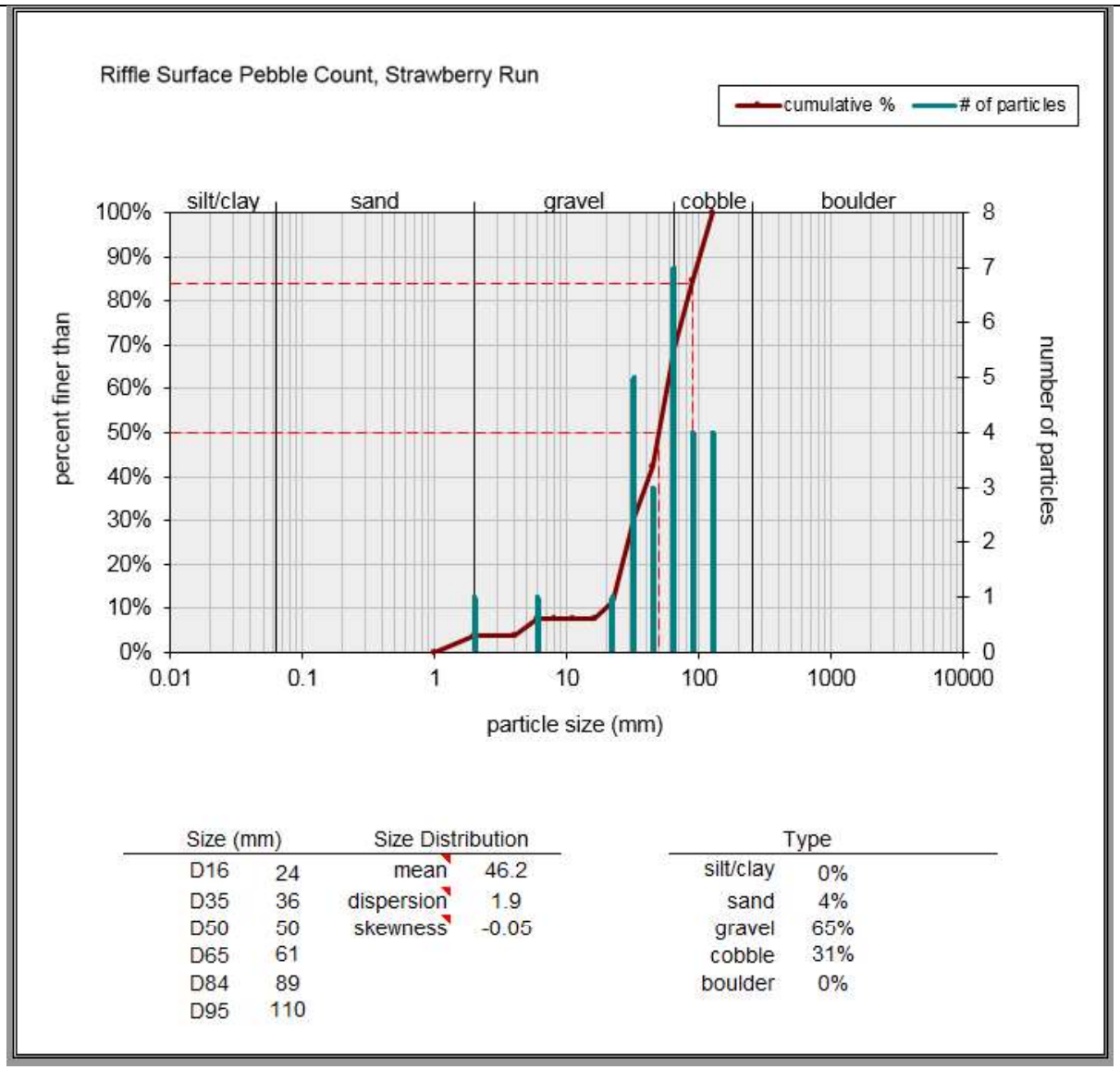
APPENDIX C

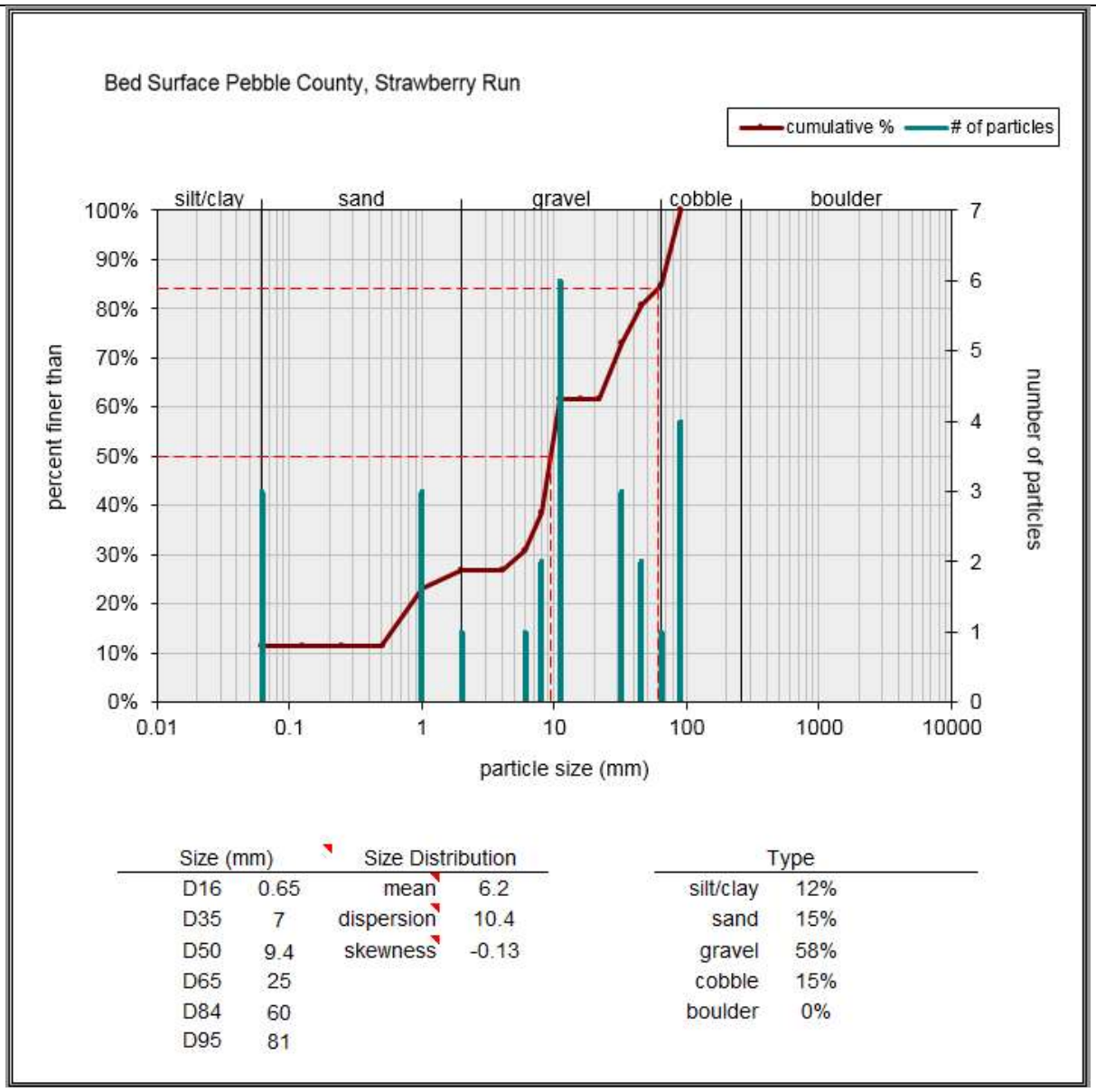
SUBSTRATE ANALYSIS



Size (mm)		Size Distribution	
D16	24	mean	46.2
D35	36	dispersion	1.9
D50	50	skewness	-0.05
D65	61		
D84	89		
D95	110		

Type	
silt/clay	0%
sand	4%
gravel	65%
cobble	31%
boulder	0%

Figure 1. Strawberry Run Riffle Surface Pebble Count.



Size (mm)		Size Distribution	
D16	0.65	mean	6.2
D35	7	dispersion	10.4
D50	9.4	skewness	-0.13
D65	25		
D84	60		
D95	81		

Type	
silt/clay	12%
sand	15%
gravel	58%
cobble	15%
boulder	0%

Figure 2. Strawberry Run Bed Surface (Depositional Point Bar) Pebble Count.

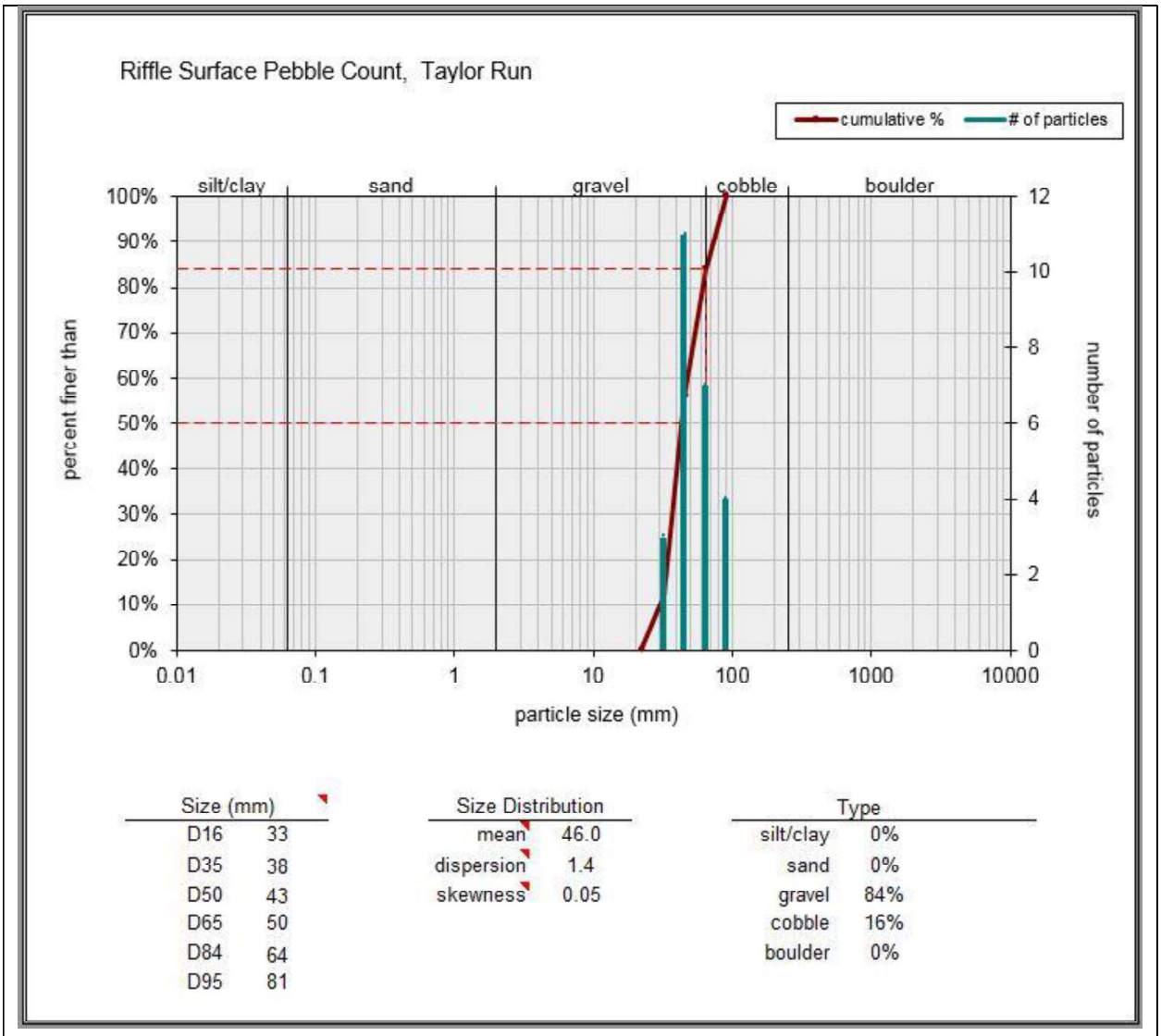
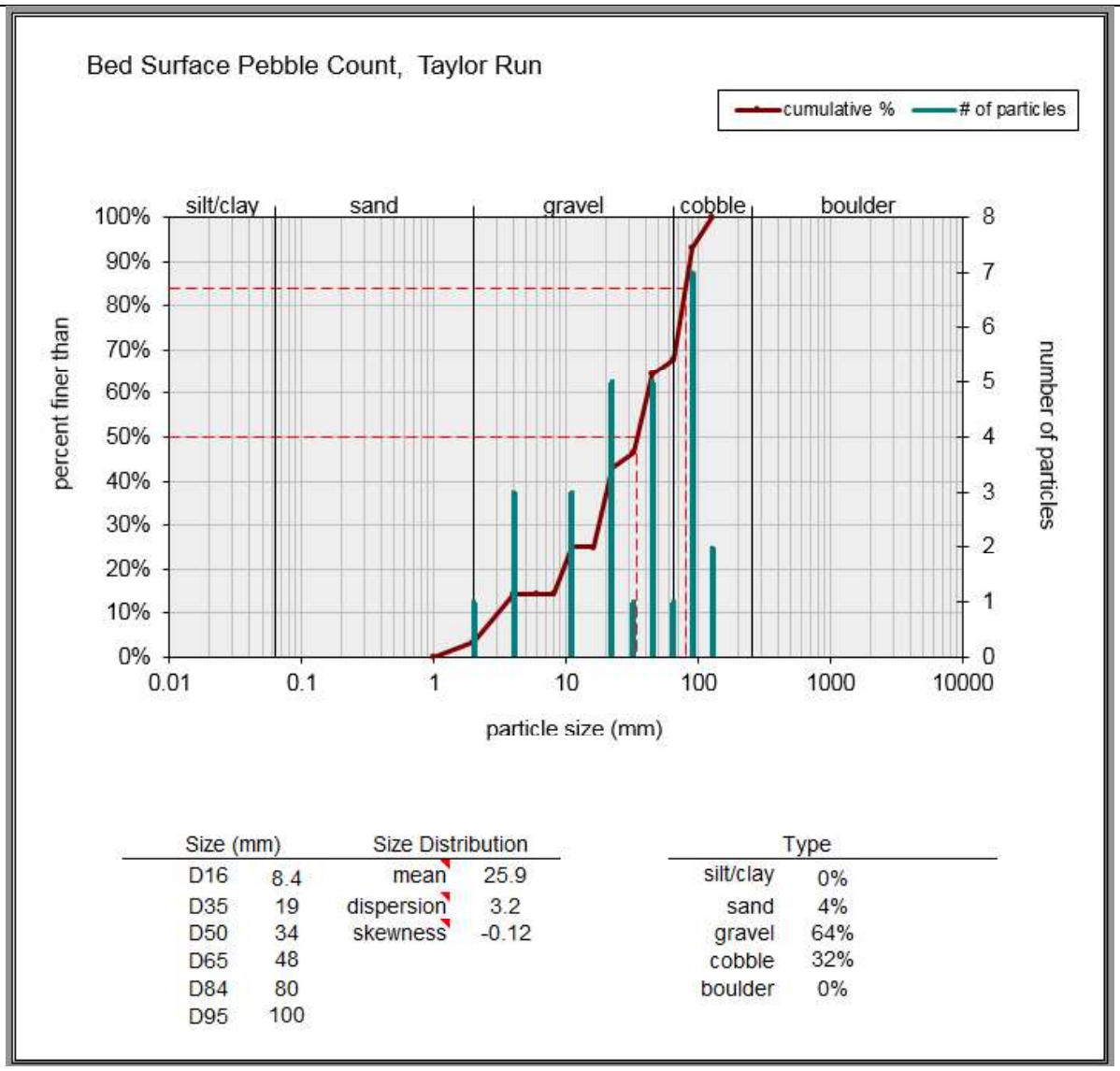


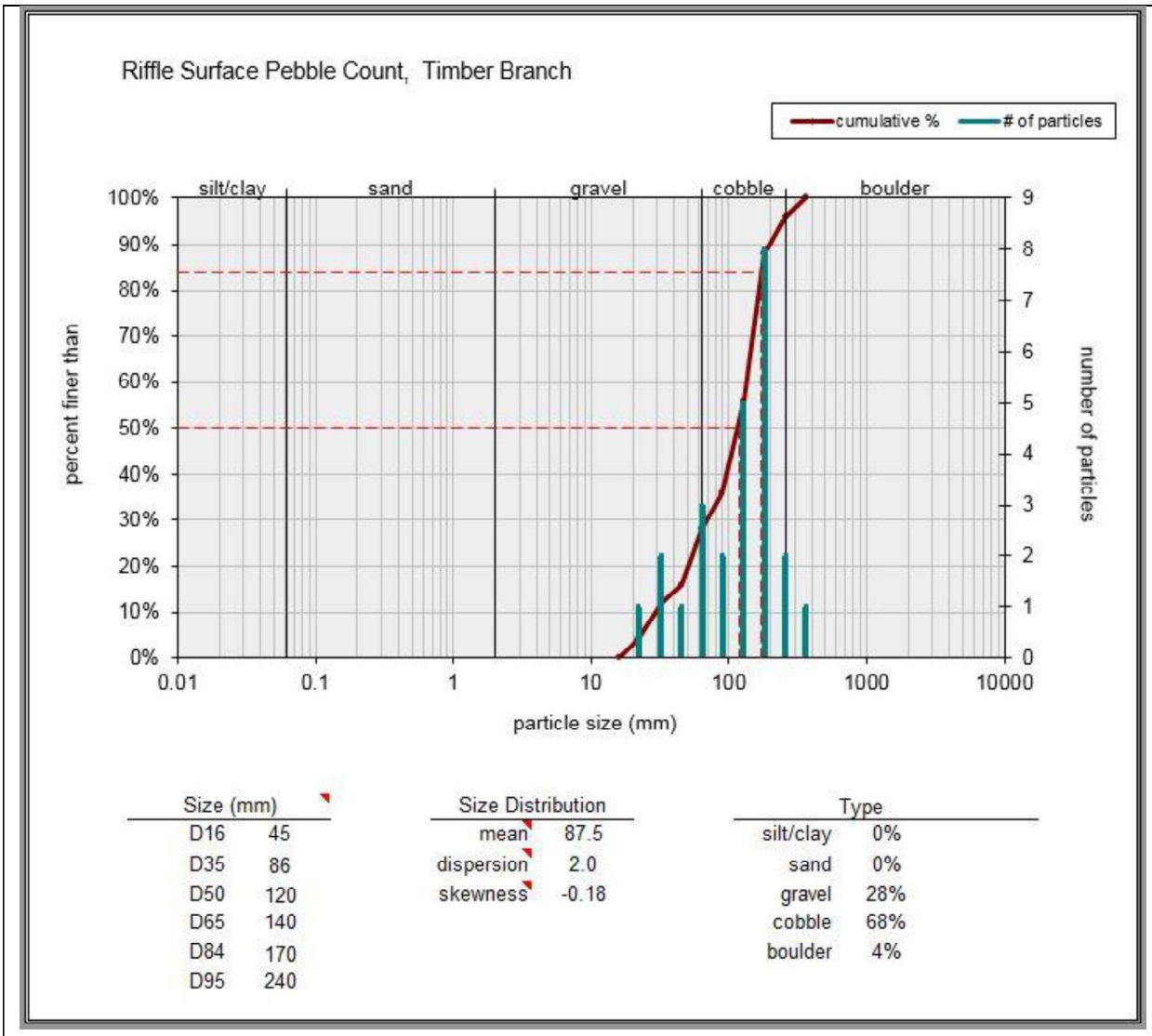
Figure 3. Taylor Run Riffle Surface Pebble Count.



Size (mm)		Size Distribution	
D16	8.4	mean	25.9
D35	19	dispersion	3.2
D50	34	skewness	-0.12
D65	48		
D84	80		
D95	100		

Type	
silt/clay	0%
sand	4%
gravel	64%
cobble	32%
boulder	0%

Figure 4. Taylor Run Bed Surface (Depositional Point Bar) Pebble Count.

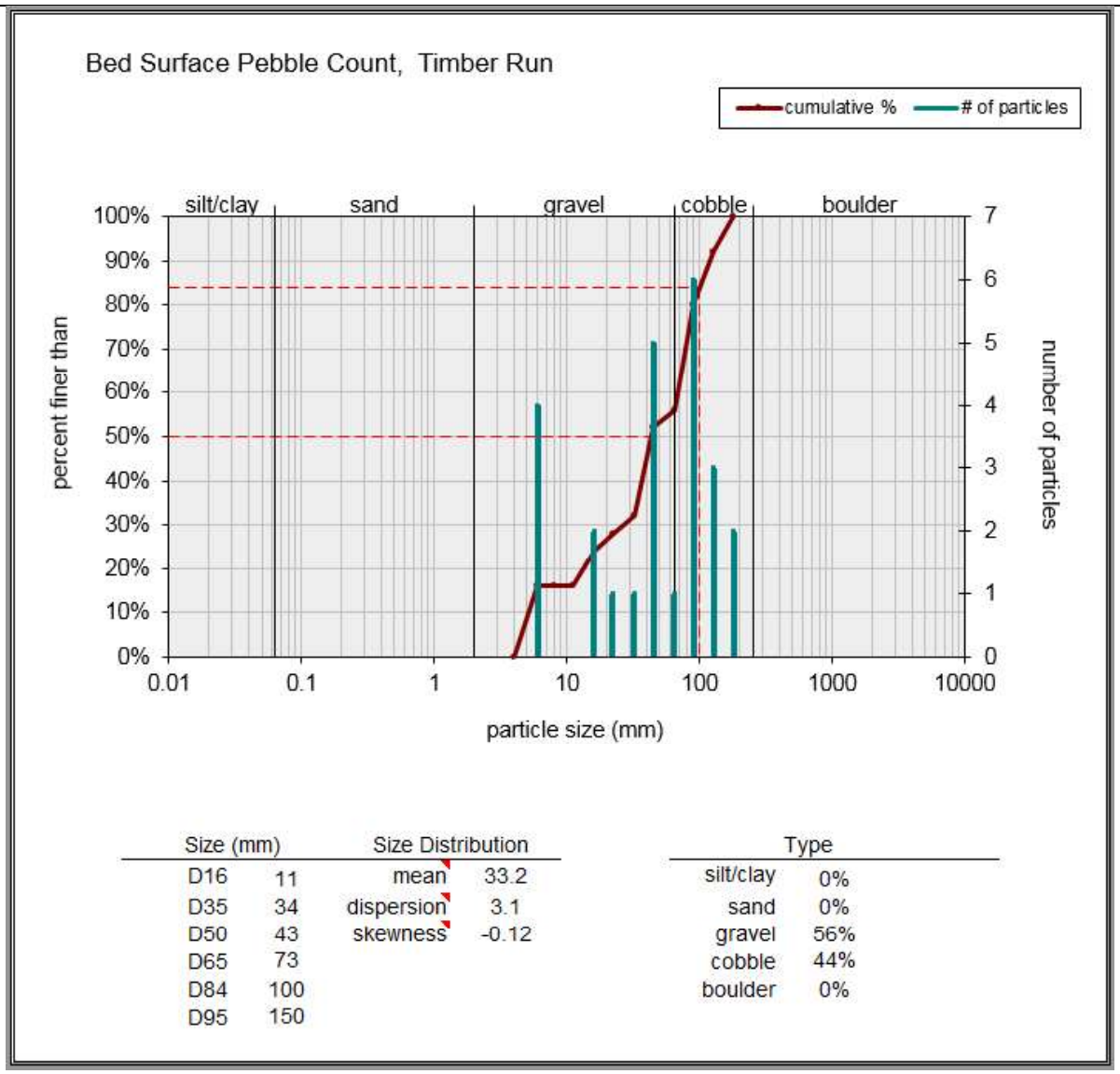


Size (mm)	
D16	45
D35	86
D50	120
D65	140
D84	170
D95	240

Size Distribution	
mean	87.5
dispersion	2.0
skewness	-0.18

Type	
silt/clay	0%
sand	0%
gravel	28%
cobble	68%
boulder	4%

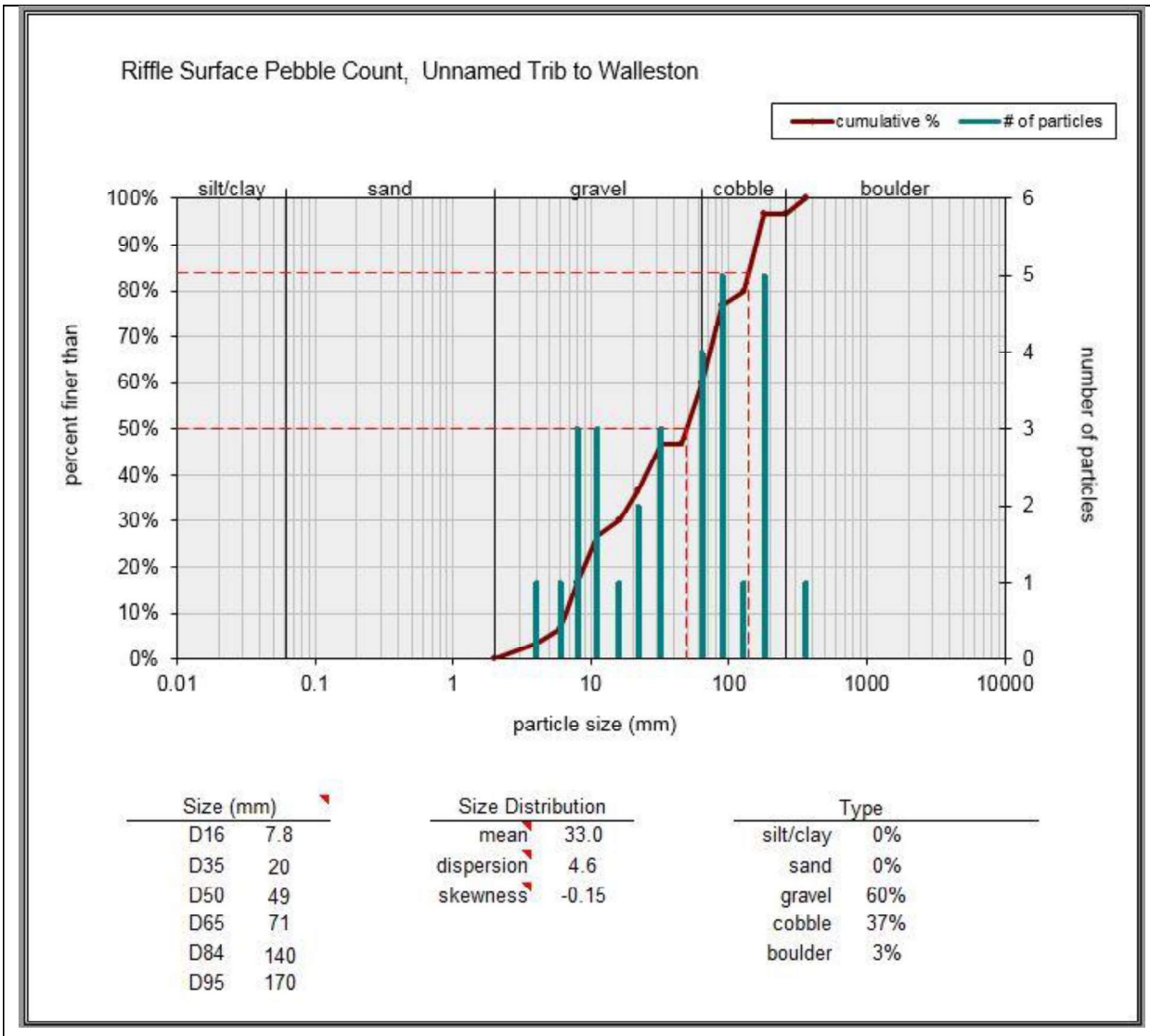
Figure 5. Timber Branch Riffle Surface Pebble Count.



Size (mm)		Size Distribution	
D16	11	mean	33.2
D35	34	dispersion	3.1
D50	43	skewness	-0.12
D65	73		
D84	100		
D95	150		

Type	
silt/clay	0%
sand	0%
gravel	56%
cobble	44%
boulder	0%

Figure 6. Timber Branch Bed Surface (Depositional Point Bar) Pebble Count.

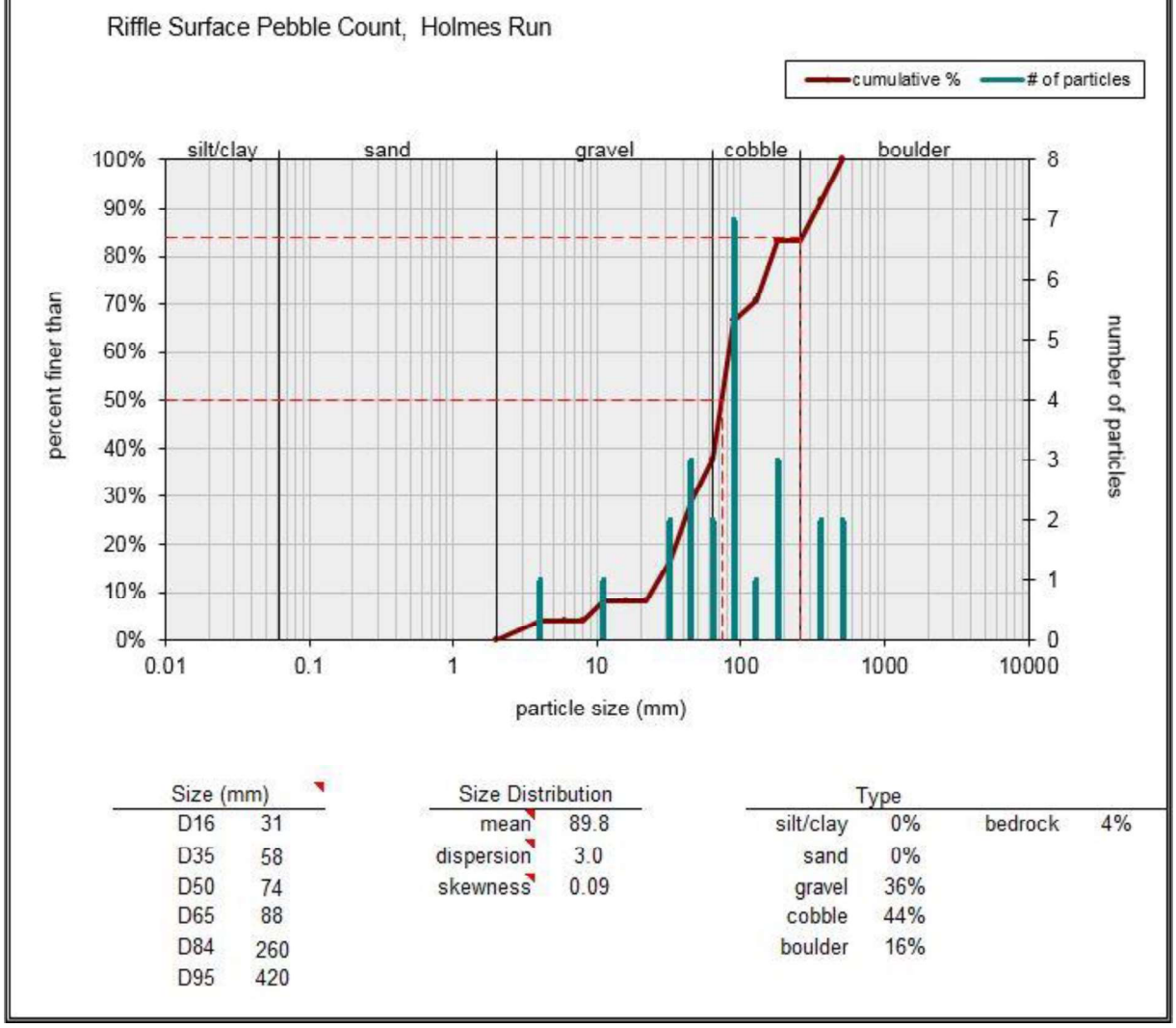


Size (mm)	
D16	7.8
D35	20
D50	49
D65	71
D84	140
D95	170

Size Distribution	
mean	33.0
dispersion	4.6
skewness	-0.15

Type	
silt/clay	0%
sand	0%
gravel	60%
cobble	37%
boulder	3%

Figure 7. Unnamed Trib to Walleston Riffle Surface Pebble Count.



Size (mm)	
D16	31
D35	58
D50	74
D65	88
D84	260
D95	420

Size Distribution	
mean	89.8
dispersion	3.0
skewness	0.09

Type			
silt/clay	0%	bedrock	4%
sand	0%		
gravel	36%		
cobble	44%		
boulder	16%		

Figure 8. Holmes Run Riffle Surface Pebble Count

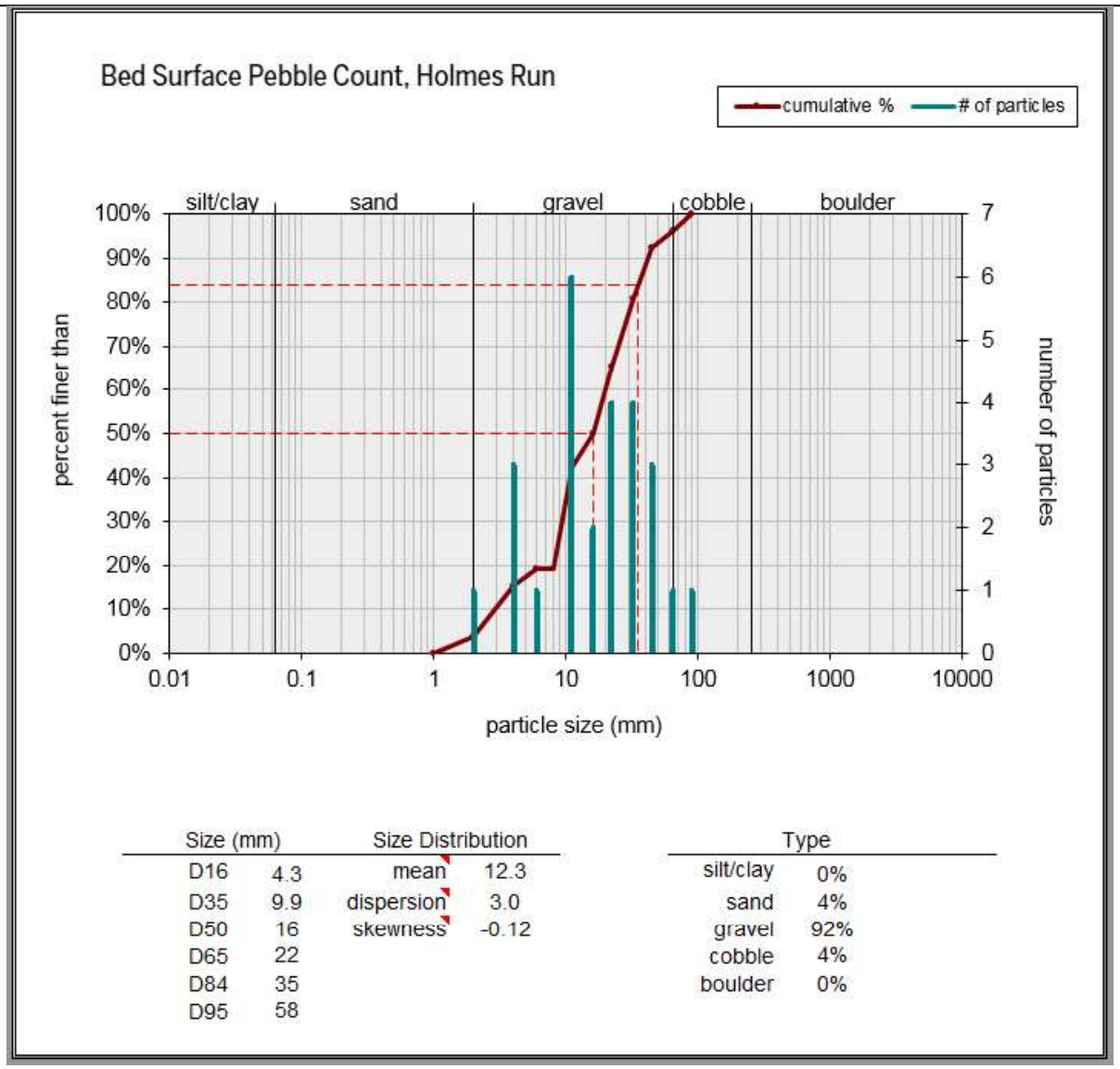


Figure 9. Holmes Run Bed Surface (Depositional Point Bar) Pebble Count.