

Table 0.1: Aggregate Samples

Material	Diameter	Mass (kg)	ISS (L)	$\frac{n}{kg}$	Bulk $\rho \frac{kg}{L}$
Quartzite	$\frac{3}{8}$ "	8.70	2.367	1123	1.56
	$\frac{1}{2}$ "	6.90	2.598	201	1.24
	$\frac{3}{4}$ "	7.05	2.786	80	1.27
	5"	9.00	3.088	3	1.62
Crushed Brick	$\frac{5}{8}$ "	6.35	3.480	196	1.14
	1"	5.90	3.556	57	1.06
Marble Cobbles	$\frac{5}{8}$ "	7.50	2.608	184	1.35
	1"	7.05	2.675	47	1.27
Stream Cobble	2"	10.4	2.556	20	1.87
Siltstone	$\frac{1}{2}$ "	8.9	3.191	7	1.60
Steel Balls (1018)	1"	25.0	3.29	15	4.50
Glass Marbles	1"	6.50	3.21	52	1.17