

# TOWN OF ACTON

Office of Code Enforcement: 207-636-3497 x410

Email: [ceo@actonmaine.org](mailto:ceo@actonmaine.org)

## SOILS CLASSIFICATION FORM

Property Owner \_\_\_\_\_ Map # \_\_\_\_\_ Lot # \_\_\_\_\_ Date: \_\_\_\_\_

Project Address \_\_\_\_\_ Telephone # \_\_\_\_\_

Telephone \_\_\_\_\_ Email \_\_\_\_\_

Description of Proposed Construction: \_\_\_\_\_

Unified Soil Classification	Soil Description	Drainage Characteristics <sup>a</sup>	Frost Heave Potential	Volume Change Potential Expansion <sup>b</sup>	Load-Bearing Pressure (lbs./square ft.) <sup>c</sup>
System Symbol					
<input type="checkbox"/> <b>GW</b>	Well-graded gravels, gravel sand mixtures, little or no fines	Good	Low	Low	3,000
<input type="checkbox"/> <b>GP</b>	Poorly graded gravels or gravel sand mixtures, little or no fines	Good	Low	Low	3,000
<input type="checkbox"/> <b>SW</b>	Well-graded sands, gravelly sands, little or no fines	Good	Low	Low	2,000
<input type="checkbox"/> <b>SP</b>	Poorly graded sands or gravelly sands, little or no fines	Good	Low	Low	2,000
<input type="checkbox"/> <b>GM</b>	Silty gravels, gravel-sand-silt mixtures	Good	Medium	Low	2,000
<input type="checkbox"/> <b>SM</b>	Silty sand, sand-silt mixtures	Good	Medium	Low	2,000
<input type="checkbox"/> <b>GC</b>	Clayey gravels, gravel-sand mixtures	Medium	Medium	Low	2,000
<input type="checkbox"/> <b>SC</b>	Clayey sands, sand-clay mixtures	Medium	Medium	Low	2,000
<input type="checkbox"/> <b>ML</b>	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	Medium	High	Low	1,500 <sup>d</sup>
<input type="checkbox"/> <b>CL</b>	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	Medium	Medium	Medium to Low	1,500 <sup>d</sup>
<input type="checkbox"/> <b>CH</b>	Inorganic clays of high plasticity, fat clays	Poor	Medium	High	1,500 <sup>d</sup>
<input type="checkbox"/> <b>MH</b>	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	Poor	High	High	1,500 <sup>d</sup>
<input type="checkbox"/> <b>OL</b>	Organic silts and organic silty clays of low plasticity	Poor	Medium	Medium	
<input type="checkbox"/> <b>OH</b>	Organic clays of medium to high plasticity, organic silts	Unsatisfactory	Medium	High	
<input type="checkbox"/> <b>Pt</b>	Peat and other highly organic soils	Unsatisfactory	Medium	High	
<input type="checkbox"/>	Crystalline bedrock				12,000
<input type="checkbox"/>	Sedimentary and foliated rock				4,000

For SI: 1 inch + 25.4 mm

a. The percolation rate for good drainage is over 4 inches/ hr., medium drainage 2 to 4 inches/ hr. and poor less than 2 inches/hr.

b. Soils which allow potential expansion typically have a plasticity index (PI) of 0 – 15, soil with a medium potential expansion 10-35 and soil with a high potential expansion have a PI greater than 20.

c. When soil tests are required, the allowable bearing capacities of the soil shall be part of the recommendations.

d. Where the Building Official determines that in-place soils with an allowable bearing capacity of less than 1,500 psf are likely to be present at the site, the allowable bearing capacity shall be determined by a soils investigation.