SEVERN TRENT STL

Geotechnical Analysis
Sample Data Summary Package

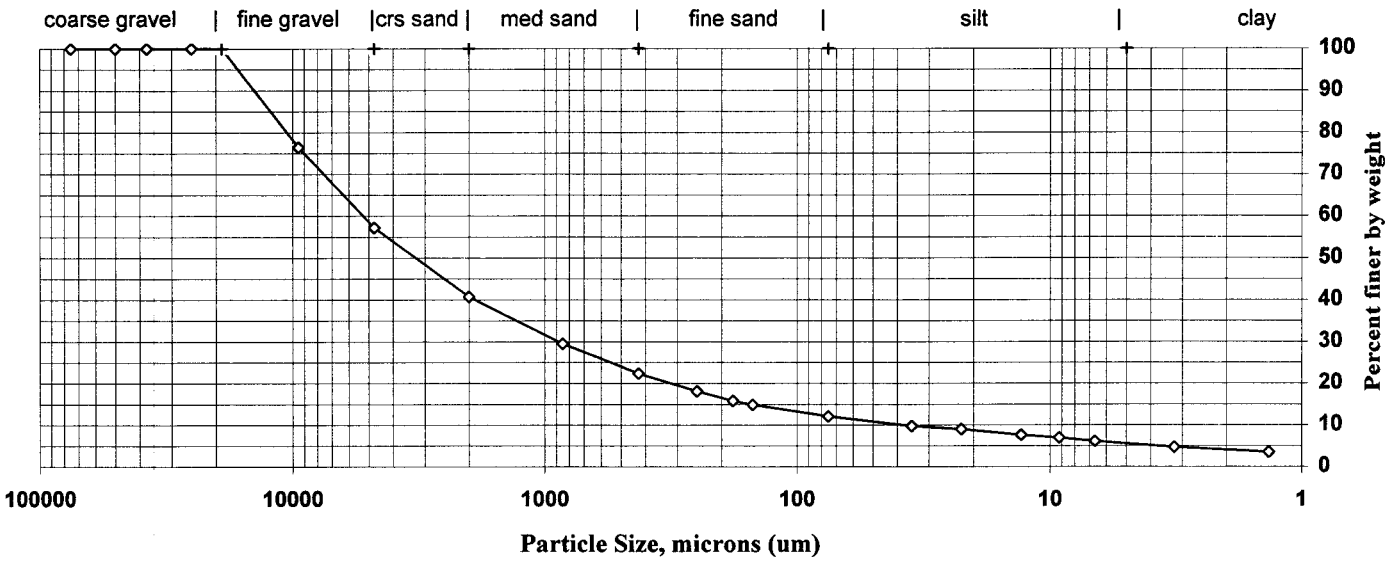
Particle Size of Soils by ASTM D422

Sample preparation method: **D2217**

Client:	EASEAT	**Project No.:**	23046	**ETR(s) #:**	95004
Client Code:	EASEAT	**Job No.:**	N/A	**SDG(s):**	IDD001
Date Received:	25-Jul-03	**Start Date:**	12-Aug-03	**End Date:**	21-Aug-03

Lab ID: 535843 **Sample ID:** SD05

Percent Solids:	76.1%		**Maximum Particle Size:**	19 mm
Specific Gravity:	2.65	(assumed)	**Shape (> #10):**	subangular
Non-soil mass:	0.0%		**Hardness (> #10):**	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	76.5	23.5
#4	4750	57.2	19.3
#10	2000	40.8	16.5
#20	850	29.5	11.2
#40	425	22.4	7.2
#60	250	18.1	4.3
#80	180	15.8	2.3
#100	150	14.9	0.9
#200	75	12.1	2.8
Hydrometer	35.1	9.8	2.4
|	22.3	9.0	0.7
|	13.0	7.6	1.4
|	9.2	6.9	0.7
|	6.6	6.1	0.8
|	3.2	4.7	1.4
V	1.4	3.5	1.2

Soil Classification	Percent of Total Sample
Gravel	42.8
Sand	45.1
Coarse Sand	16.5
Medium Sand	18.4
Fine Sand	10.3
Silt	6.0
Clay	6.1

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute

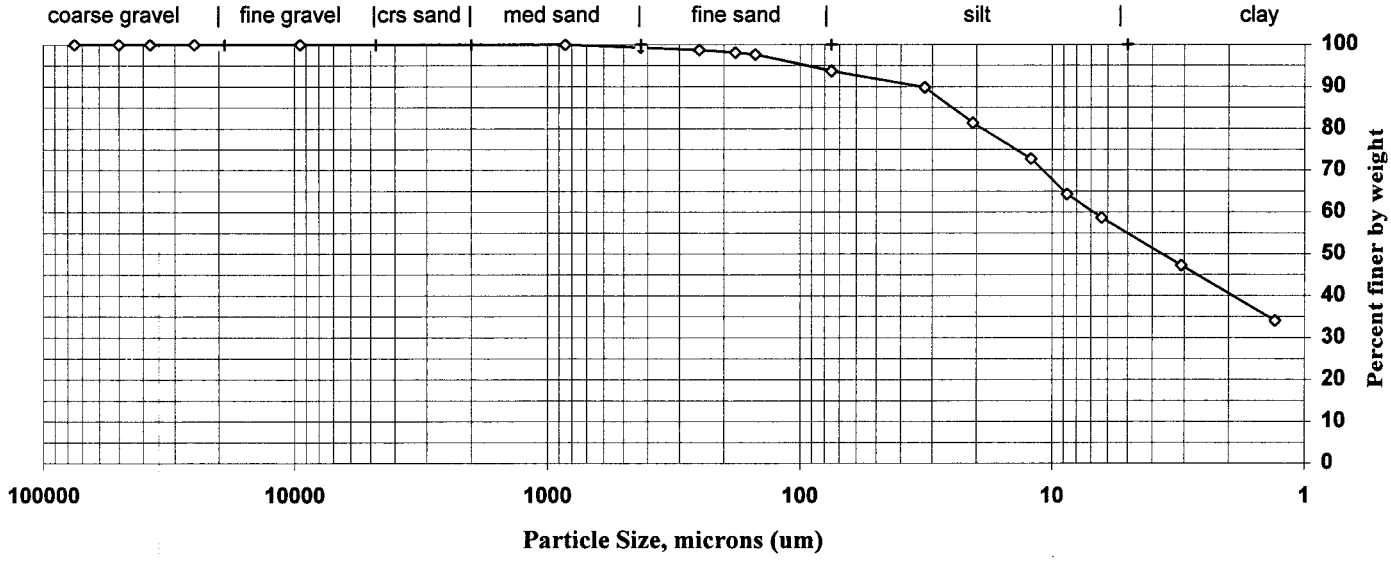
Particle Size of Soils by ASTM D422

Sample preparation method: **D2217**

Client:	EASEAT	**Project No.:**	23046	**ETR(s) #:**	95004
Client Code:	EASEAT	**Job No.:**	N/A	**SDG(s):**	IDD001
Date Received:	25-Jul-03	**Start Date:**	12-Aug-03	**End Date:**	21-Aug-03

Lab ID: 535844 **Sample ID:** SD14

Percent Solids:	43.6%		**Maximum Particle Size:**	Med sand
Specific Gravity:	2.65	(assumed)	**Shape (> #10):**	N/A
Non-soil mass:	0.6%		**Hardness (> #10):**	N/A



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	100.0	0.0
#40	425	99.3	0.7
#60	250	98.7	0.6
#80	180	98.1	0.6
#100	150	97.6	0.4
#200	75	93.7	3.9
Hydrometer	32.2	89.8	3.9
|	20.7	81.3	8.5
|	12.1	72.8	8.5
|	8.7	64.3	8.5
|	6.3	58.6	5.7
|	3.1	47.3	11.3
V	1.3	34.0	13.2

Soil Classification	Percent of Total Sample
Gravel	0.0
Sand	6.3
Coarse Sand	0.0
Medium Sand	0.7
Fine Sand	5.6
Silt	35.1
Clay	58.6

Dispersion Device: Mechanical mixer with a metal paddle.

Dispersion Period: 1 minute

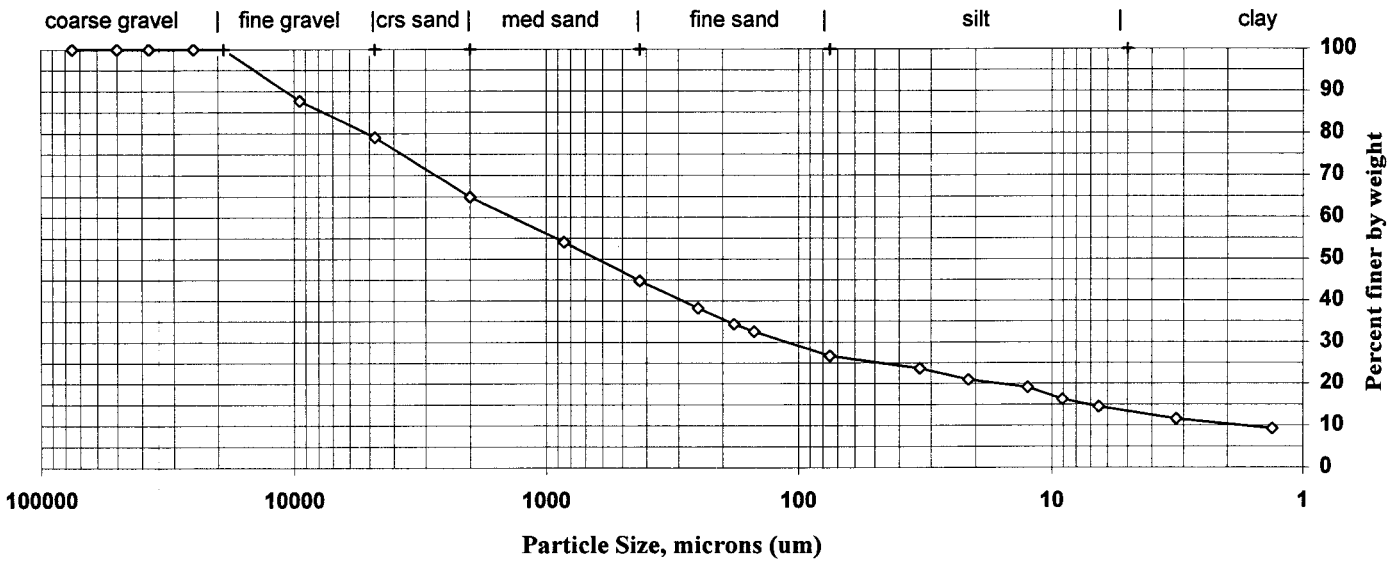
Particle Size of Soils by ASTM D422

Sample preparation method: **D2217**

Client:	EASEAT	**Project No.:**	23046	**ETR(s) #:**	95004
Client Code:	EASEAT	**Job No.:**	N/A	**SDG(s):**	IDD001
Date Received:	25-Jul-03	**Start Date:**	12-Aug-03	**End Date:**	21-Aug-03

Lab ID: 535846 **Sample ID:** SD13

Percent Solids:	70.3%		**Maximum Particle Size:**	19 mm
Specific Gravity:	2.65	(assumed)	**Shape (> #10):**	subangular
Non-soil mass:	0.0%		**Hardness (> #10):**	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	87.7	12.3
#4	4750	79.0	8.6
#10	2000	64.9	14.1
#20	850	54.1	10.8
#40	425	44.8	9.3
#60	250	38.3	6.5
#80	180	34.4	3.9
#100	150	32.6	1.8
#200	75	26.7	5.9
Hydrometer	33.2	23.7	3.0
|	21.4	20.9	2.8
|	12.5	19.1	1.8
|	9.1	16.3	2.8
|	6.5	14.5	1.8
|	3.2	11.5	2.9
V	1.3	9.2	2.3

Soil Classification	Percent of Total Sample
Gravel	21.0
Sand	52.4
Coarse Sand	14.1
Medium Sand	20.1
Fine Sand	18.1
Silt	12.2
Clay	14.5

Dispersion Device: Mechanical mixer with a metal paddle.

Dispersion Period: 1 minute

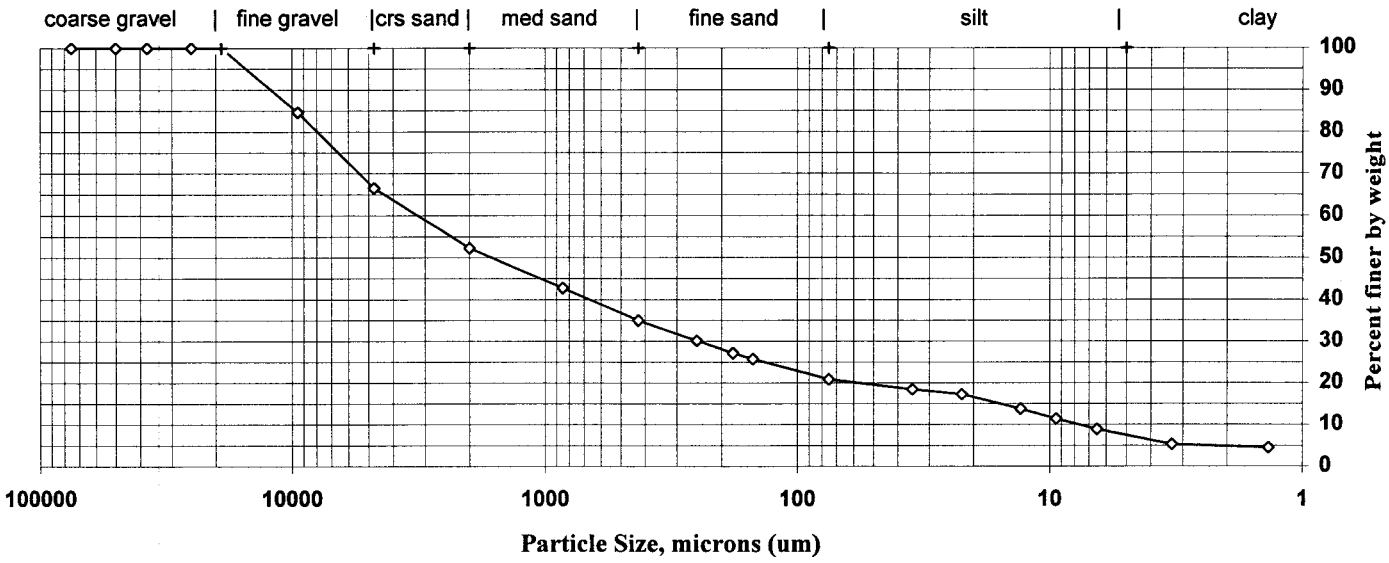
Particle Size of Soils by ASTM D422

Sample preparation method: **D2217**

Client:	EASEAT	**Project No.:**	23046	**ETR(s) #:**	95004
Client Code:	EASEAT	**Job No.:**	N/A	**SDG(s):**	IDD001
Date Received:	25-Jul-03	**Start Date:**	12-Aug-03	**End Date:**	21-Aug-03

Lab ID: 535847 **Sample ID:** SD12

Percent Solids:	62.6%		**Maximum Particle Size:**	19 mm
Specific Gravity:	2.65	(assumed)	**Shape (> #10):**	subangular
Non-soil mass:	1.8%		**Hardness (> #10):**	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	84.6	15.4
#4	4750	66.5	18.2
#10	2000	52.3	14.2
#20	850	42.7	9.6
#40	425	35.0	7.7
#60	250	30.1	4.9
#80	180	27.2	2.9
#100	150	25.8	1.4
#200	75	20.9	4.9
Hydrometer	35.0	18.5	2.4
|	22.2	17.3	1.2
|	13.0	13.8	3.5
|	9.4	11.4	2.4
|	6.5	8.8	2.6
|	3.3	5.3	3.5
V	1.4	4.5	0.8

Soil Classification	Percent of Total Sample
Gravel	33.5
Sand	45.6
Coarse Sand	14.2
Medium Sand	17.3
Fine Sand	14.2
Silt	12.0
Clay	8.8

Dispersion Device: Mechanical mixer with a metal paddle.

Dispersion Period: 1 minute

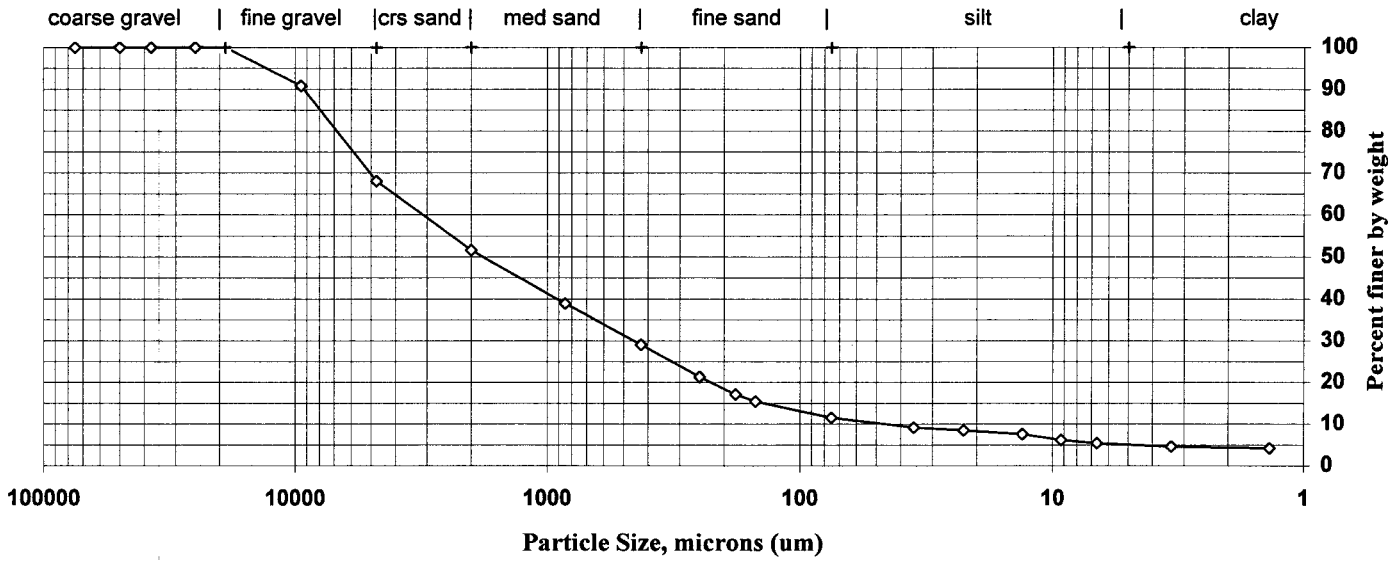
Particle Size of Soils by ASTM D422

Sample preparation method: **D2217**

Client:	EASEAT	**Project No.:**	23046	**ETR(s) #:**	95004
Client Code:	EASEAT	**Job No.:**	N/A	**SDG(s):**	IDD001
Date Received:	25-Jul-03	**Start Date:**	12-Aug-03	**End Date:**	21-Aug-03

Lab ID: 535848 **Sample ID:** SD07

Percent Solids:	73.1%		**Maximum Particle Size:**	19 mm
Specific Gravity:	2.65	(assumed)	**Shape (> #10):**	subangular
Non-soil mass:	0.6%		**Hardness (> #10):**	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	90.8	9.2
#4	4750	68.0	22.8
#10	2000	51.6	16.4
#20	850	38.9	12.7
#40	425	29.0	9.8
#60	250	21.3	7.7
#80	180	17.1	4.2
#100	150	15.5	1.7
#200	75	11.5	3.9
Hydrometer	35.5	9.2	2.4
|	22.5	8.4	0.7
|	13.2	7.6	0.8
|	9.2	6.2	1.4
|	6.7	5.4	0.7
|	3.4	4.6	0.8
V	1.4	4.2	0.4

Soil Classification	Percent of Total Sample
Gravel	32.0
Sand	56.5
Coarse Sand	16.4
Medium Sand	22.6
Fine Sand	17.5
Silt	6.1
Clay	5.4

Dispersion Device: Mechanical mixer with a metal paddle.

Dispersion Period: 1 minute

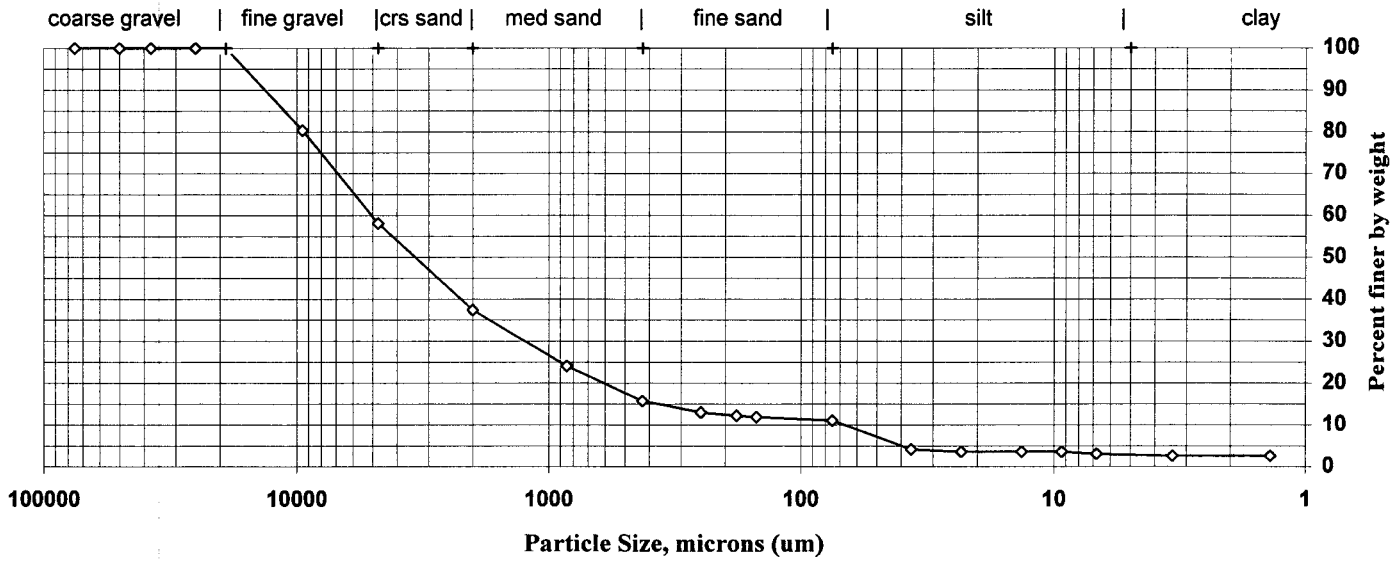
Particle Size of Soils by ASTM D422

Sample preparation method: **D2217**

Client:	EASEAT	**Project No.:**	23046	**ETR(s) #:**	95004
Client Code:	EASEAT	**Job No.:**	N/A	**SDG(s):**	IDD001
Date Received:	25-Jul-03	**Start Date:**	12-Aug-03	**End Date:**	21-Aug-03

Lab ID: 535849 **Sample ID:** SD06

Percent Solids:	84.9%		**Maximum Particle Size:**	19 mm
Specific Gravity:	2.65	(assumed)	**Shape (> #10):**	subangular
Non-soil mass:	0.1%		**Hardness (> #10):**	hard



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	80.4	19.6
#4	4750	58.1	22.3
#10	2000	37.4	20.7
#20	850	24.1	13.3
#40	425	15.7	8.3
#60	250	13.0	2.7
#80	180	12.2	0.8
#100	150	11.9	0.3
#200	75	11.1	0.8
Hydrometer	36.5	4.2	6.9
|	23.2	3.6	0.6
|	13.4	3.6	0.0
|	9.3	3.6	0.0
|	6.8	3.1	0.6
|	3.4	2.6	0.5
V	1.4	2.6	0.0

Soil Classification	Percent of Total Sample
Gravel	41.9
Sand	47.0
Coarse Sand	20.7
Medium Sand	21.6
Fine Sand	4.7
Silt	8.0
Clay	3.1

Dispersion Device: Mechanical mixer with a metal paddle.
Dispersion Period: 1 minute