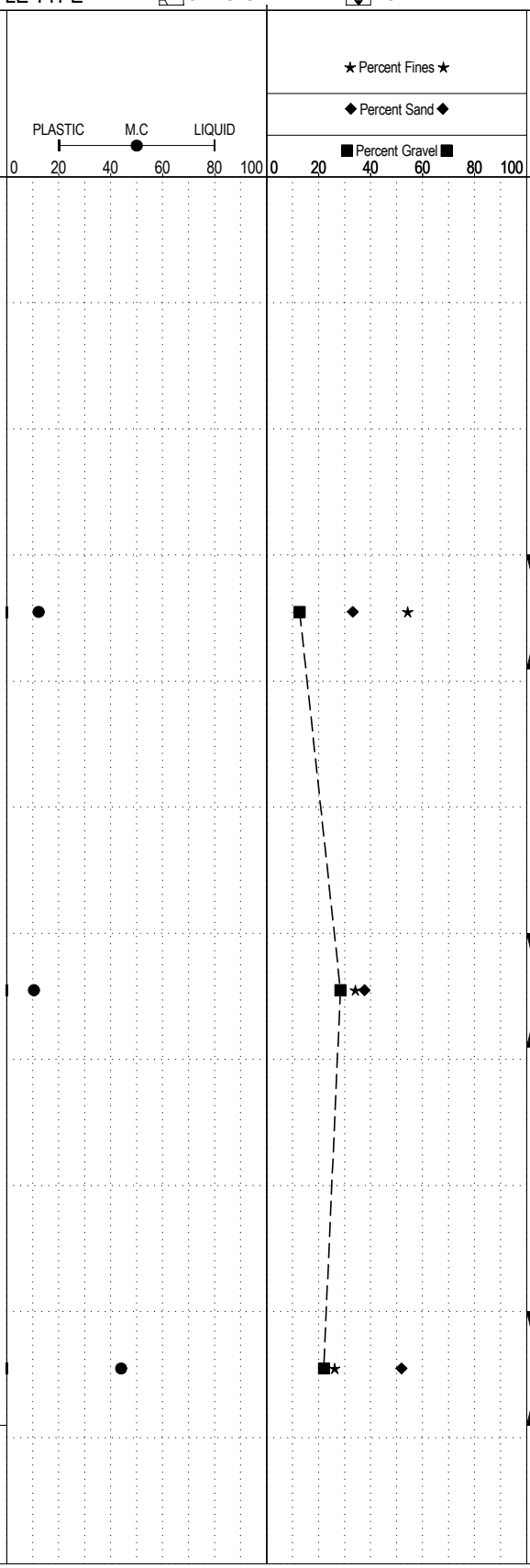
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	216	SM	18	SAND, silty with gravel -Brown, damp, dense, varied angularity	2
					-Slow drilling	
	SPT	217	SM	31	-Trace gravel -Brown, moist, dense, sub rounded	3
					-Slow drilling	
					-Dark grey cuttings	4
	SPT	218	SM	26	-Greyish brown	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/13/2017 11:14:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5529**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6814098m E460020m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



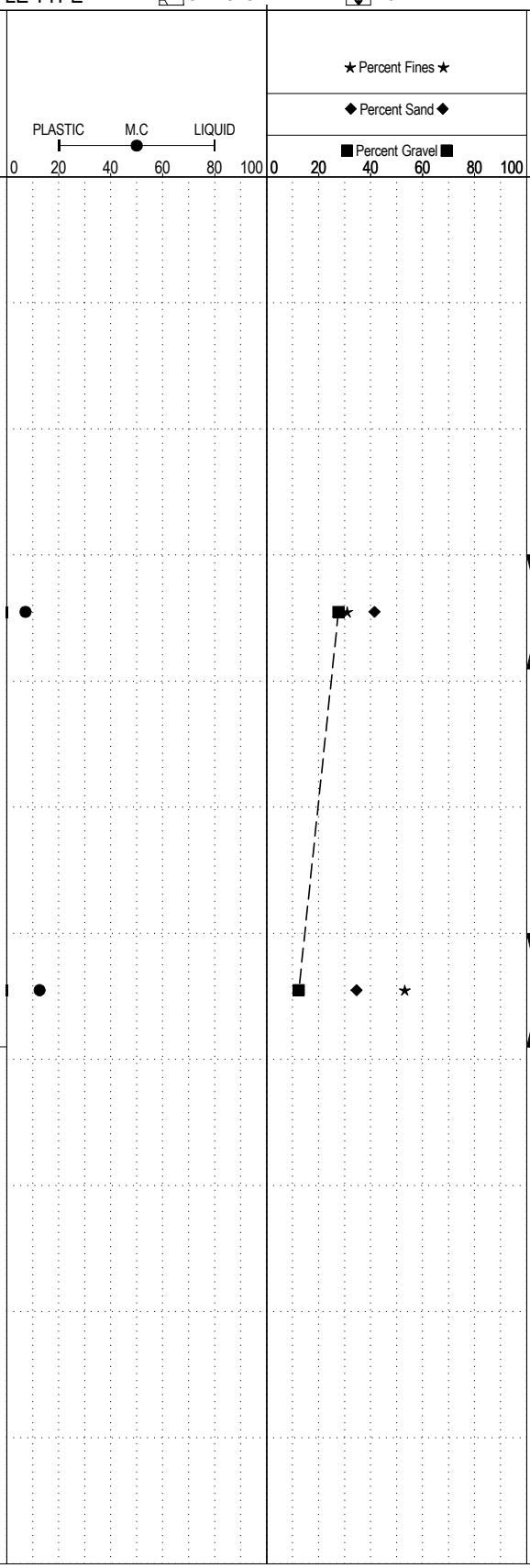
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		219	ML	13	SILT (Till), sandy -Brown, moist, stiff, sub rounded	2
					-Light grinding	3
		220	SM	13	SAND, silty with gravel -Dark grey, wet -Oxidization on coarse material	4
		221	SM	8	Highly Weathered Shale -Oxidization, greasy texutre, visable sheen	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/13/2017 11:55:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5530**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6813900m E460042m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



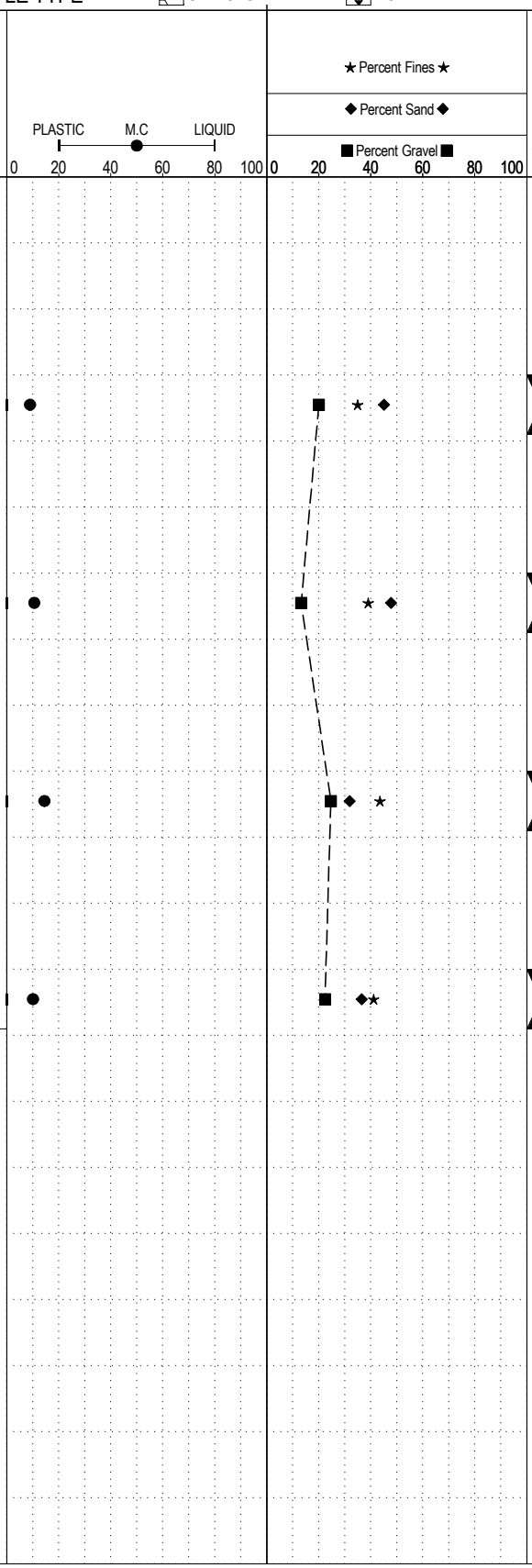
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		222	SM	15	SAND, silty with gravel -Dark grey, damp, compact, angular -Slow drilling -Very slow drilling	2
		223	ML	34	SILT, sandy	3
					END of HOLE -Refusal in tight ground	4 5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.45m
COMPILED BY: TAJ	Complete: 10/13/2017 12:58:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5531**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6813716m E460153m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



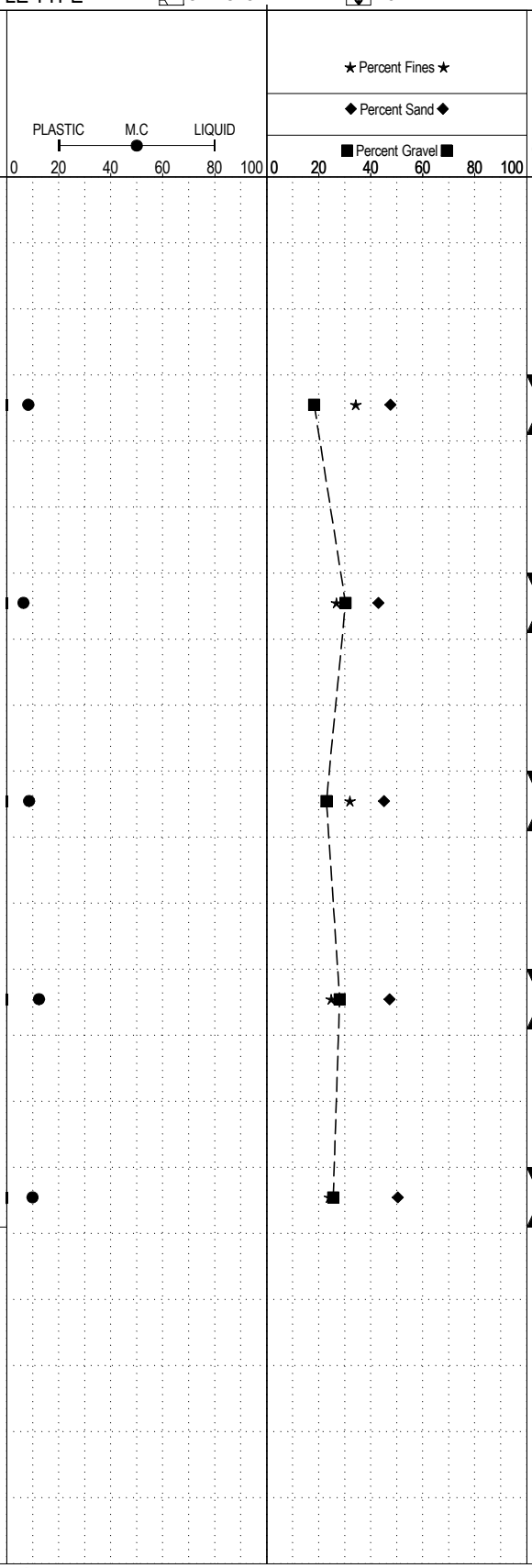
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	224	SM	11	SAND, silty with gravel -Brown, moist, compact, sub angular	2
					-Slow drilling	
	SPT	225	SM	14	-Trace gravel	3
						4
	SPT	226	SM	11	-Some gravel -Wet -Fine sand lense, 50mm	5
	SPT	227	SM	12	-Dark grey	6
					-Clay lense END of HOLE -Target depth reached	7
						8
						9
						10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/13/2017 1:39:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5532**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6813585m E460283m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



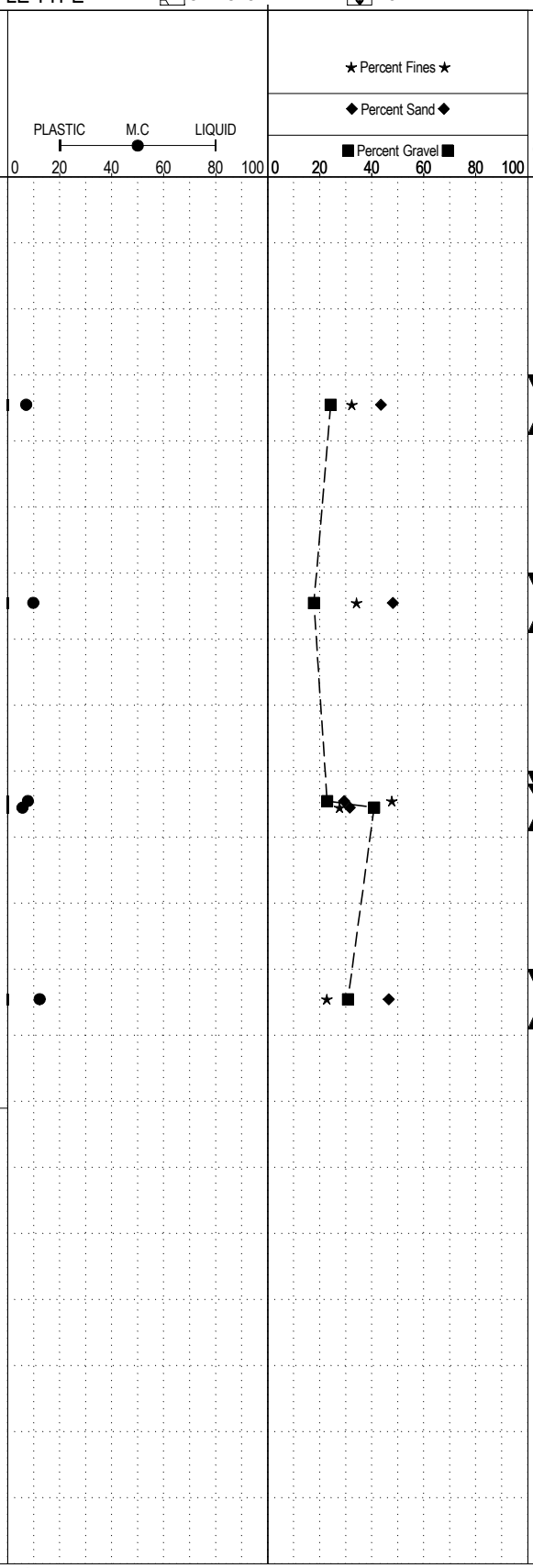
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	228	SM	6	SAND, silty with gravel -Brown, moist, loose, sub angular	2
					-Slow drilling	3
	SPT	229	SM	14	-Brown, damp, matrix supported	4
	SPT	230	SM	16	-Grey to brown -Wet	5
	SPT	231	SM	10	-Grey, loose, angular and sub angular	6
						7
	SPT	232	SM	15	-Dark grey, compact	8
					END of HOLE -Target depth reached	9
						10

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 7.95m
COMPILED BY: TAJ	Complete: 10/13/2017 2:35:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5533**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6813646m E460206m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



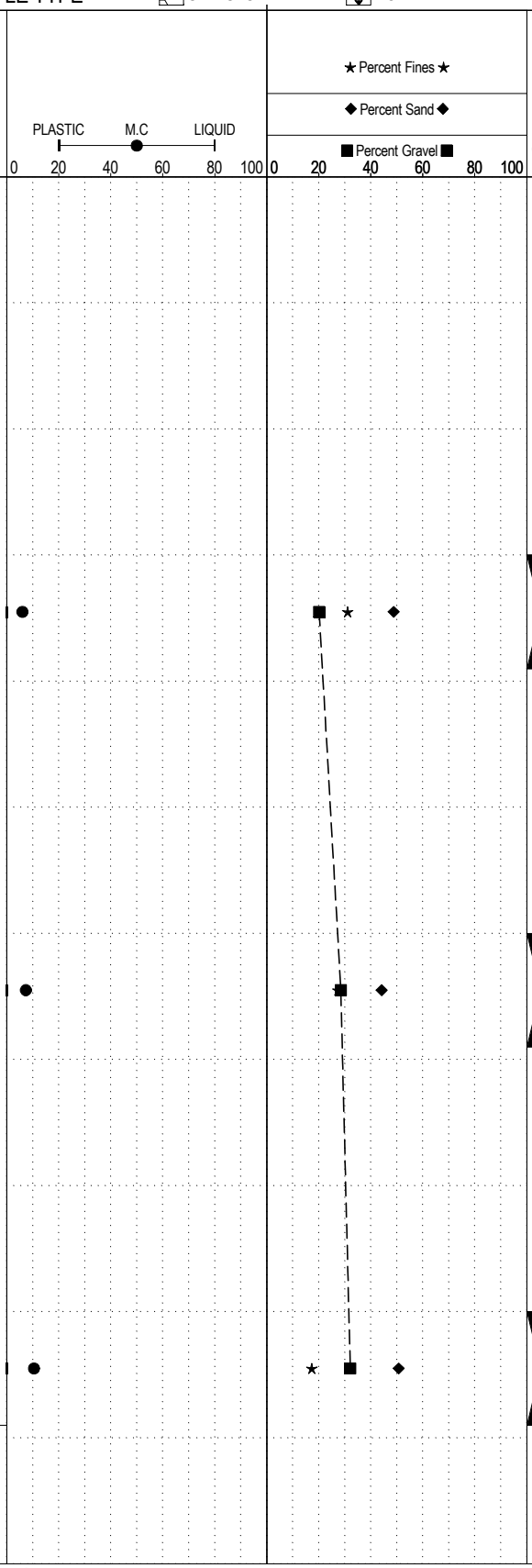
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	233	SM	19	SAND, silty with gravel -Brown, moist	2
	SPT	234	SM	10	-Grey Peat, strong odour, very fibrous, brown, 50mm ORGANIC SOIL, peaty, black	3 4
	SPT	235 235A	SM GM	23	GRAVEL, sitly with sand -Poor recovery	5
	SPT	236	SM	9	Weathered Shale (tested as silty sand with gravel) -Saturated -Slow drilling	6 7
					END of HOLE -Hard ground, dificult drilling	8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 7.05m
COMPILED BY: TAJ	Complete: 10/13/2017 3:40:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5534**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6813420m E460415m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



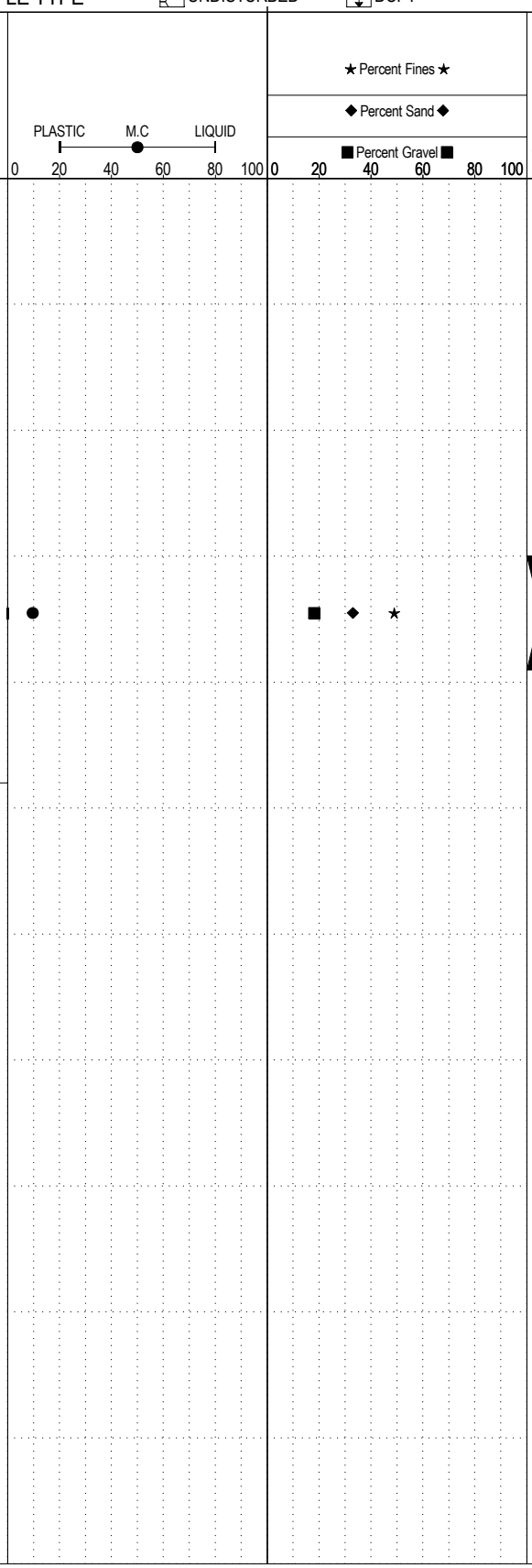
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		237	SM	5	SAND, silty with gravel -Grey, moist PEAT - Fiberous, brown, 50mm ORGANIC Soil	2
		238	SM	16	SAND, silty with gravel -Brown, moist, sub angular -Some oxidization SHALE or SILTSTONE	3 4
		239	SM	20	SHALE interbedded with CLAY (Tested as silty sand with gravel)	
					END of HOLE -Target depth reached	5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/13/2017 4:27:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5535**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6813256m E460517m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

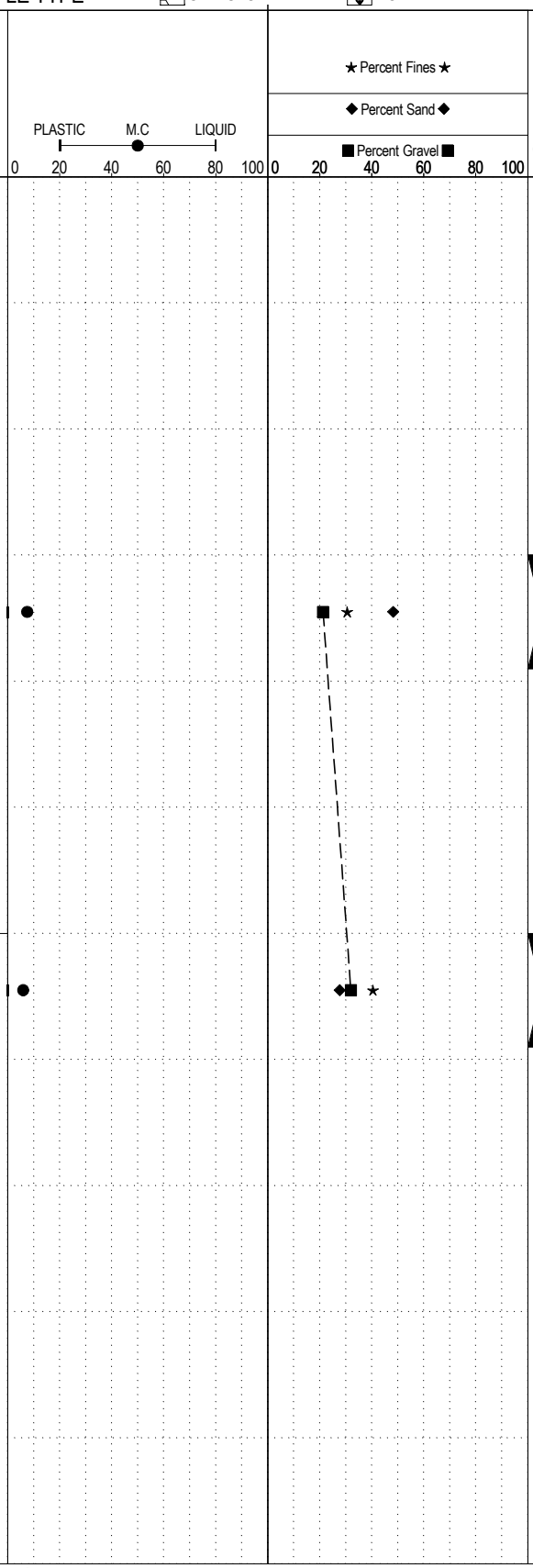


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill -Slow, hard drilling	1
		240	SM	14	SAND, silty with gravel -Brown, damp, ranging fom angular to sub angular	2
					END of HOLE -Hard to drill	3 4 5

Yukon Highways and Public Works Transportation Engineering Branch	LOGGED BY: KAE/RWS	Termination Depth: 2.4m
	COMPILED BY: TAJ	Complete: 10/13/2017 4:55:00 PM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5536**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6813079m E460604m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



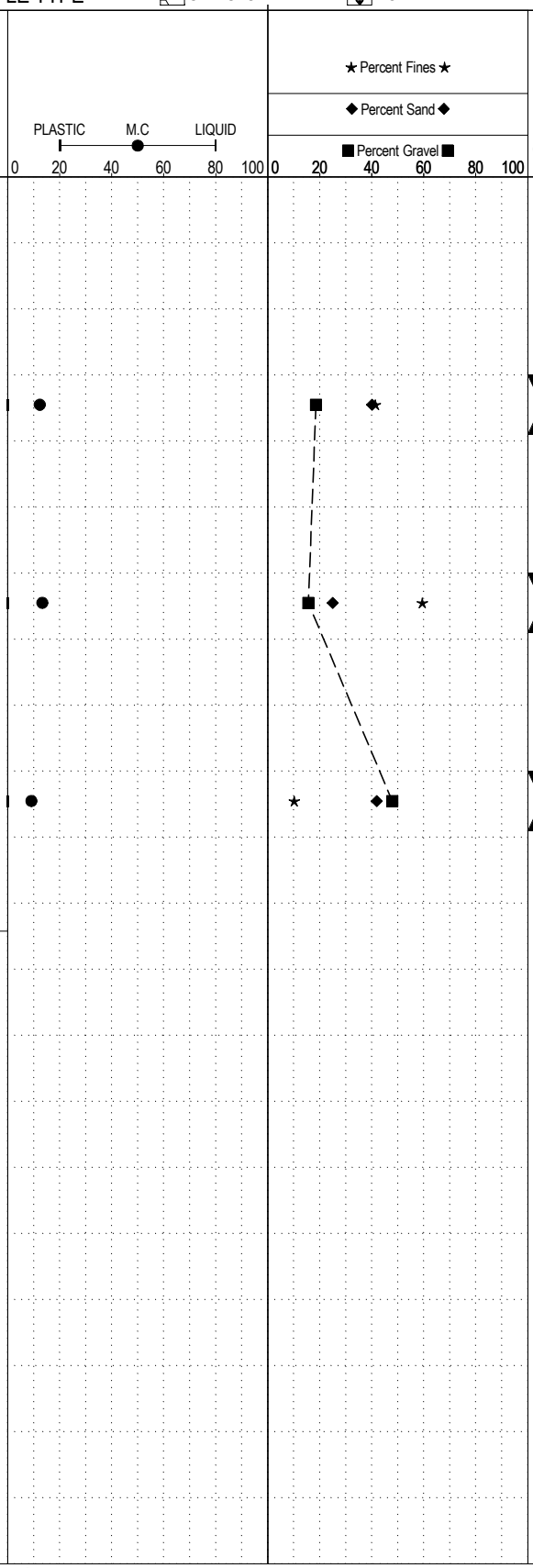
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		241	SM	16	SAND, silty with gravel -Brown, damp, sub angular -Oxidization -Slow drilling	2
		242	GM		END of HOLE -Hard drilling	3 4 5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3m
COMPILED BY: TAJ	Complete: 10/13/2017 5:25:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5537**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6812831m E460739m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



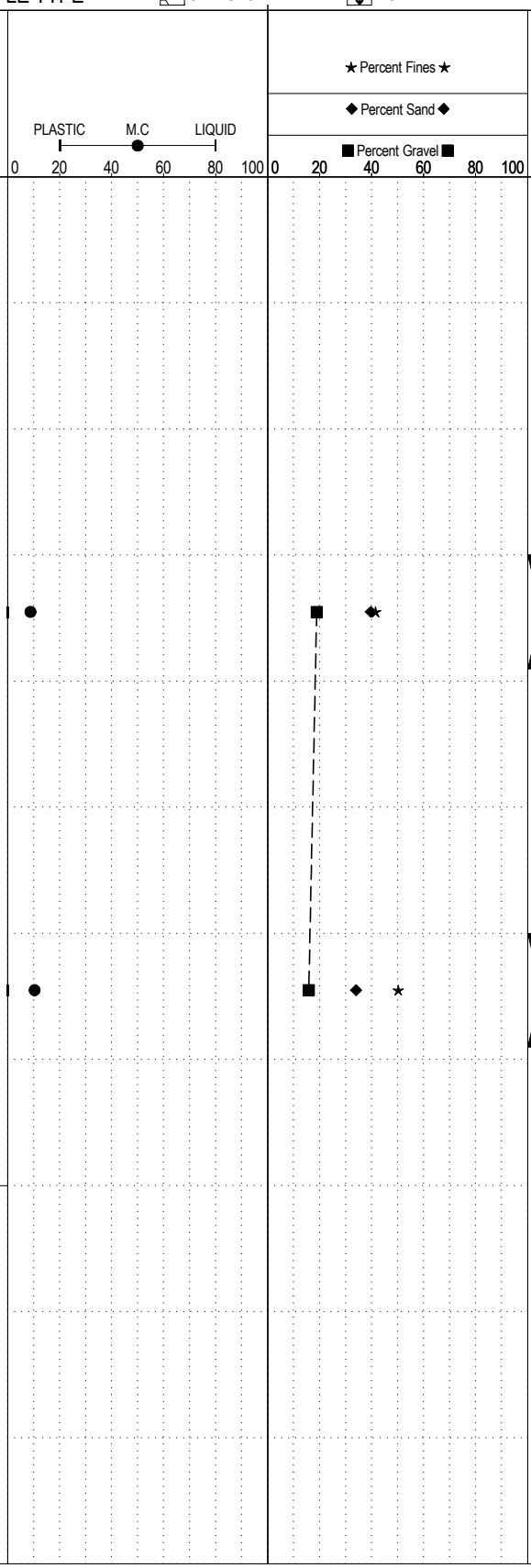
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					ORGANIC SILT, trace sand, trace gravel -Grey, wet, soft, strong organic odour	1
	SPT	243	SM	6	SAND, silty with gravel	2
	SPT	244	ML	7	SILT, sandy with gravel -Frozen (Nbe)	3 4
	SPT	245	GP-GM		Weathered Shale (Tested as poorly graded gravel with silt and sand) -Saturated -Refusal at 12 cm on SPT	5
					END of HOLE -Refusal on hard ground	6 7 8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 5.71m
COMPILED BY: TAJ	Complete: 10/14/2017 10:00:00 AM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5538**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6812897m E460700m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



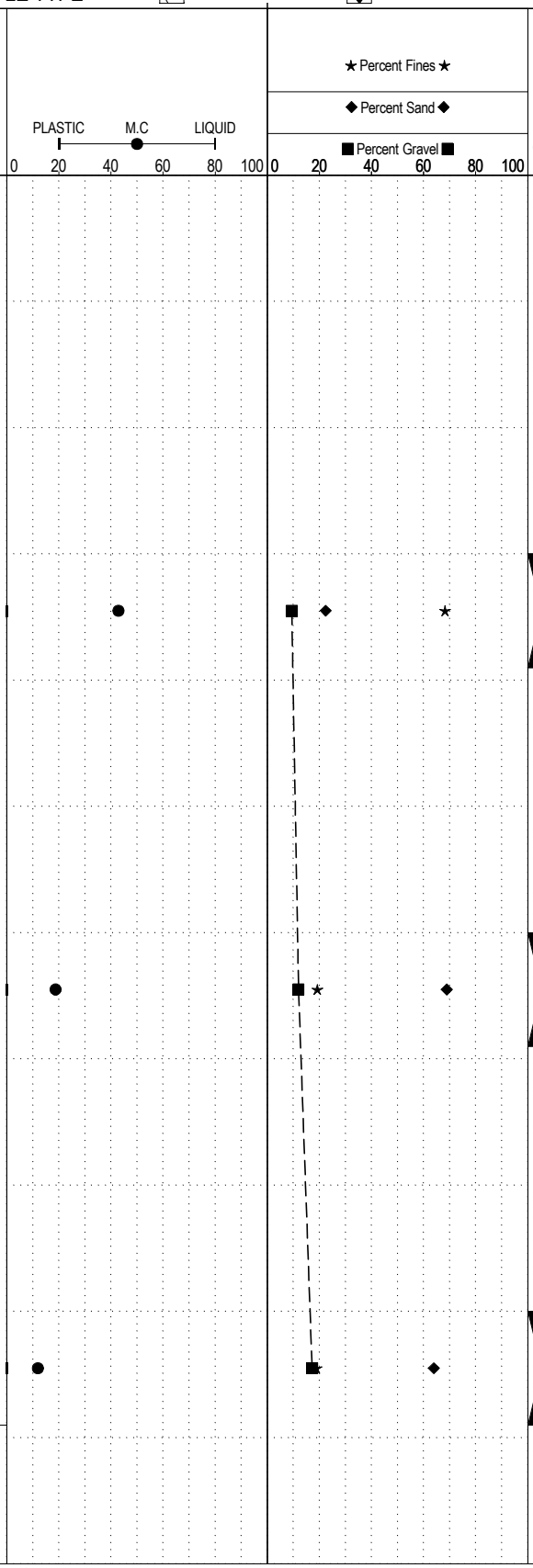
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		246	SM	13	SAND, silty with gravel -Dark greyish brown, moist, compact, sub angular	2
		247	ML	17	SILT, sandy with gravel -Apparent plasticity Sand lense, 15mm	3
					END of HOLE -Refusal on tight formation	4 5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4m
COMPILED BY: TAJ	Complete: 10/14/2017 10:50:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5539**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6812807m E460730m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



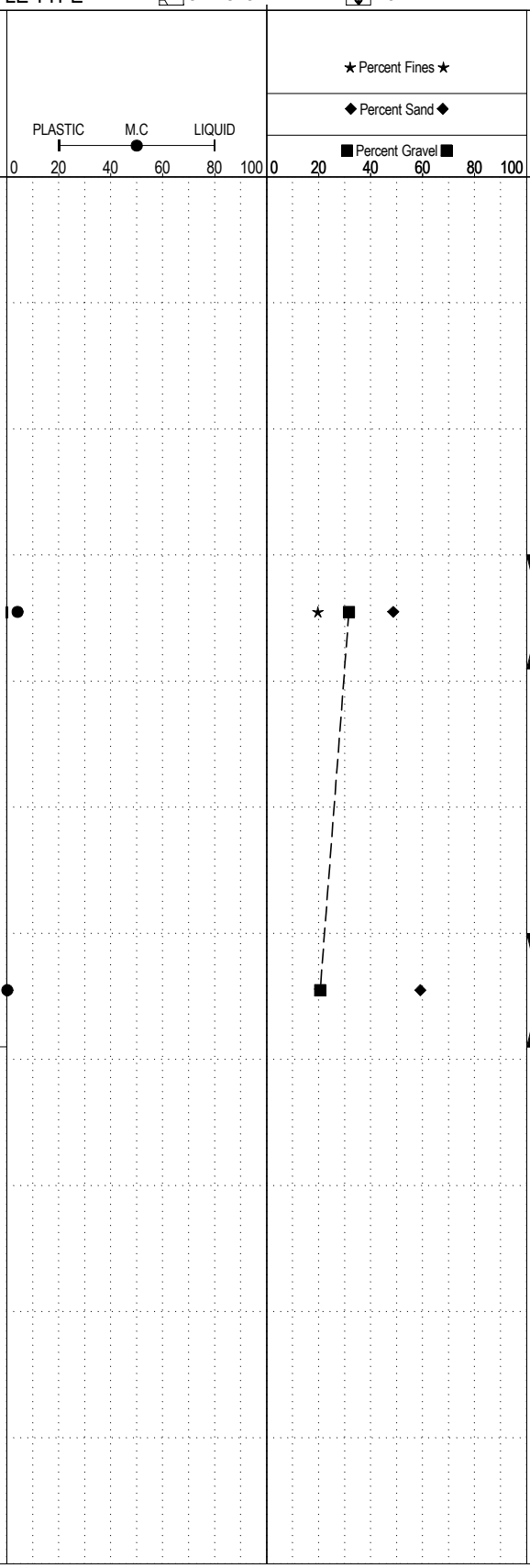
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Fill for culvert access	
					ORGANIC SILT	1
		248	OL	4	SILT, sandy with fibrous inclusions -Beige and black	
					PEAT, degraded -Black, moist	2
		249	SM	5	SAND, silty -Beige, loose, saturated, angular -Spoon sunk between blows, 10 cm	3
						4
		250	SM		-No sample recovery -Refusal on SPT after 12.5cm of first flight after 74 blows	
					END of HOLE	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/14/2017 11:40:00 AM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5540**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6812714m E460784m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



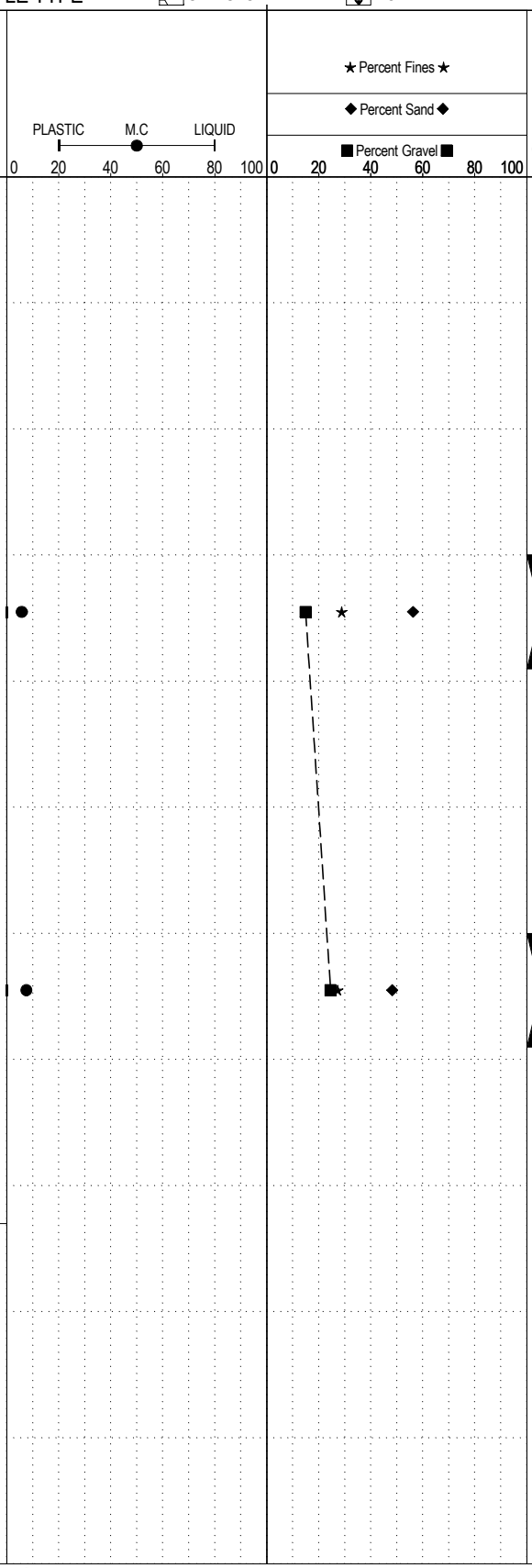
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		251	SM		SAND, silty with gravel -Refusal on SPT after 50 blows at 10cm of second flight -Gravel blocked SPT -Heavy grinding -Slow drilling	2
		252	SM		SHALE (tested as silty sand with gravel) -Beige -Refusal on SPT on first flight at 7.5cm after 15 blows with no movement	3
					END of HOLE -Refusal on hard ground	4 5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.45m
COMPILED BY: TAJ	Complete: 10/14/2017 12:40:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5541**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6812532m E460873m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



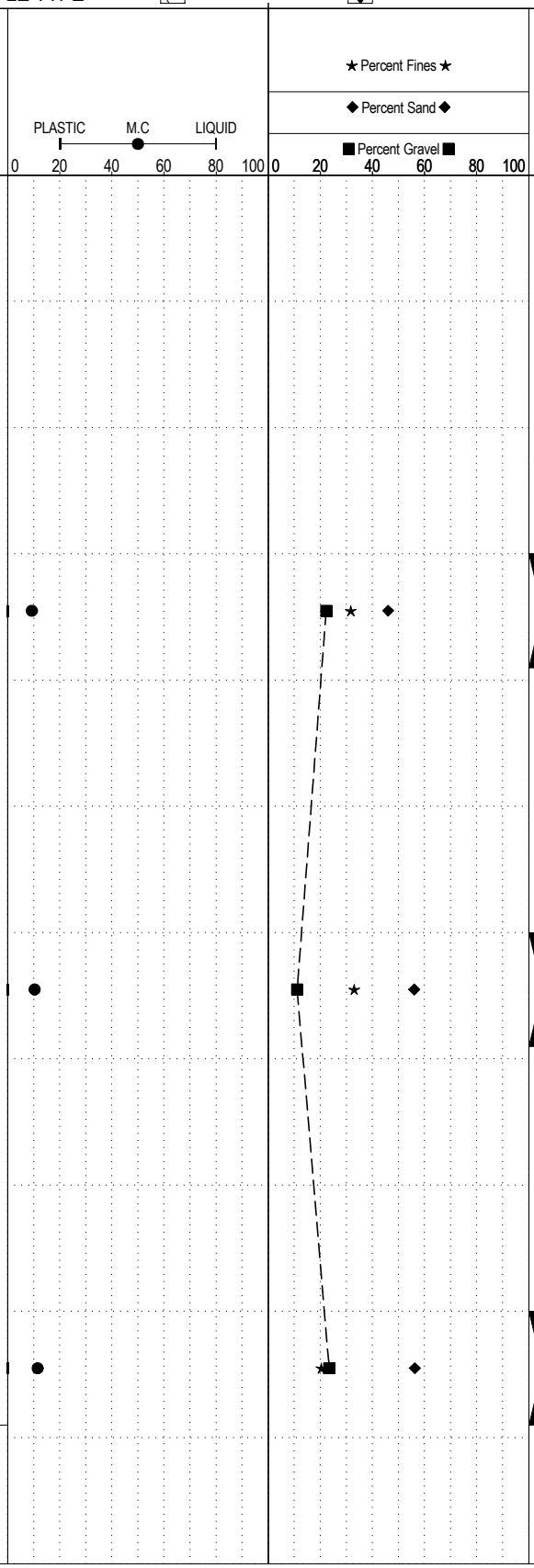
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		253	SM		SAND, silty -Greyish brown, damp, dense -Refusal on SPT in second flight, 10 blows with no movement -Refusal at 1.6m, moved ahead 4m	2
		254	SM	29	-Some gravel -Brown, compact, sub angular	3 4
					END of HOLE -Refusal on tight or hard formation	5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.15m
COMPILED BY: TAJ	Complete: 10/14/2017 1:35:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5542**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6812354m E460959m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



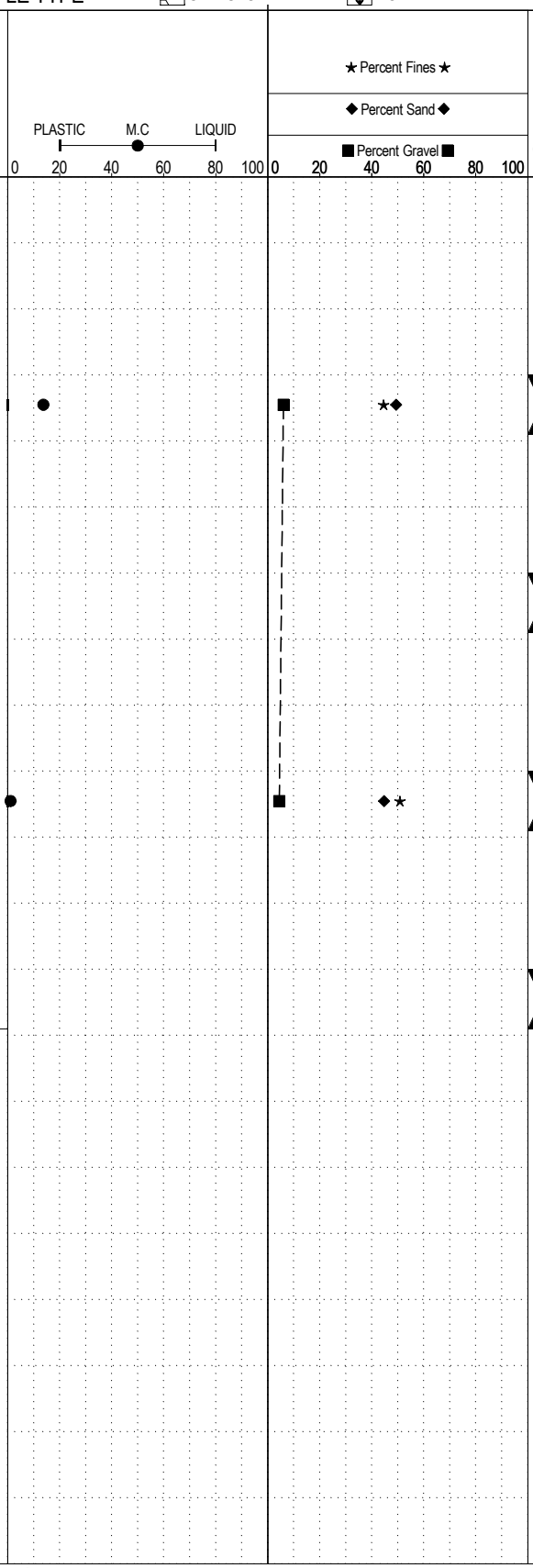
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		255	SM	25	SAND, silty with gravel -Brown, damp	
					-organic layer, 15mm ontop of coarse gravel	2
					-Grinding	
					-Slow drilling	
					-Trace gravel -Beige, moist, sub angular	3
		256	SM	12	Weathered Shale -Friable, greasy texture, beige	
						4
					-Tested as silty sand with gravel	
		257	SM	24		
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/14/2017 2:15:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5543**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6812261m E461019m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



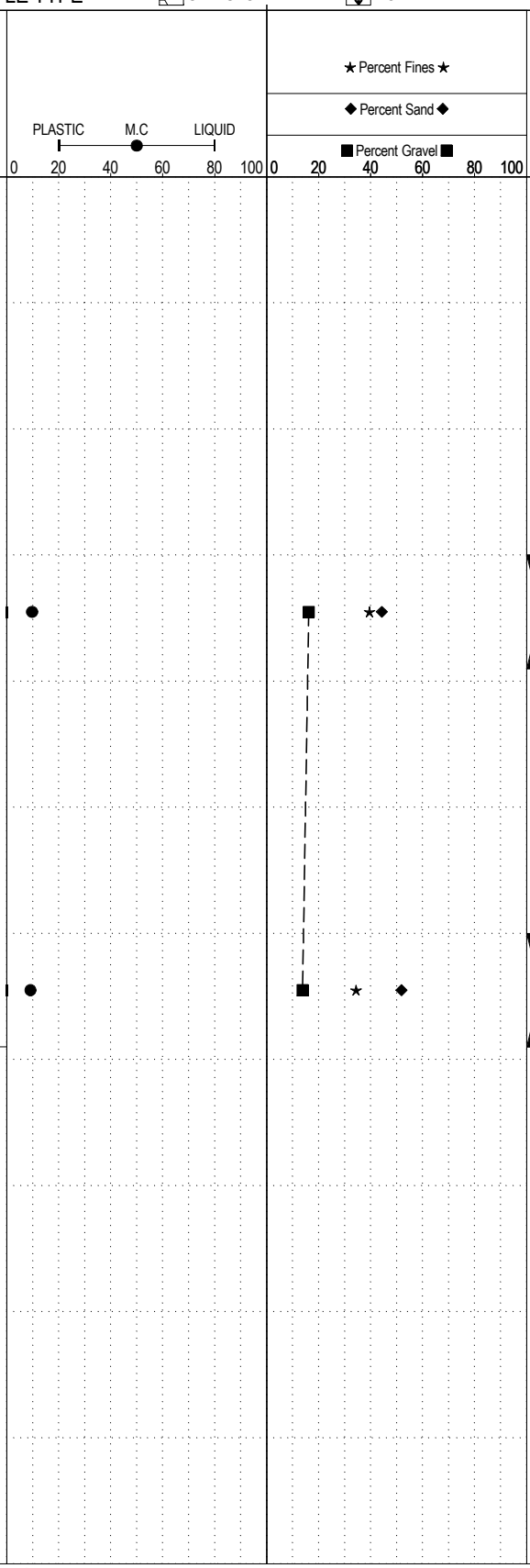
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill -Standing water in ditch	1
	SPT	258	SM	11	SAND, silty -Grey, damp, sub rounded	
					ORGANIC SOIL with wood inclusions	2
	SPT	259	ML	27	-Shale particles and wood block SPT. Wood fragments coming up on augers -No recovery -Grinding ends	3 4
	SPT	260		14	SILT, sandy, wood inclusions -Grey, wet, compact -Dark grey cuttings -Torquing out on drill	5
	SPT	261		12	Weathered Shale -Black, greasy texture, moist	6
					END of HOLE -Target depth +1.5m	7 8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/14/2017 3:05:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5544**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6812197m E461090m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



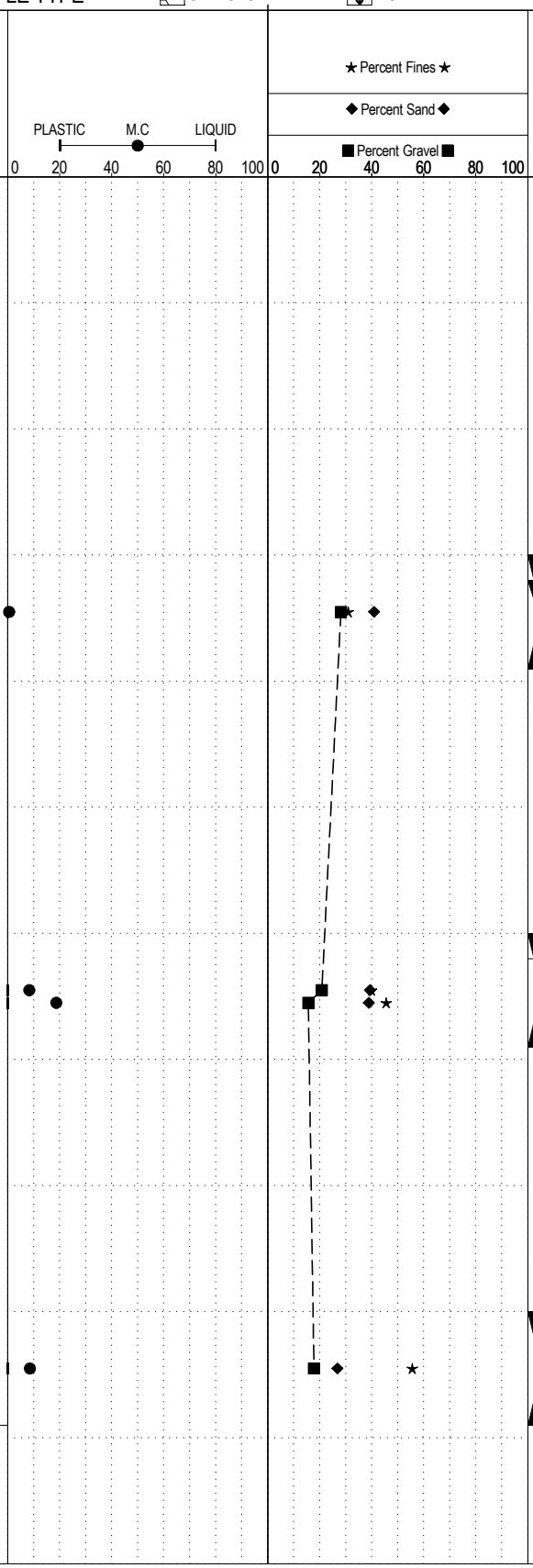
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					-Black cuttings coming up hole	1
		262	SM	23	SAND, silty with gravel -Dark grey, damp, sup rounded	2
					-Slow drilling	
		263	SM	37	-Trace gravel	3
					END of HOLE -Refusal on tight formation	4
						5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.45m
COMPILED BY: TAJ	Complete: 10/14/2017 3:40:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5545**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6812101m E461270m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



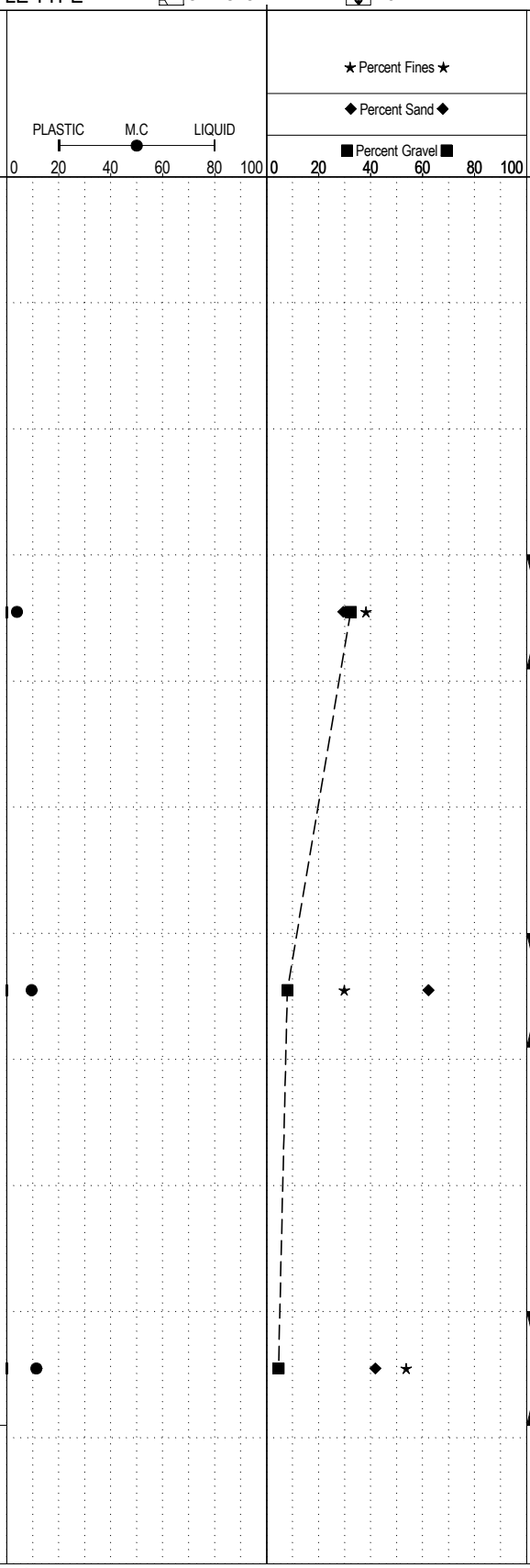
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		264 266	SM	11	SAND, silty with gravel -Brown, damp, sub rounded	2
		265 267	SM SM	14	-Dark beige, moist	3 4
		268	ML	43	SILT, sandy with gravel -Damp, sub angular, some oxidization on sand	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/14/2017 4:30:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5546**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6812013m E461438m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

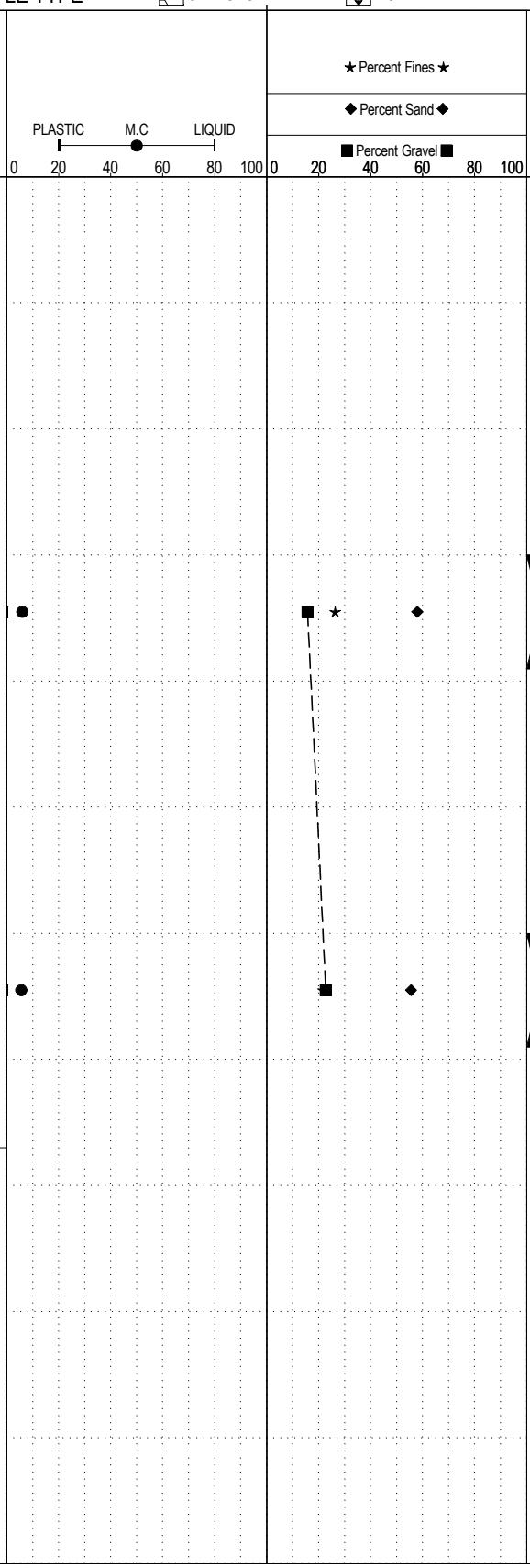


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		269	GM		GRAVEL, silty with sand -Sub rounded -Heavy grinding	2
					-Slow drilling	3
		270	SM	38	SAND, silty -Brown, moist, sub angular -Black cuttings coming up hole	4
					-Hard drilling	
		271	ML	85	SILT, sandy -Greyish beige, interbedded with medium and fine sand lenses	
					END of HOLE -Target depth reached	5

Yukon **Highways and Public Works Transportation Engineering Branch**	LOGGED BY: KAE/RWS	Termination Depth: 4.95m
	COMPILED BY: TAJ	Complete: 10/14/2017 5:15:00 PM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5547**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6811910m E461620m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



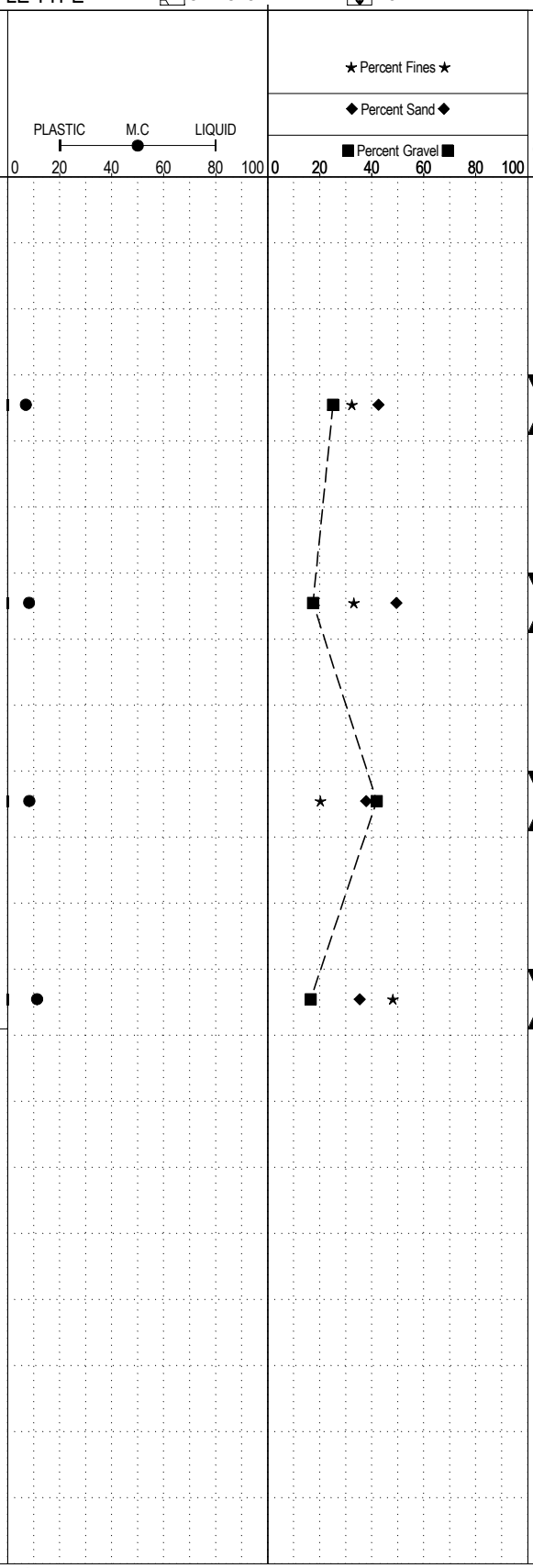
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					-Slow drilling	1
		272	SM	14	SAND, silty with gravel -Brown, damp, compact, sub rounded	2
		273	SM	32	-Sub angular and sub rounded particles	3
					END of HOLE -Refusal on tight ground	4
						5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.85m
COMPILED BY: TAJ	Complete: 10/15/2017 9:30:00 AM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5548**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6811826m E461796m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



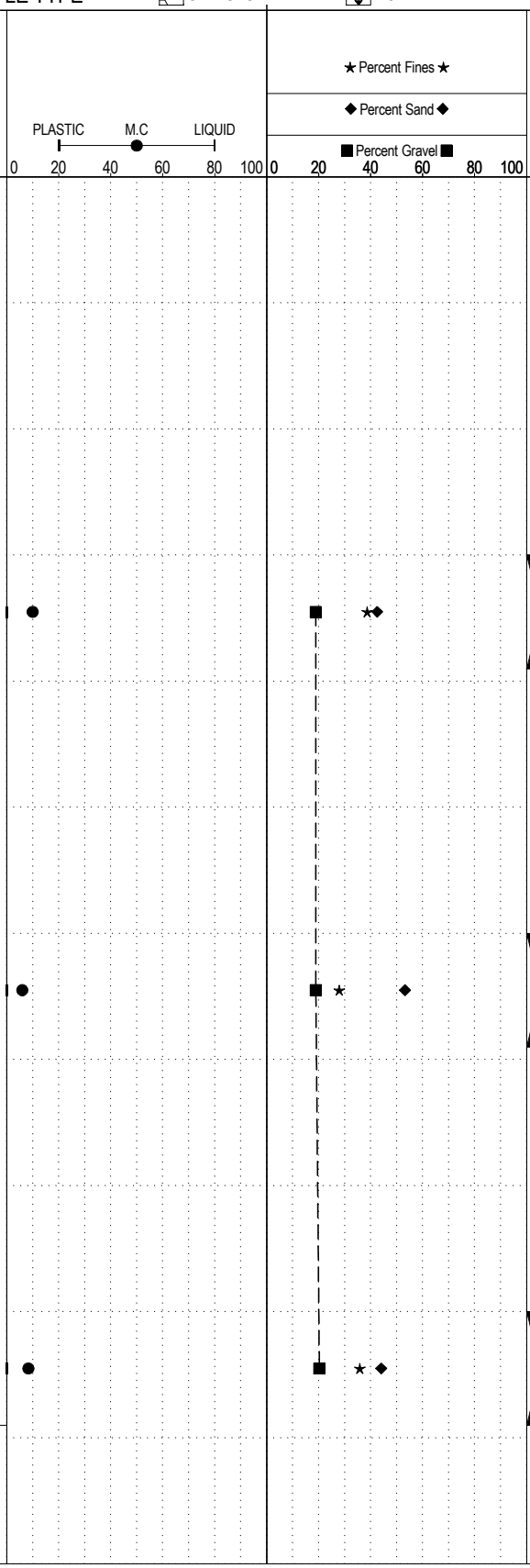
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	274	SM	38	SAND, silty with gravel -Brown, damp, sub angular -Slow drilling	2
	SPT	275	SM		-Refusal on SPT in second flight, no advancement after 12 blows	3 4
	SPT	276	GM	31	GRAVEL, silty with sand -Brown, damp, sub angular	5
	SPT	277	SM		SAND, silty with gravel -Grey, moist, rounded, some plasticity	6
					END of HOLE -Target depth reached	7 8 9 10

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/15/2017 10:27:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5549**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6811738m E461967m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



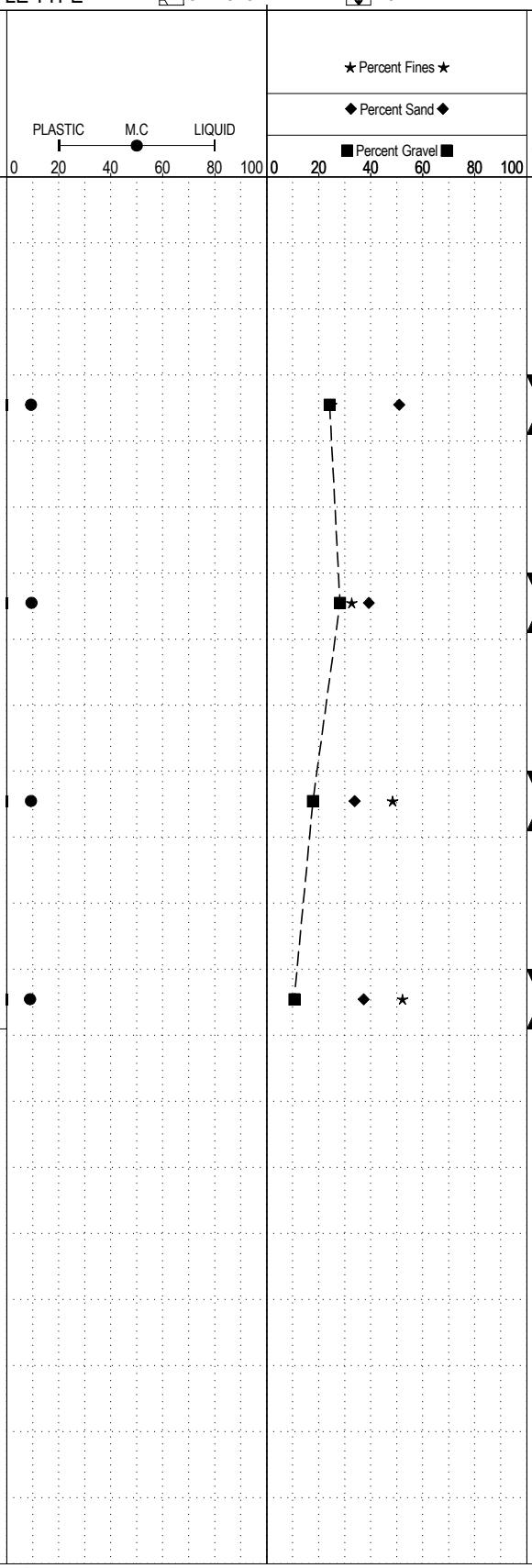
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		278	SM	20	SAND, silty with gravel -Brown, moist, sub rounded -Grinding for 0.2m	2
					-Slow drilling	3
		279	SM	27		
					-Very slow drilling	4
		280	SM	49	-Beige, damp, rounded	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/15/2017 11:20:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5550**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6811645m E462151m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



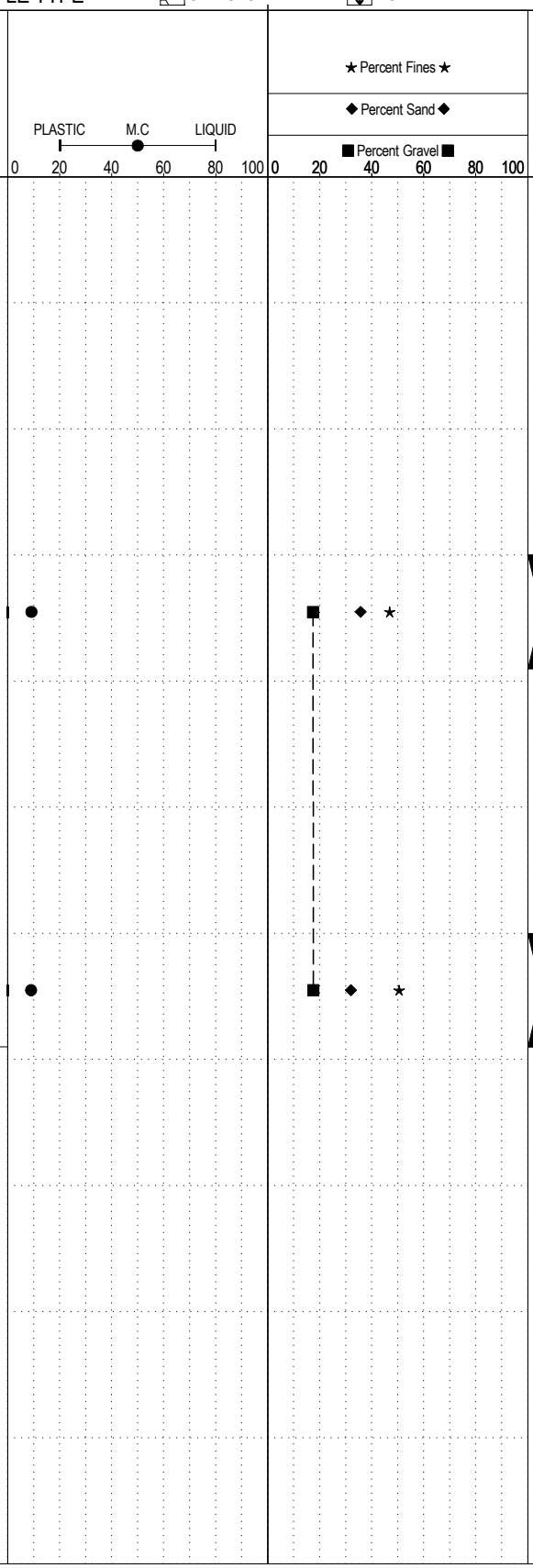
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	281	SM	13	SAND, silty with gravel -Brown, damp, sub angular	
					ORGANIC SOIL	2
	SPT	282	SM	14	-Wet -Clay lense, 50mm	3 4
	SPT	283	SM	16	-Dark grey, sub angular to sub rounded	5
	SPT	284	ML	46	SILT, sandy	6
					END of HOLE -Target depth reached	7 8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/15/2017 12:24:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5551**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6811558m E462317m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



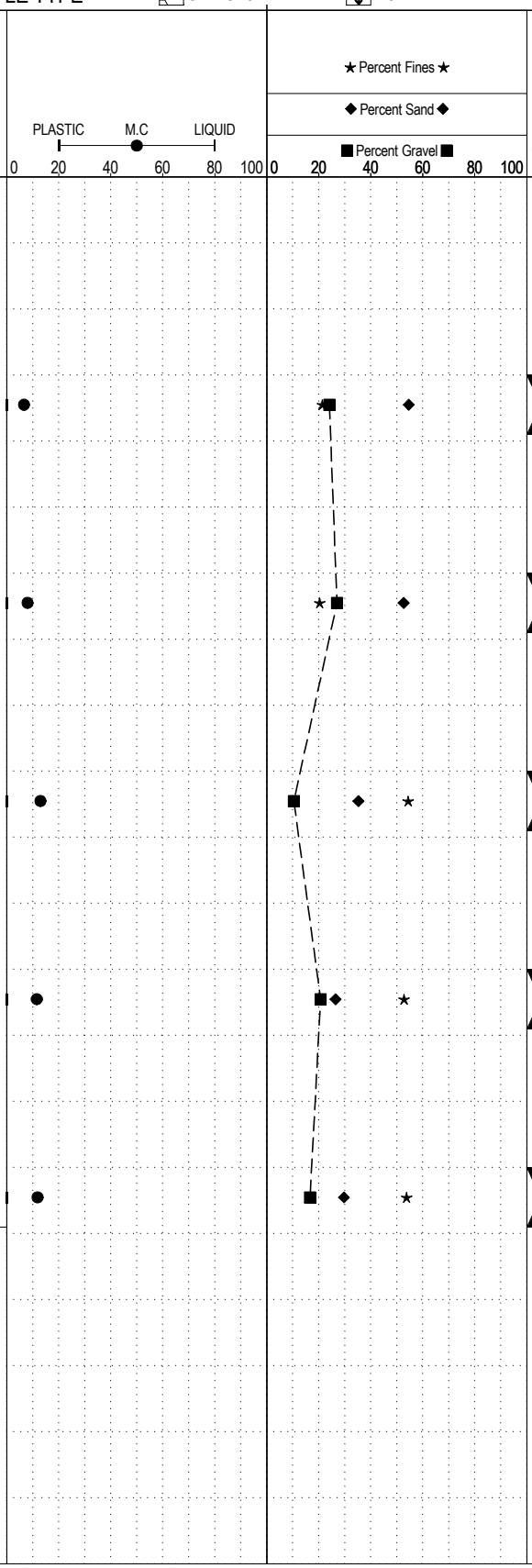
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		285	SM	17	SAND, silty with gravel -Brown, damp, sub angular	2
		286	ML	24	SILT, sandy with gravel -Brown, damp, sub angular and sub rounded	3
					END of HOLE -Refusal on tight formation	4 5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 3.45m
COMPILED BY: TAJ	Complete: 10/15/2017 1:52:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5552**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6811468m E462493m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



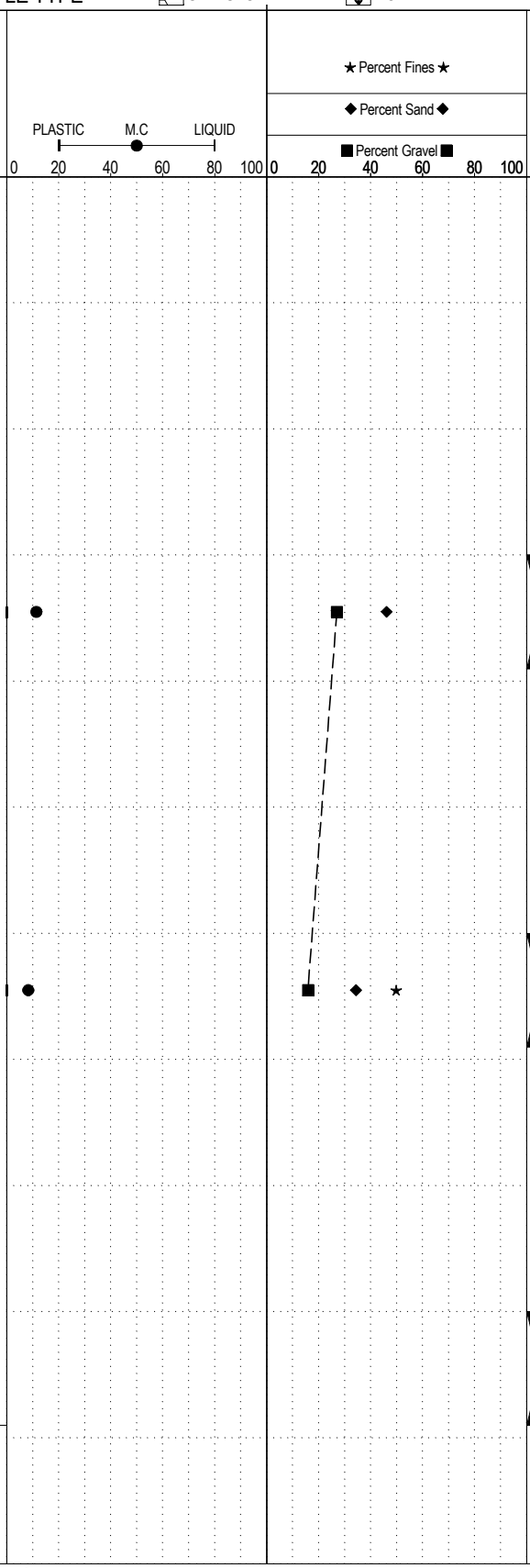
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	287	SM	15	SAND, silty with gravel -Brown, moist, angular	2
	SPT	288	SM	11	-Wet -Black cuttings coming up hole	3, 4
	SPT	289	ML	7	SILT, sandy -Grey, moist, low plasticity	5
	SPT	290	ML	8	-Some gravel	6, 7
	SPT	291	ML	9	-Saturated	
					END of HOLE -Difficult drilling	8, 9, 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 7.95m
COMPILED BY: TAJ	Complete: 10/15/2017 2:45:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5553**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6811515m E462395m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



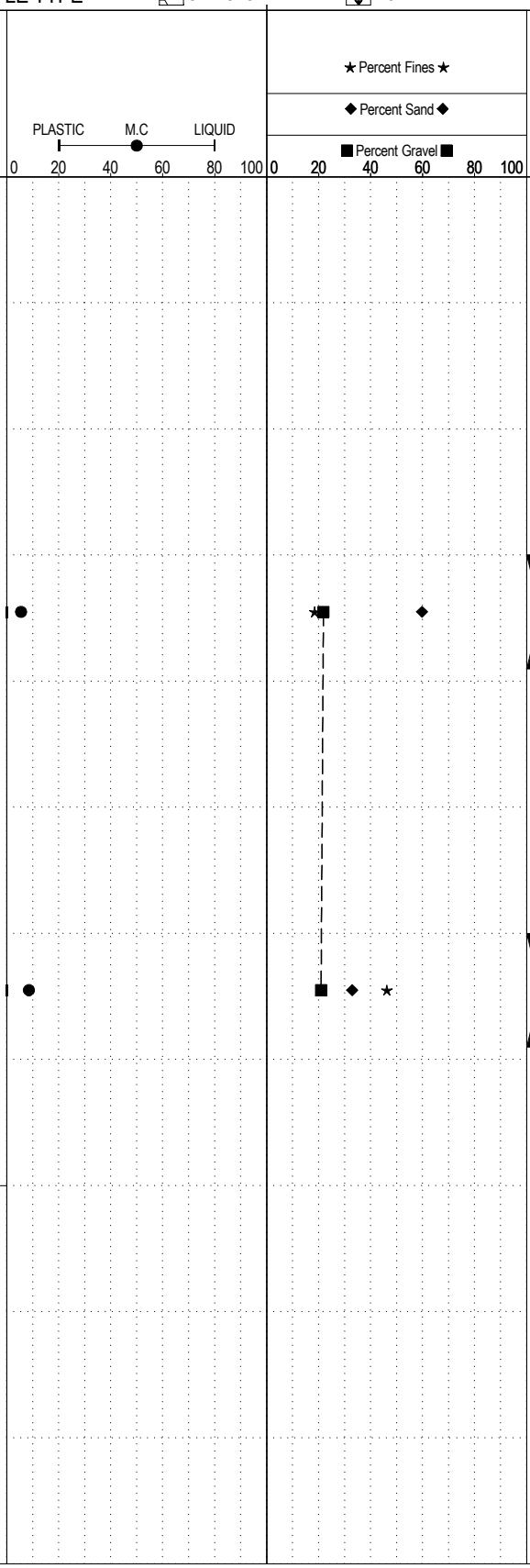
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		292	SM	26	SAND, silty with gravel -Beige, wet ORGANIC SOIL	
					GRAVEL -Material at tip of spoon -Grey cuttings coming up hole	2
		293	SM	18	SAND, silty with gravel -Greyish brown, moist, sub angular -Black cuttings coming up hole	3 4
		294		18	-Trace sand -Sub rounded to rounded	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/15/2017 3:40:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5554**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6811403m E462619m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



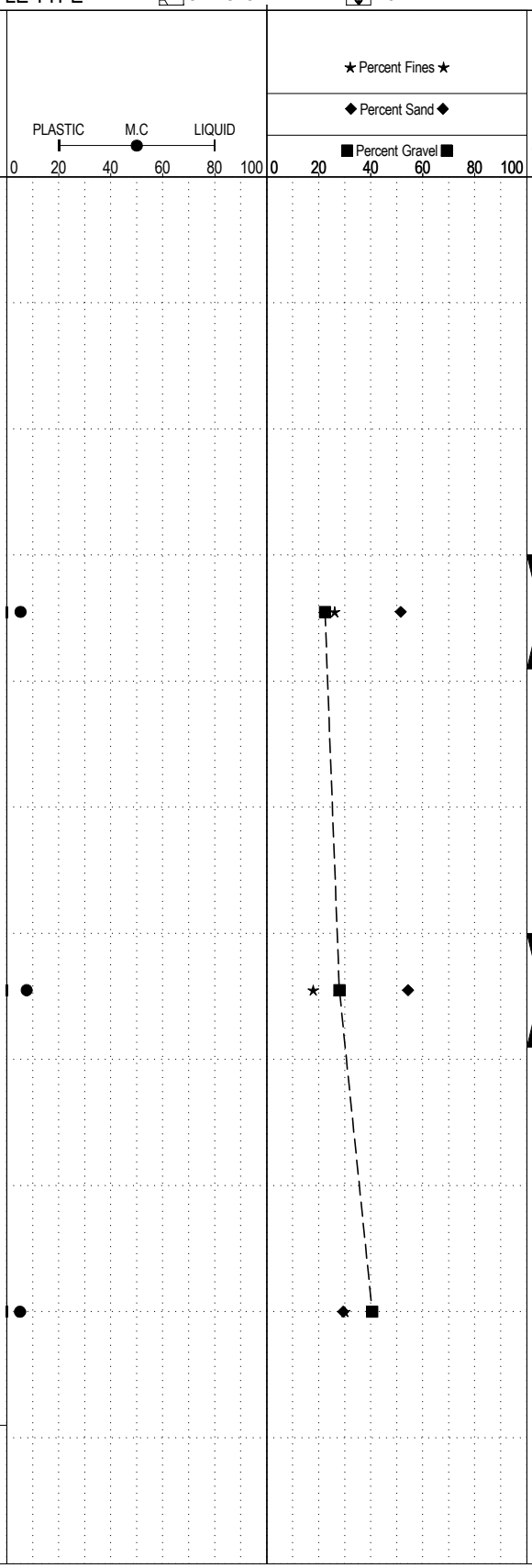
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					-Hard drilling	1
		295	SM	23	SAND, silty with gravel -Brown, damp, angular	2
		296	SM	20	-Beige, angular -Oxidization on coarse material	3
					-Hard drilling	
					-Grey cuttings comming up hole	4
					END of HOLE -Tight formation	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4m
COMPILED BY: TAJ	Complete: 10/15/2017 4:35:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5555**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6811304m E462751m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



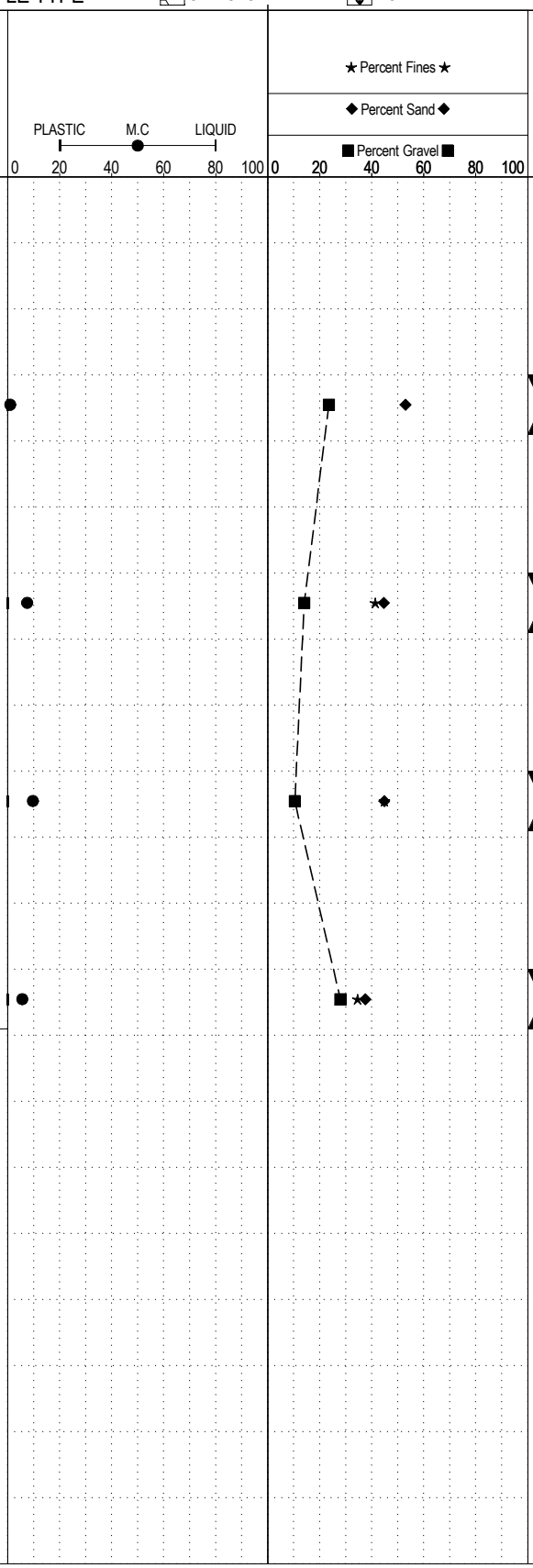
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		297	SM	34	SAND, silty with gravel -Light brown, damp, moslty sub angular	2
		298	SM	28	-Brown, moist -Medium sand lense, 50mm GRAVEL with sand, trace silt -Brown, moist	3
					-Heavy grinding	4
		299	GM	66	GRAVEL, silty with sand -Brown, damp, sub angular	
					END of HOLE -Refusal on tight ground	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/15/2017 5:15:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5556**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6811199m E462863m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



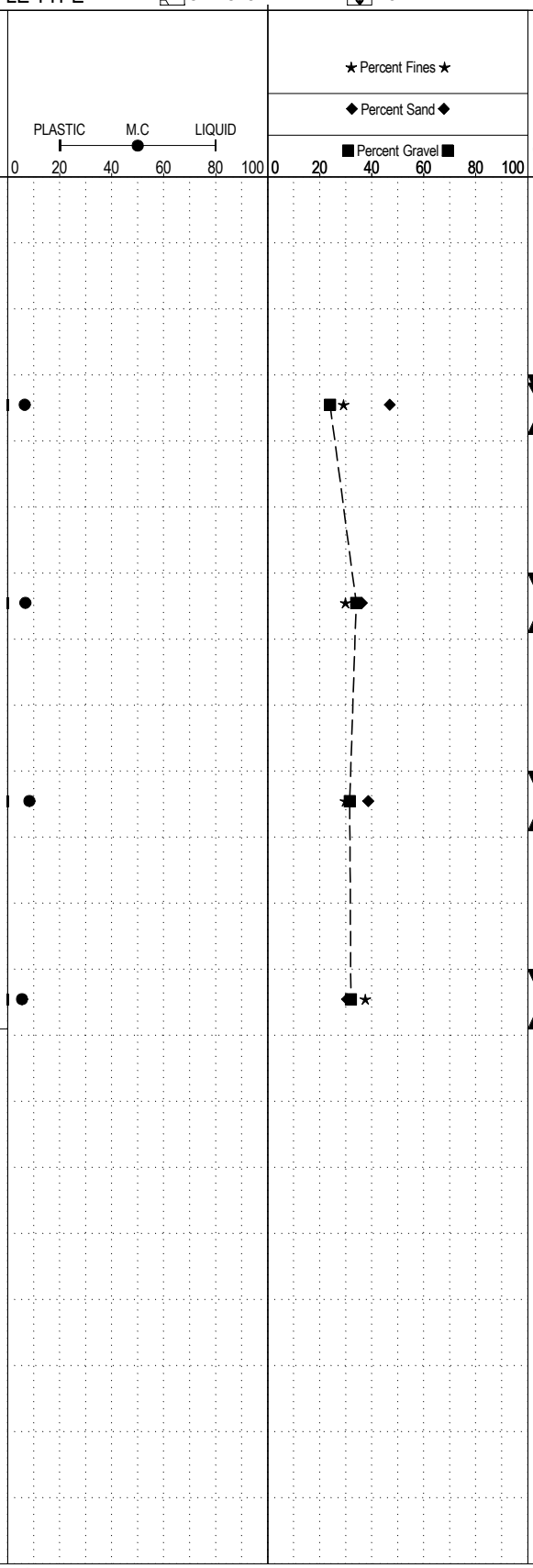
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	300	SM	15	SAND, silty with gravel -Brown, damp, angular -Organic soil, 100mm	2
	SPT	301	SM	7	-Sub rounded, wet -Trace gravel -Heavy grinding to 4.6m	3 4
	SPT	302	SM		-Dark grey, moist -Light grinding, 200mm -Difficult drilling	5
	SPT	303	SM	46	-Some gravel -Dark grey, damp, angular	6
					END of HOLE -Target depth reached	7 8 9 10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/16/2017 9:34:00 AM
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5557**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6811078m E462989m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



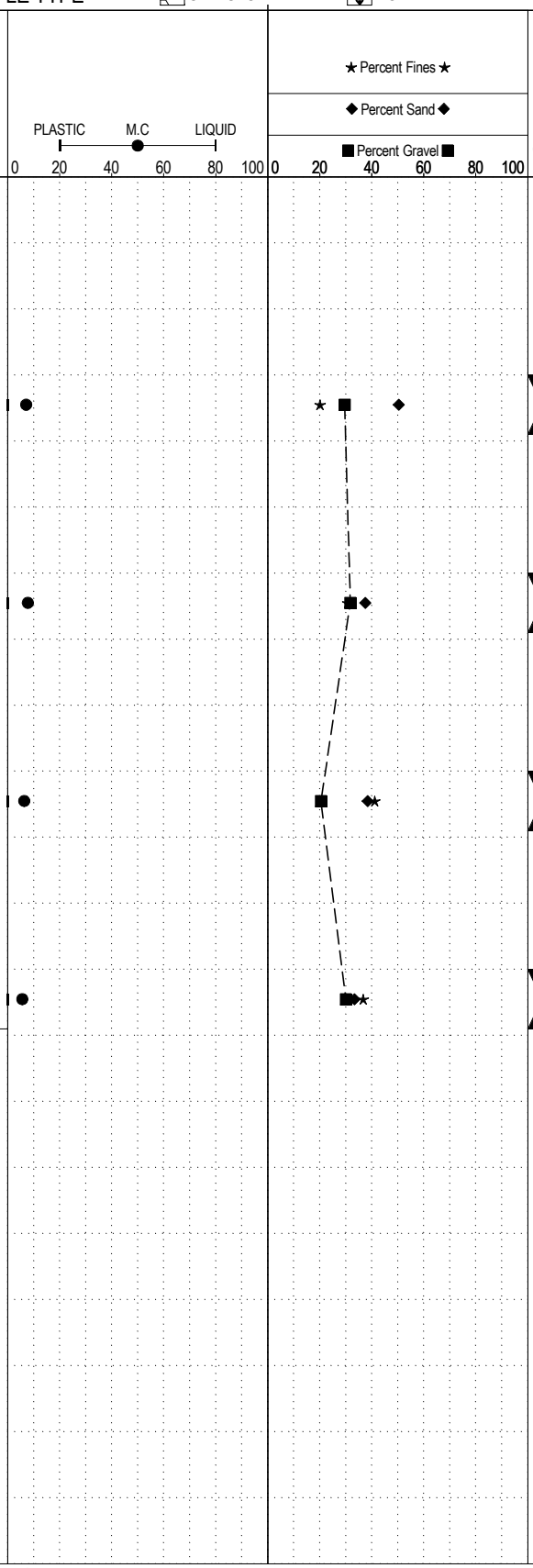
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	304 305	SM	27	SAND, silty with gravel -Brown, damp, angular -Refusal at 1.5m, moved ahead -Refusal on 1st SPT at 1st flight, no movement after 15 blows	2
					-ORGANICS and gravel	3
	SPT	306	SM	33	-Light brown, damp, angular	4
	SPT	307	SM	37	-Wet	5
	SPT	308	GM	22	GRAVEL with silt and sand -Dark grey, sub rounded	6
					END of HOLE -Target depth reached	7 8 9 10

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
COMPILED BY: TAJ	Complete: 10/16/2017 10:19:00 AM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5558**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6810796m E463285m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	
					SAND, silty with gravel -Brown, wet, angular	1
	SPT	309	SM	7		2
	SPT	310	SM	19		3
						4
	SPT	311	SM	23		5
					-Slow drilling	6
	SPT	312	SM	44	-Some gravel -Dark grey/brown, damp, sub rounded	
					END of HOLE -Target depth reached	7
						8
						9
						10

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 6.45m
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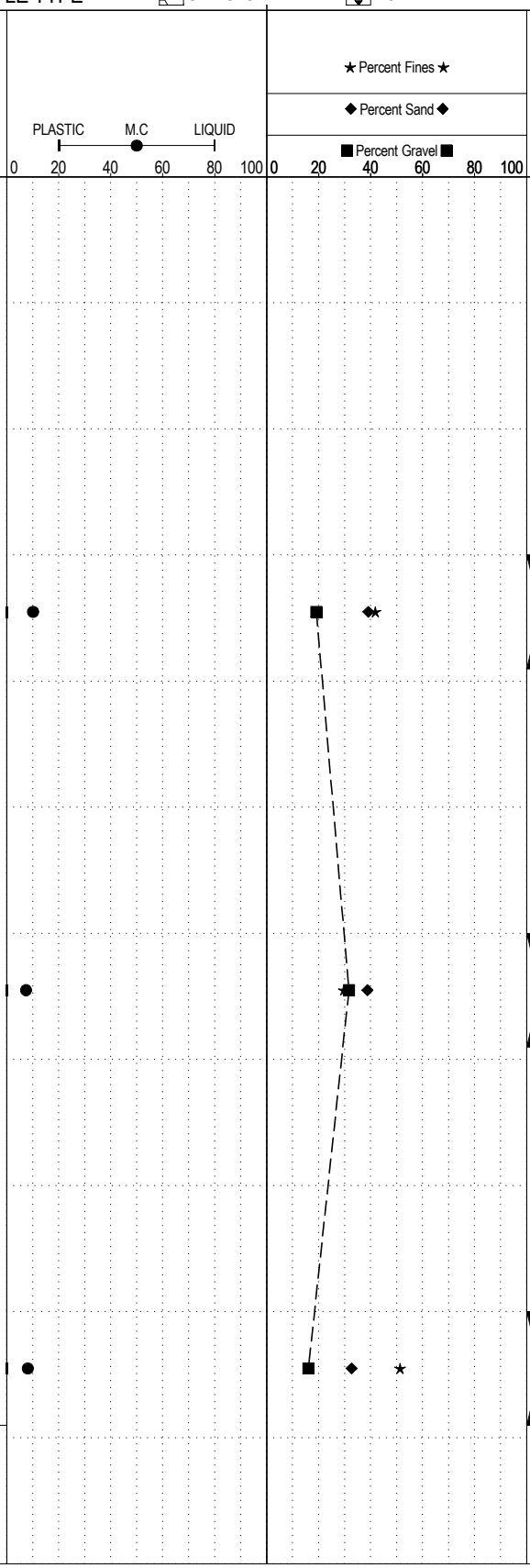
SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5559**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6810718m E463375m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		313	SM	8	SAND, silty with gravel -Brown -Grey	
					-Peaty Organic soil, 100mm	2
					-Moist or wet cuttings	
		314	SM	20	-Wet, sub angular	3
						4
		315	ML	34	SILT, sandy with gravel -Dark beige, damp, sub angular	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
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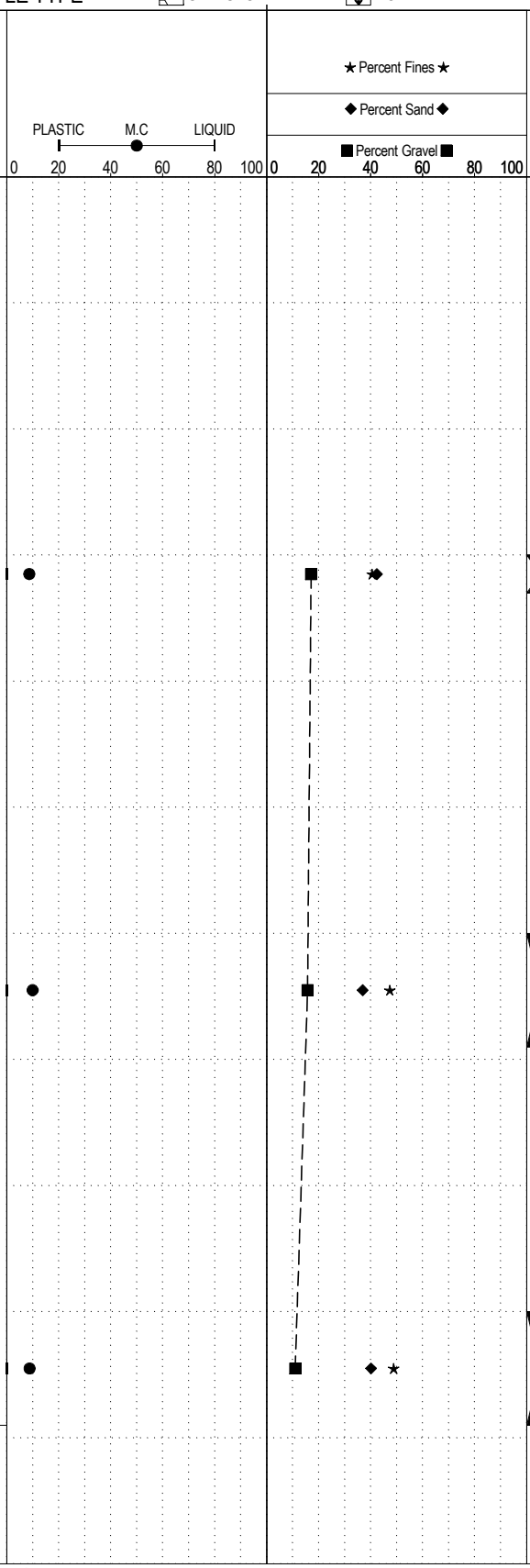
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5560**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6810606m E463481m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

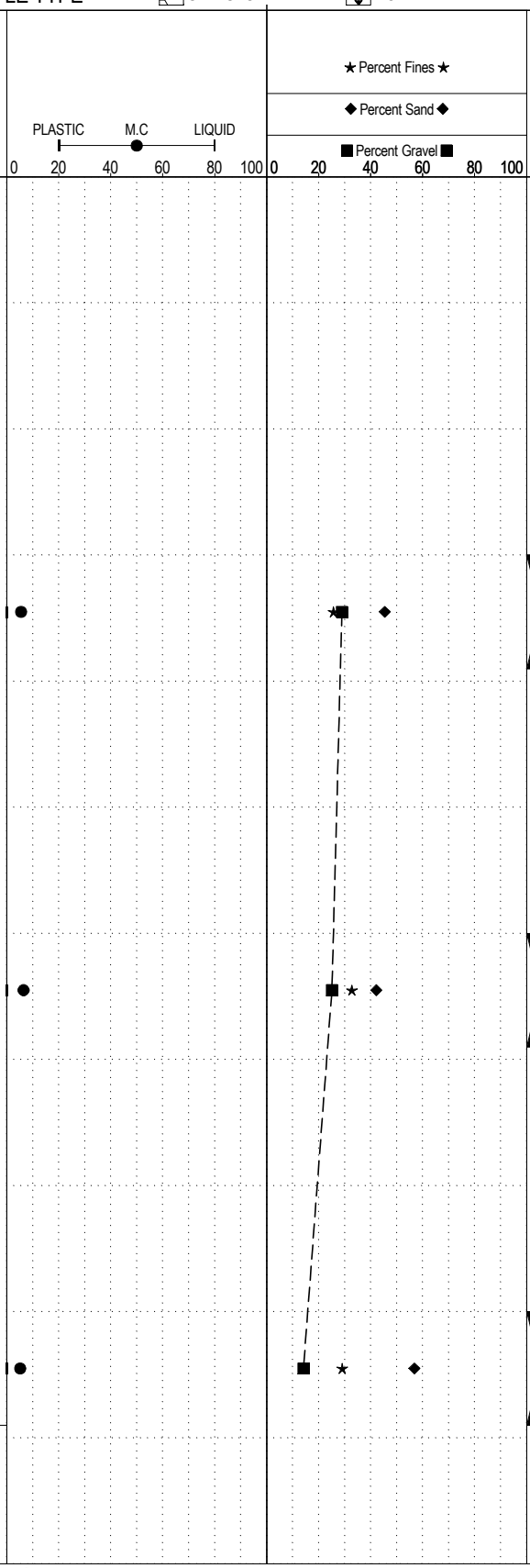


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	316	SM	15	SAND, silty with gravel -Light brown, damp, rounded	2
	SPT	317	SM	12	-Moist	3
					-Difficult drilling	4
	SPT	318	SM	40	-Trace gravel -Brown, damp, sub rounded	
					END of HOLE -Refusal on tight formation	5

Yukon Highways and Public Works Transportation Engineering Branch	LOGGED BY: KAE/RWS	Termination Depth: 4.95m
	COMPILED BY: TAJ	Complete: 10/16/2017 1:15:00 PM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5561**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6810471m E463623m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
	SPT	319	SM	35	SAND, silty with gravel -Brown, moist	2
					-Heavy grinding -Refusal, moved ahead	3
	SPT	320	SM	21	-Angular	4
					-Slow drilling	
	SPT	321	SM	54	-Trace gravel -Light brown, dry	5
					END of HOLE -Target depth reached	

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
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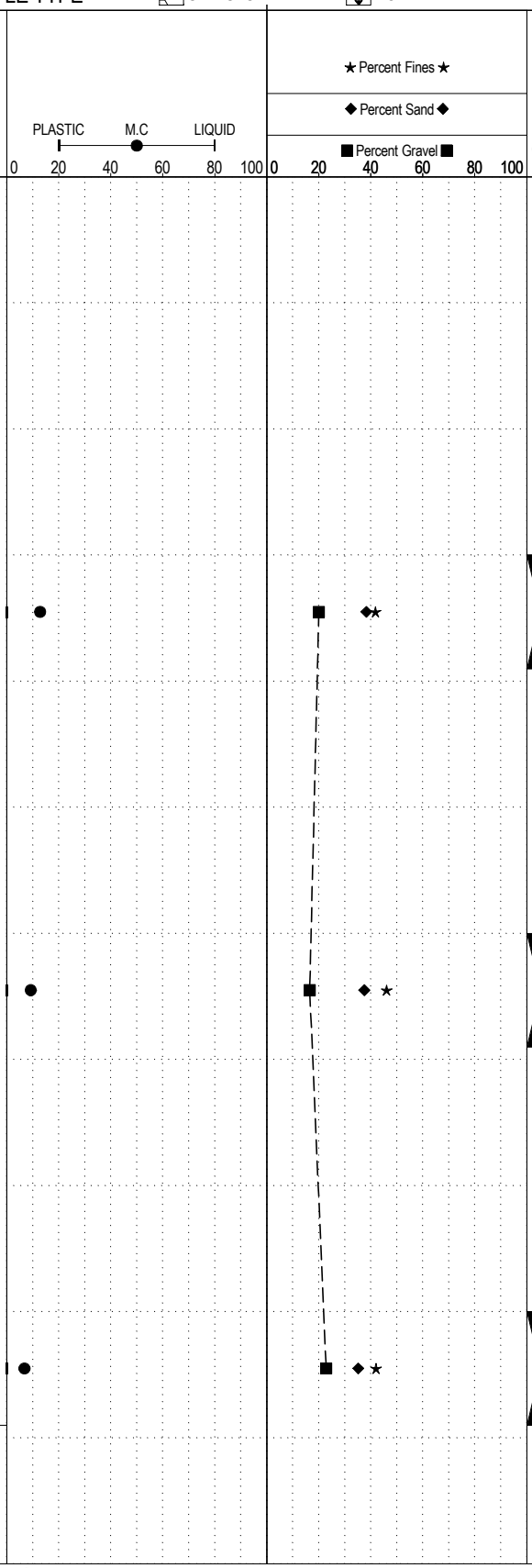
REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5562**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6810359m E463723m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		322	SM	8	SAND, silty with gravel -Beige, damp, sub rounded Peaty organic soil	
					SILT, some sand, trace gravel -Beige, moist, sub rounded	2
		323	SM	16	-Oxidization	3
					-Difficult drilling	4
		324	SM	68	-Dry	
					END of HOLE -Target depth reached	5

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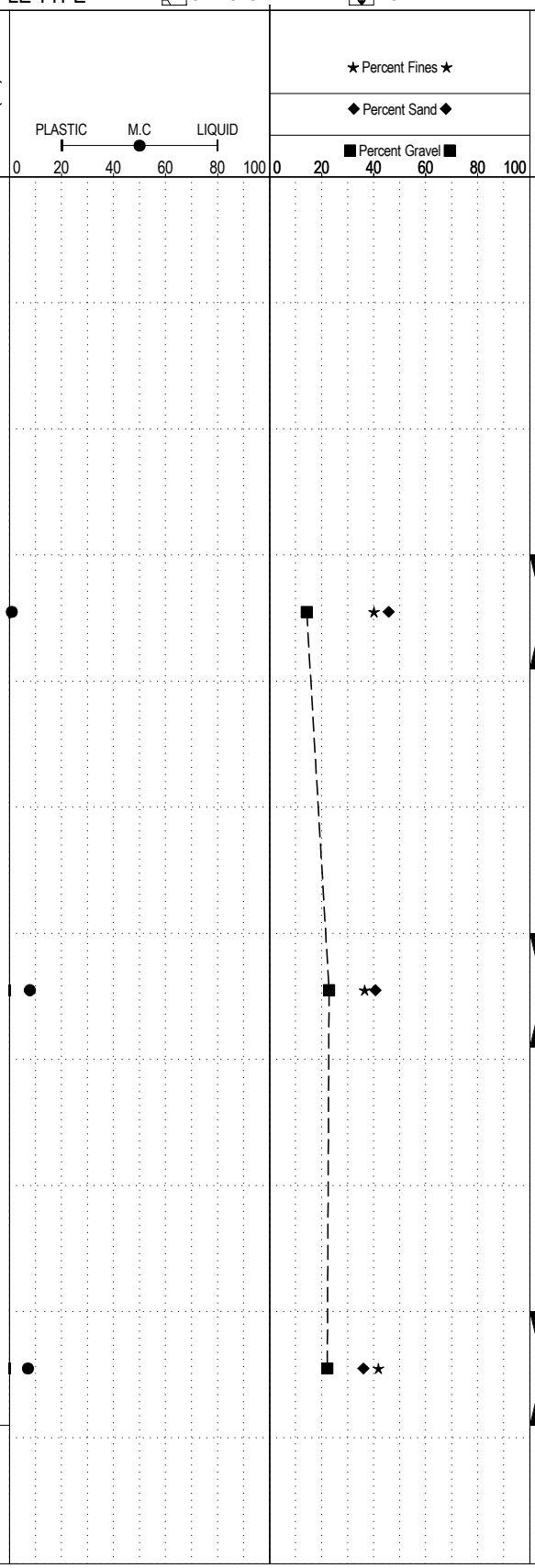
	COMPILED BY: TAJ	Complete: 10/16/2017 2:50:00 PM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5563**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6810195m E463790m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE

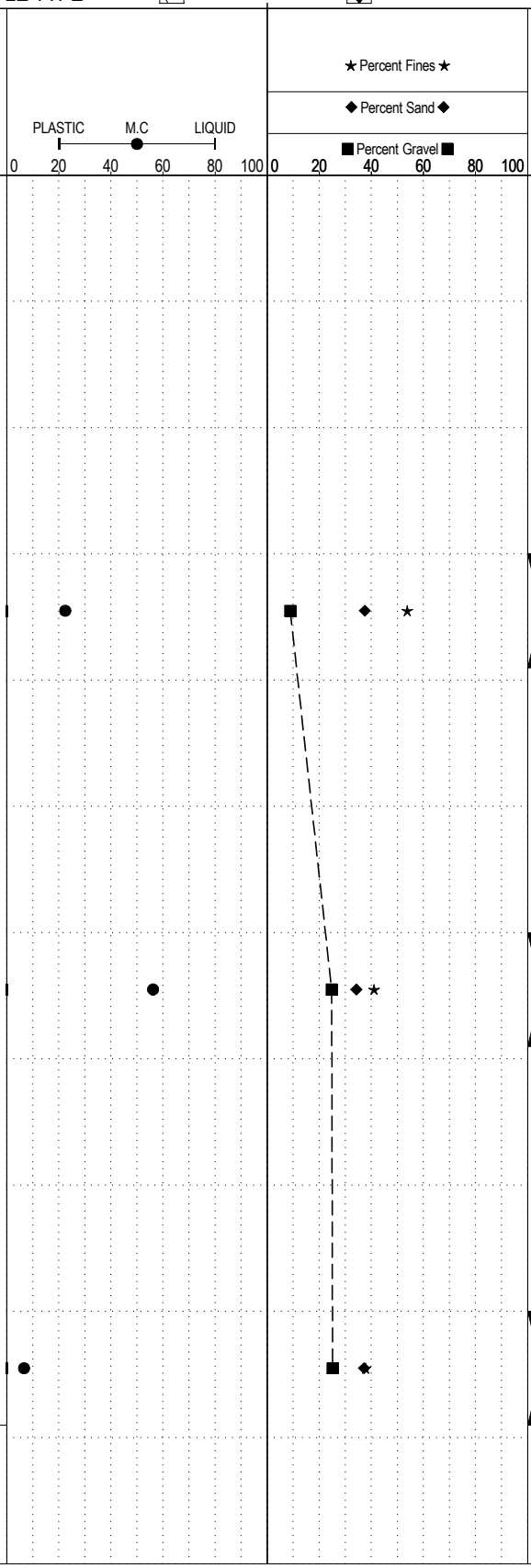


ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		325	SM	42	SAND, silty -Brown, moist, sub angular	
					-10mm of organics at end of SPT	2
		326	SM	26	-Some gravel -Dark beige, damp, sub rounded	3
					-Difficult drilling	4
		327	SM	36	-Rounded and sub angular gravels	
					END of HOLE -Target depth reached	5

Yukon Highways and Public Works Transportation Engineering Branch	LOGGED BY: KAE/RWS	Termination Depth: 4.95m
	COMPILED BY: TAJ	Complete: 10/16/2017 3:30:00 PM
	REVIEWED BY: RWS	Pit #: Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5564**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6810065m E463821m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



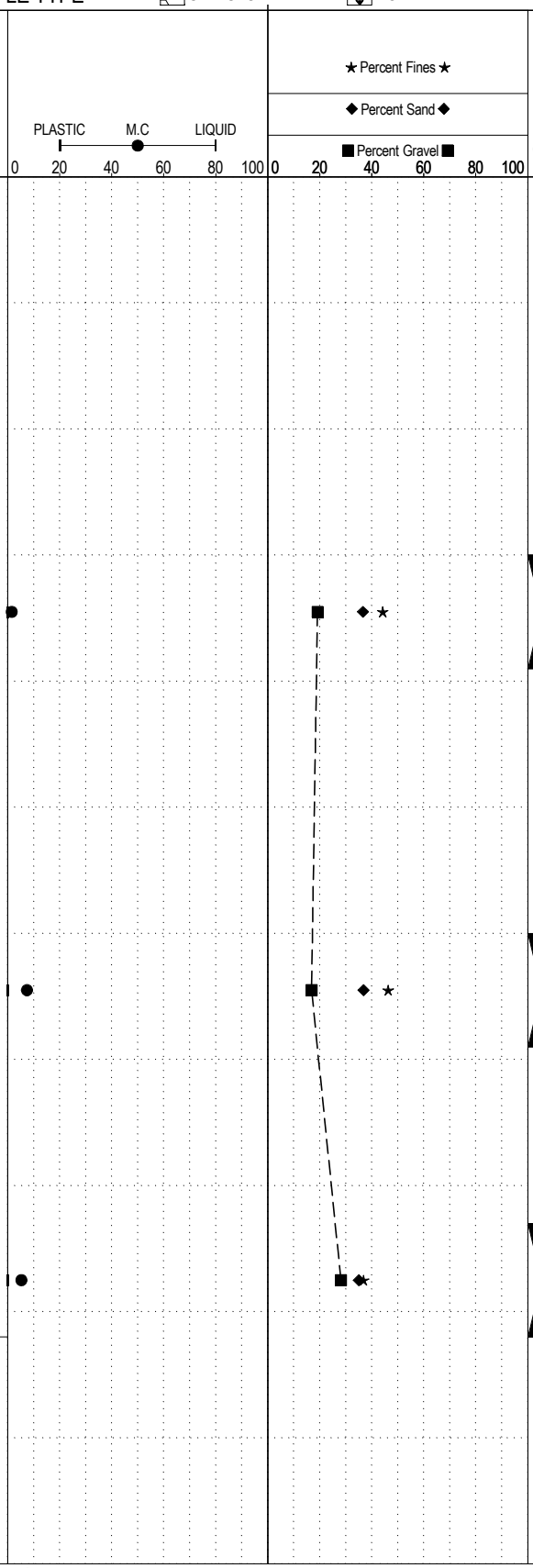
ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		328	ML	9	SILT, sandy -Brown, damp, sub rounded	2
		329	SM	29	SAND, silty with gravel -Brown, damp, rounded -Oxidization on coarse material	3
		330	SM	52	-Dark beige, dry	4
					END of HOLE -Target depth reached	5

Yukon **Highways and Public Works**
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.95m
COMPILED BY: TAJ	Complete: 10/16/2017 4:10:00 PM
REVIEWED BY: RWS	Pit #:

SUBSURFACE EXPLORATION AND TEST REPORT	Campbell Highway	SOURCE/TP#: **923-5565**
	Centre Line Testing, km 170-190	PROJECT NO: 552-202104
Solid stem/hollow stem	Coordinates: Z09N N6809863m E463864m	ELEVATION: m

SAMPLE TYPE: UNDISTURBED, DCPT, AUGER, BULK, SPT, CORE



ELEV. (m)	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					Embankment fill	1
		331	SM	8	SAND, silty with gravel -Beige, moist, rounded	2
		332	SM	37	-Damp	3
					-Difficult drilling, grinding	4
		333	SM	89	-Grey, dry	
					END of HOLE -Refusal on tight formation	5

Yukon Highways and Public Works
Transportation Engineering Branch

LOGGED BY: KAE/RWS	Termination Depth: 4.6m
COMPILED BY: TAJ	Complete: 10/16/2017 4:55:00 PM
REVIEWED BY: RWS	Pit #: Page 1 of 1