



# WASHED SIEVE ANALYSIS

CLIENT: McClure Construction  
 DATE: 3/8/2016  
 SAMPLE: Septic Sand split 1 of 2

ANGUS McDONALD  
 GARY SHARPE  
 & ASSOCIATES, INC.

SINCE 1966

MOIST WEIGHT = 0.952 Kg  
 TOTAL DRY WEIGHT = 0.926 Kg  
 DRY WEIGHT AFTER WASH = 0.918 Kg

Water Content 2.81%

Unified Soil Classification System

Grain Size Comparison

Cobbles 0.0%  
 Coarse Gravel 0.0%  
 Fine Gravel 2.2%  
 Coarse Sand 20.1%  
 Medium Sand 55.5%  
 Fine Sand 21.2%  
 Silt & Clay 0.9%

Uniformity Coeff. 4.70

Permeability Range \*\*

Dense 89 ft/day  
 Loose 266 ft/day

2000 CT. Health Code Septic Fill Specs

%Retained on #4 2.4%

% Passing #4-#200 (Fill less Gravel) Permitted

%Passing #4 100.0% 100%

%Passing #10 79.4% 70%-100%

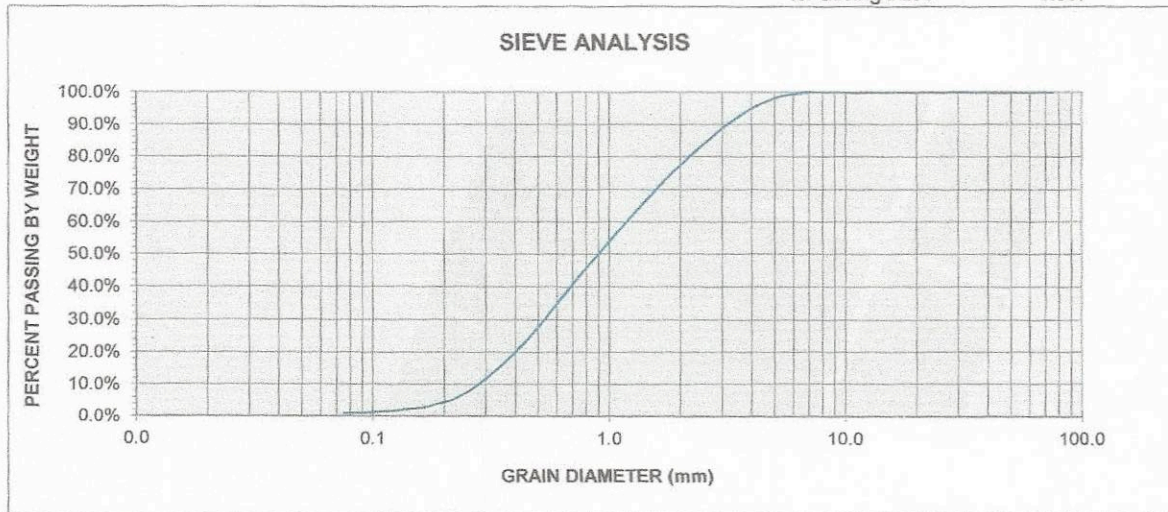
%Passing #40 22.6% \*10%-50%

%Passing #100 2.4% 0%-20%

%Passing #200 0.9% 0%-5%

Sieve Size (mm)	Weight Retained	% Retained	% Passing
3"	75.0	0.000	0.0%
1 1/2"	37.5	0.000	0.0%
1"	25.0	0.000	0.0%
3/4"	19.0	0.000	0.0%
1/2"	12.5	0.000	0.0%
#4	4.75	0.022	2.2%
#10	2.00	0.186	20.1%
#20	0.850	0.272	29.4%
#40	0.425	0.242	26.1%
#60	0.250	0.134	14.5%
#80	0.180	0.038	4.1%
#100	0.150	0.010	1.1%
#140	0.106	0.010	1.1%
#200	0.075	0.004	0.4%
Passing #200	0.008	0.008	0.9%

Weight of Material Passing #200 Sieve = Total Dry Weight - Dry Weight After Wash



\* Percent Passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 does not exceed 5%.

\*\* Based on empirical relationship by Hazen (1911) relating permeability to the D10 grain size. Accuracy diminishes with >5% passing the #200 Sieve or permeability values <.3 ft/day. Relationship invalid when D10 < .1mm or D10 > 3mm



# WASHED SIEVE ANALYSIS

CLIENT: McClure Construction  
 DATE: 3/8/2016  
 SAMPLE: Septic Sand split 2 of 2

ANGUS McDONALD  
 GARY SHARPE  
 & ASSOCIATES, INC.

SINCE 1966

MOIST WEIGHT = 0.836 Kg  
 TOTAL DRY WEIGHT = 0.814 Kg  
 DRY WEIGHT AFTER WASH = 0.810 Kg

Water Content 2.70%

Unified Soil Classification System

Grain Size Comparison

Cobbles 0.0%  
 Coarse Gravel 0.0%  
 Fine Gravel 2.2%  
 Coarse Sand 20.9%  
 Medium Sand 55.0%  
 Fine Sand 21.4%  
 Silt & Clay 0.5%

Uniformity Coeff. 4.72

Permeability Range \*\*

Dense 90 ft/day  
 Loose 270 ft/day

2000 CT. Health Code Septic Fill Specs

%Retained on #4 2.2%

% Passing #4-#200 (Fill less Gravel) Permitted

%Passing #4 100.0% 100%

%Passing #10 78.6% 70%-100%

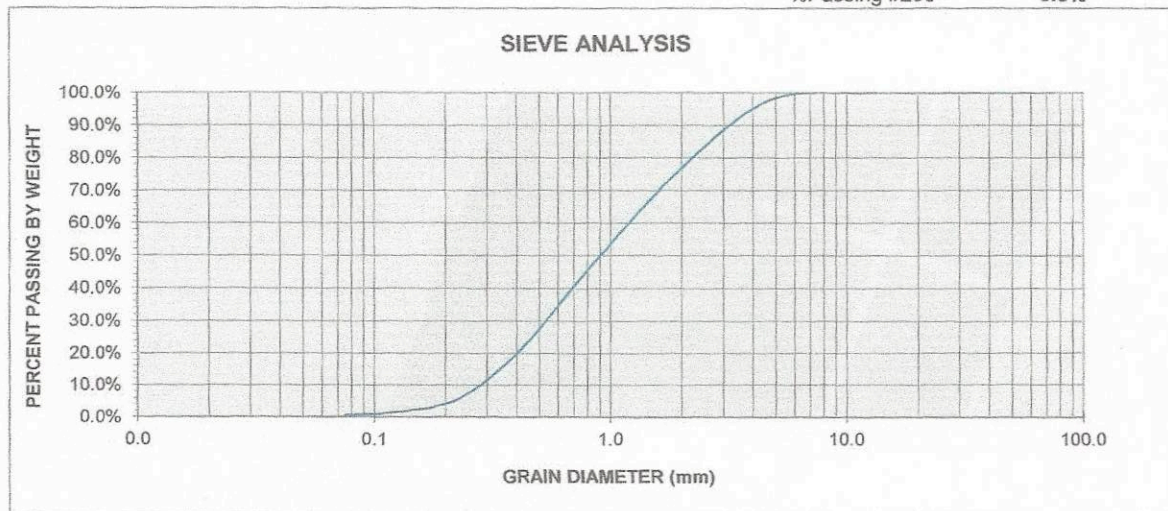
%Passing #40 22.4% \*10%-50%

%Passing #100 2.3% 0%-20%

%Passing #200 0.5% 0%-5%

Sieve Size (mm)	Weight Retained	% Retained	% Passing	
3"	75.0	0.000	0.0%	100.0%
1 1/2"	37.5	0.000	0.0%	100.0%
1"	25.0	0.000	0.0%	100.0%
3/4"	19.0	0.000	0.0%	100.0%
1/2"	12.5	0.000	0.0%	100.0%
#4	4.75	0.018	2.2%	97.8%
#10	2.00	0.170	20.9%	76.9%
#20	0.850	0.236	29.0%	47.9%
#40	0.425	0.212	26.0%	21.9%
#60	0.250	0.118	14.5%	7.4%
#80	0.180	0.034	4.2%	3.2%
#100	0.150	0.008	1.0%	2.2%
#140	0.106	0.010	1.2%	1.0%
#200	0.075	0.004	0.5%	0.5%
Passing #200	0.004	0.004	0.5%	

Weight of Material Passing #200 Sieve = Total Dry Weight - Dry Weight After Wash



\* Percent Passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 does not exceed 5%.

\*\* Based on empirical relationship by Hazen (1911) relating permeability to the D<sub>10</sub> grain size. Accuracy diminishes with >5% passing the #200 Sieve or permeability values <.3 ft/day. Relationship invalid when D<sub>10</sub> < .1mm or D<sub>10</sub> > 3mm