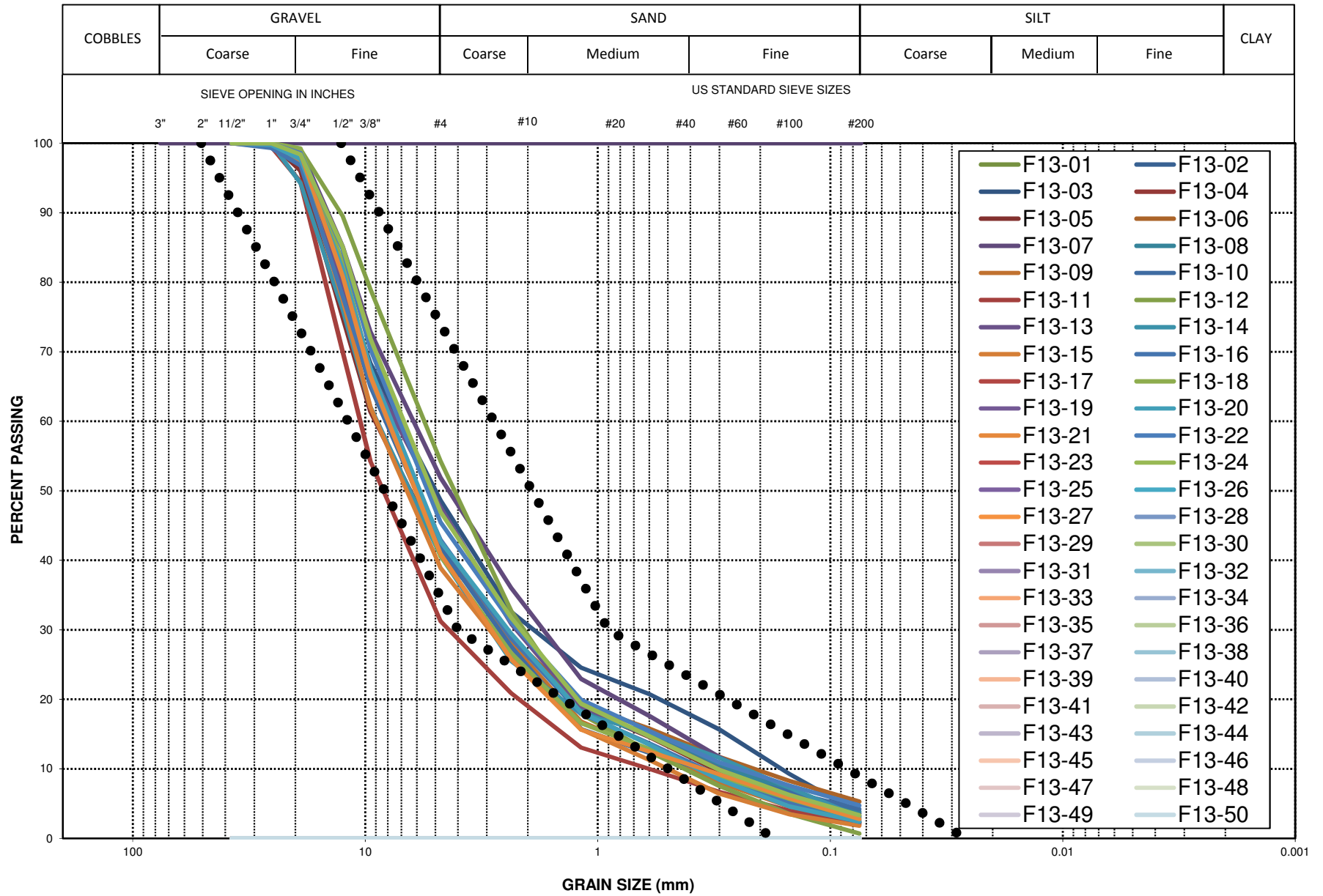


Input

Sample ID #	F13-01	F13-02	F13-03	F13-04	F13-05	F13-06	F13-07	F13-08	F13-09	F13-10	F13-11	F13-12	F13-13	F13-14	F13-15	F13-16	F13-17	F13-18	F13-19	F13-20	F13-21	F13-22	F13-23	F13-24		
Sample Date		8-May-13			9-May-13	9-May-13	13-May-13	14-May-13	15-May-13	17-May-13	19-May-13	20-May-13	22-May-13	23-May-13	24-May-13	26-May-13	26-May-13	27-May-13	27-May-13	28-May-13	29-May-13	6-Jun-13	6-Jun-13	17-Jun-13		
Sample Location		Corner 1 Stockpile			Main Embk Stockpile	Corner 3 Stockpile	Trench on PE Elv-963.9	Corner 3 stockpile		ME Filter (contaminated with snow)	Corner 3 stockpile	Bottom Corner 1 Stockpile	PE Placed 4+049 crn1 stockpile	PE Placed 4+660 crn1 stockpile	PE Placed 4+869 crn3 stockpile	Crn 3 Stockpile	Crn 3 Stockpile	SE Placed 1+070	SE Placed 1+070	SE Placed 0+507	Stockpile below corner 1	Corner 3 Stockpile	Corner 3 Stockpile	Corner 3 Stockpile		
Sieve Date		9-May-13			10-May-13	12-May-13	17-May-13	18-May-13	18-May-13	18-May-13	20-May-13	25-May-13	25-May-13	25-May-13	25-May-13	28-May-13		Off-site	29-May-13	Off-site	29-May-13	30-May-13	8-Jun-13		18-Jun-13	
Tare Weight		926			941.6	941.7	928.5	957.81	935.4	943	942.3	935.7	926.4	957.4	636	957.3		632.3	615.9	941.9	694.4	694.4			928	
Wet Total (Sample +Tare) Weight		5911.5			6108.1	6420.1	6172.3	6233.4	6172.3	6157.4	6805.1	6507.4	6866.8	6864.4	6882	6390.9		6207.1	6241.6	7124.4	6313.9	6041.2			6164	
Dry Total (Sample +Tare) Weight		5734.3			5926.5	6062.6	6026.2	6080.4	6026.2	5894.5	6593.2	6295.3	6723.4	6723.5	6604.1	6193.9		6056.4	6054.2	6886.7	6041.2				6020.8	
Wet Sample Weight		4985.5			5166.5	5478.4	5243.8	5275.59	5236.9	5214.4	5862.8	5571.7	6246	5907	5433.6	5574.8		5574.8	5625.7	6182.5	5619.5				5236	
Moisture %		4%			4%	7%	3%	3%	3%	5%	4%	4%	2%	4%	3%		Off-site	3%	4%	3%	4%	5%			3%	
Dry Sample Weight		4808.3			4984.9	5120.9	5097.7	5122.59	5090.8	4951.5	5650.9	5359.6	6723.4	5766.1	5968.1	5236.6		5424.1	5438.3	5944.8	5346.8				5092.8	
+1½"		0			0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	
+1"		0			0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	
+¾"		131.1			197.6	81.5	46.1	76.7	52	66.4	288.9	49.2	176.1	332.4	158.3	133		42.5	111.4	85.8	76.5				82.8	
+½"		834.6			1052.6	817.3	712.7	855	899.6	1024.3	1380.8	515.6	1180	1051.5	1190.7	987.3		887.5	863.9	1054.8	740.8				678.6	
+3/8"		557.7			674.4	799.9	621	730.5	769.1	645	887.6	560.5	863.2	805.9	918.8	650.5		845.9	771.2	851.6	766.5				666.7	
No. 4		947.7			998.2	1311.6	1073.8	1284.4	1195.2	1141.9	1300.0	1232.6	1379.8	1303.4	1232.6	1182		1447.4	1357.7	1520.4	1331.2				1274.3	
Passing No. 4		1817.8			1817.8	1841.5	1954.6	2158	2134	2026.5	1767.1	1918.3	1881.7	1502.2	1908.1	2211.3		2167.3	2268.5	2004.9	2403.8				2378	
Dry Sample Check		0.06			4.00	5.25	13.53	0.35	0.80	0.95	-0.03	16.45	19.62	14.55	8.91	6.72		0.62	0.67	7.19	0.52				0.24	
Split Sample Weight		677.6			908.9	878.5	952.8	1006.19	1061	1007.9	893.5	983.1	942.2	965.2	953.6	794.9		1114		1247.6	1031.2	1255			1224	
No. 8		223.2			275.3	259.3	290.8	321	365.7	344.6	296.3	390.3	330.3	359.6	313.7	262		382.1	387	382.6	397				396.3	
No. 18		111.9			220.4	209.1	240.6	244	277.9	284.9	223.7	268.8	235.3	277.2	200.5	255.1		277.2	331.4	255	307.8				322.2	
No. 30		53.1			92.6	73.7	97.6	91.8	103.5	82.9	87.4	97.6	86	64.9	108.6	79.5		101.7	134.3	78.5	123.8				122.4	
No. 50		71.3			110	87.1	109.5	101.3	114.4	74.8	95.2	90	93.8	85.4	118.9	87.5		108	148	82.7	125.5				126.2	
No.100		88.5			95.3	72.9	91.6	86.6	86.1	60.2	77.3	72.4	81.5	101.9	72.4	69.5		89.1	112.9	86	91.4				94.1	
No.200		79.6			66.3	64	62.6	69.7	56.5	59.4	56.3	51.3	64.6	100.3	40.4	52		79.5	63.8	76.2	78.7				75.5	
Passing No.200		51.2			49.9	110.3	60.9	83.2	57.4	101.6	57.6	12	50.2	74.1	44.6	44.6		76.3	70	70.8	131.7				87.4	
Split Sample Check		-0.18			-0.10	0.24	-0.08	0.85	-0.05	-0.05	-0.03	0.07	0.05	-0.13	-0.01	-0.09		0.01		0.02	-0.06	-0.07			-0.01	
Passing Percentage		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	
+1½"		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0		0.2	0.0	0.0	0.0	0.0	0.0	
+1"		2.7			4.0	1.6	0.9	1.5	1.0	1.3	5.1	0.9	2.6	5.8	2.7	2.5		0.8	2.0	1.4	1.4				1.6	
+¾"		17.4			21.1	16.0	14.0	16.7	17.7	20.7	24.4	9.6	17.6	18.2	20.0	18.9		16.4	15.9	17.7	13.9				13.3	
+½"		11.6			13.5	15.6	12.2	14.3	15.1	13.0	15.7	10.5	12.8	14.0	15.4	12.4		15.6	14.2	14.3	14.3				13.1	
+3/8"		19.7			20.0	25.6	21.1	25.1	23.5	23.1	23.0	24.7	19.4	23.1	23.1	22.6		21.4	25.0	25.6	24.9				25.0	
No. 4		16.0			12.5	12.2	15.8	13.6	14.7	14.3	10.4	21.5	16.7	15.1	12.8	14.2		13.9	13.2	15.2	14.4				15.2	
No. 8		8.0			10.0	9.8	13.1	10.3	11.2	11.8	7.8	14.8	11.9	7.6	10.4	10.8		10.1	11.3	10.1	11.2				12.4	
No. 18		3.8			4.2	3.5	5.3	3.9	4.2	3.4	3.1	5.4	4.3	2.7	4.4	4.3		3.7	4.6	3.1	4.5				4.7	
No. 30		5.1			5.0	4.1	6.0	4.3	4.6	3.1	3.3	5.0	4.7	3.6	4.8	4.7		3.9	5.1	3.3	4.5				4.8	
No. 50		6.3			4.3	3.4	5.0	3.7	3.5	2.5	2.7	4.0	4.1	4.3	3.0	3.8		3.2	3.9	3.4	3.3				3.6	
No.200		5.7			3.0	3.0	3.4	2.9	2.3	2.5	2.0	2.8	3.3	4.2	1.6	2.8		3.3	2.2	3.0	2.9				2.9	
Passing No.200		3.7			2.3	5.2	3.3	3.5	2.3	4.2	2.0	0.7	2.5	3.1	1.8	2.4		2.8	2.4	2.8	4.8				3.4	
Retained % (mm)																										
37.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	
25.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	99.5	100.0	100.0	100.0	100.0	99.3		100.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	
19		97.3			96.0	98.4	99.1	98.5	99.0	98.7	94.4	99.1	97.4	94.2	97.3	96.8		99.2	97.7	98.6	98.6	98.6	98.6	98.4	98.4	
12.5		79.9			74.9	82.4	85.1	81.8	81.3	78.0	70.0	89.5	79.8	76.0	77.4	77.9		82.9	81.8	80.8	84.7	85.0	85.0	85.0	85.0	
9.5		68.3			61.4	66.8	72.9	67.6	66.2	64.9	54.2	79.0	67.0	62.0	62.0	65.5		67.3	67.6	66.5	70.4	72.0	72.0	72.0	72.0	
4.75		48.6			41.4	41.2	51.9	42.5	42.7	41.9	31.2	54.3	47.6	40.6	38.9	42.9		40.6	42.7	40.9	45.5	46.9	46.9	46.9	46.9	
2.36		32.6			28.8	29.1	36.0	28.9	28.0	27.6	20.9	32.7	30.9	25.5	26.1	28.8		26.7	29.4	25.7	31.1	31.7	31.7	31.7	31.7	
1.18		24.6			18.8	19.2	22.9	18.6	16.8	15.7	13.1	17.9	19.0	17.9	15.7	18.0		16.6	18.1	15.6	19.9	19.4	19.4	19.4	19.4	
0.6		20.8			14.6	15.8	17.6	14.8	12.6	12.3	10.0	12.5	14.7	15.2	11.3	13.7		12.9	13.5	12.5	15.5	14.7	14.7	14.7	14.7	
0.3		15.6			9.6	11.7	11.7	10.5	8.0	9.2	6.7	7.5	9.9	11.6	6.4	8.9		8.9	8.4	9.2	10.9	9.9	9.9	9.9	9.9	
0.15		9.3			5.2	8.3	6.7	6.8	4.6	6.7	4.0	3.5	5.8	7.3												

### 2013 ZONE F MATERIAL GRADATIONS



## Lab Worksheet

Sample #	
Sieve Date	
Sieved By	

Sample #	
Sieve Date	
Sieved By	

Pan Tare Weight	
Sample Wet Weight	
Sample Dry Weight	

Pan Tare Weight	
Sample Wet Weight	
Sample Dry Weight	

SIZE OF OPENING		WEIGHT RETAINED
INCHES	MILLIMETERS	grams
1.50	37.5	
1.00	25.4	
0.75	19	
0.50	12.5	
0.38	9.5	
No. 4	4.75	
PASSING No.4		
Split Sample Weight		
SIEVE NO.	TOTAL	
8	2.36	
16	1.18	
30	0.6	
50	0.3	
100	0.15	
200	0.075	
PAN	PAN	

SIZE OF OPENING		WEIGHT RETAINED
INCHES	MILLIMETERS	grams
1.50	37.5	
1.00	25.4	
0.75	19	
0.50	12.5	
0.38	9.5	
No. 4	4.75	
PASSING No.4		
Split Sample Weight		
SIEVE NO.	TOTAL	
8	2.36	
16	1.18	
30	0.6	
50	0.3	
100	0.15	
200	0.075	
PAN	PAN	

# Transition

	TRS13-01	TRS13-02	TRS13-03	TRS13-04	TRS13-05
<b>Sample ID #</b>	TRS13-01	TRS13-02	TRS13-03	TRS13-04	TRS13-05
Sample Date	18-Jun-13				
Sampled By	DK				
Sample Location	Transition sample from the bottom of corner 2&3				
Sieve Date	19-Jun-13				
Sieved By	LW				
Tare Weight	1862.2				
Wet Total (Sample +Tare) Weight	22056.7				
Dry Total (Sample +Tare) Weight	20647				
Wet Sample Weight	20194.5				
Moisture %	7%				
Dry Sample Weight	18784.8				
+2"					
+1½"	1127.2				
+1"	1743.4				
+¾"	1668.6				
+½"	2261				
+3/8"	1524.5				
No. 4	1821.5				
Passing No. 4	6866				
Dry Sample Check	9.44				
Split Sample Weight	3993.6				
No. 8	1177.6				
No. 18	860.5				
No. 30	228.4				
No. 50	225				
No.100	163.3				
No.200	131.2				
Passing No.200	218.8				
Split Sample Check	24.76				
<b>Passing Percentage</b>					
+2"	0.0				
+1½"	6.0				
+1"	9.3				
+¾"	8.9				
+½"	12.0				
+3/8"	8.1				
No. 4	9.7				
No. 8	13.6				
No. 18	9.9				
No. 30	2.6				
No. 50	2.6				
No.100	1.9				
No.200	1.5				
Passing No.200	2.5				
<b>Retained % (mm)</b>					
50.8	100.0				
37.5	94.0				
25.4	84.7				
19	75.8				
12.5	63.8				
9.5	55.7				
4.75	46.0				
2.36	32.4				
1.18	22.5				
0.6	19.9				
0.3	17.3				
0.15	15.4				
0.075	13.9				

