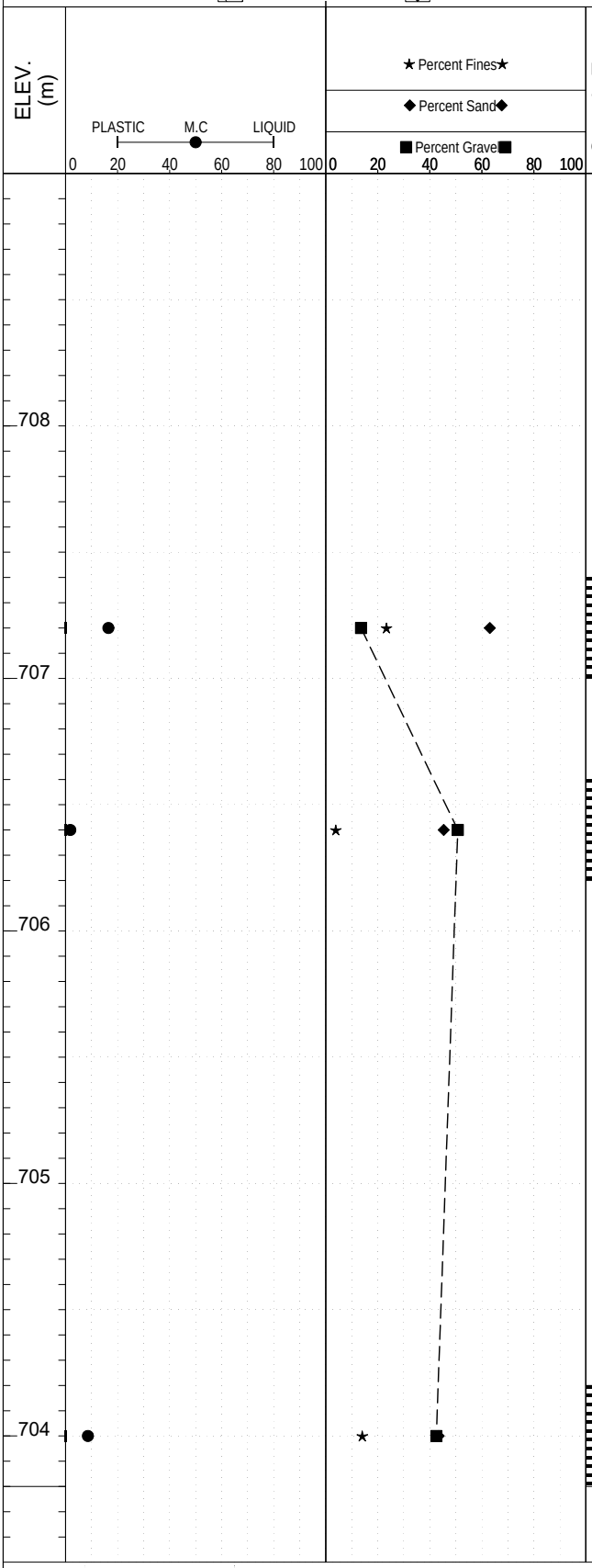
SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 816-4650
Sidhu	Spot Improvement Restoration, 1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates: Z07 V N6883718m E516987m	ELEVATION: 709m

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



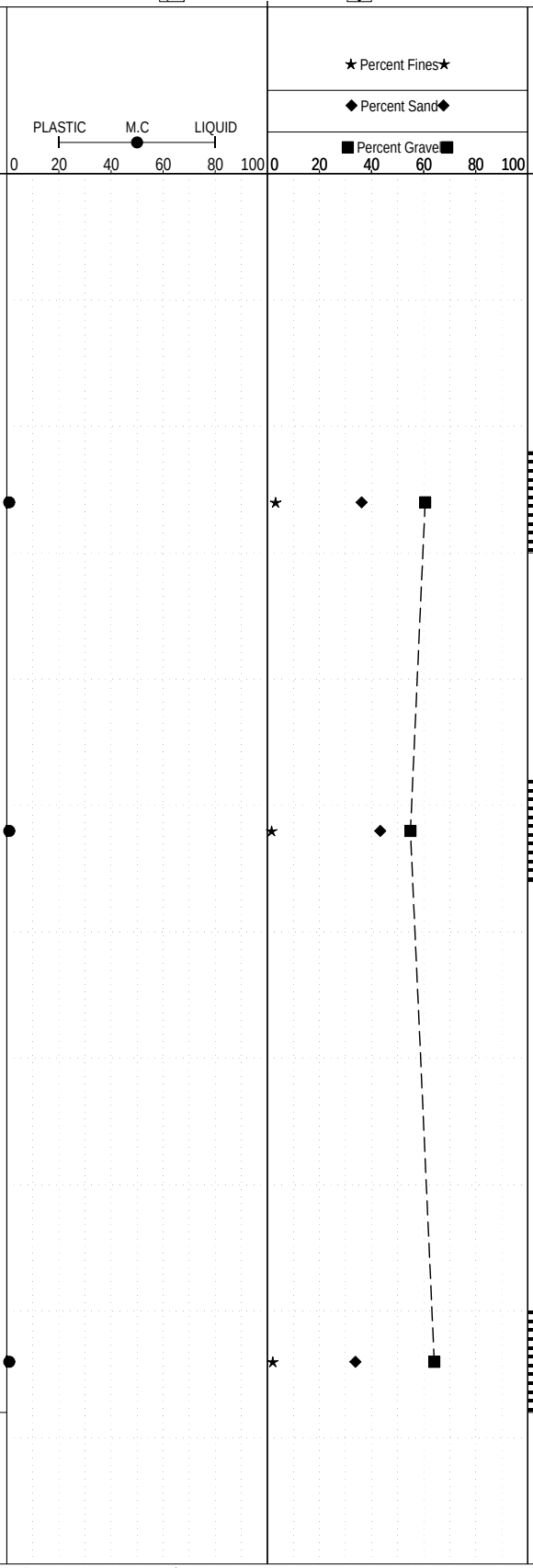
Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
				SILTY SAND -Brown, moderate moisture -Organics/tree stumps present	1
	1	SM			2
				POORLY GRADED GRAVEL with SAND -10% Cobbles	3
	2	GP			4
	3	SM		SILTY SAND with GRAVEL -Light brown -Odd cobble/boulder	5
				END of HOLE	

Yukon — Highways and Public Works, Transportation Engineering Branch

LOGGED BY: Neal S-P/H.Kearns	Termination Depth: 5.2m
COMPILED BY: R.Carveth	Complete: 10/1/2013 2:00:00 PM
REVIEWED BY: M. Idrees	Pit #: 115-k-05 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 816-4651
Sidhu	Spot Improvement Restoration, 1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates: Z07 V N6883615m E517009m	ELEVATION: m

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



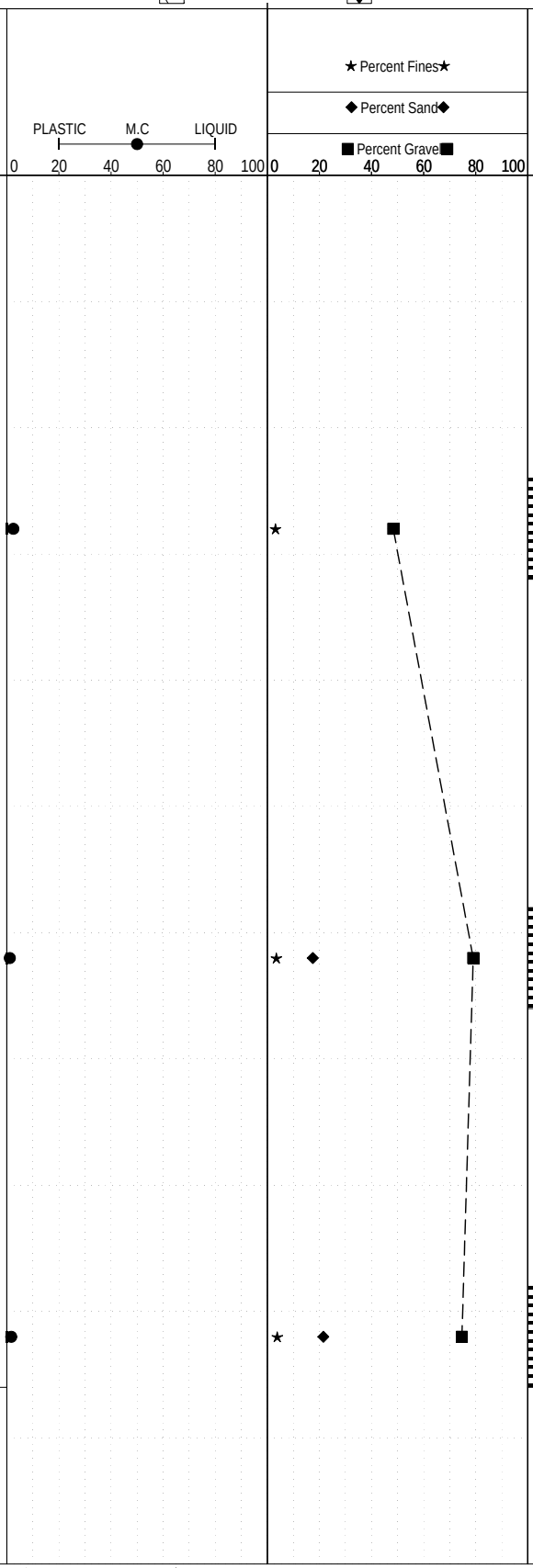
Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
				ORGANICS -Silt, volcanic ash	1
	1	GW		SILTY SAND -10% Cobbles	2
	2	GP		POORLY GRADED GRAVEL with SAND -Cobbles throughout	3
	3	GP		SILTY SAND with GRAVEL -20-25% Cobbles and boulders	4
				END of HOLE	5

Yukon
Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Neal S-P/H.Kearns	Termination Depth: 4.9m
COMPILED BY: R.Carveth	Complete: 10/1/2013 3:00:00 PM
REVIEWED BY: M. Idrees	Pit #: 115-k-05 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 816-4652
Sidhu	Spot Improvement Restoration, 1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates: Z07 V N6883651m E516969m	ELEVATION: m

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



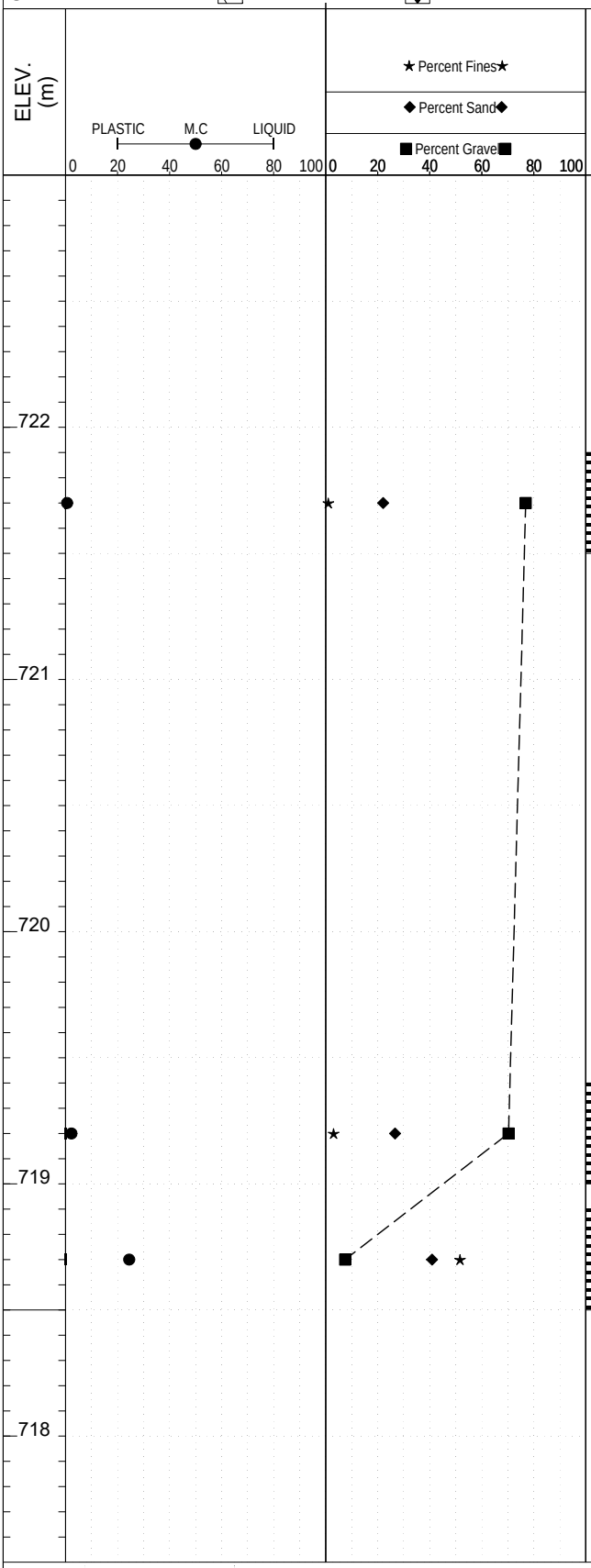
Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
				ORGANICS -Silt/sand, ash, roots	
				POORLY GRADED SAND with GRAVEL -Some cobbles and boulders	1
	1	SP			
				WELL-GRADED GRAVEL with SAND -Odd cobble (<5%)	2
	2	GW			3
				WELL-GRADED GRAVEL with SAND -Cobbles throughout	4
	3	GW			
				END of HOLE	5

Yukon
Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Neal S-P/H.Kearns	Termination Depth: 4.8m
COMPILED BY: R.Carveth	Complete: 10/1/2013 3:15:00 PM
REVIEWED BY: M. Idrees	Pit #: 115-k-05 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 816-4653
Sidhu	Spot Improvement Restoration, 1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates: Z07 V N6883912m E516794m	ELEVATION: 723m

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



Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
				GRUBBING	
				POORLY GRADED GRAVEL with SAND -Frozen (-0.3 deg C) -Hard digging	1
	1	GP			2
				Loose, not frozen (0.08 deg C) -Easier digging	3
	2	GW		WELL-GRADED GRAVEL with SAND -0.9 deg C -Some cobbles and boulders	4
	3	ML		SANDY SILT -1.3 deg C	
				END of HOLE	5

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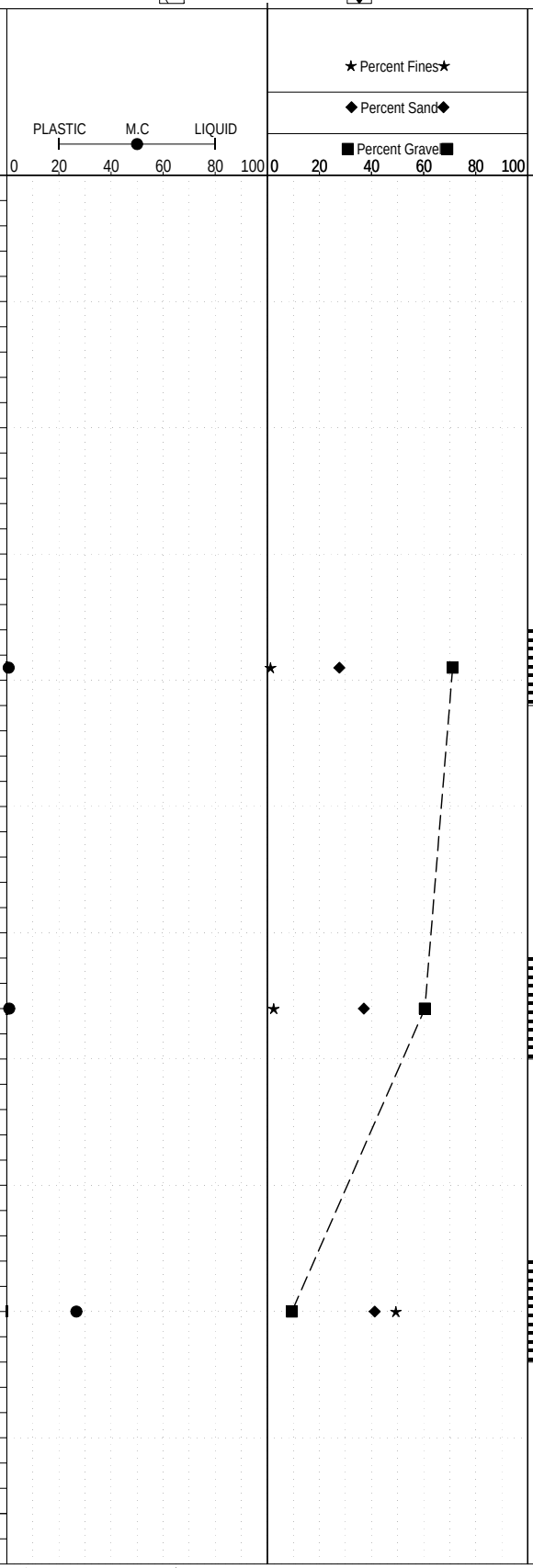
Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Neal S-P/H.Kearns	Termination Depth: 4.5m
COMPILED BY: R.Carveth	Complete: 10/1/2013 5:00:00 PM
REVIEWED BY: M. Idrees	Pit #: 115-k-05 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 816-4654
Sidhu	Spot Improvement Restoration, 1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates: Z07 V N6883918m E516697m	ELEVATION: 719m

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



Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
				ORGANICS -Thawed top of moss	1
				CLAY/SILT -Frost, 0.16 deg C -Hard digging	
	1	GW		WELL-GRADED GRAVEL with SAND -Very loose, no frost (0.8 deg C) -Odd cobble, boulder	2
	2	GP		POORLY GRADED GRAVEL with SAND -Very loose, 1.4 deg C -Some cobbles/boulders	3
	3	SM		SILTY SAND -Red brown, 2.1 deg C -Easy digging	4
					5
				END of HOLE	

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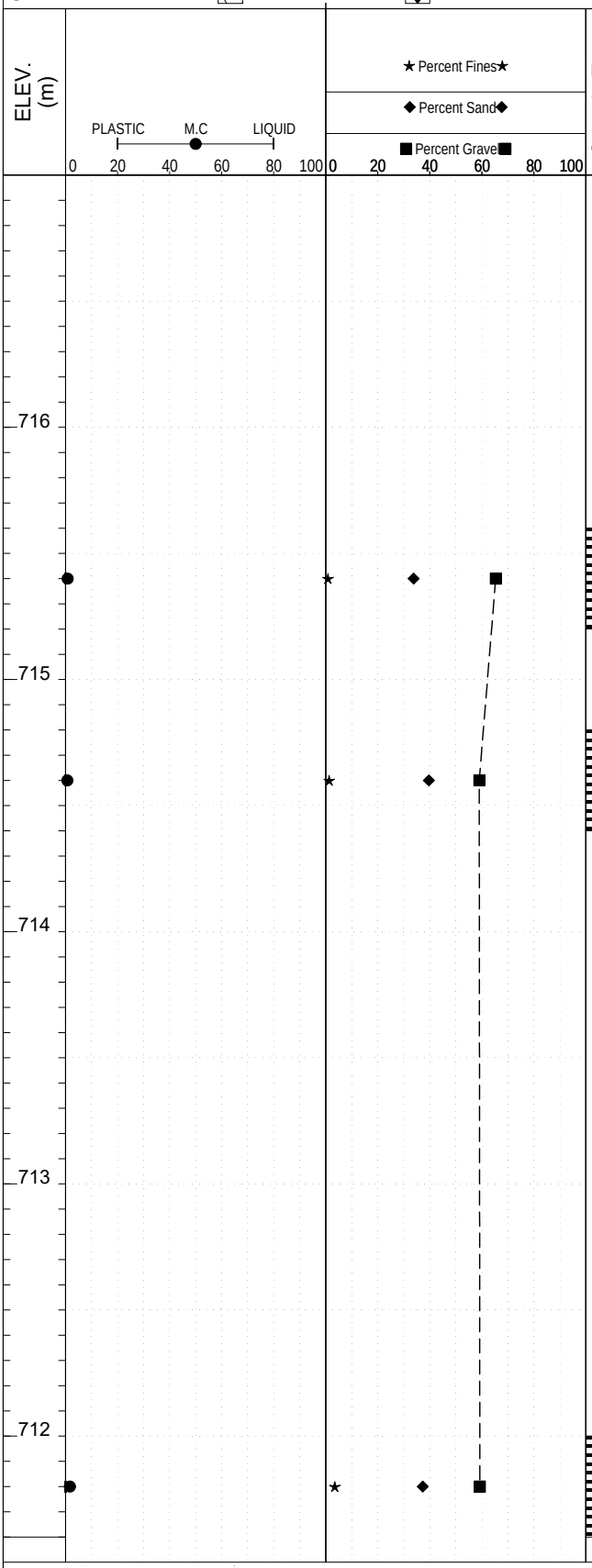
LOGGED BY: Neal S-P/H.Kearns	Termination Depth: 5.3m
COMPILED BY: R.Carveth	Complete: 10/1/2013
REVIEWED BY: M. Idrees	Pit #: 115-k-05 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 816-4655
Sidhu	Spot Improvement Restoration, 1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates: Z07 V N6883768m E516789m	ELEVATION: 717m

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



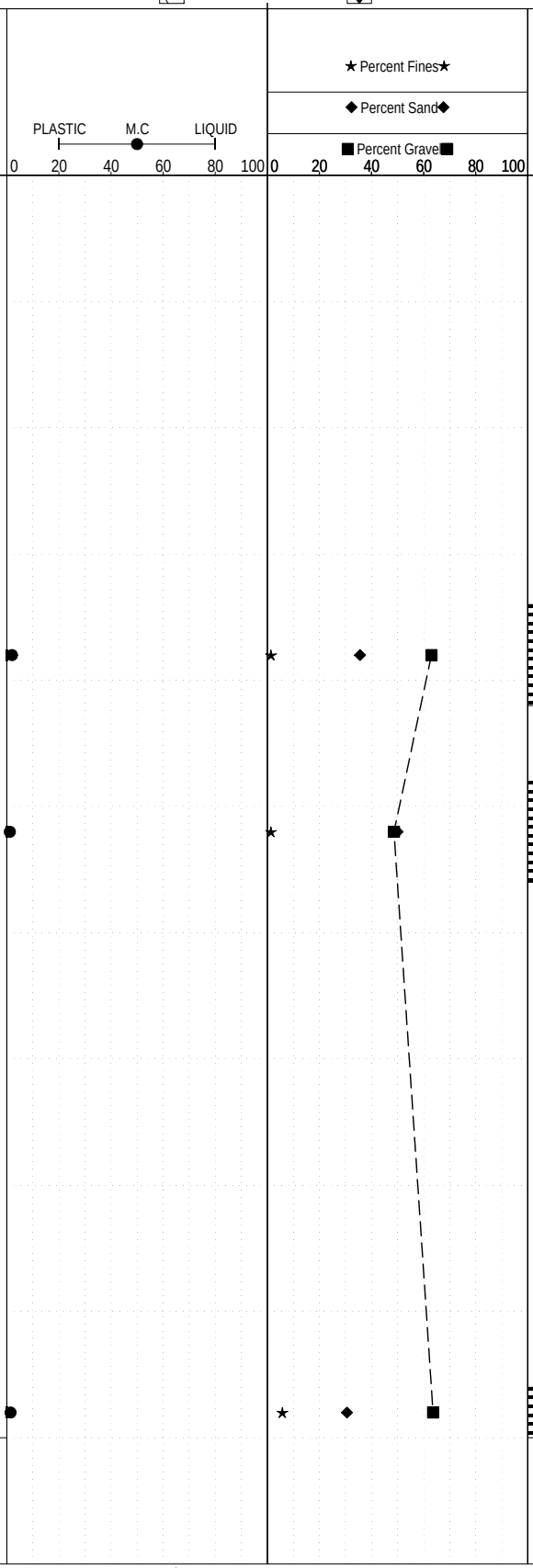
Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
				ORGANICS -Moss, grubbing	
				WELL-GRADED GRAVEL with SAND -Loose	1
	1	GW		-Not frozen -Odd cobble	2
	2	GW		-Some cobbles and boulders	3
	3	GP		POORLY GRADED GRAVEL with SAND -Lots of cobbles, odd boulder	4
				END of HOLE	5

Yukon
Highways and Public Works
Transportation Engineering Branch

LOGGED BY: Neal S-P/H.Kearns	Termination Depth: 5.4m
COMPILED BY: R.Carveth	Complete: 10/2/2013 10:30:00 AM
REVIEWED BY: M. Idrees	Pit #: 115-k-05 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 816-4656
Sidhu	Spot Improvement Restoration, 1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates: Z07 V N6883767m E516698m	ELEVATION: m

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



Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
				GRUBBING	
				SILT	1
	1	GP		WELL-GRADED GRAVEL with SAND -Very loose	2
	2	SP		POORLY GRADED SAND with GRAVEL -Very loose -Some cobbles, odd boulder	3
	3	GW-GM		POORLY GRADED GRAVEL with SAND -Cobbles and boulders throughout	4
				END of HOLE	5

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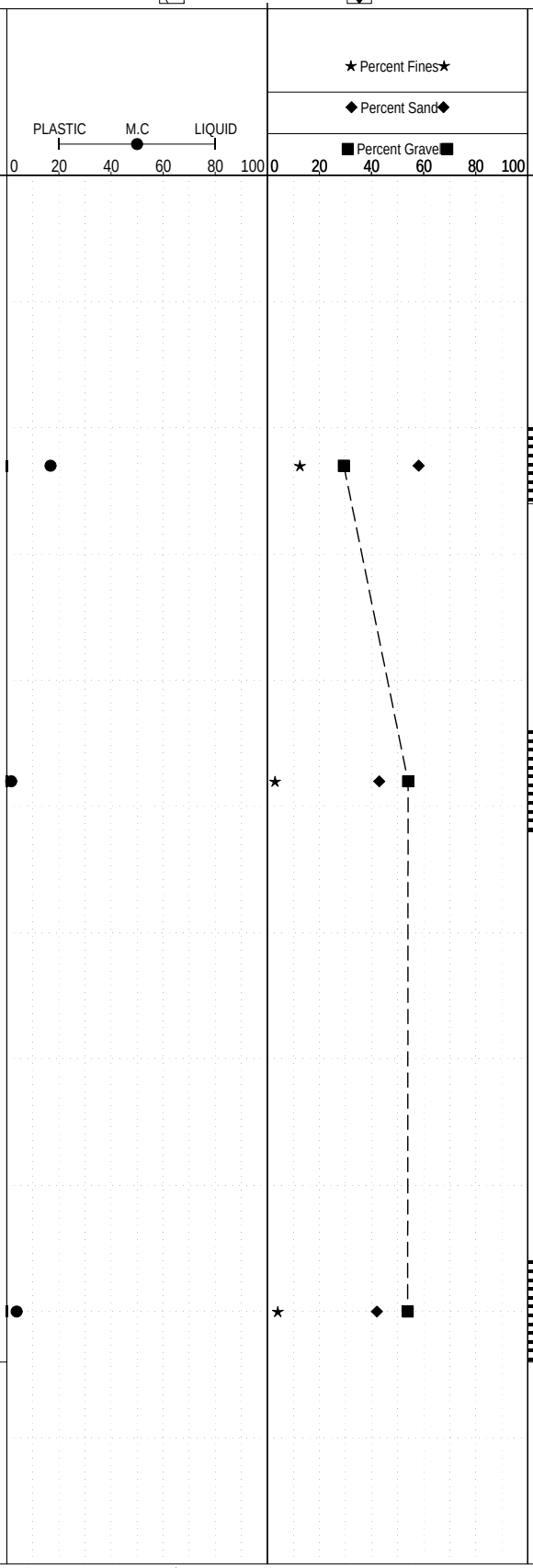
LOGGED BY: Neal S-P/H.Kearns	Termination Depth: 5m
COMPILED BY: R.Carveth	Complete: 10/2/2013 11:00:00 AM
REVIEWED BY: M. Idrees	Pit #: 115-k-05 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 816-4657
Sidhu	Spot Improvement Restoration, 1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates: Z07 V N6883787m E516905m	ELEVATION: m

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



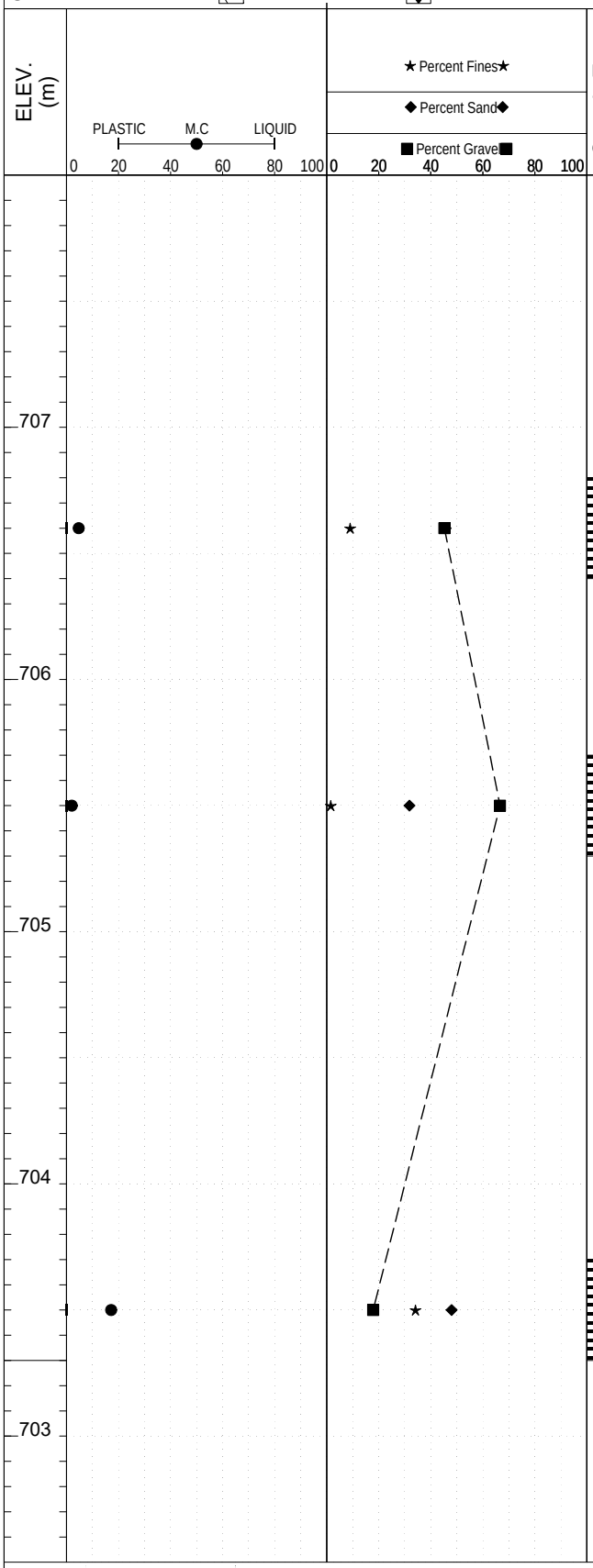
Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
				SILTY SAND with GRAVEL -Frozen, -0.03 deg C	1
	1	SM			
				WELL-GRADED GRAVEL with SAND -Not frozen, 1.4 deg C -Cobbles	2
	2	GW			3
	3	GW			4
				END of HOLE	5

Yukon — Highways and Public Works, Transportation Engineering Branch

LOGGED BY: Neal S-P/H.Kearns	Termination Depth: 4.7m
COMPILED BY: R.Carveth	Complete: 10/2/2013 11:30:00 AM
REVIEWED BY: M. Idrees	Pit #: 115-k-05 Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT	Alaska Highway	SOURCE/TP#: 816-4658
Sidhu	Spot Improvement Restoration, 1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates: Z07 V N6883835m E516990m	ELEVATION: 708m

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



Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
				GRAVEL with SILT -Very hard digging	
				WELL-GRADED SAND with SILT and GRAVEL -Somewhat hard digging	1
	1	SW-SM			2
				WELL-GRADED GRAVEL with SAND -Somewhat hard digging	
	2	GW			3
					4
				SILTY SAND with GRAVEL -Rust brown colour	
	3	SM			5
				END of HOLE	

Yukon
Highways and Public Works
Transportation Engineering Branch

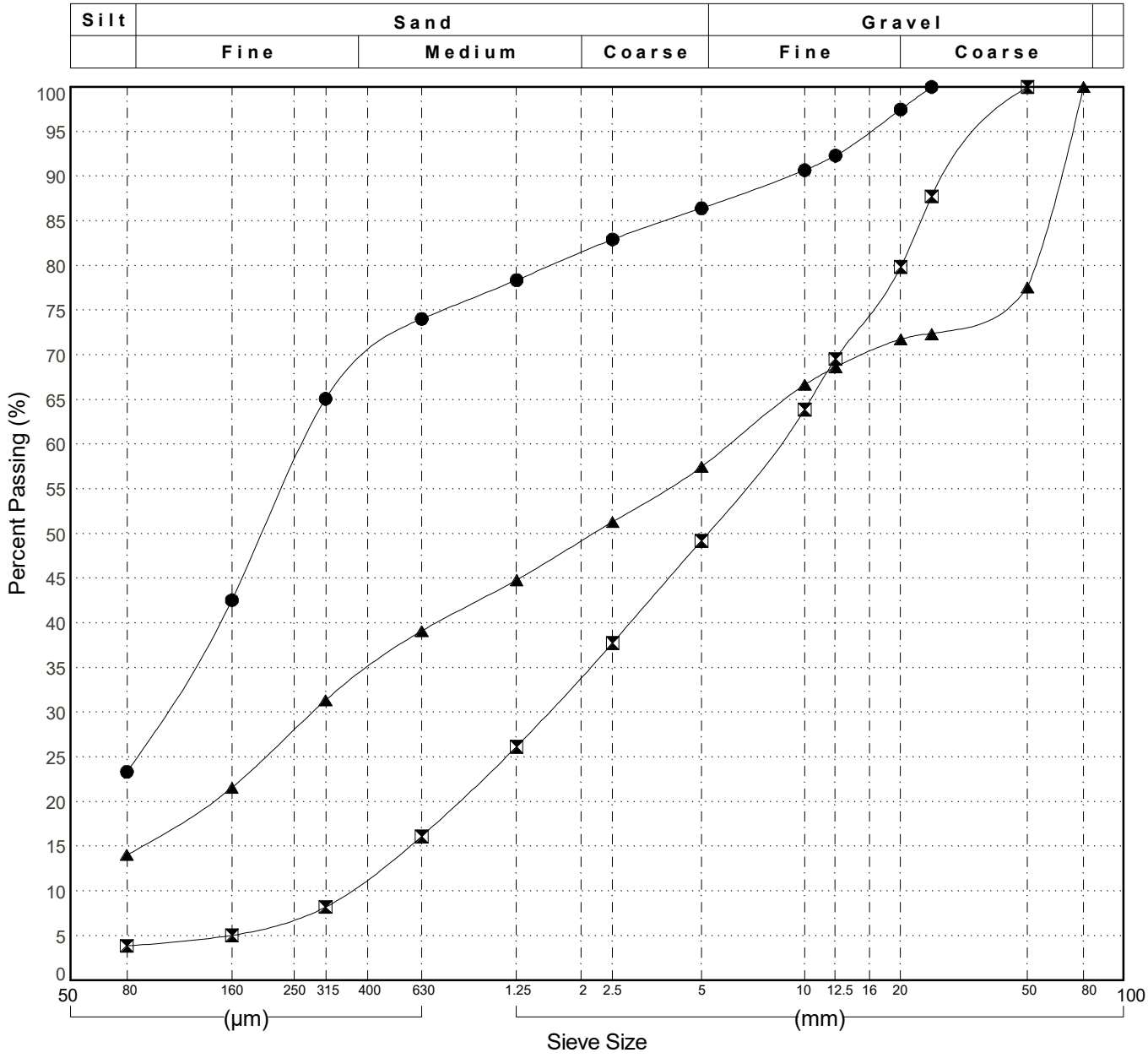
LOGGED BY: Neal S-P/H.Kearns	Termination Depth: 4.7m
COMPILED BY: R.Carveth	Complete: 10/2/2013
REVIEWED BY: M. Idrees	Pit #: 115-k-05 Page 1 of 1

GRAIN SIZE ANALYSIS	Spot Improvement Restoration	SOURCE/TP#: **816-4650**
Sidhu	1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates:Z07 V N6883718m E516987m	ELEVATION: 709m

Master Revised June 2017

	Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
●	1	1036	1.6 to 2.0	SILTY SAND(SM)	**16.5**	NP	NP	NP			
⊠	2	1037	2.4 to 2.8	POORLY GRADED GRAVEL with SAND(GP)	**1.8**	NP	NP	NP	0.8	22.3	0.368
▲	3	1038	4.8 to 5.2	SILTY SAND with GRAVEL(SM)	**8.6**	NP	NP	NP			

	Field #	Lab #		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown Gravel	Sand	Silt	Clay
●	1	1036	% PASSING	100.0	100.0	100.0	100.0	97.5	92.3	90.7	86.4	82.9	78.4	74.0	65.1	42.6	23.3	**13.6**	**63.1**	**23.3**	
⊠	2	1037		100.0	100.0	100.0	87.7	79.9	69.6	63.9	49.2	37.8	26.2	16.1	8.2	5.0	3.9	**50.8**	**45.3**	**3.9**	
▲	3	1038		100.0	100.0	77.6	72.3	71.7	68.6	66.7	57.5	51.3	44.8	39.1	31.4	21.6	14.0	**42.5**	**43.4**	**14.0**	



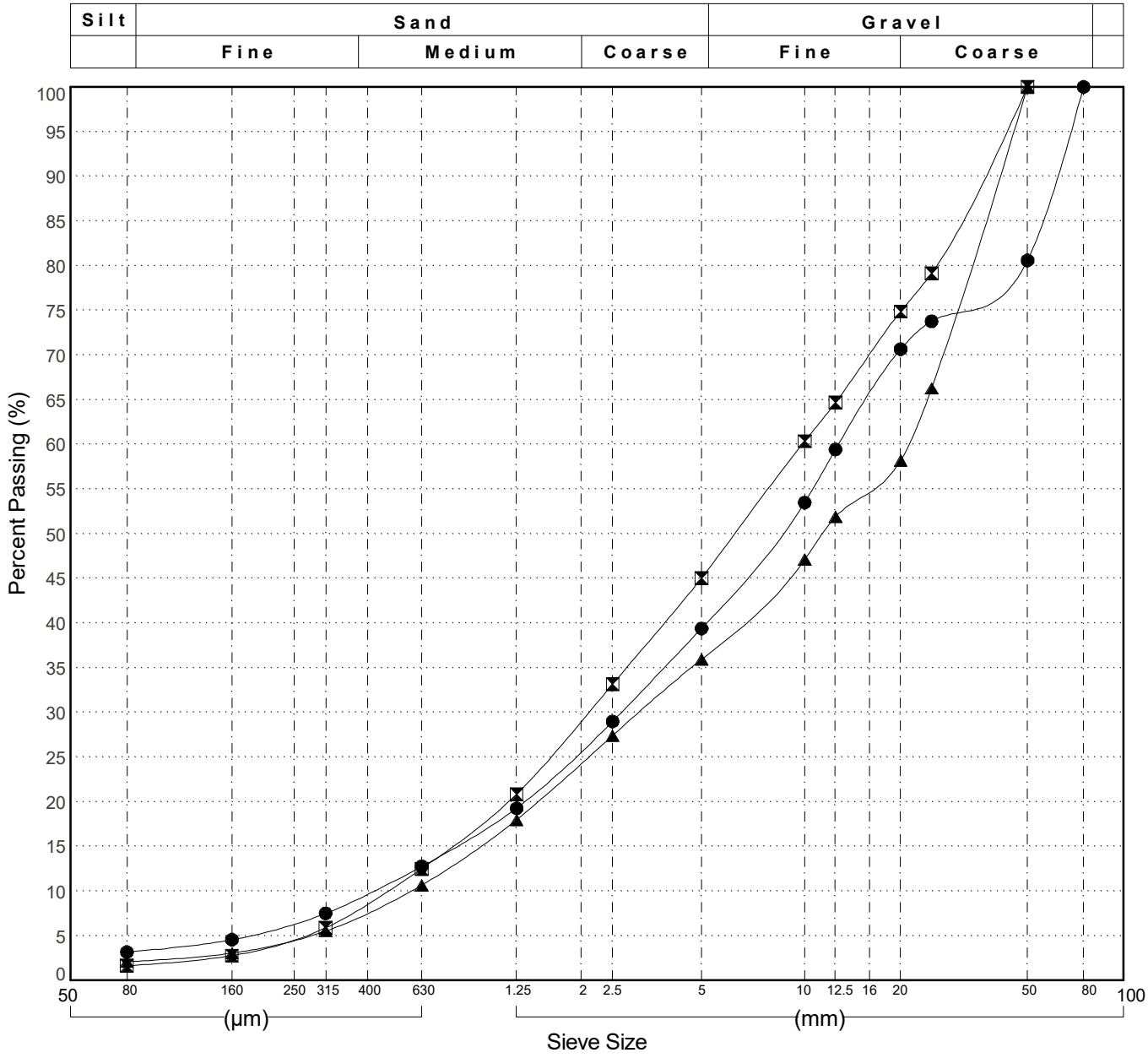
Highways and Public Works **Transportation Engineering Branch**	LOGGED BY: Neal S-P/H.Kearns	Pit #: 115-k-05
	COMPILED BY: R.Carveth	Complete: 10/1/2013 2:00:00 PM
	REVIEWED BY: M. Idrees	Page 1 of 1

GRAIN SIZE ANALYSIS	Spot Improvement Restoration	SOURCE/TP#: **816-4651**
Sidhu	1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates:Z07 V N6883615m E517009m	ELEVATION: m

Master Revised June 2017

	Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
●	1	1039	1.1 to 1.5	WELL-GRADED GRAVEL with SAND(GW)	**0.9**	NP	NP	NP	1.3	29.2	0.438
⊠	2	1040	2.4 to 2.8	POORLY GRADED GRAVEL with SAND(GP)	**1.0**	NP	NP	NP	0.9	20.3	0.485
▲	3	1041	4.5 to 4.9	POORLY GRADED GRAVEL with SAND(GP)	**0.9**	NP	NP	NP	0.8	36.5	0.577

	Field #	Lab #		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown Gravel	Sand	Silt	Clay
●	1	1039	% PASSING	100.0	100.0	80.6	73.8	70.7	59.4	53.5	39.4	29.0	19.3	12.8	7.5	4.6	3.2	**60.6**	**36.2**	**3.2**	
⊠	2	1040		100.0	100.0	100.0	79.1	74.9	64.7	60.4	45.0	33.2	20.8	12.5	5.9	2.8	1.6	**55.0**	**43.4**	**1.6**	
▲	3	1041		100.0	100.0	100.0	66.3	58.2	51.9	47.1	35.9	27.4	18.0	10.7	5.5	3.0	2.1	**64.1**	**33.8**	**2.1**	



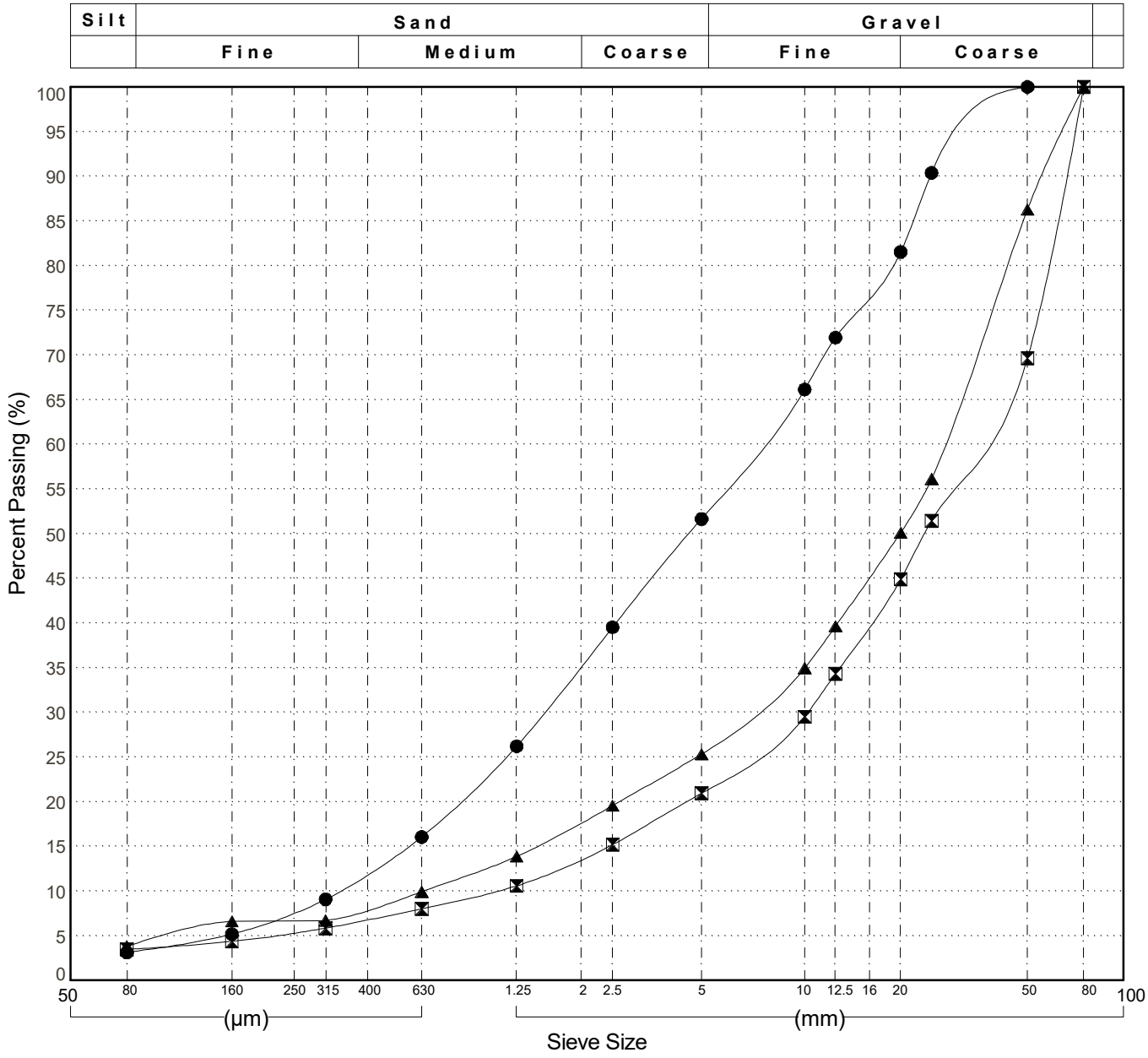
Yukon **Highways and Public Works** **Transportation Engineering Branch**	LOGGED BY: Neal S-P/H.Kearns	Pit #: 115-k-05
	COMPILED BY: R.Carveth	Complete: 10/1/2013 3:00:00 PM
	REVIEWED BY: M. Idrees	Page 1 of 1

GRAIN SIZE ANALYSIS	Spot Improvement Restoration	SOURCE/TP#: **816-4652**
Sidhu	1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates:Z07 V N6883651m E516969m	ELEVATION: m

Master Revised June 2017

	Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
●	1	1042	1.2 to 1.6	POORLY GRADED SAND with GRAVEL(SP)	**2.5**	NP	NP	NP	0.9	21.1	0.345
⊠	2	1043	2.9 to 3.3	WELL-GRADED GRAVEL with SAND(GW)	**1.1**	NP	NP	NP	2.8	32.4	1.070
▲	3	1044	4.4 to 4.8	WELL-GRADED GRAVEL with SAND(GW)	**1.7**	NP	NP	NP	2.7	42.9	0.638

	Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown Gravel	Sand	Silt	Clay
●	1	1042		100.0	100.0	100.0	90.4	81.5	72.0	66.1	51.6	39.5	26.2	16.1	9.1	5.2	3.1	**48.4**	**48.5**	**3.1**	
⊠	2	1043		100.0	100.0	69.6	51.4	44.9	34.3	29.5	20.9	15.2	10.6	8.0	5.8	4.4	3.5	**79.1**	**17.5**	**3.5**	
▲	3	1044		100.0	100.0	86.3	56.1	50.1	39.6	35.0	25.3	19.6	13.9	9.9	6.7	6.6	3.8	**74.7**	**21.5**	**3.8**	



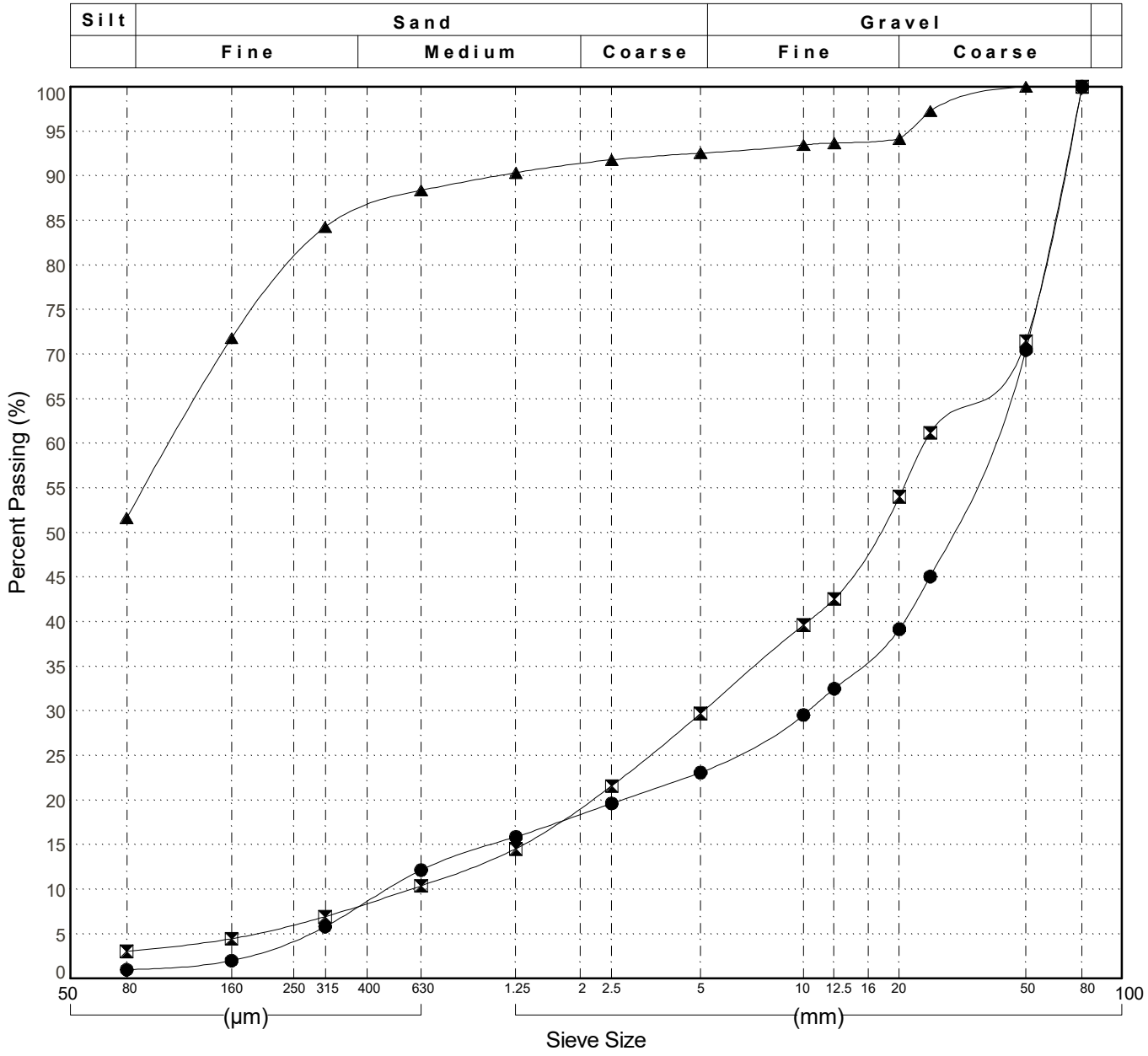
Yukon **Highways and Public Works Transportation Engineering Branch**	LOGGED BY: Neal S-P/H.Kearns	Pit #: 115-k-05
	COMPILED BY: R.Carveth	Complete: 10/1/2013 3:15:00 PM
	REVIEWED BY: M. Idrees	Page 1 of 1

GRAIN SIZE ANALYSIS	Spot Improvement Restoration	SOURCE/TP#: **816-4653**
Sidhu	1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates:Z07 V N6883912m E516794m	ELEVATION: 723m

Master Revised June 2017

	Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
●	1	1045	1.1 to 1.5	POORLY GRADED GRAVEL with SAND(GP)	**0.6**	NP	NP	NP	5.7	75.6	0.497
⊠	2	1046	3.6 to 4.4	WELL-GRADED GRAVEL with SAND(GW)	**2.3**	NP	NP	NP	1.7	41.4	0.582
▲	3	1047	4.1 to 4.5	SANDY SILT(ML)	**24.5**	NP	NP	NP			

	Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown Gravel	Sand	Silt	Clay
●	1	1045		100.0	100.0	70.5	45.1	39.2	32.5	29.6	23.1	19.6	15.9	12.2	5.8	2.0	1.0	**76.9**	**22.1**	**1.0**	
⊠	2	1046		100.0	100.0	71.5	61.2	54.0	42.6	39.7	29.7	21.6	14.6	10.4	6.9	4.5	3.0	**70.3**	**26.7**	**3.0**	
▲	3	1047		100.0	100.0	100.0	97.3	94.2	93.7	93.5	92.5	91.8	90.4	88.4	84.3	71.8	51.6	**7.5**	**40.9**	**51.6**	



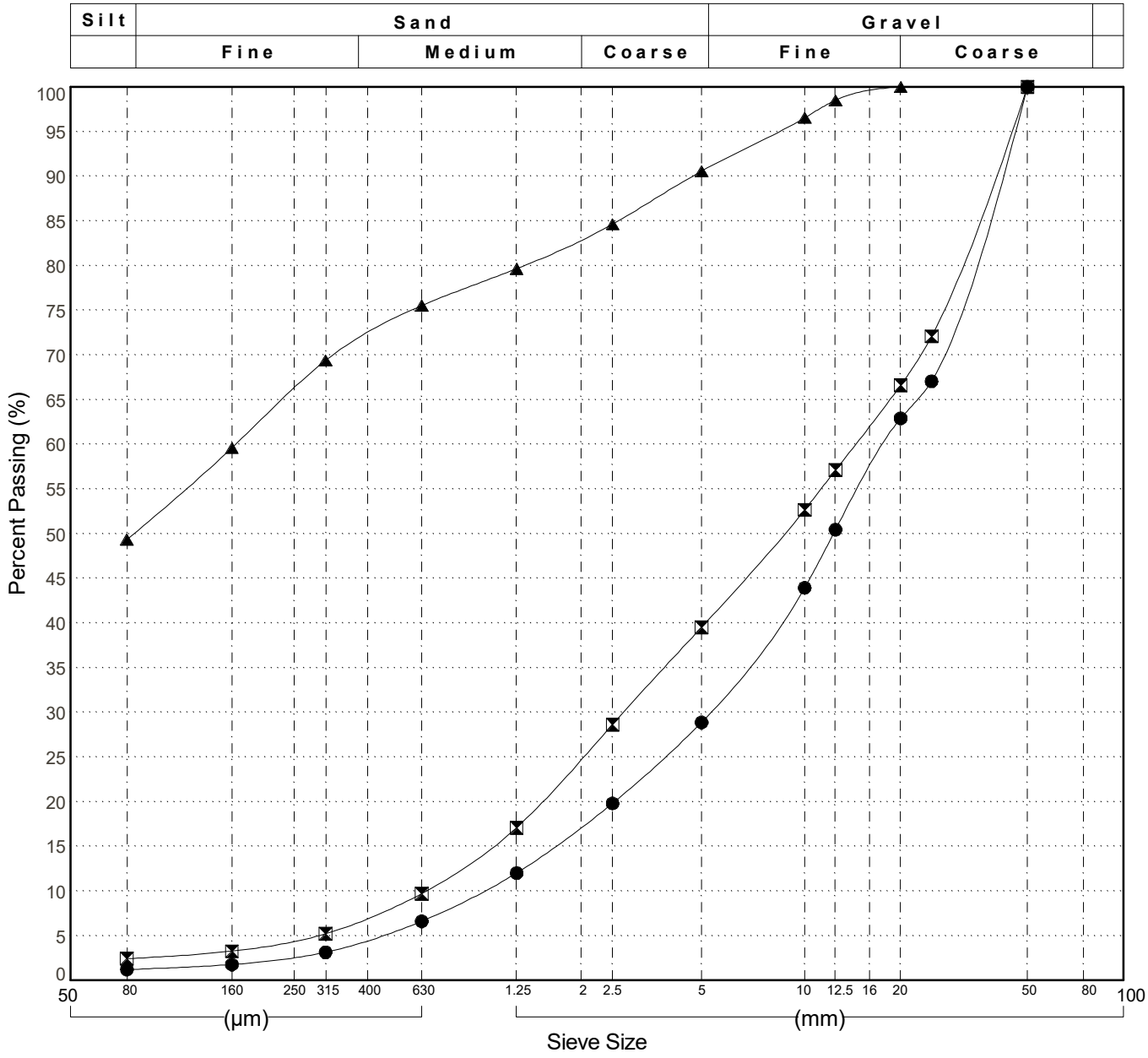
Highways and Public Works **Transportation Engineering Branch**	LOGGED BY: Neal S-P/H.Kearns	Pit #: 115-k-05
	COMPILED BY: R.Carveth	Complete: 10/1/2013 5:00:00 PM
	REVIEWED BY: M. Idrees	Page 1 of 1

GRAIN SIZE ANALYSIS	Spot Improvement Restoration	SOURCE/TP#: **816-4654**
Sidhu	1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates:Z07 V N6883918m E516697m	ELEVATION: 719m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 1	1048	1.8 to 2.1	WELL-GRADED GRAVEL with SAND(GW)	**0.7**	NP	NP	NP	1.5	18.5	0.967
⊠ 2	1049	3.1 to 3.5	POORLY GRADED GRAVEL with SAND(GP)	**0.9**	NP	NP	NP	0.8	22.3	0.647
▲ 3	1050	4.3 to 4.7	SILTY SAND(SM)	**26.7**	NP	NP	NP			

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown Gravel	Sand	Silt	Clay
● 1	1048		100.0	100.0	100.0	67.1	62.9	50.4	43.9	28.9	19.8	12.0	6.6	3.1	1.8	1.2	**71.1**	**27.7**	**1.2**	
⊠ 2	1049		100.0	100.0	100.0	72.1	66.6	57.1	52.7	39.5	28.7	17.1	9.7	5.2	3.3	2.4	**60.5**	**37.1**	**2.4**	
▲ 3	1050		100.0	100.0	100.0	100.0	100.0	98.5	96.5	90.6	84.6	79.6	75.5	69.4	59.6	49.3	**9.4**	**41.2**	**49.3**	



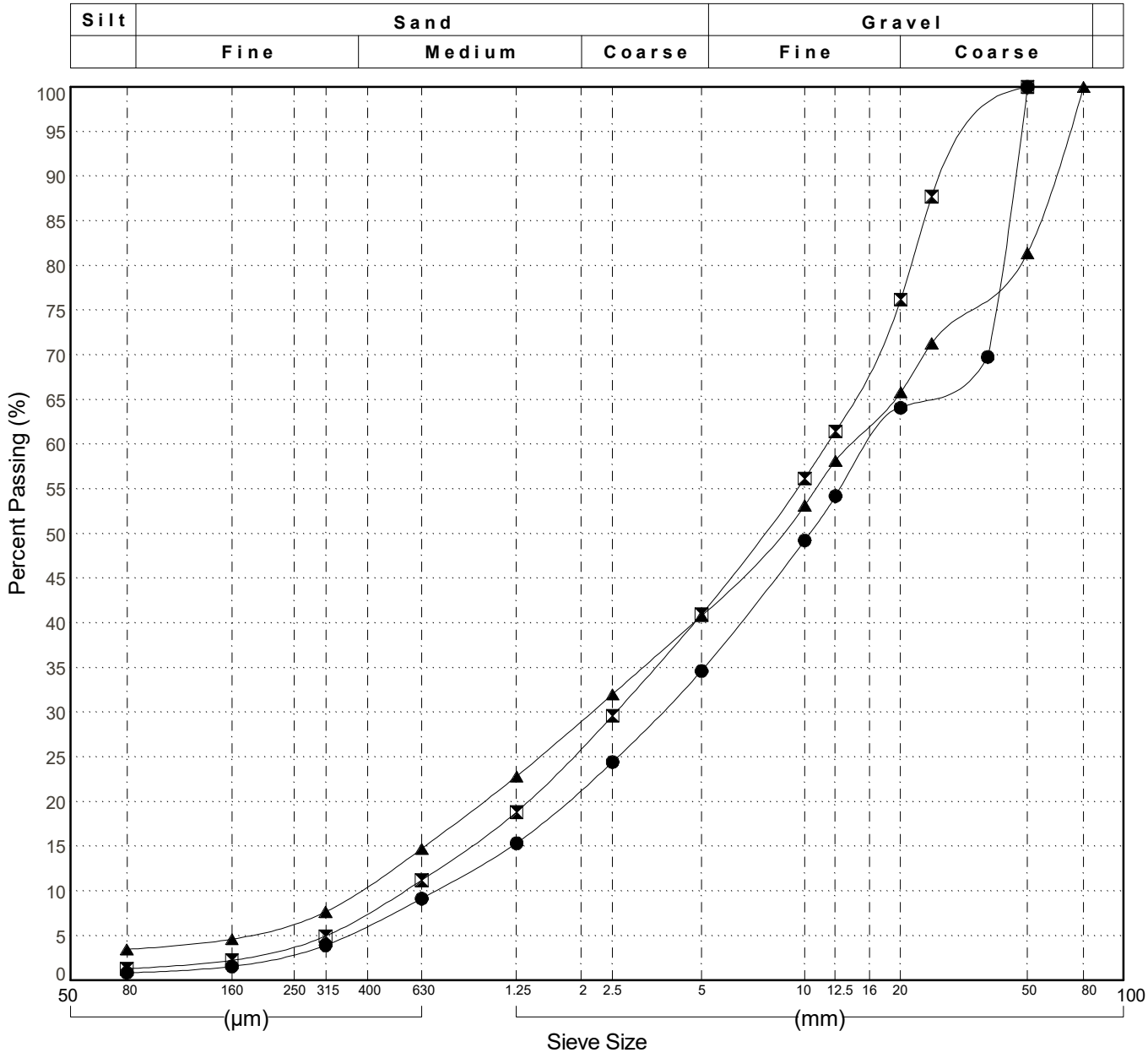
Highways and Public Works **Transportation Engineering Branch**	LOGGED BY: Neal S-P/H.Kearns	Pit #: 115-k-05
	COMPILED BY: R.Carveth	Complete: 10/1/2013
	REVIEWED BY: M. Idrees	Page 1 of 1

GRAIN SIZE ANALYSIS	Spot Improvement Restoration	SOURCE/TP#: **816-4655**
Sidhu	1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates:Z07 V N6883768m E516789m	ELEVATION: 717m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 1	1051	1.4 to 1.8	WELL-GRADED GRAVEL with SAND(GW)	**0.8**	NP	NP	NP	1.1	23.8	0.691
⊠ 2	1052	2.2 to 2.6	WELL-GRADED GRAVEL with SAND(GW)	**0.7**	NP	NP	NP	1.0	21.3	0.551
▲ 3	1053	5.0 to 5.4	POORLY GRADED GRAVEL with SAND(GP)	**1.7**	NP	NP	NP	0.8	35.4	0.395

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown Gravel	Sand	Silt	Clay
● 1	1051		100.0	100.0	100.0	66.1	64.1	54.2	49.2	34.6	24.4	15.4	9.2	3.9	1.6	0.9	**65.4**	**33.8**	**0.9**	
⊠ 2	1052		100.0	100.0	100.0	87.7	76.2	61.4	56.2	41.0	29.6	18.8	11.2	5.0	2.3	1.3	**59.0**	**39.7**	**1.3**	
▲ 3	1053		100.0	100.0	81.4	71.3	65.8	58.2	53.2	40.8	32.0	22.8	14.7	7.7	4.6	3.5	**59.2**	**37.3**	**3.5**	



Yukon Highways and Public Works Transportation Engineering Branch	LOGGED BY: Neal S-P/H.Kearns	Pit #: 115-k-05
	COMPILED BY: R.Carveth	Complete: 10/2/2013 10:30:00 AM
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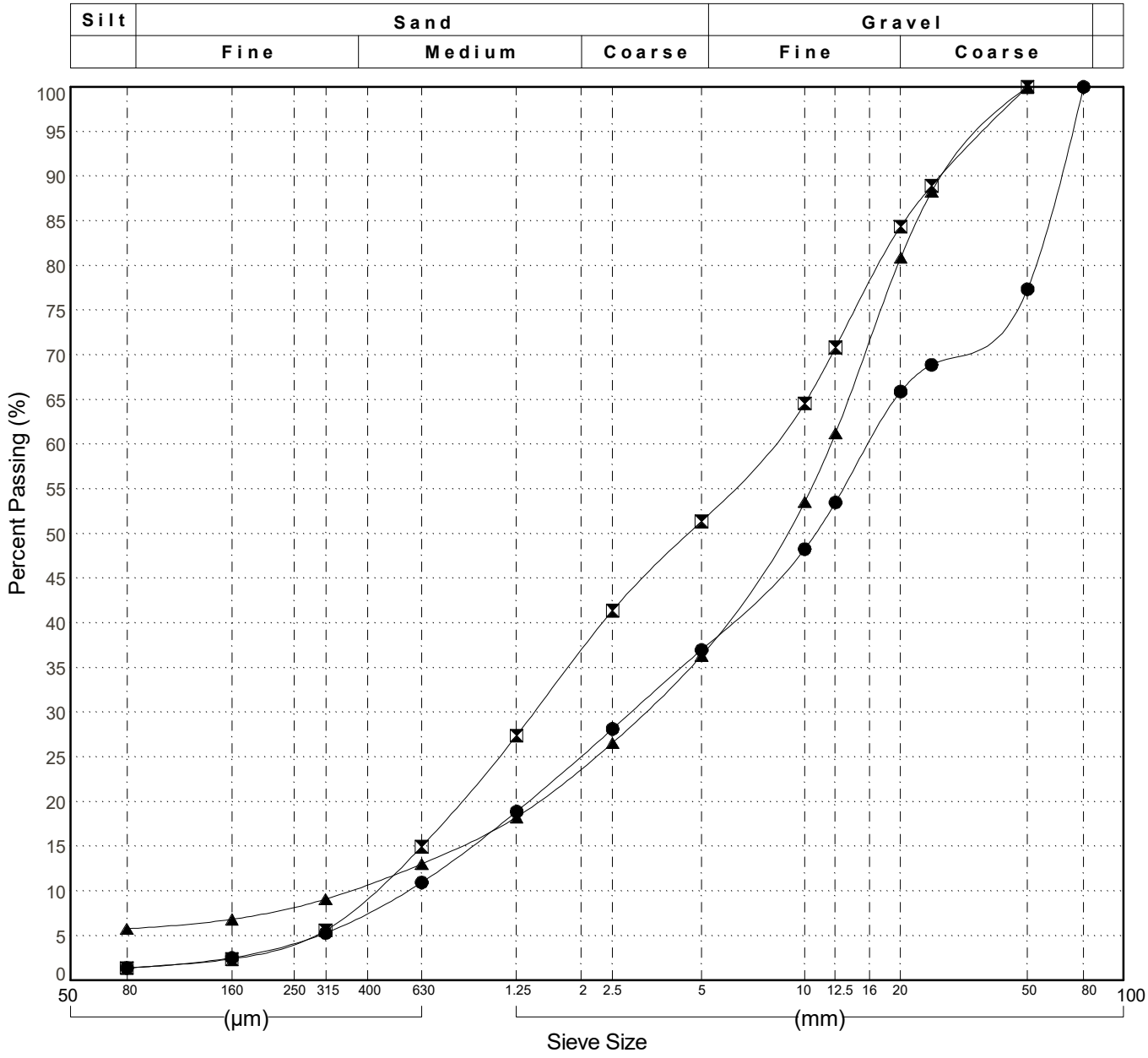
GRAIN SIZE ANALYSIS	Spot Improvement Restoration	SOURCE/TP#: **816-4656**
Sidhu	1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates:Z07 V N6883767m E516698m	ELEVATION: m

Master Revised June 2017

	Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
●	1	1054	1.7 to 2.1	POORLY GRADED GRAVEL with SAND(GP)	**2.0**	NP	NP	NP	0.9	28.6	0.560
⊠	2	1055	2.4 to 2.8	POORLY GRADED SAND with GRAVEL(SP)	**1.2**	NP	NP	NP	0.6	17.7	0.436
▲	3	1056	4.8 to 5.0	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	**1.5**	NP	NP	NP	2.2	32.7	0.369

	Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown Gravel	Sand	Silt	Clay
●	1	1054		100.0	100.0	77.4	68.9	65.9	53.5	48.3	37.0	28.1	18.9	11.0	5.3	2.5	1.4	**63.0**	**35.6**	**1.4**	
⊠	2	1055		100.0	100.0	100.0	88.9	84.4	70.8	64.6	51.4	41.4	27.4	15.0	5.6	2.4	1.4	**48.6**	**50.0**	**1.4**	
▲	3	1056		100.0	100.0	100.0	88.3	80.9	61.2	53.5	36.3	26.6	18.3	13.0	9.1	6.8	5.8	**63.7**	**30.6**	**5.8**	



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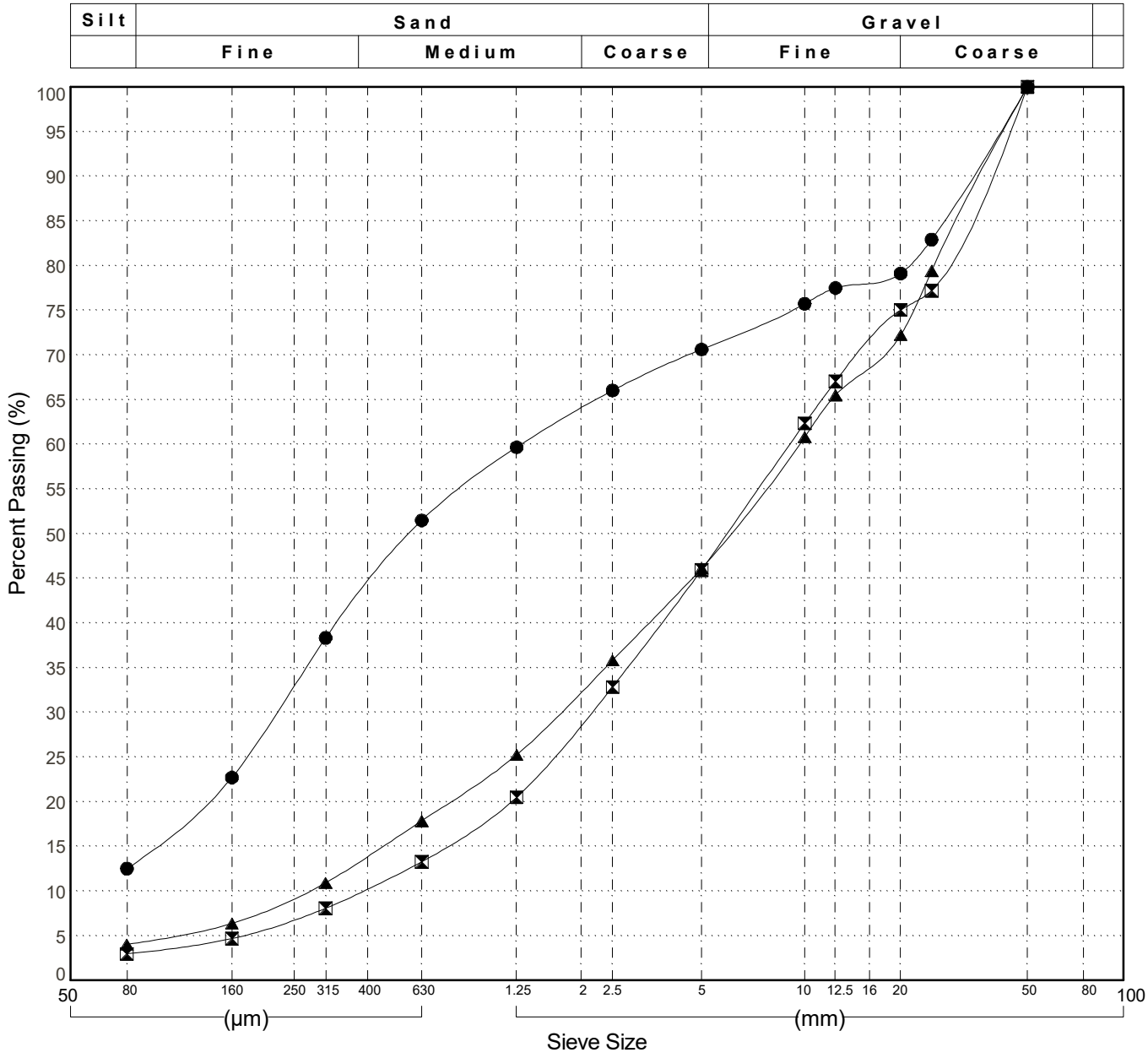
	REVIEWED BY: M. Idrees	Page 1 of 1

GRAIN SIZE ANALYSIS	Spot Improvement Restoration	SOURCE/TP#: **816-4657**
Sidhu	1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates:Z07 V N6883787m E516905m	ELEVATION: m

Master Revised June 2017

	Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
●	1	1057	1.0 to 1.3	SILTY SAND with GRAVEL(SM)	**16.8**	NP	NP	NP			
⊠	2	1058	2.2 to 2.6	WELL-GRADED GRAVEL with SAND(GW)	**1.7**	NP	NP	NP	1.2	22.1	0.407
▲	3	1059	4.3 to 4.7	WELL-GRADED GRAVEL with SAND(GW)	**3.8**	NP	NP	NP	1.1	35.0	0.274

	Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown Gravel	Sand	Silt	Clay
●	1	1057		100.0	100.0	100.0	82.9	79.1	77.5	75.7	70.6	66.0	59.7	51.5	38.3	22.7	12.5	**29.4**	**58.1**	**12.5**	
⊠	2	1058		100.0	100.0	100.0	77.2	75.0	67.0	62.4	45.9	32.8	20.5	13.3	8.1	4.7	3.0	**54.1**	**43.0**	**3.0**	
▲	3	1059		100.0	100.0	100.0	79.4	72.2	65.5	60.8	46.1	35.8	25.2	17.9	10.9	6.4	4.0	**53.9**	**42.1**	**4.0**	



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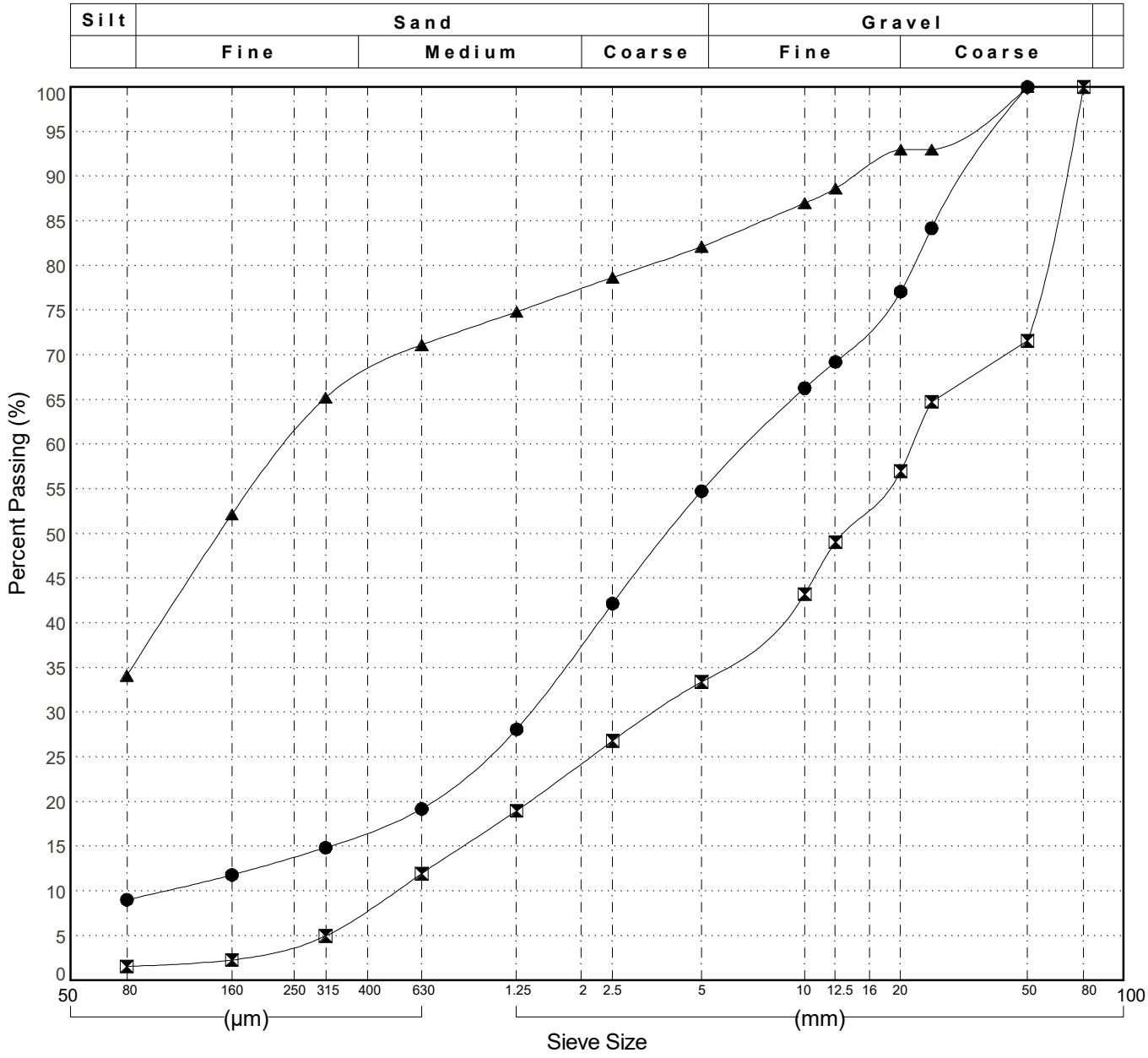
GRAIN SIZE ANALYSIS	Spot Improvement Restoration	SOURCE/TP#: **816-4658**
Sidhu	1832.3 LHS	PROJECT NO: 552-202101-0351-1-2
Excavator - undefined	Coordinates:Z07 V N6883835m E516990m	ELEVATION: 708m

Master Revised June 2017

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu	D10
● 1	1060	1.2 to 1.6	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	**4.7**	NP	NP	NP	2.9	68.2	0.098
⊠ 2	1061	2.3 to 2.7	WELL-GRADED GRAVEL with SAND(GW)	**2.0**	NP	NP	NP	1.0	42.0	0.519
▲ 3	1062	4.3 to 4.7	SILTY SAND with GRAVEL(SM)	**17.2**	NP	NP	NP			

Field #	Lab #	% PASSING	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	%Breakdown Gravel	Sand	Silt	Clay
● 1	1060		100.0	100.0	100.0	84.2	77.1	69.2	66.3	54.8	42.2	28.1	19.2	14.9	11.8	9.0	**45.2**	**45.7**	**9.0**	
⊠ 2	1061		100.0	100.0	71.6	64.8	57.0	49.0	43.2	33.4	26.8	19.0	11.9	5.0	2.3	1.6	**66.6**	**31.8**	**1.6**	
▲ 3	1062		100.0	100.0	100.0	93.0	93.0	88.6	87.0	82.1	78.7	74.8	71.1	65.2	52.2	34.1	**17.9**	**48.0**	**34.1**	



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816-4650 Test pit

816-4650 Sample Piles

816-4651 Sample Piles

816-4651 Test Pit

816-4652 Test pit

816-4652 Sample Piles

816-4653 Sample Piles

816-4653 Test pit

816-4654 Test pit

816-4654 Sample Piles

816-4655 Sample Piles

816-4655 Test pit

816-4656 Sample Piles

816-4656 Test pit

816-4657 Sample Piles

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816-4658 Test pit