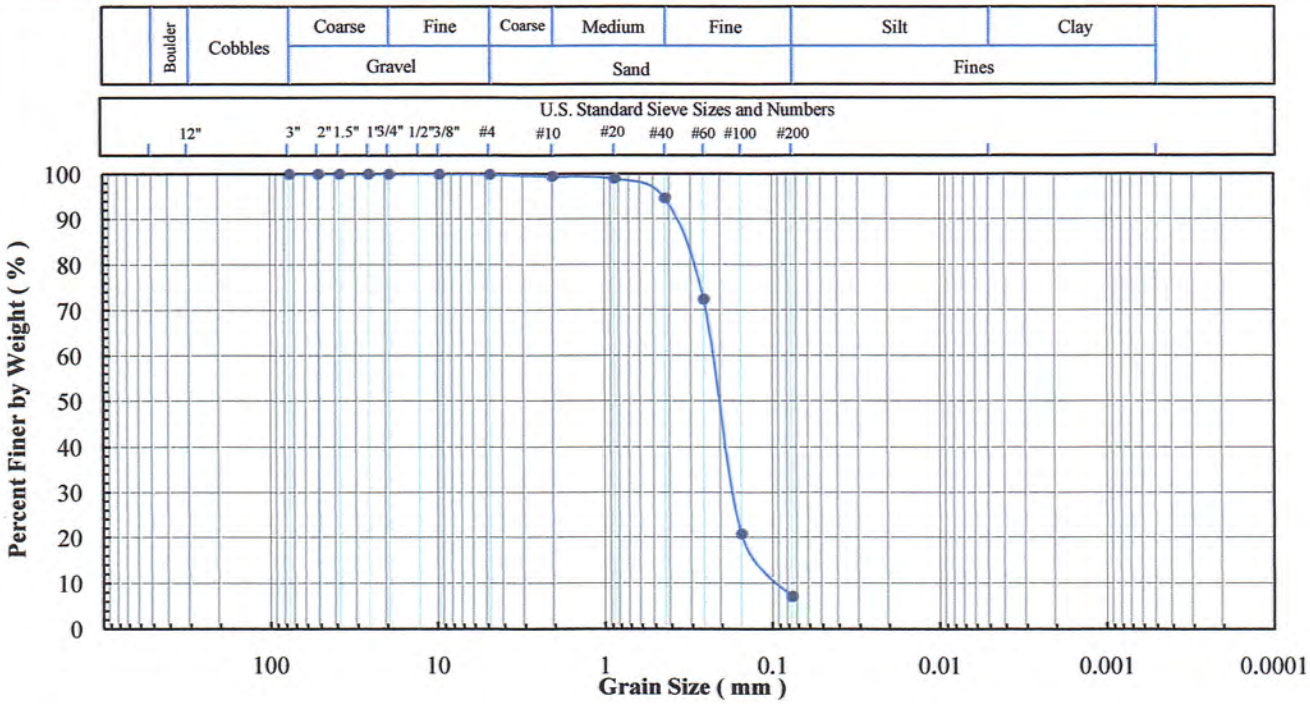
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	PSL-01
Lab Sample No:	14B057

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



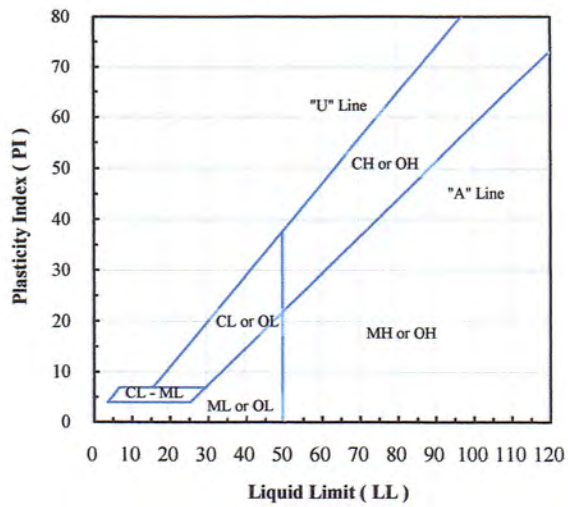
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	99.9
#10	2.00	99.5
#20	0.850	99.0
#40	0.425	94.7
#60	0.250	72.4
#100	0.150	20.8
#200	0.075	7.1

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	0.1
Sand (%):	92.8
Fines (%):	7.1
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.3
Coeff. Curv. (Cc):	1.4



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
PSL-01	14B057	7.7	7.1				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

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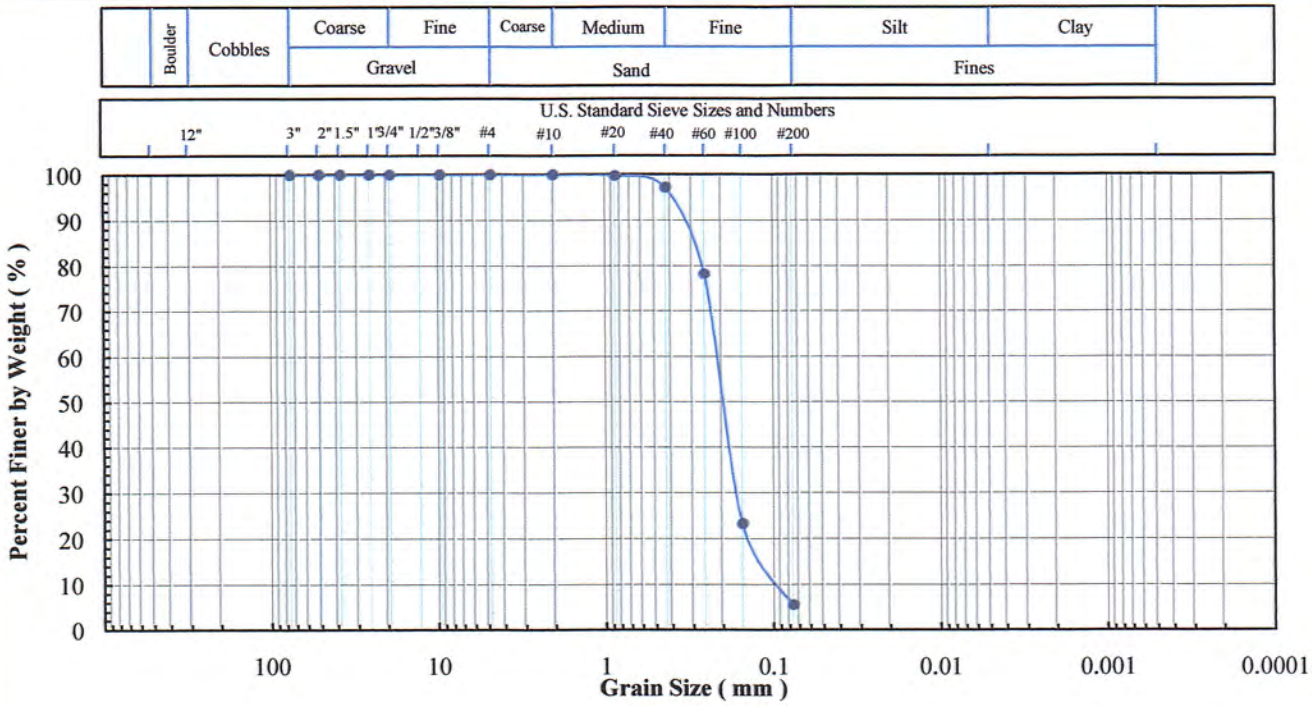
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	PSL-02
Lab Sample No:	14B058

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



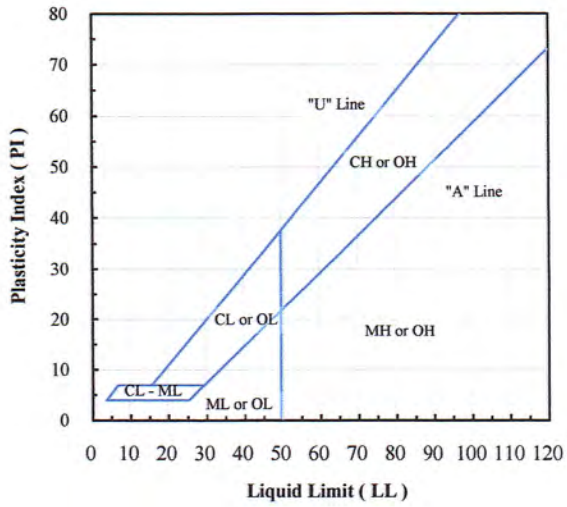
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.8
#40	0.425	97.2
#60	0.250	78.3
#100	0.150	23.3
#200	0.075	5.6

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	94.4
Fines (%):	5.6
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.1
Coeff. Curv. (Cc):	1.2



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
PSL-02	14B058	9.1	5.6				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, MSR

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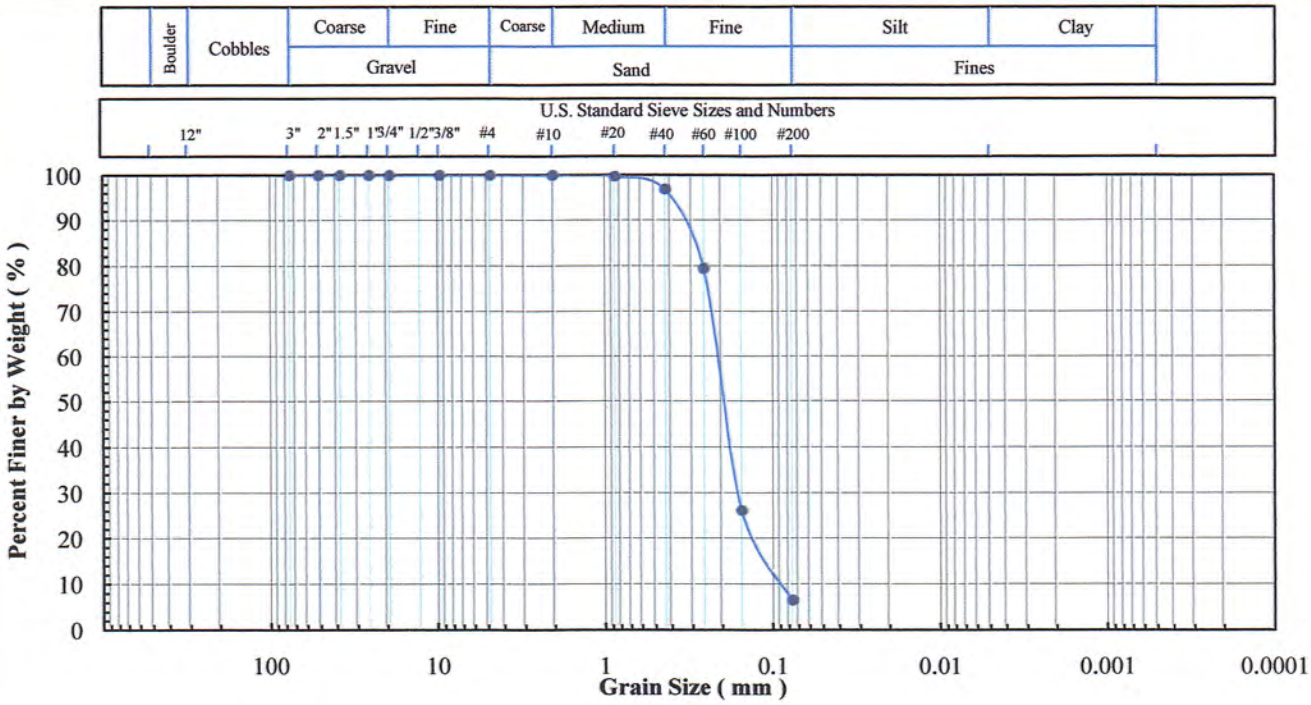
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	PSL-03
Lab Sample No:	14B059

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



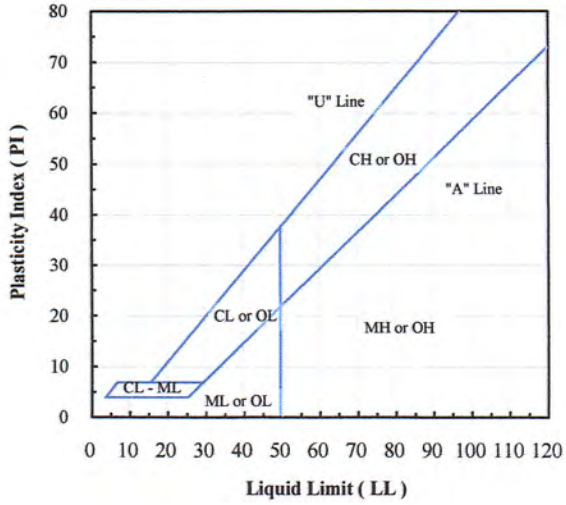
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.8
#40	0.425	96.9
#60	0.250	79.4
#100	0.150	26.2
#200	0.075	6.6

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	93.4
Fines (%):	6.6
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.3
Coeff. Curv. (Cc):	1.4



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
PSL-03	14B059	8.1	6.6				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

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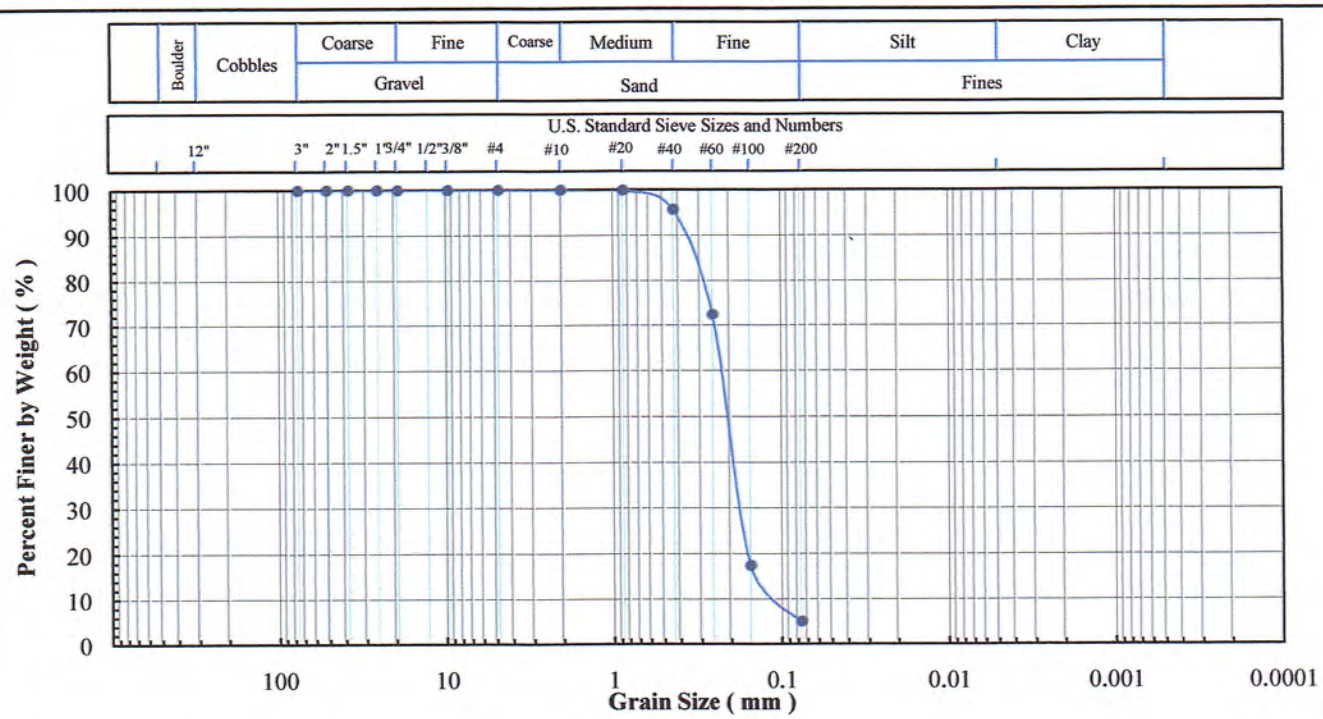
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	PSL-04
Lab Sample No:	14B060

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



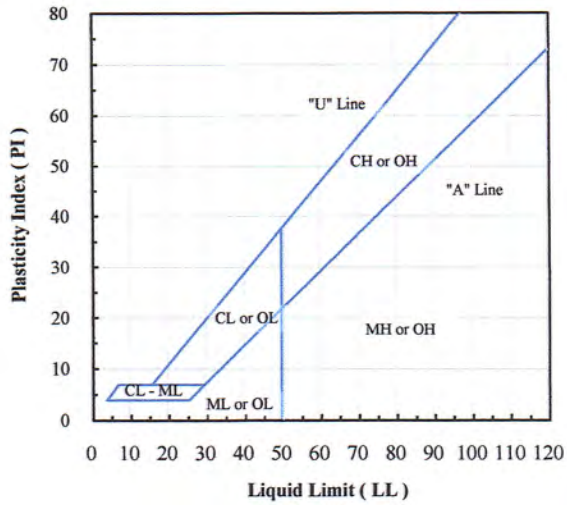
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.9
#40	0.425	95.7
#60	0.250	72.5
#100	0.150	17.5
#200	0.075	5.1

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	94.9
Fines (%):	5.1
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	1.8
Coeff. Curv. (Cc):	1.1



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
PSL-04	14B060	7.8	5.1				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

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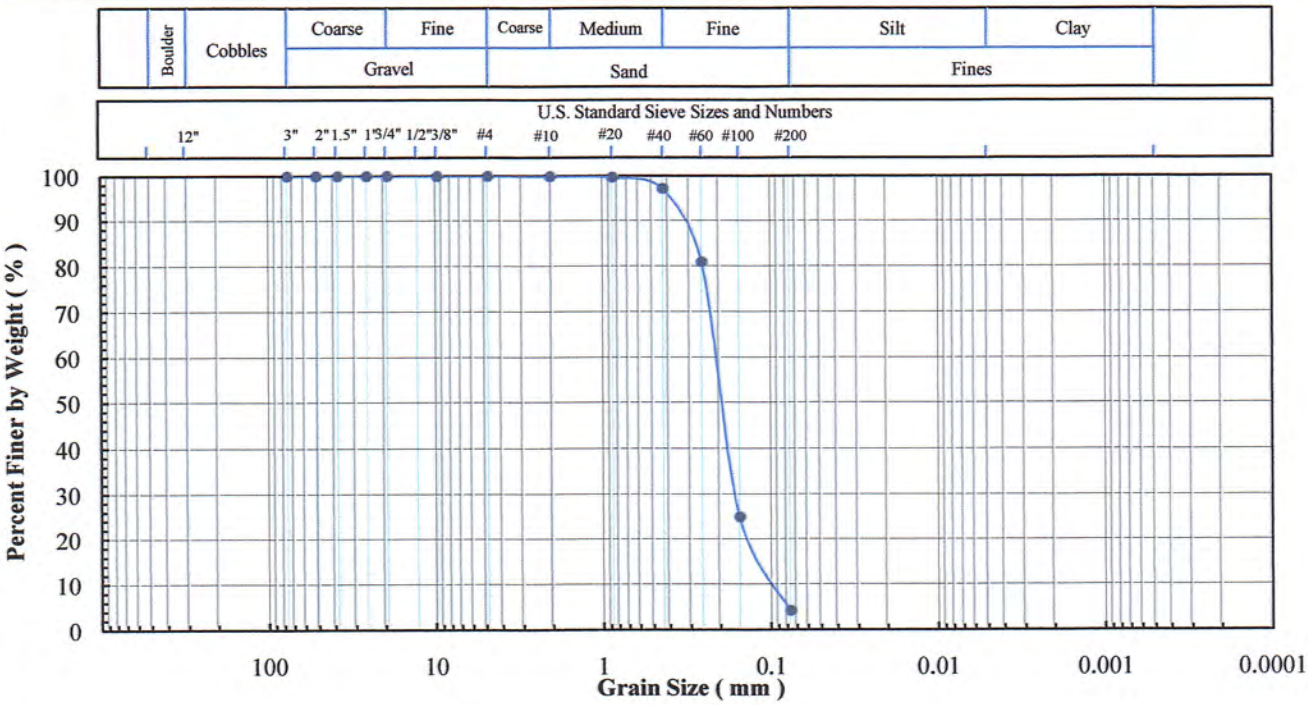
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	PSL-05
Lab Sample No:	14B061

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



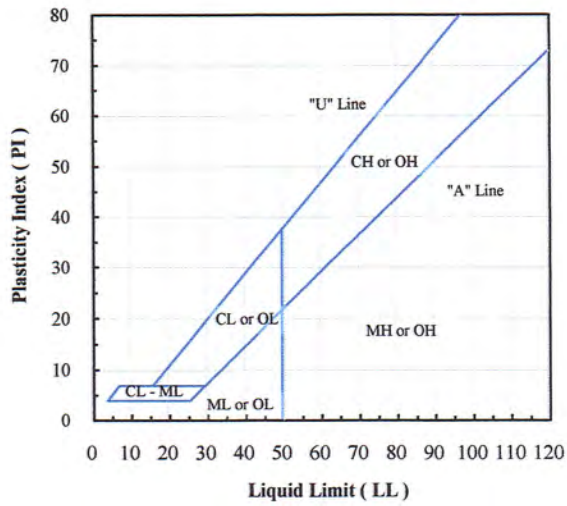
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	99.9
#20	0.850	99.7
#40	0.425	97.2
#60	0.250	80.9
#100	0.150	24.9
#200	0.075	4.2

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	95.8
Fines (%):	4.2
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.1
Coeff. Curv. (Cc):	1.2



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
PSL-05	14B061	4.6	4.2				SP - Poorly graded sand

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

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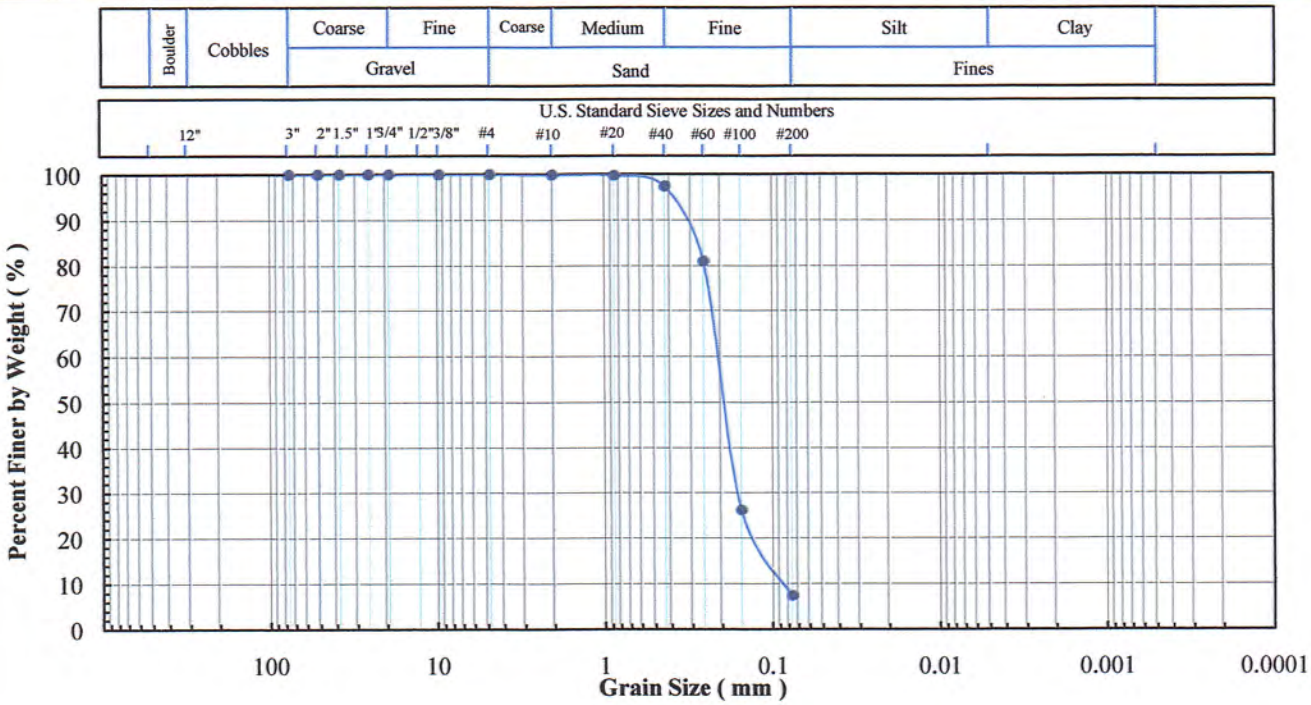
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	PSL-06
Lab Sample No:	14B062

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



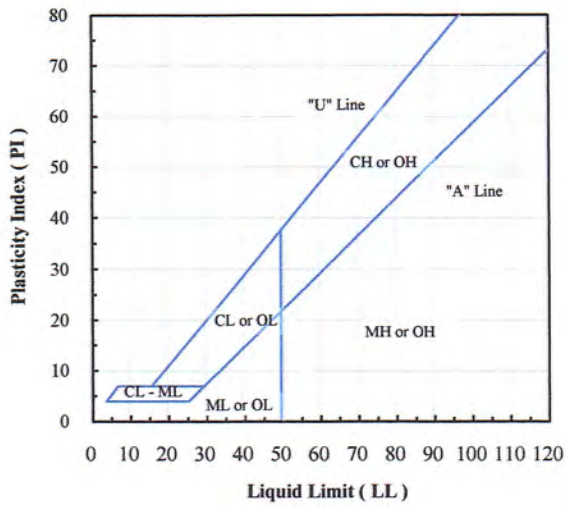
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	99.9
#20	0.850	99.8
#40	0.425	97.4
#60	0.250	81.0
#100	0.150	26.2
#200	0.075	7.5

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	92.5
Fines (%):	7.5
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.4
Coeff. Curv. (Cc):	1.4



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
PSL-06	14B062	4.3	7.5				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

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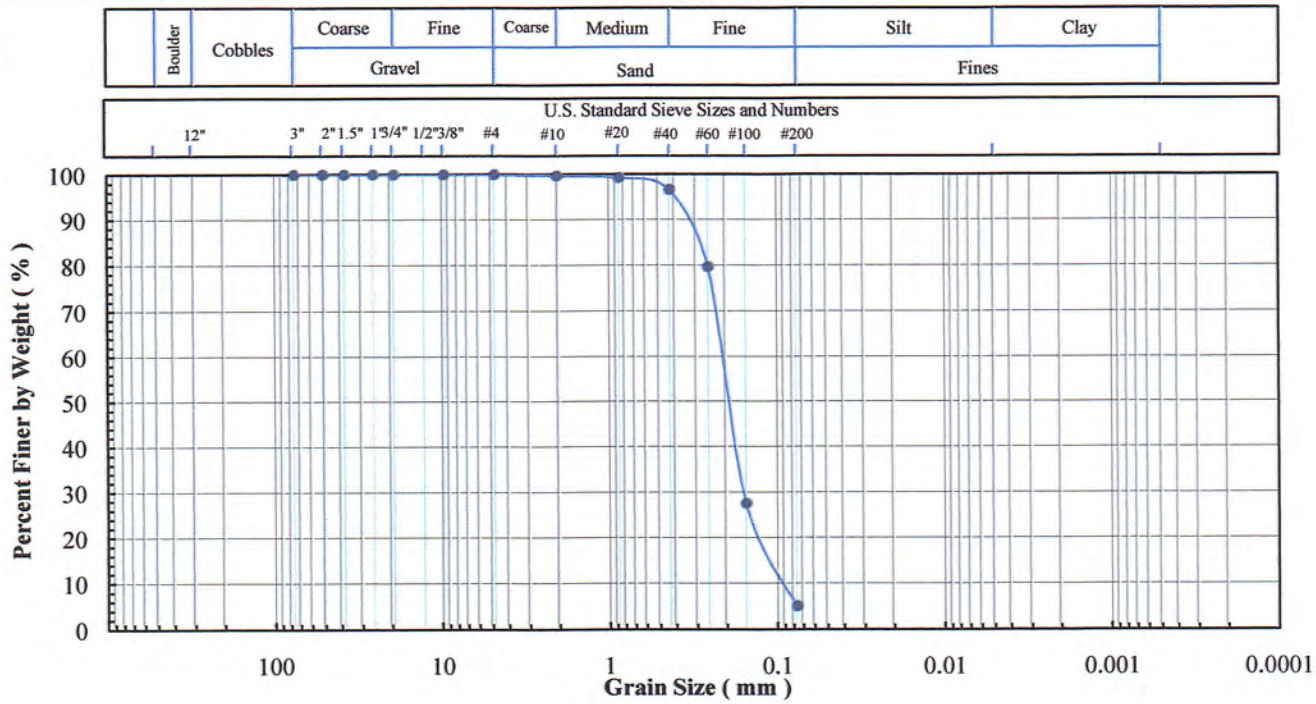
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	PSL-07
Lab Sample No:	14B063

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



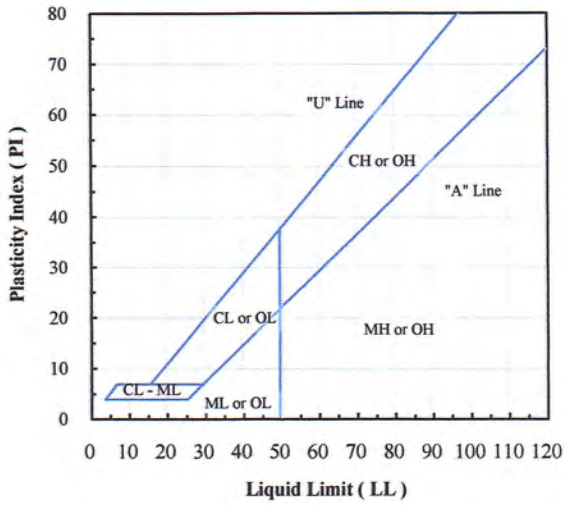
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	99.7
#20	0.850	99.3
#40	0.425	96.7
#60	0.250	79.6
#100	0.150	27.6
#200	0.075	5.1

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	94.9
Fines (%):	5.1
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.3
Coeff. Curv. (Cc):	1.3



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
PSL-07	14B063	6.1	5.1				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

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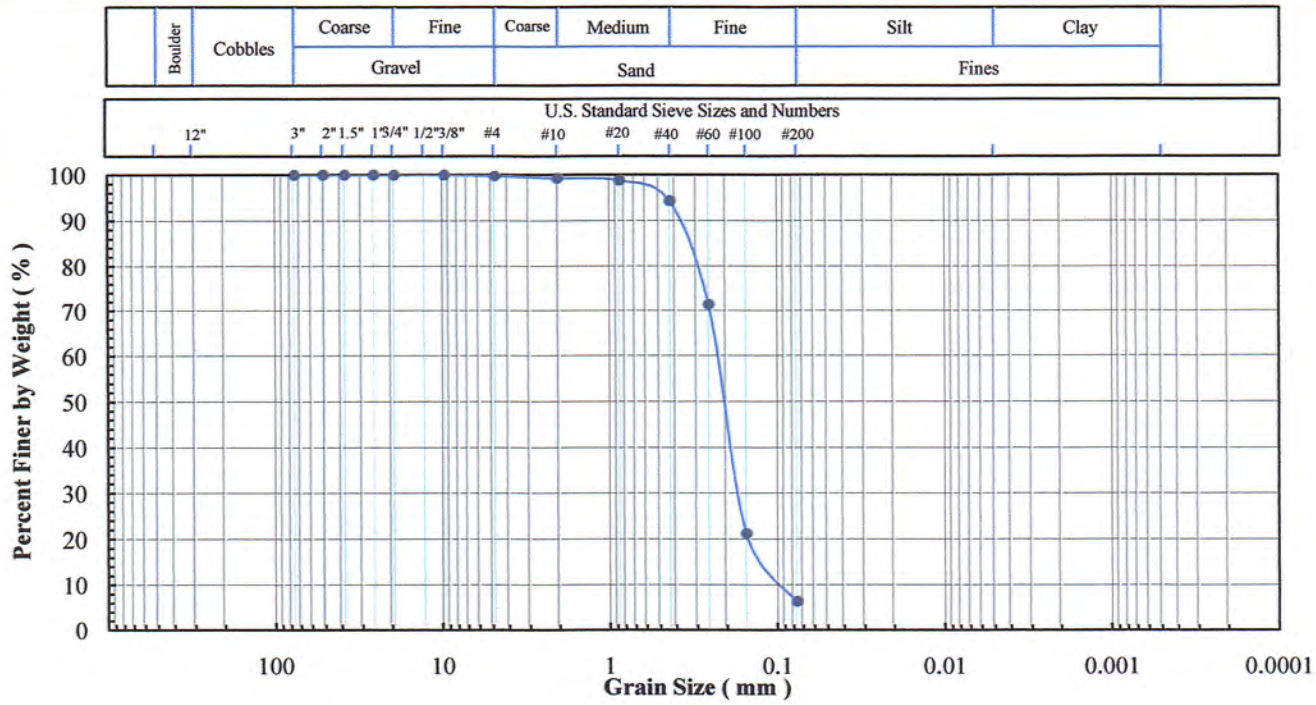
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	PSL-08
Lab Sample No:	14B064

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



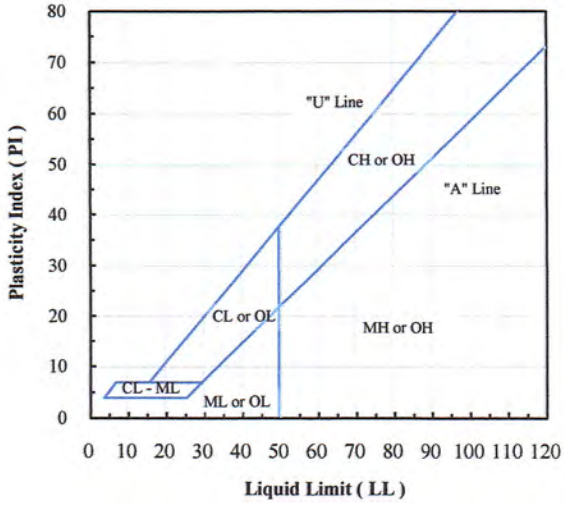
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	99.8
#10	2.00	99.3
#20	0.850	98.8
#40	0.425	94.3
#60	0.250	71.4
#100	0.150	21.3
#200	0.075	6.4

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	0.2
Sand (%):	93.4
Fines (%):	6.4
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.3
Coeff. Curv. (Cc):	1.3



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
PSL-08	14B064	8.2	6.4				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR