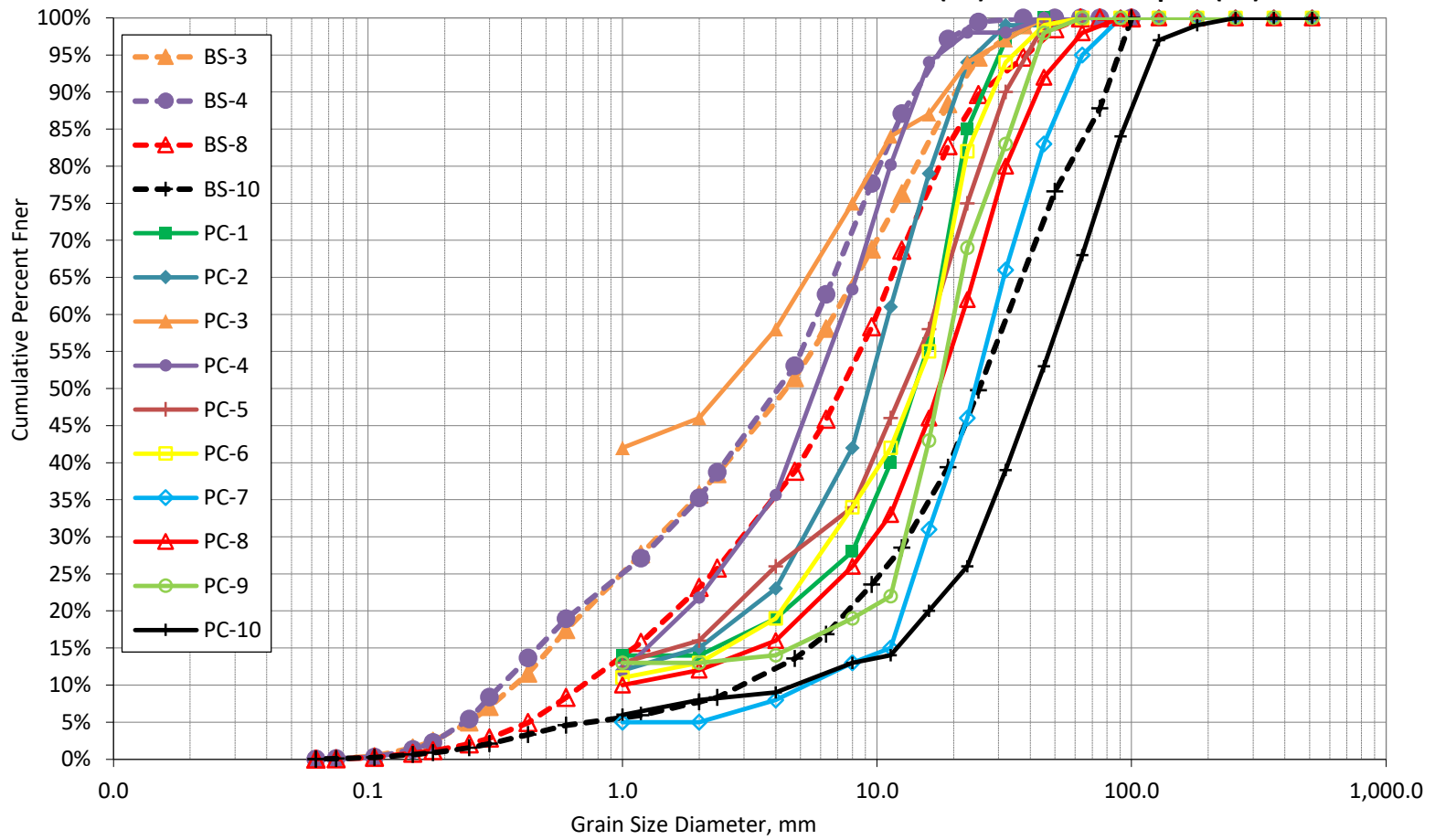


Lower Jacoby Creek
Cumulative Particle Size Distribution from Pebble Counts (PC) and Bulk Samples (BS)





SIEVE ANALYSIS WORKSHEET ASTM C136

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PROJECT NAME:	MLA-Lower Jacoby Creek	PROJECT NUMBER:	022118	DATE:	8/5/2022
PROJECT MANAGER:	DJG	PERFORMED BY:	JMA	CHECKED BY:	DJG 8/14/22
SAMPLE I.D.:	BS-5	LAB SAMPLE NO:	22-616		

TOTAL SAMPLE WEIGHT BEFORE WASH: 6189.4 SAMPLE WEIGHT AFTER WASH: 6102.6

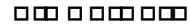
PERCENT WASHED: 1.4

PERCENT LOST= 0.00 MUST BE 0.3% OR LESS TO COMPLY W/ ASTM C136 AND AASHTO T 27

SIEVE #	WEIGHT RETAINED		% PASSED	% PASSED REQUIREMENT
	SCREEN	TOTAL		
3" (75mm)		0	100	
2 1/2" (63mm)		0	100	
2" (50mm)		0	100	
1 1/2" (37.5mm)	0	0	100	
1" (25mm)	33	33	99	
3/4" (19mm)	141	174	97	
1/2" (12.5mm)	613	788	87	
3/8" (9.5mm)	576	1364	78	
1/4" (6.3mm)	913	2277	63	
#4 (4.75mm)	586	2863	54	
Pan	3326	6189.4		

FINE FRACTION GRADING WEIGHT 455.4

	WEIGHT RETAINED			%PASSED	% PASSED REQUIREMENT
	REDUCED PORTION	SCREEN	TOTAL		
#8 (2.36mm)	119.9	876	3738.8	40	
#10 (2mm)	29	212	3950.6	36	
#16 (1.18mm)	68.1	497.4	4448.0	28	
#30 (600um)	68.1	497.4	4945.5	20	
#40 (425um)	44.4	324.3	5269.8	15	
#50 (300um)	43.9	320.7	5590.4	9.7	
#60 (250um)	24.8	181.1	5771.6	6.8	
#80 (180um)	26.3	192.1	5963.7	3.6	
#100 (150um)	7.9	57.7	6021.4	2.7	
#140 (106um)	8.8	64.3	6085.7	1.7	
#200 (75um)	1.6	11.7	6097.4	1.5	
PAN	0.7	5	6102.5		



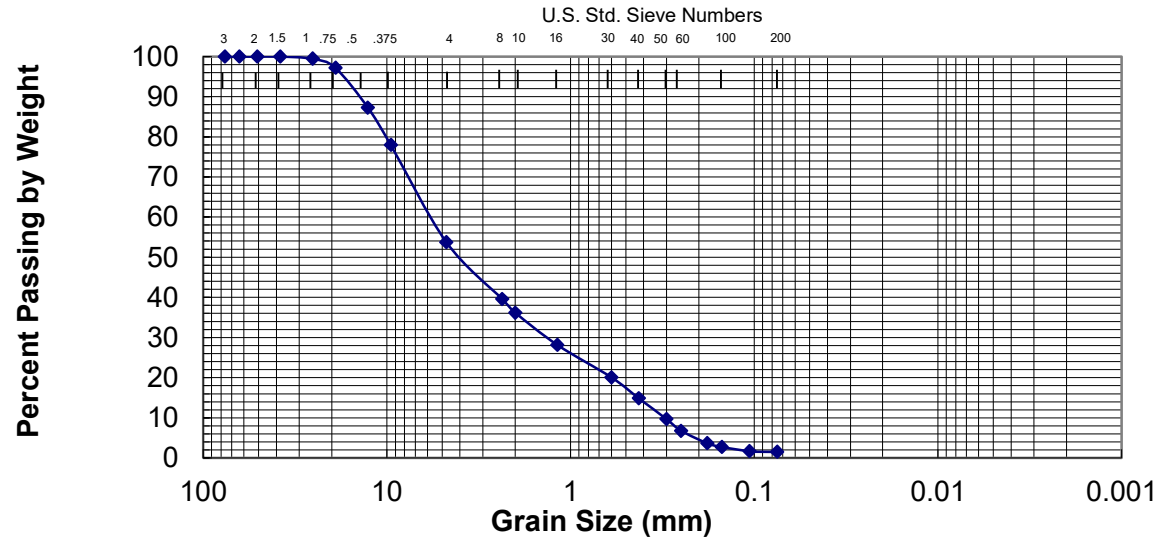
Phone: (707) 441-8855 Email: info@shn-engr.com Web: shn-engr.com
812 W. Wabash Avenue, Eureka, CA 95501-2138

PROJECT NAME: MLA-Lower Jacoby Creek
SAMPLE ID: BS-5
DATE TESTED: 8/5/22

PROJECT NUMBER: 022118
Lab Sample#: 22-616

SIEVE	3"	2 1/2"	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#10	#16	#30	#40	#50	#60	#80	#100	#140	#200	
SIEVE SIZE (mm)	76.2	63.5	50.8	38.1	25.4	19.1	12.7	9.53	4.75	2.36	2.00	1.18	0.600	0.425	0.300	0.250	0.180	0.150	0.106	0.075	
PERCENT PASSING	100	100	100	100	99.5	97.2	87.3	78	53.7	39.6	36.2	28.1	20.1	14.9	9.7	6.8	3.6	2.7	1.7	1.5	
SPEC REQUIRED																					

Gradation Test Results



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	



SIEVE ANALYSIS WORKSHEET ASTM C136

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PROJECT NAME:	MLA-Lower Jacoby Creek	PROJECT NUMBER:	022118	DATE:	8/8/2022
PROJECT MANAGER:	DJG	PERFORMED BY:	JMA	CHECKED BY:	DJG 8/14/22
SAMPLE I.D.:	BS-11	LAB SAMPLE NO:	22-617		

TOTAL SAMPLE WEIGHT BEFORE WASH: 25389.5 SAMPLE WEIGHT AFTER WASH: 25015.0

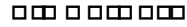
PERCENT WASHED: 1.5

PERCENT LOST= 0.04 MUST BE 0.3% OR LESS TO COMPLY W/ ASTM C136 AND AASHTO T 27

SIEVE #	WEIGHT RETAINED		% PASSED	% PASSED REQUIREMENT
	SCREEN	TOTAL		
3" (75mm)		0	100	
2 1/2" (63mm)	0	0	100	
2" (50mm)	369	369	99	
1 1/2" (37.5mm)	957	1326	95	
1" (25mm)	1265	2591	90	
3/4" (19mm)	1728	4319	83	
1/2" (12.5mm)	3525	7844	69	
3/8" (9.5mm)	2589	10433	59	
1/4" (6.3mm)	3119	13552	47	
#4 (4.75mm)	1751	15303	40	
Pan	10006	25308.5		

FINE FRACTION GRADING WEIGHT 583.8

	WEIGHT RETAINED			%PASSED	% PASSED REQUIREMENT
	REDUCED PORTION	SCREEN	TOTAL		
#8 (2.36mm)	191.1	3275	18578.0	27	
#10 (2mm)	37.9	650	19227.6	24	
#16 (1.18mm)	108.3	1856.2	21083.7	17	
#30 (600um)	108.1	1852.7	22936.5	9.7	
#40 (425um)	49.6	850.1	23786.5	6.3	
#50 (300um)	30.9	529.6	24316.1	4.2	
#60 (250um)	11.2	192.0	24508.1	3.5	
#80 (180um)	13.4	229.7	24737.8	2.6	
#100 (150um)	5.2	89.1	24826.9	2.2	
#140 (106um)	7.8	133.7	24960.6	1.7	
#200 (75um)	3.1	53.1	25013.7	1.5	
PAN	0.7	12	25025.7		



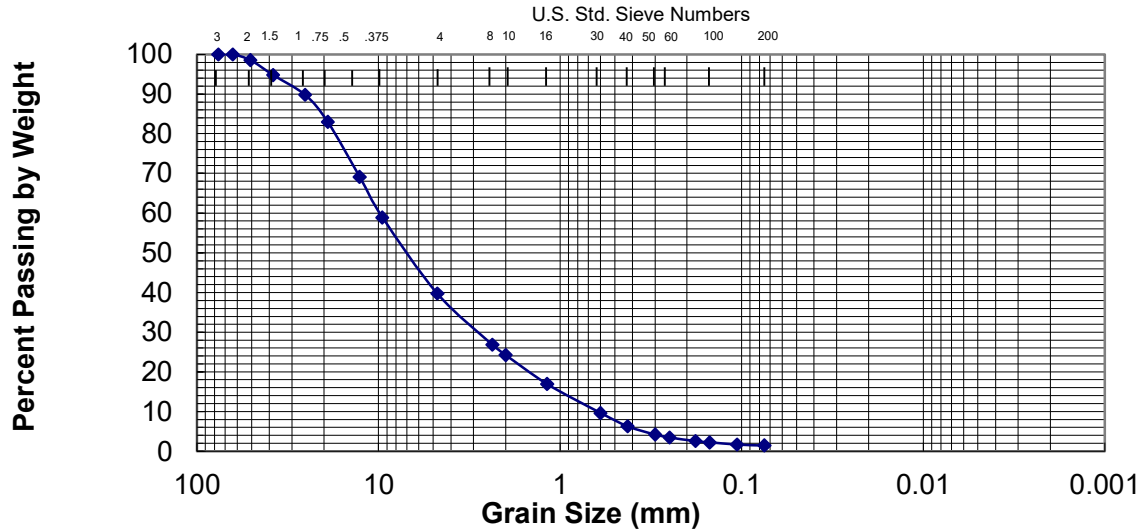
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812 W. Wabash Avenue, Eureka, CA 95501-2138

PROJECT NAME: MLA-Lower Jacoby Creek
SAMPLE ID: BS-11
DATE TESTED: 8/8/22

PROJECT NUMBER: 022118
Lab Sample#: 22-617

SIEVE	3"	2 1/2"	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#10	#16	#30	#40	#50	#60	#80	#100	#140	#200	
SIEVE SIZE (mm)	76.2	63.5	50.8	38.1	25.4	19.1	12.7	9.53	4.75	2.36	2.00	1.18	0.600	0.425	0.300	0.250	0.180	0.150	0.106	0.075	
PERCENT PASSING	100	100	98.5	94.8	89.8	83	69.1	58.9	39.7	26.8	24.3	17.0	9.7	6.3	4.2	3.5	2.6	2.2	1.7	1.5	
SPEC REQUIRED																					

Gradation Test Results



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	



SIEVE ANALYSIS WORKSHEET ASTM C136

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PROJECT NAME:	MLA-Lower Jacoby Creek	PROJECT NUMBER:	022118	DATE:	8/5/2022
PROJECT MANAGER:	DJG	PERFORMED BY:	JMA	CHECKED BY:	DJG 8/14/22
SAMPLE I.D.:	BS4	LAB SAMPLE NO:	22-618		

TOTAL SAMPLE WEIGHT BEFORE WASH: 8750.5 SAMPLE WEIGHT AFTER WASH: 8681.0

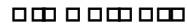
PERCENT WASHED: 0.8

PERCENT LOST= 0.00 MUST BE 0.3% OR LESS TO COMPLY W/ ASTM C136 AND AASHTO T 27

SIEVE #	WEIGHT RETAINED		% PASSED	% PASSED REQUIREMENT
	SCREEN	TOTAL		
3" (75mm)		0	100	
2 1/2" (63mm)		0	100	
2" (50mm)	0	0	100	
1 1/2" (37.5mm)	82	82	99	
1" (25mm)	381	462	95	
3/4" (19mm)	545	1008	88	
1/2" (12.5mm)	1048	2055	77	
3/8" (9.5mm)	655	2710	69	
1/4" (6.3mm)	927	3637	58	
#4 (4.75mm)	580	4217	52	
Pan	4533	8749.7		

FINE FRACTION GRADING WEIGHT 430.4

	WEIGHT RETAINED			%PASSED	% PASSED REQUIREMENT
	REDUCED PORTION	SCREEN	TOTAL		
#8 (2.36mm)	106.6	1123	5339.4	39	
#10 (2mm)	22.8	240	5579.5	36	
#16 (1.18mm)	66.2	697.2	6276.8	28	
#30 (600um)	84.3	887.9	7164.6	18	
#40 (425um)	48.6	511.9	7676.5	12	
#50 (300um)	36.9	388.6	8065.1	7.8	
#60 (250um)	17.4	183.3	8248.4	5.7	
#80 (180um)	20.9	220.1	8468.5	3.2	
#100 (150um)	7.5	79.0	8547.5	2.3	
#140 (106um)	9.3	97.9	8645.4	1.2	
#200 (75um)	2.8	29.5	8674.9	0.9	
PAN	0.6	6	8681.2		



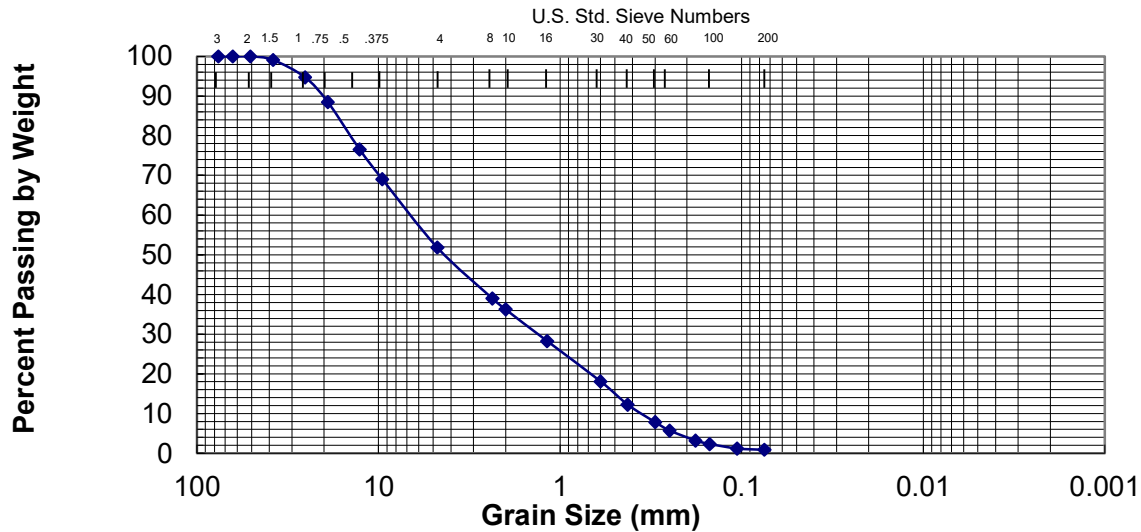
Phone: (707) 441-8855 Email: info@shn-engr.com Web: shn-engr.com
812 W. Wabash Avenue, Eureka, CA 95501-2138

PROJECT NAME: MLA-Lower Jacoby Creek
 SAMPLE ID: BS4
 DATE TESTED: 8/5/22

PROJECT NUMBER: 022118
 Lab Sample#: 22-618

SIEVE	3"	2 1/2"	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#10	#16	#30	#40	#50	#60	#80	#100	#140	#200	
SIEVE SIZE (mm)	76.2	63.5	50.8	38.1	25.4	19.1	12.7	9.53	4.75	2.36	2.00	1.18	0.600	0.425	0.300	0.250	0.180	0.150	0.106	0.075	
PERCENT PASSING	100	100	100	99.1	94.7	88.5	76.5	69	51.8	39.0	36.2	28.3	18.1	12.3	7.8	5.7	3.2	2.3	1.2	0.9	
SPEC REQUIRED																					

Gradation Test Results



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	



SIEVE ANALYSIS WORKSHEET ASTM C136

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PROJECT NAME:	MLA-Lower Jacoby Creek	PROJECT NUMBER:	022118	DATE:	8/15/2022
PROJECT MANAGER:	DJG	PERFORMED BY:	JMA	CHECKED BY:	ALG
SAMPLE I.D.:	JC BS-13 "Lower Jacoby Creek"	LAB SAMPLE NO:	22-690		

TOTAL SAMPLE WEIGHT BEFORE WASH: 58050.0 SAMPLE WEIGHT AFTER WASH: 57796.0

PERCENT WASHED: 0.4

PERCENT LOST= -0.14 MUST BE 0.3% OR LESS TO COMPLY W/ ASTM C136 AND AASHTO T 27

SIEVE #	WEIGHT RETAINED		% PASSED	% PASSED REQUIREMENT
	SCREEN	TOTAL		
4" (100mm)	0	0		
3" (75mm)	7040	7040	88	
2" (50mm)	6469	13509	77	
1" (25mm)	15480	28989	50	
3/4" (19mm)	5985	34973	40	
1/2" (12.5mm)	6262	41236	29	
3/8" (9.5mm)	2890	44125	24	
1/4" (6.3mm)	3872	47997	17	
#4 (4.75mm)	1888	49885	14	
Pan	7483	57367.3		

FINE FRACTION GRADING WEIGHT 453.8

	WEIGHT RETAINED			%PASSED	% PASSED REQUIREMENT
	REDUCED PORTION	SCREEN	TOTAL		
#8 (2.36mm)	183.2	3021	52905.5	8.9	
#10 (2mm)	20.6	340	53245.2	8.3	
#16 (1.18mm)	63.2	1042.1	54287.2	6.5	
#30 (600um)	47	775.0	55062.2	5.1	
#40 (425um)	44.8	738.7	55800.9	3.9	
#50 (300um)	42.1	694.2	56495.1	2.7	
#60 (250um)	20	329.8	56824.8	2.1	
#80 (180um)	23.7	390.8	57215.6	1.4	
#100 (150um)	8.2	135.2	57350.8	1.2	
#140 (106um)	13.1	216.0	57566.8	0.8	
#200 (75um)	5.5	90.7	57657.5	0.7	
PAN	3.6	59	57716.9		



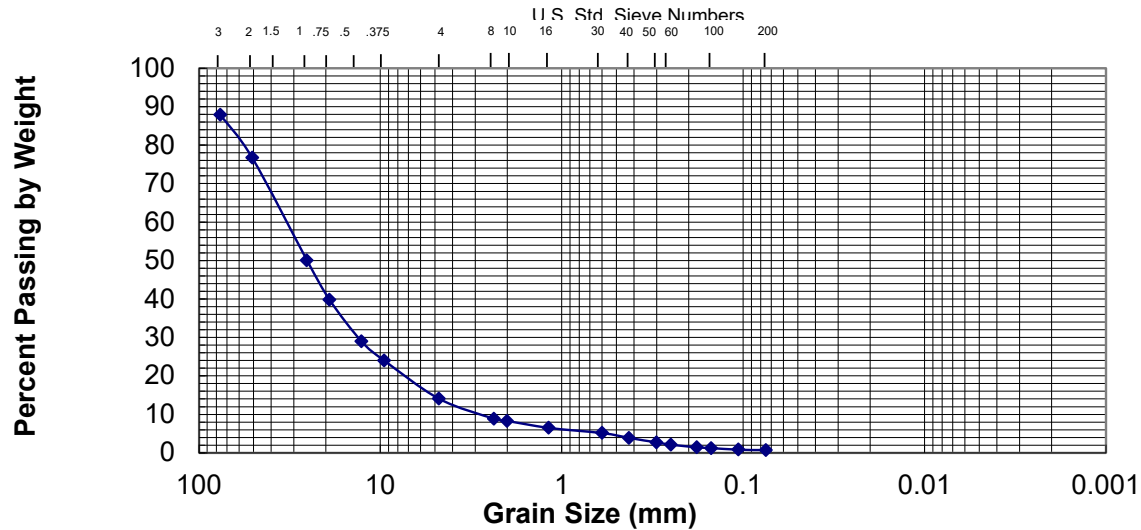
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Phone: (707) 441-8855 Email: info@shn-engr.com Web: shn-engr.com
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PROJECT NAME: MLA-Lower Jacoby Creek PROJECT NUMBER: 022118
 SAMPLE ID: JC BS-13 "Lower Jacoby Creek" Lab Sample#: 22-690
 DATE TESTED: 8/15/22

SIEVE	3"	2 1/2"	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#10	#16	#30	#40	#50	#60	#80	#100	#140	#200	
SIEVE SIZE (mm)	76.2	63.5	50.8	38.1	25.4	19.1	12.7	9.53	4.75	2.36	2.00	1.18	0.600	0.425	0.300	0.250	0.180	0.150	0.106	0.075	
PERCENT PASSING	87.9		76.7		50.1	39.8	29	24	14.1	8.9	8.3	6.5	5.1	3.9	2.7	2.1	1.4	1.2	0.8	0.7	
SPEC REQUIRED																					

Gradation Test Results



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	