

NOTICE TO APPLICANTS FOR NEW DEVELOPMENT PROJECTS SOIL QUALITY & FERTILIZER USE REQUIREMENTS (7/10/23)



In November 2020, the South Portland City Council approved amendments to Chapter 32 of the City's ordinance. The [Landcare Management Ordinance](#) includes minor changes to the existing pesticide use provisions, now under Article I, and an entirely new section for fertilizer use under Article II. Most of these amendments became effective in early December 2020.

In addition to regulating fertilizer applications on existing lawns and turf, Chapter 32 also includes soil quality requirements for new development projects¹ that result in 2,000 square feet or more of soil disturbance that will not be covered with impervious surfaces (e.g., buildings or pavement). These provisions, which became effective in November 2021 and were amended in July 2023, include:

- The site must have at least 6 inches of topsoil containing a minimum of 4.5% organic material and a pH level between 5.8 and 7.2 for areas that will have turf, vegetation, and/or plantings.
 - [Soil Quality Permit Application](#): must be completed prior to the start of any construction.
 - [Soil analysis](#): must be completed to verify compliance with organic content and pH requirements.
- [Soil compaction](#): penetrometer readings must be measured at a depth of 10" below the surface and no more than 50% of the readings can exceed a penetrometer reading of 300 psi.
 - If the construction site area consists of 50% or more of ledge, then the penetrometer readings will be measured at a depth of 6".
- Any fertilizer applied to the topsoil in project area must be organic² and must be incorporated to a depth of 2-3 inches.

The City has contracted the Cumberland County Soil & Water Conservation District (CCSWCD) to confirm all of these parameters. Fees for these services are listed on the soil quality permit application form ([Attachment A](#)).

While not required, developers/contractors can pre-qualify soil stockpiles to expedite the construction process. This would consist of collecting representative samples from prepared stockpiles well in advance of any planned construction and sending them to the Maine Soil Testing Service for analysis³. Developers/contractors must then provide the analytical results to the City and the CCSWCD will verify that the soil quality criteria have been met with soil tests collected during the onsite inspection.

¹ New development projects are defined as any alterations of land for the purposes of construction or reconstruction that results in soil disturbance and/or compaction, vegetation removal, and/or regrading.

² There are waiver criteria for the use of synthetic fertilizers under certain circumstances ([see below](#)).

³ See [form below](#) (request [\\$18 Standard Soil Test](#))

The summary for the soil quality permit application process is as follows:

1. Applicants complete application form ([Attachment A](#)).
2. If pre-qualifying soil quality (*not required but intended to help expedite construction process*):
 - a. Applicants/developers/contractors collect representative sample(s) from prepared soil stockpile(s) and send to Maine Soil Testing Service for analysis using the Field & Soil Sample Information Form ([Attachment B](#)).
 - b. Provide soil quality analytical results to Department of Planning & Development at the earliest possible convenience to avoid potential delays in the construction process.
3. During the construction process (*also required for pre-qualified projects*):
 - a. Contact Chris Baldwin or Ali Clift with the CCSWCD (207-892-4700) to schedule an inspection immediately after soil has been applied for final grades as specified in project plans.
 - b. CCSWCD staff will visit the site to measure compaction and collect soil samples ([Attachment C](#)).
 - c. CCSWCD will provide test results to permit applicant and Code Enforcement Officer within three weeks of site inspection visit.
 - i. If test results indicate soil fails to meet soil quality standards, the applicant must take corrective actions and contact CCSWCD for a re-inspection within two weeks of a failed test.
 - ii. Re-inspection fee(s) will be equal to the original inspection fee.

Fertilizer use provisions for new development projects include:

- Applications of organic starter fertilizer for new development may contain phosphorus without a soil test.
- Two fertilizer applications are permitted for one calendar year from the date of first application only.
- For each application, total nitrogen and phosphorus may not exceed 1 lb. per 1,000 square feet.

A waiver may be granted to use synthetic fertilizer for new development, prior to the actual use of the synthetic fertilizer, if one or more the following conditions exists:

- The soil temperature is less than 55 degrees Fahrenheit and reasonable grounds exist to justify fertilizer use at that location and at that time.
- A suitable organic product that meets the nutrient needs of the soil while promoting plant growth is unavailable.

For more information on soil pre-qualification or the waiver application process, please visit the [Grow Healthy South Portland website](#) or contact the Sustainability Office at 347-4148.



ATTACHMENT A

Department of Planning & Development
City of South Portland
496 Ocean Street
South Portland, Maine 04106
(207) 767-7603

SOIL QUALITY PERMIT APPLICATION

For Office Use: Send copy to: Cumberland County Soil and Water Conservation District Engineer – Christopher Baldwin, P.E., cbaldwin@cumberlandswcd.org

Date: Fee Paid: Map: Lot: Zoning District:
Application #: Permit #: Date Issued:

Type of Work: New Structure Alterations Change of Occupancy Installation Change of Land Use Interior Demolition

PROJECT ADDRESS: TYPE OF OCCUPANCY: COMMERCIAL DWELLING (SINGLE) DWELLING (MULTI)
OWNER NAME: OWNER ADDRESS:
OWNER PHONE: OWNER EMAIL:
CONTRACTOR NAME: CONTRACTOR ADDRESS:
CONTRACTOR PHONE: CONTRACTOR EMAIL:
TENANT NAME: TENANT EMAIL:
PROJECT CONTACT NAME: PROJECT CONTACT EMAIL:

BRIEF DETAIL OF PROPOSED WORK:

PLEASE CHECK THE BELOW BOX IF YOU AGREE TO MEET STANDARDS BELOW:

Sec. 32-25 (B) SOIL QUALITY STANDARDS

- (i) SUB-SOIL COMPACTION CANNOT EXCEED A PENETROMETER READING OF 300 PSI TO A DEPTH OF 10" BELOW THE SURFACE (6" FOR SITES WITH 50% OR MORE OF LEDGE);
(ii) AT LEAST 6 INCHES OF TOPSOIL CONTAINING A MINIMUM OF 4.5% ORGANIC MATERIAL AND A pH LEVEL BETWEEN 5.8 AND 7.2 MUST BE PRESENT.

PRESENT USE OF LAND AND BUILDINGS: PROPOSED USE OF LAND AND BUILDINGS:

WETLANDS: YES NO SHORELAND: YES NO FLOODPLAIN: YES NO

INDICATE IF YOU ARE USING PRE-APPROVED SOIL: YES NO SOIL SUPPLIER:

FEE SCHEDULE:

PLEASE CHECK ONE BOX BELOW:

- < 1ac = \$330.00
1-10ac = \$440.00
>10ac = \$550.00

Written verification required within 6 months. It is the responsibility of the owner or contractor to contact the City Planning and Development Office to schedule the required inspections. I hereby acknowledge that I have read this application and state that the above is correct and agree to comply with all City ordinances and State laws regulating building construction. Work will not begin until the building permit card is posted.

SIGNATURE OF APPLICANT/AGENT: DATE:

CODE ENFORCEMENT OFFICER: DATE:



MAINE SOIL TESTING SERVICE

THE UNIVERSITY OF MAINE

FIELD AND SOIL SAMPLE INFORMATION FORM

SEND SAMPLES TO

Maine Soil Testing Service
5722 Deering Hall
Orono, Maine 04469-5722



MAKE CHECK OR MONEY ORDER PAYABLE TO:

Maine Soil Testing Service
PLEASE DO NOT SEND CASH
AMOUNT ENCLOSED



\$ _____

INSTRUCTIONS:

1. Before Sampling, Read Sampling Instructions on back of sheet 3.
2. **PLEASE CHOOSE STANDARD TEST OR COMPREHENSIVE TEST FOR EACH SAMPLE** (see price list for specifications).
3. Standard test is \$18 per sample. Comprehensive test is \$25 per sample. See price list on back page for additional tests and discounts.
4. **A SOIL BIOLOGY TEST** (see additional check off list) can be added to either Standard or Comprehensive Soil Test (see price list for specifications).
5. **A HIGH TUNNEL TEST** (see check off list) for \$25 includes recommendations to support higher yields (see price list for specifications).
6. Select crop code(s) for recommendations from front of sheet 3. If no match is found, write in crop name.
7. Please completely fill this form (up to 10 samples) before using another form.
8. After completing this form **SEND TOP SHEET ONLY** with samples and payment to the laboratory. Ship sample containers in cardboard box if possible. Attach check or money order to this form.
9. **PLEASE ALLOW 2 WEEKS FOR RETURN OF TEST RESULTS AND RECOMMENDATIONS.**

EMAIL REPORT OPTION:
A paper copy will automatically be sent. If you would also like us to e-mail your report (PDF format), please clearly print your e-mail address

NAME _____ MAILING ADDRESS _____ CITY _____ STATE _____ ZIP _____

DAYTIME PHONE NUMBER _____ DATE SAMPLES TAKEN _____ COUNTY WHERE FIELD(S) ARE LOCATED _____

PLEASE SELECT: STD. TEST (S) OR COMP. TEST (C)	SAMPLE NAME	NO. ACRES OR SQ. FT. (PLEASE SPECIFY)	RECOMMENDATION CROP CODE(S) (FRONT SHEET 3)	FORAGE CROPS: LIST REALISTIC YIELD GOAL	WILL POTATOES BE GROWN HERE IN THE NEXT 3 YRS.?		SPECIAL pH MANAGEMENT LEVEL: (see back of sheet 3) 2) Current pH (no lime) 3) 5.2 4) 5.5 5) 6.0 6) 6.5 7) 7.0	LIST PREVIOUS CROP: IF LEGUME, LIST PERCENT STAND	CHECK ALTERNATIVE OR ADDITIONAL TESTS REQUESTED (PRICES ON BACK OF SHEET 3)					
					NO	YES			BASIC TUNNEL	LONG-TERM TUNNEL	SOIL BIOLOGY	EXCH. SODIUM	SOLUBLE SALTS	PARTICLE SIZE
S / C														
S / C														
S / C														
S / C														
S / C														
S / C														
S / C														
S / C														
S / C														
S / C														

REQUEST FOR CONFIDENTIALITY
CHECK HERE IF YOU DO NOT WANT COPY OF
YOUR REPORT TO GO TO YOUR COUNTY
EXTENSION OR FSA OFFICE _____

WRITE ANY COMMENTS, PROBLEMS, OR REQUESTS FOR ADDITIONAL ANALYSIS (NOT LISTED ABOVE) ON THE BACK OF THIS SHEET

IF YOU WOULD LIKE **ADDITIONAL SAMPLE BOXES OR FORMS**, PLEASE INDICATE HOW MANY OF EACH: _____

LOCATE CROP(S) BELOW FOR WHICH YOU WANT A RECOMMENDATION. WRITE CODE NUMBER(S) – “3 DIGITS” – IN COLUMN ON SHEET 1.

AGRONOMIC CROPS
CODE NO.
101 Alfalfa (Over 50% stand) – Established
151 Alfalfa/Grass – new seeding
102 Clover (Over 50% stand) – Established
152 Clover/Grass – new seeding
104 Grass hay or haylage – 1 crop – Established
105 Grass hay or haylage – 2 crops – Established
154 Grass only (no Legumes) – new seeding
106 Pasture – Topdress
170 Conservation seeding or Wildlife food plot
125 Hops (commercial) – New or Established
130 Industrial Hemp (Licensed Commercial)
155 Oats only (without forage seeding) or oats underseeded with clover, plowed down next spring
156 Barley only (without forage seeding)
157 Spring Wheat only (without forage seeding)
167 Winter Wheat only (without forage seeding)
158 Winter Rye only (without forage seeding)
159 Buckwheat
160 Soybean/Lupin
161 Sudangrass or Sorghum-Sudan hybrids
163 Millet
164 Corn silage
166 Corn grain
165 Sunflower
175 Brassica Forage (rape turnip, typhon)
177 Canola

TURF
CODE NO.
201 Lawn, Playground – Existing
202 Baseball field, Golf Fairway – Existing
203 Football, Field Hockey, Soccer – Existing
205 Golf green or tee – Existing
211 All Turf – new seeding

COMMERCIAL VEGETABLES (MORE THAN ONE ACRE)
CODE NO.
302 Bean – Dry or Snap
304 Beets
305 Broccoli or Cauliflower (transplants only)
335 Broccoli (direct seeded only)
336 Cauliflower (direct seeded only)
306 Brussell Sprout, Cabbage
308 Carrot, Parsnip
310 All Vines – Cucumber, Gourd, Muskmelon, Pumpkin, Squash, Watermelon
311 Niteshades – Eggplant, Pepper, Tomato
313 Lettuce 324 Sweet Corn
315 Alliums 328 Roadside Stand (mix)
317 Pea 329 Asparagus (to be planted)
322 Spinach 330 Asparagus (established bed)
321 Radish, Rutabaga, Turnip

NON-ORGANIC GARDENS (LESS THAN 1 ACRE)	CHEMICAL FERTILIZER
CODE NO.	
391 Home garden vegetables, strawberry, and raspberry	
393 Home tree fruit	

ORGANIC GARDENS (COMMERCIAL & HOME)	NON-CHEMICAL FERTILIZER
CODE NO.	
392 All vegetables, strawberry, raspberry, and flowers	

COMMERCIAL FRUITS (MORE THAN ONE ACRE)
CODE NO.
401 Apple (new plantings only)
404 Raspberry / Grape – Established bed
405 Raspberry / Grape – To be planted
406 Strawberry – Established bed
407 Strawberry – To be planted
408 Stone fruit
409 Highbush Blueberry – To be planted
410 Highbush Blueberry – Established bed
411 Cranberry – To be planted
412 Cranberry – Established bog

FORESTRY
CODE NO.
601 Forestry – General
602 Forestry – Christmas Trees
603 Forestry – Nursery

COMMERCIAL POTATOES
PROCESSING AND SEED POTATOES
CODE NO.
After heavy red clover or alfalfa green manure
501 Early and low-nitrogen varieties
504 Mid-season varieties (includes Shepody)
502 Russet Burbank
503 Late-season varieties
After underseeded grains, non-legume green manures, broccoli, or old sod
506 Early and low-nitrogen varieties
509 Mid-season varieties (includes Shepody)
507 Russet Burbank
508 Late-season varieties
After grains (no underseeding), or replanted potatoes
511 Early and low-nitrogen varieties
514 Mid-season varieties (includes Shepody)
512 Russet Burbank
513 Late-season varieties
TABLE STOCK POTATOES
CODE NO.
After heavy red clover or alfalfa green manure
516 Early and low-nitrogen varieties
519 Mid-season varieties
517 Russet Burbank, Russet Norkotah, Superior
518 Late-season varieties
After underseeded grains, non-legume green manures, broccoli, or old sod
526 Early and low-nitrogen varieties
520 Mid-season varieties
527 Russet Burbank, Russet Norkotah, Superior
528 Late-season varieties
After grains (no underseeding), or replanted potatoes
529 Early and low-nitrogen varieties
521 Mid-season varieties
530 Russet Burbank, Russet Norkotah, Superior
531 Late-season varieties

ORNAMENTALS (CHEMICAL FERTILIZER ONLY)
CODE NO.
701 Annuals: Flower beds, Cut Flowers
702 Roses and other perennials
704 Azalea, rhododendron, and other acid-loving plants
705 Other shrubs
706 Shade Trees (Maple, etc.)
707 Evergreens (Pine, Spruce)

INSTRUCTIONS ON HOW TO TAKE A SOIL SAMPLE:

Soil is quite variable over a surprisingly small area. The following steps will help you get a soil sample that truly represents the area you want tested.

1 FORMS & CONTAINERS

Obtain sample information forms and containers from your County Extension office. This form should be filled out as completely as possible.

Additional forms can be downloaded and printed from our website:

umaine.edu/soiltestinglab

Additional forms and containers can also be ordered on our website.

2 EQUIPMENT

A soil sample can be taken with a probe, spade, garden trowel, or soil auger.

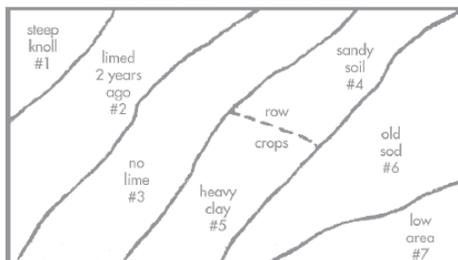
3 DEPTH

Areas to be planted to row crops or seeded down should be sampled to plow depth (or about 8 inches.) Areas in sod, such as lawns or hayfields, should be sampled to a 3- or 4-inch depth. Areas under tree crops should be sampled to a 12-inch depth.

4 AREAS OF SAMPLING

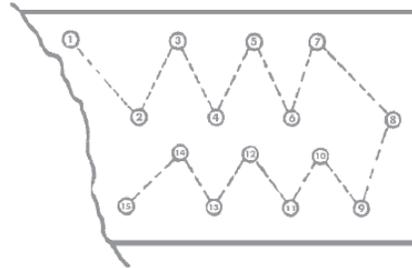
Low spots, trouble spots, and areas with obvious differences in soil type should be treated as separate sampling areas. Also, areas that have been treated differently in the past should be sampled separately. In areas where past treatments and soil types are uniform, limit the sampling area to 8 acres in size. Make a permanent field sampling map for your reference when test results are returned.

EXAMPLE 50 ACRE AREA



5 TAKE REPRESENTATIVE SAMPLE

Take soil from approximately 15 different spots in the sample area. Place this soil in a clean plastic bucket and mix thoroughly.



6 HOW MUCH IS NEEDED?

Fill a pint container from this bucket of well-mixed soil. Maine Soil Testing Service sample boxes are preferred. Your local Cooperative Extension office has soil sample boxes. Boxes can also be sent upon request.

7 LABEL THE CONTAINERS

The container from each sample area should be identified on the side with the identification of the sample area and your last name. **DO NOT** put identification on top, because covers are thrown away. Be sure identifying names agree with your map of sample areas, so when test results are returned there will be no question of where the samples were taken. Be sure the names on containers agree with the names on the information forms.

For a full listing of all available analytical services prices and discounts, consult our online price list at umaine.edu/soiltestinglab or contact the nearest office of Cooperative Extension or call 207.581.2945 or 207.581.2917.

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pH MANAGEMENT LEVELS

The typical pH management levels that are assumed to be optimum for field crops and for gardens and grounds in Maine are as follows:

- grass hay, pasture, cons. seeding – 6.0
- all other general agronomic crops – 6.5
- commercial potatoes & potato rotation crops – 6.0
- commercial beans and sweet corn – 6.0
- all other commercial vegetables – 6.5
- home gardens and organic crops – 6.5
- blueberries, other acid-loving plants – below 5.2
- all other commercial fruit – 6.0
 - all turf – 6.0
 - all forestry – 6.0
- shrubs & deciduous shade trees – 6.0
- evergreen shade trees – 5.5
- all other ornamentals – 6.5

These are the "default" pH management levels. If for some reason you wish to manage your pH at some other level, please choose one of the alternative pH levels listed on page 1.

AVAILABLE ANALYTICAL SERVICES	FEE * (PER SAMPLE)
STANDARD TEST: soil pH; Organic matter; P, K, Mg, Ca, S, B, Cu, Fe, Mn, Zn; Na (on request); Screen for elevated Cd, Cr, Ni, Pb. Lime and fertilizer recommendations.	\$18.00
COMPREHENSIVE TEST: Standard soil test (above) plus available nitrogen (nitrate plus ammonium). This test is most appropriate for samples taken during the growing season, from late May to early September.	\$25.00
WINTER DISCOUNT PERIOD: For soil samples received at the lab between January 1 and March 1 for a Standard Test. Sample your soil prior to freeze-up, air dry, send in after January 1.	\$15.00
VOLUME DISCOUNT: 30 or more samples in 1 delivery for a Standard Soil Test. Samples must be shipped or delivered in MST5 sample boxes.	\$15.00
SOIL BIOLOGY/SOIL HEALTH: Measures the microbial activity and Biological Health of your soil. Includes guidelines for organic matter management. Added on to a Standard or Comprehensive Test	\$12.00
Extra charge for soluble salts.	\$7.00
PARTICLE SIZE ANALYSIS: measured sand, silt, clay content and texture classification.	\$24.00
BASIC HIGH TUNNEL PACKAGE (for covered, in-ground plant production): Standard test; soluble salts; nitrate. Recommendations to support higher yields. Please specify on top sheet.	\$25.00
LONG-TERM/COMBINED HIGH TUNNEL PACKAGE (for older, unflushed or heavily amended houses): Basic High Tunnel Test PLUS Saturated Media Extract for all major and micronutrients. Two-page report with both season-long nutrient availability and short-term nutrient intensity. Please specify on top sheet.	\$30.00
LEAD SCAN ONLY: Screening for above – normal lead content. Includes measured total lead content of contaminated soil, with suggested guidelines.	\$12.00

* PRICES SUBJECT TO CHANGE

ATTACHMENT C

CITY OF SOUTH PORTLAND SOIL COMPACTION TESTING METHODOLOGY

South Portland's [Landcare Management Ordinance](#) establishes sub-soil compaction standards to promote the creation of healthy soils and reduce the need for supplemental lawn chemicals. New development or redevelopment projects resulting in more than 2,000 s.f. of disturbed pervious area are subject to these standards, which specify that sub-soil compaction cannot exceed a penetrometer reading of 300 psi to a depth of 10" (or 6" for sites with 50% or more of ledge). The methodology for taking penetrometer readings is as follows:

1. Conduct site visit approximately 24 hours after 1/2" of water is applied to soil through a rain event or irrigation as excessively dry soils can overestimate compaction.
2. Prior to taking penetrometer readings, verify that the extent of disturbed pervious area and ledge for the project are consistent with the site plan and note any deviations.
3. Delineate the disturbed pervious area(s) where penetrometer readings will be collected on site map and indicate approximate penetrometer reading locations using zig zag pattern (see examples below).
 - Take 10 readings evenly distributed throughout the site for each acre of disturbed pervious area
 - For example, 12 penetrometer readings would be taken for a site with approximately 1.2 acres of disturbed pervious area.
 - For sites with < 1 acre of disturbed pervious area take a minimum of 10 readings.
4. Lower penetrometer collar.
5. Take a few test readings to determine appropriate probe tip (use smaller 1/2" tip for more compacted soils and larger 3/4" tip for looser soils).
 - Note which tip was used on field data sheet.
 - Read the inner ring of the gauge when using the 1/2" tip and the outer ring of the gauge when using the 3/4" tip.
6. Smoothly insert penetrometer at a rate of approx. 1" per second to the appropriate depth (10" or 6") and record reading on field data sheet (e.g., 100 psi @ 10").
 - If penetrometer reading exceeds 300 psi before the required depth, record depth at which this occurs on field data sheet (e.g., 300 psi @ 6").
7. Remove any accumulated soil from probe tip after each reading.

8. Take predetermined number of penetrometer readings (from step 3) and compare values to Table 1 below. If more than 50% of the readings exceed 300 psi, then the soil must be de-compacted.
 - For discrete disturbed pervious areas or zones (e.g., front & back yards), determine separately.
9. Compare values to Table 1 to determine if soil complies with compaction requirements and note on field data sheet.

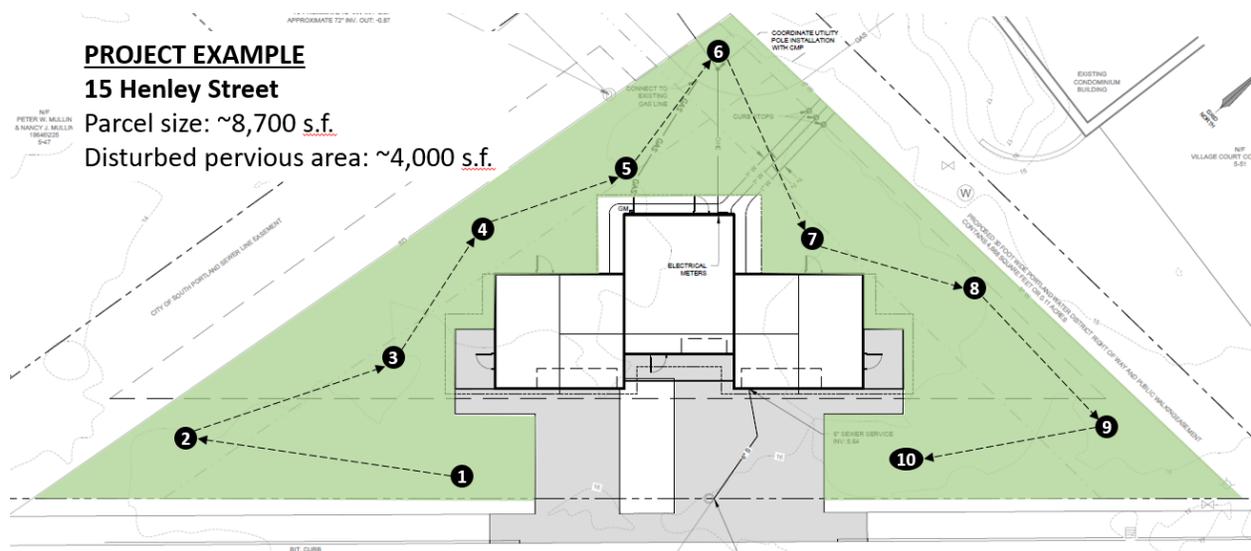
Table 1: determination of whether soil needs to be de-compacted

Percentage of penetrometer readings >300 psi (10" or 6")	Compaction rating	De-compaction ("subsoiling") required
<30	Little – none	No
30-50	Slight	No
50-75	Moderate	Yes
>75	Severe	Yes

Adapted from: Lloyd Murdock, Tim Gray, Freddie Higgins, and Ken Wells, 1995. Soil Compaction in Kentucky. Cooperative Extension Service, University of Kentucky, AGR-161.

Qualitative Method to Approximate Soil Compaction for Contractors

Using a wire flag as a probe, hold the wire at the flag end and push it into the soil until it bends. If the wire extends to 10" (or 6" for sites with >50% ledge) then the soil is considered not compacted and in good condition. Do this at multiple locations throughout the project's disturbed pervious areas. (Source: [Assessing and Addressing Soil Compaction in Your Yard – Rutgers Cooperative Extension](#))



SOUTH PORTLAND SOIL QUALITY INSPECTION FORM FOR NEW CONSTRUCTION¹

Address: _____ Map/Lot: _____ Parcel Size (sq. ft.): _____

Approx. Disturbed Pervious Area (sq. ft.): _____ Approx. Ledge Area (sq. ft.): _____

Inspection Date/Time: _____ Inspection Duration: _____

Inspector Name/Contact: _____

Owner Name/Contact: _____

Contractor Name/Contact: _____

INSPECTION RESULTS

Pre-qualified soil stockpile (Y/N): _____ If yes, stockpile source: _____

Topsoil Uniformly Distributed 6" Deep (Y/N): _____

Fertilizer Uniformly Incorporated 2-3" Deep (Y/N/NA): _____

Number of visually distinct topsoil areas at site (# of soil tests taken): _____

Number of Soil Composites Collected to Confirm 4.5% organic matter and 5.8-7.2 pH⁵: _____

Disturbed Pervious Area Same as Site Plan (Y/N): _____ Penetrometer Tip (½" or ¾"): _____

SOIL PENETROMETER READINGS (circle 10" or 6" for required depth)

1		6		11		16		21		26	
2		7		12		17		22		27	
3		8		13		18		23		28	
4		9		14		19		24		29	
5		10		15		20		25		30	

(10 readings for sites <1 acre and 10 readings/acre for larger sites)

COMMENTS

¹ Per Landcare Management Ordinance Section 32-25(B)

⁵ Soil stockpiles can be pre-qualified by sending samples collected per [Maine Soil Testing Service guidelines](#) to [their lab](#) for analysis. Results must be provided to the City, which will also conduct testing on the project site to confirm soil quality. Projects with soils that do not meet standards will be required to rework all noncompliant areas.