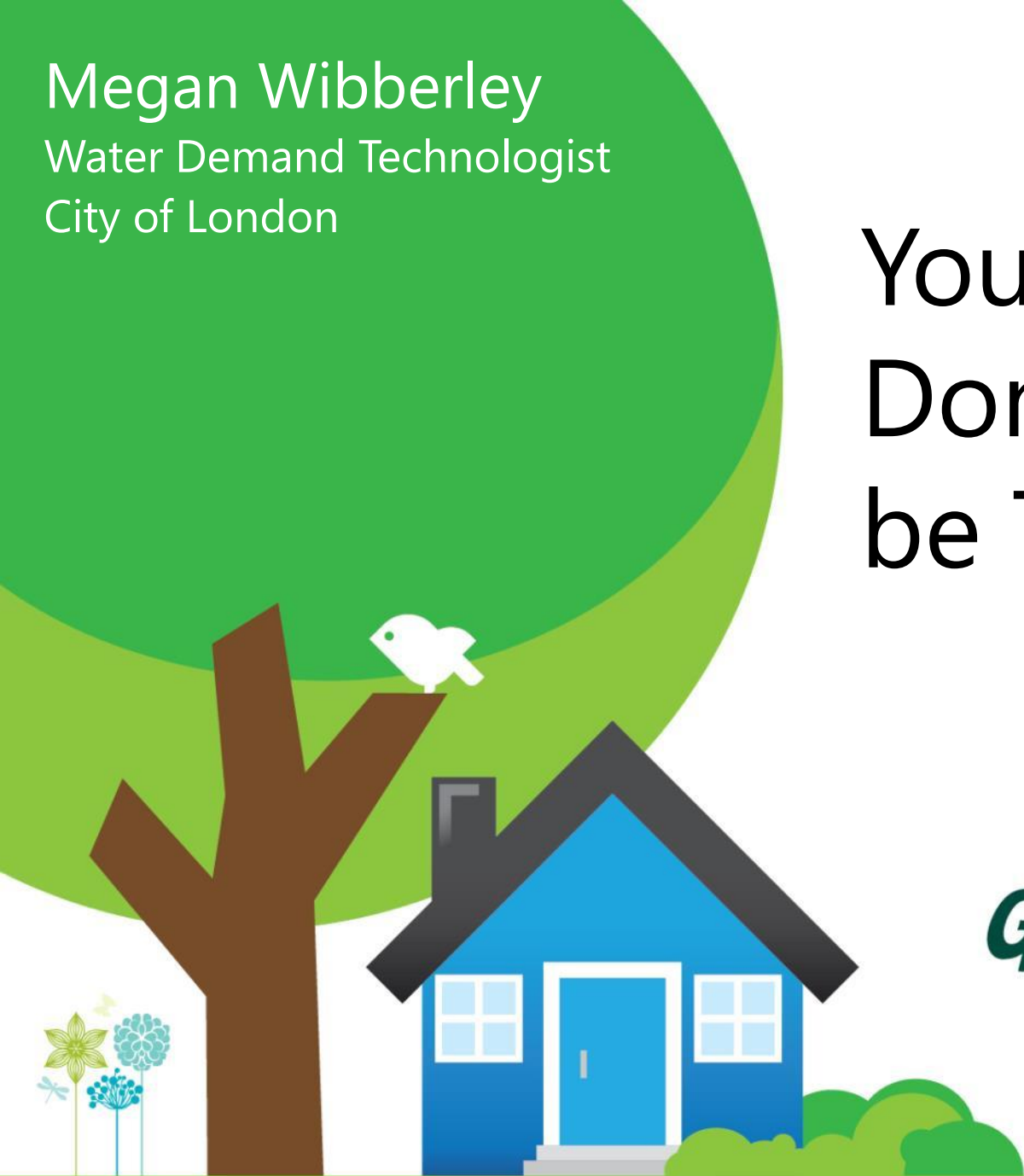


Megan Wibberley
Water Demand Technologist
City of London

Your Gardens Don't Have to be Thirsty!



Growing Naturally



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Outline

- Introductions
- Garden Planning
 - Soil
 - Location
 - Watering
- Water Efficient Plants
- Next Steps
 - City Resources and Programs



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Introductions



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Location, Location, Location!

- Things to consider when choosing location:
 - Sun exposure
 - Exposure to weather
 - Topography of property
 - Natural watering potential or drainage
 - Soil
 - Challenges
 - Roots, invasive species, companion planting, toxic locations, seasonal exposure, proximity to house, driveway and street.



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Location, Location, Location!

Time	6	8	10	12	2	4	6	8
Back Corner	Sun	Sun						
Front Garden	Sun	Partial						
Veggie Garden	Partial	Shade						



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Connecting Location and Water

- Through investigating sun exposure, you can properly choose plants that can handle the exposure.
- This reduces stress, increases plant health, and reduces the watering requirement.
- Install a Rain Garden to take advantage of location and reduce watering.



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Soil: A Garden's Foundation

- Using both soil type and location to choose plants = Water Efficient Gardening
- Certain plants are very particular about soil type

Common Name	Scientific Name	Sun	Dry	Moist	Wet	Sand	Loam	Clay	Shape
Arrowwood, Downy	<i>Viburnum rafinesqueanum</i>	☐	●			●	●	●	▼
Arrowwood, Southern	<i>Viburnum dentatum</i>	☐		●	●		●	●	▼
Blackberry, Common	<i>Rubus allegheniensis</i>	○	●	●		●	●		■
Bladdernut, American	<i>Staphylea trifolia</i>	●	●	●		●	●	●	▼
Blueberry, Low Sweet	<i>Vaccinium angustifolium</i>	☐	●	●		●			■

ReForest London, Choosing the Right Shrub

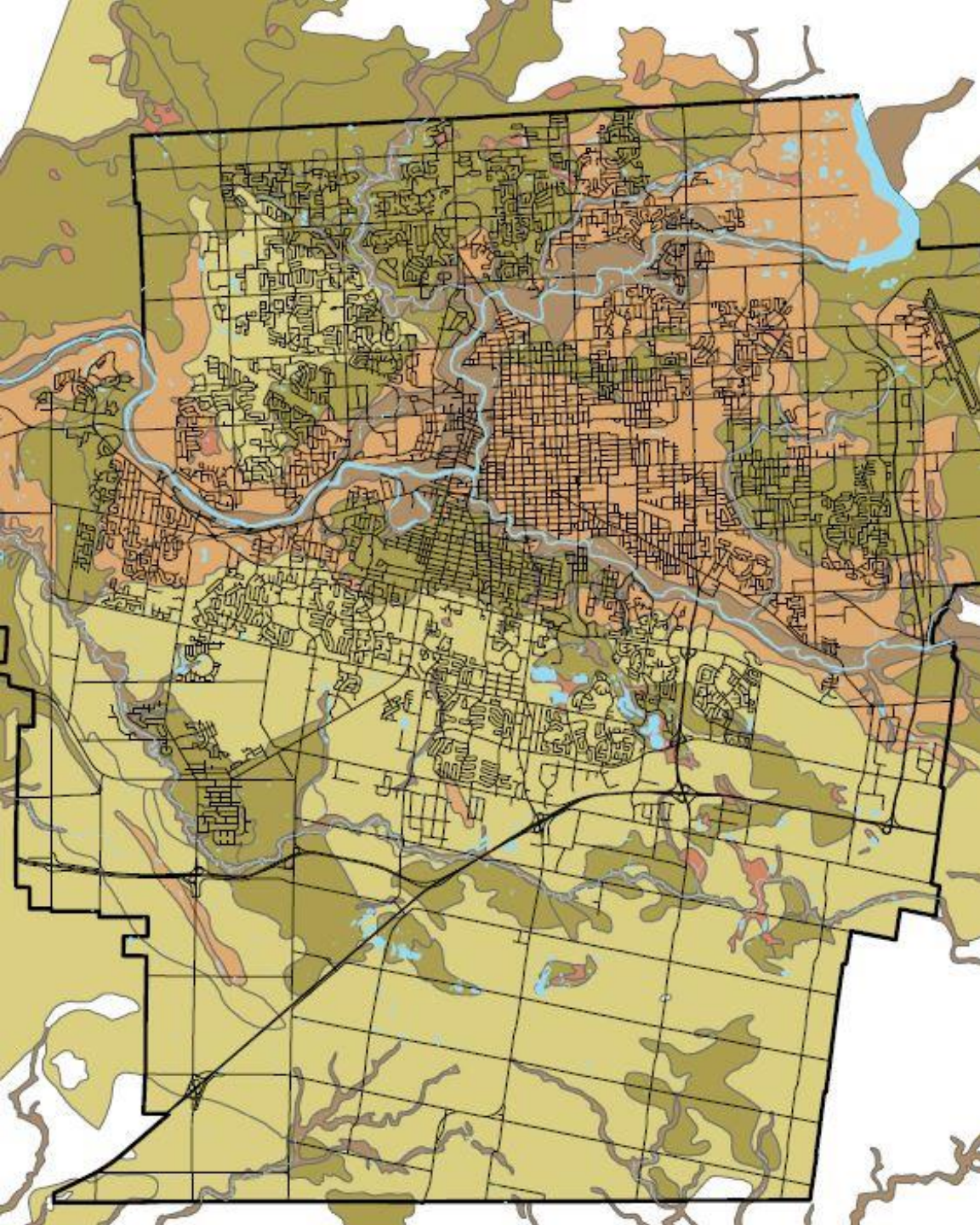


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Legend

SoilTypes

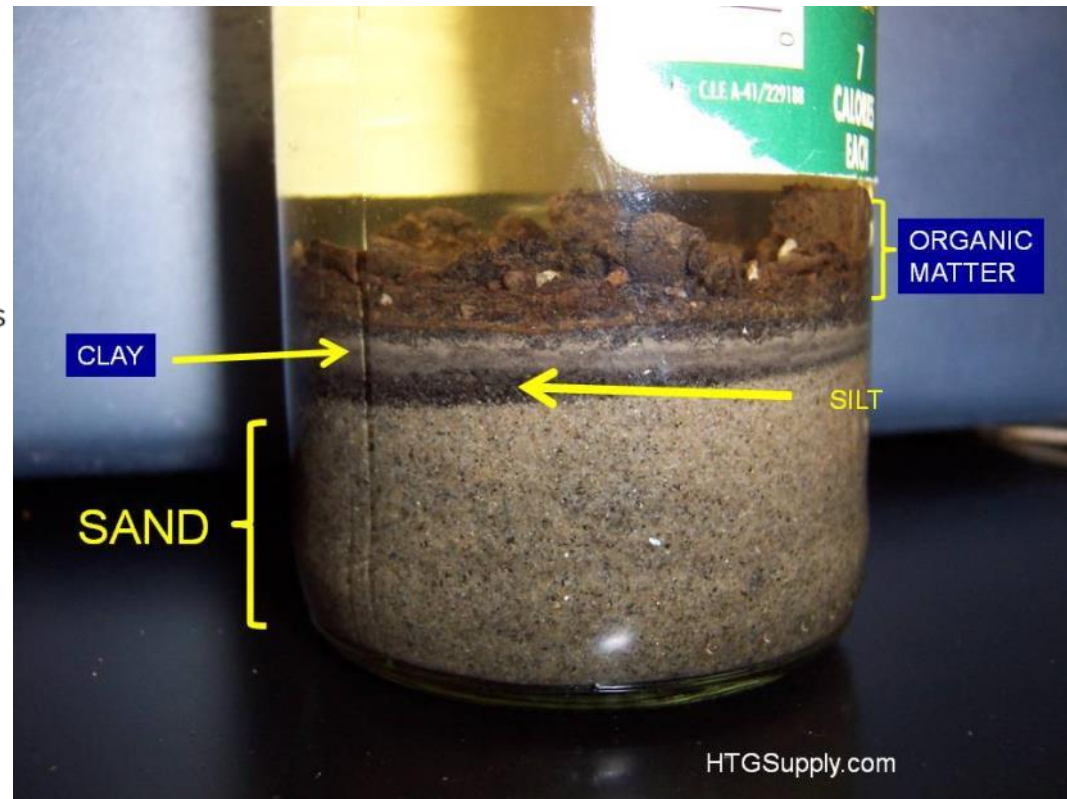
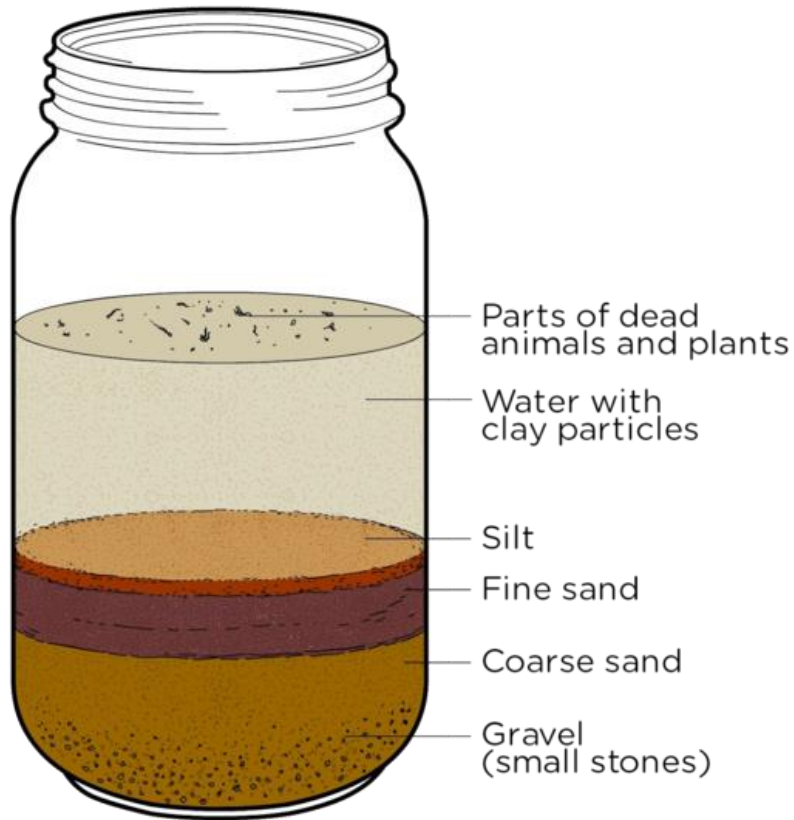
	Alluvium
	Clay
	Organics
	Sand-Gravel
	Silt

- Soil type is connected to basement flooding trends in the city.
- Watch how water leaves your property.
- Keep this in mind when planning gardens.

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What is your soil type?

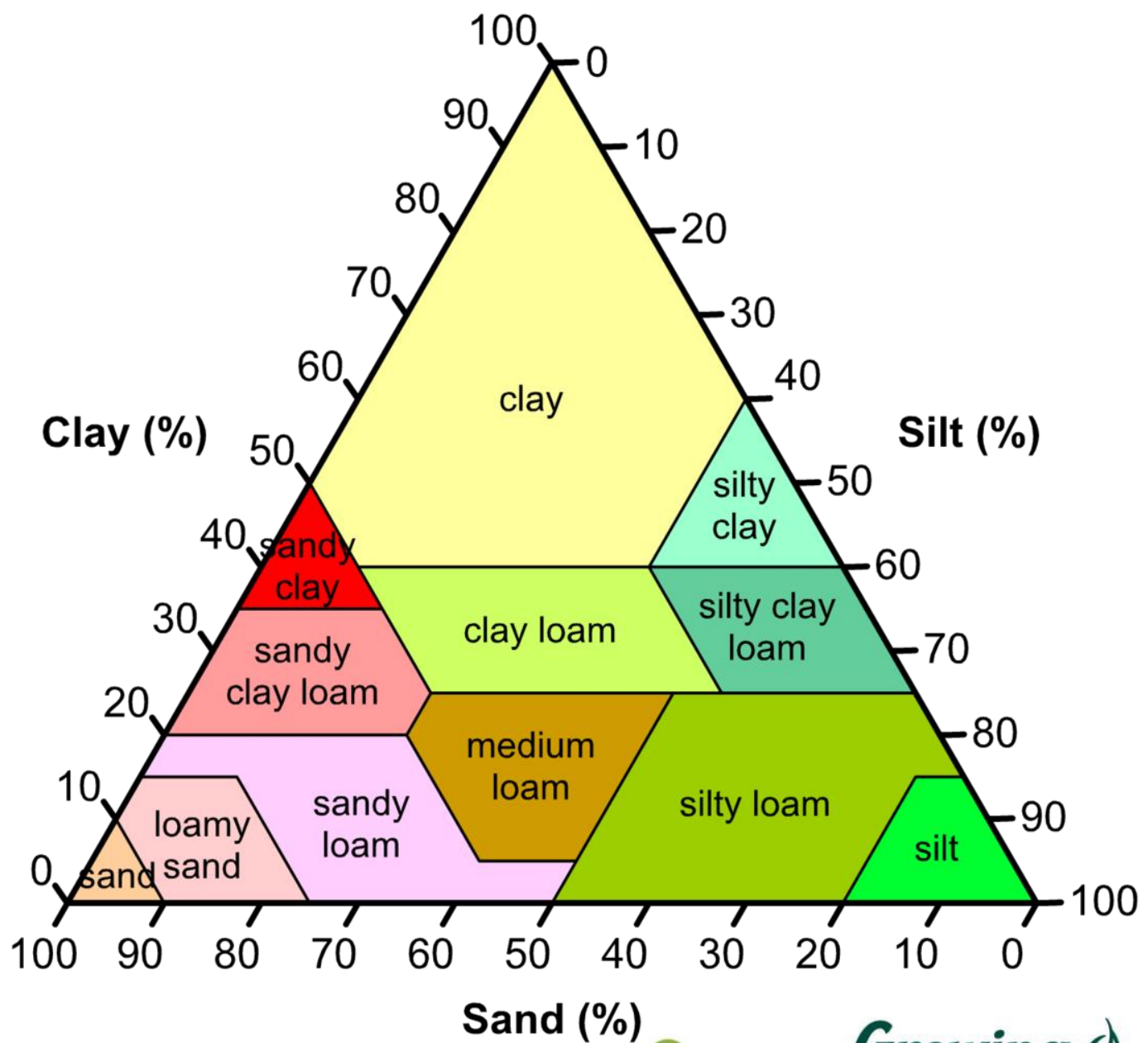


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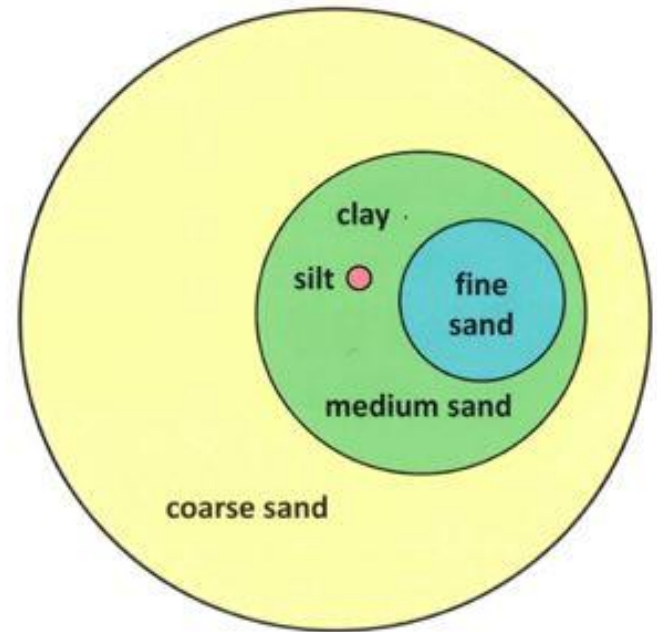
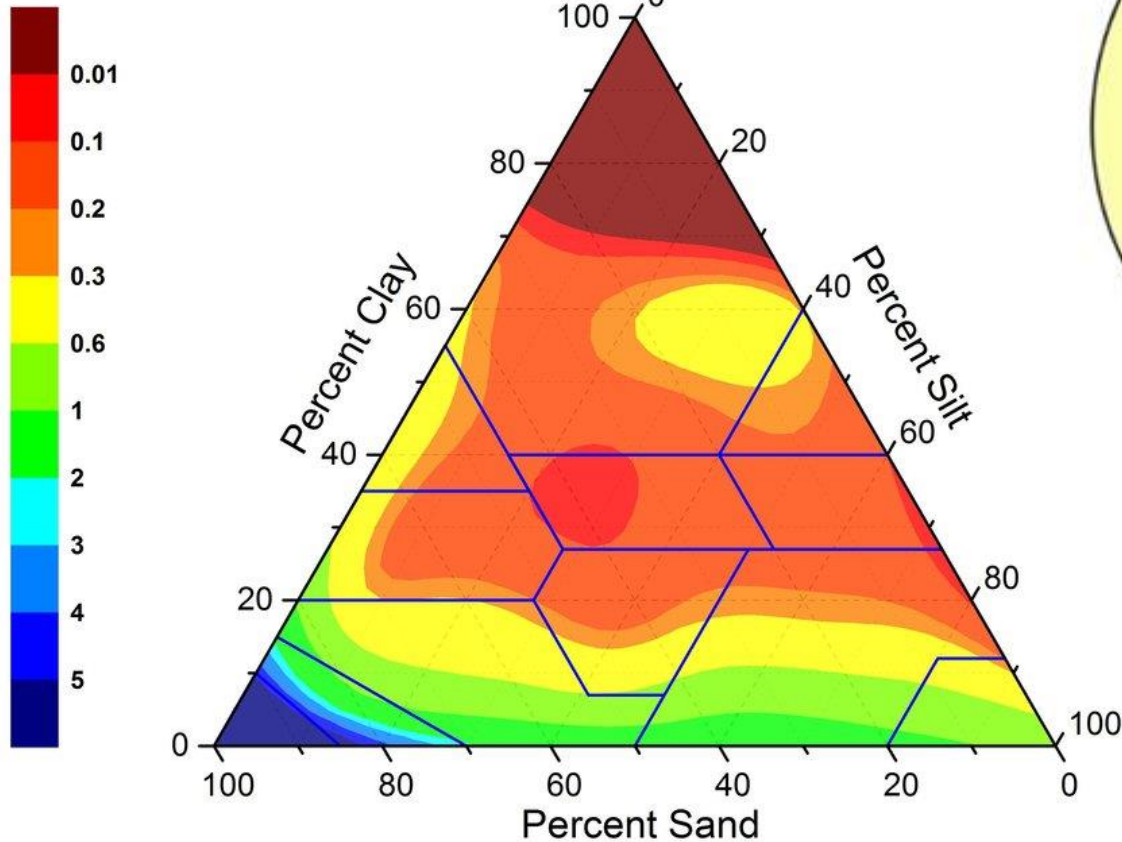
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Infiltration Rate (in/hr)



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Other Considerations

- Soil pH – impacts availability of nutrients to plants, optimal at 5.5-7.0
 - Raise pH (lower acidity) add lime
 - Lower pH (increase acidity) add ammonium sulphate
- Nutrient Deficiency
 - Chart Available



Water-Wise Landscaping Principles

- Plan and design gardens with water conservation, beauty and utility in mind.
- Design hydrozones.
- Water efficiently with proper methods (More to come).
- Design the space based on how you want to use it.



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Water-Wise Landscaping Principles



- Improve the soil, and/or plant accordingly.
- Use mulch to reduce evaporation.
- Maintenance is key to happy, healthy, water efficient plants.



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Proper Watering, Reduces Watering

- Use a rain gauge
- Water slowly, deeply, and less often to promote root growth
- Avoid overwatering
- Water before 10AM
- Use the proper equipment



**Water once a week, applying 2.5cm
(1 inch) of water**



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Watering for Soil Type

Soil	Characteristics	Watering	Remedy
Sand	Usually low in organic matter. Good drainage, poor water retention.	Must be watered and fertilized frequently.	Add organic material (compost, manure, wood chips). Mulch to retain moisture.
Clay	Holds nutrients well. Sticky when wet, hard when dry. Poor drainage.	Do not overwater – water slowly and deeply but infrequently. Resist water infiltration when dry. Become easily compacted	Add organic mater to break up clay soils (allows air, water and roots to penetrate better). Compost is best, work in often.
Silt	Retain more water, hold more nutrients than sand.	Do not overwater. Silt soils are like clay and become easily compacted.	Add organic matter allowing better plant growth and water infiltration.



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Shade Clay



SPOTTED DEADNETTLE



BARRENWORT



WILD GINGER



AJUGA



SWEET WOODRUFF



HYBRID GERANIUM



LUNGWORT



CREeping PHLOX



BERGENIA



SOLOMON'S SEAL



JAPANESE SPURGE



FALL CORAL BELLS

Sun Clay



BARRENWORT



ZIG ZAG GOLDENROD



LAMIUM



BERGENIA



HOSTA 'HALYCON'



FALSE SOLOMON'S SEAL



SALVIA



HEUCHELLA 'QUICKSILVER'



PENSTEMON



POLYPODY FERN



LADY'S MANTLE



DOWNY YELLOW VIOLET

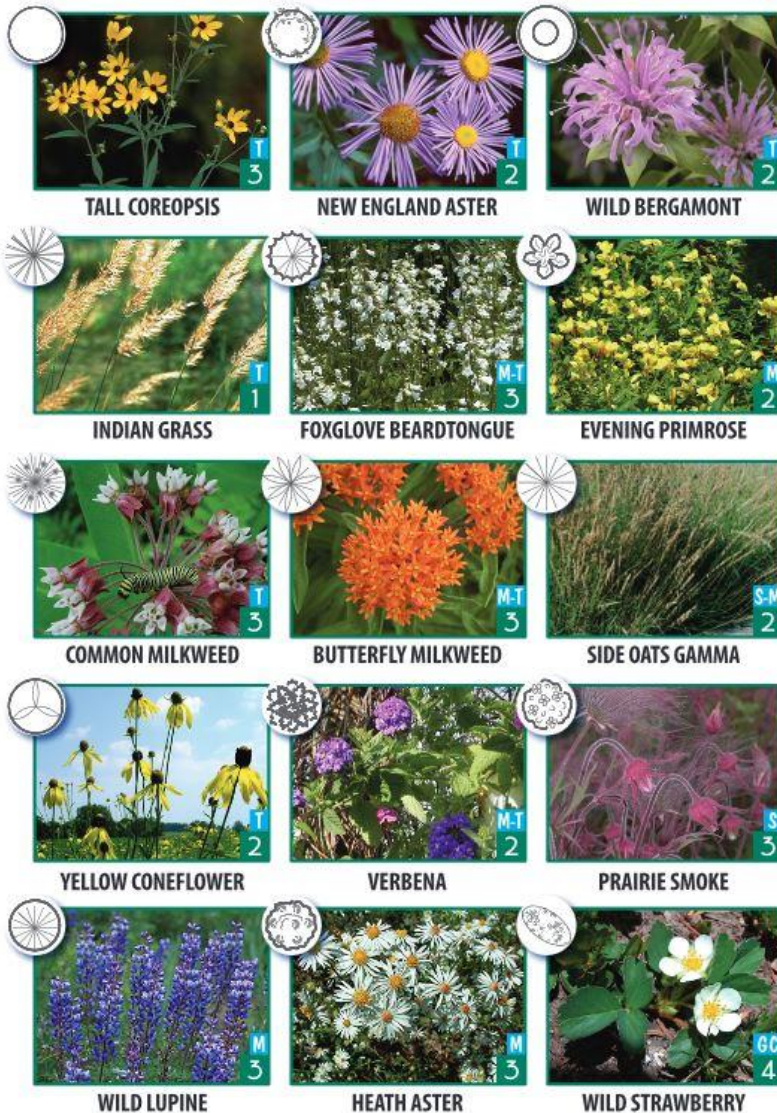


BRUNNERA



HARDY GERANIUM

Sun Sand



Shade Sand





FREE

Professional Consultations

**SPACE IS
LIMITED.**

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Handouts

- Identifying Soil Types
- Identifying Nutrient Deficiencies
- Water Wise Landscaping
- Sample Garden Plans
 - Sun (dry, butterfly, clay)
 - Shade (sand, clay)
 - Rain Gardens



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Thank You!



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