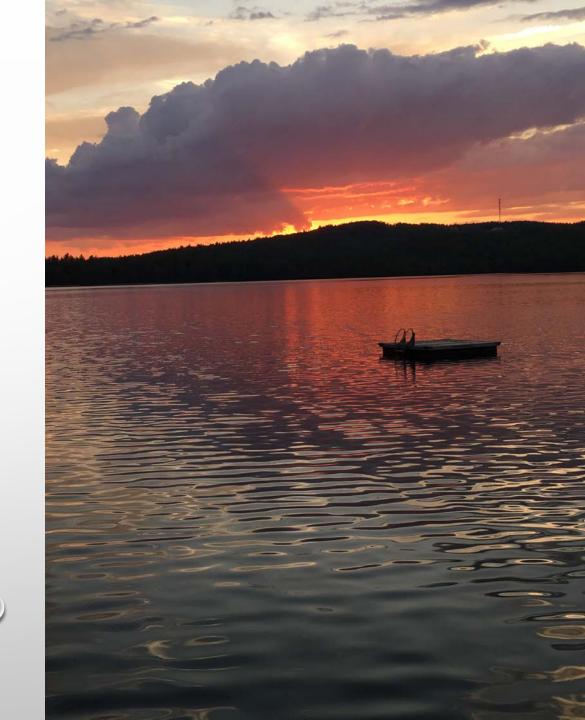


#### SHORELAND PLANTINGS

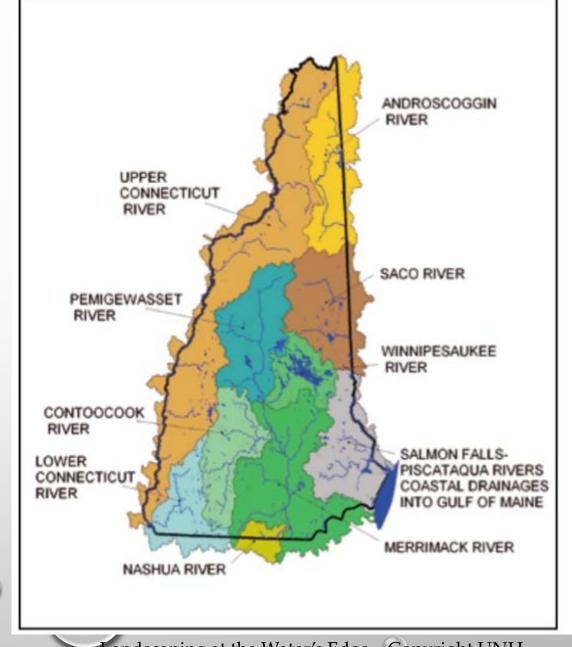
OR...THE LIFE AND TIMES
OF A PRAGMATIC WATER
DROPLET.



## Follow the path of least resistance

Examining water flows within your watershed.

Envision your property and think of the water droplet on the move from roof to lake.



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### Hitchhikers

Oils & asphalt.

Salts, sand, detergents.

Fertilizers & pesticides.

Scat.

Particles of soil & sediment.





Each particle of soil carries naturally occurring minerals and also human-applied salts and chemicals.



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#### Runoff

As the individual water droplets coalesce, they pick up speed and follow the path of least resistance.

All of this baggage is carried into the lake.

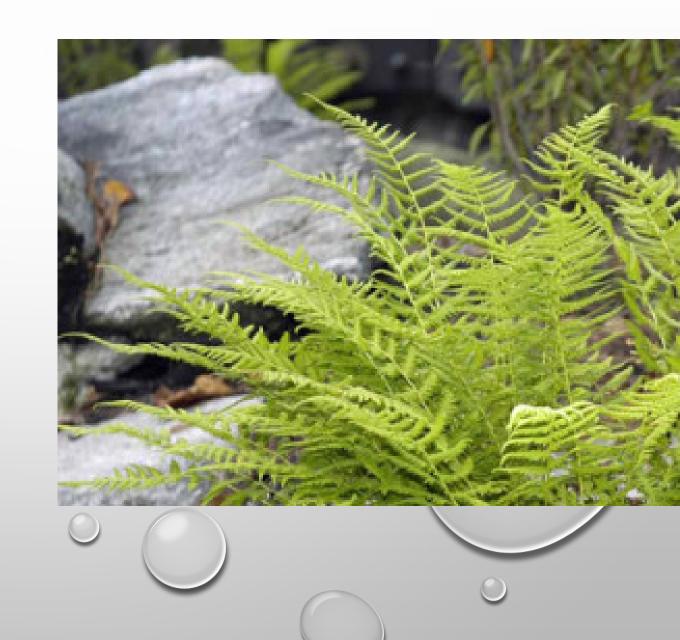


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### Runoff

Runoff potential increases when...

- Slope increases
- Permeability decreases

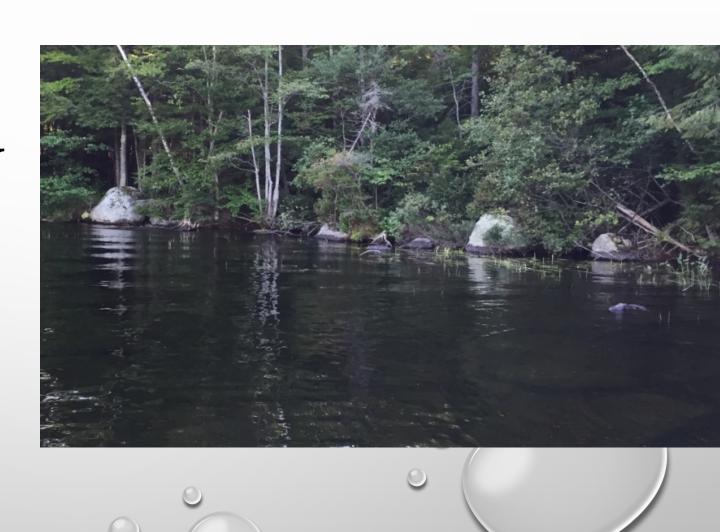


## Permeability

Dependent on the physical characteristics of the soil.

Sand, Silt, Clay

Texture, tilth, aggregation, structure



#### Non point source pollution

Resulting from runoff.

Degrades water quality. Biggest culprits are:

- Phosphorous
  - Nitrogen
  - Pesticides

## Other life options for the water droplet.

- Evaporation
- Infiltration
- Transpiration
  - Runoff

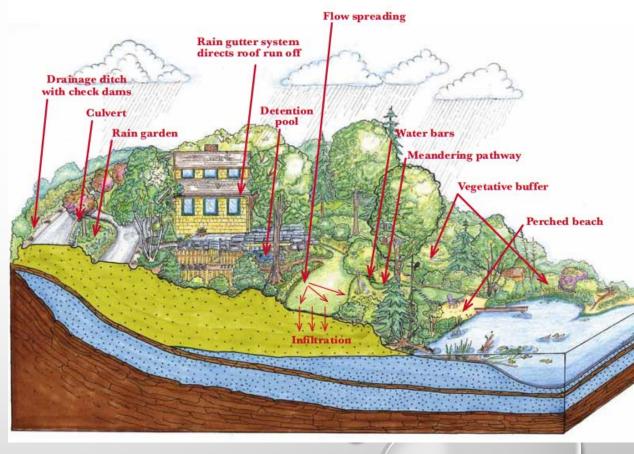


#### Path of least resistance.

We can install roadblocks to runoff.

- Berm
- Check Dam
  - Cut In
- InfiltrationTrench

- Plunge Pool
- Rain Garden
  - Swale
- Vegetative Buffer
  - Water bar



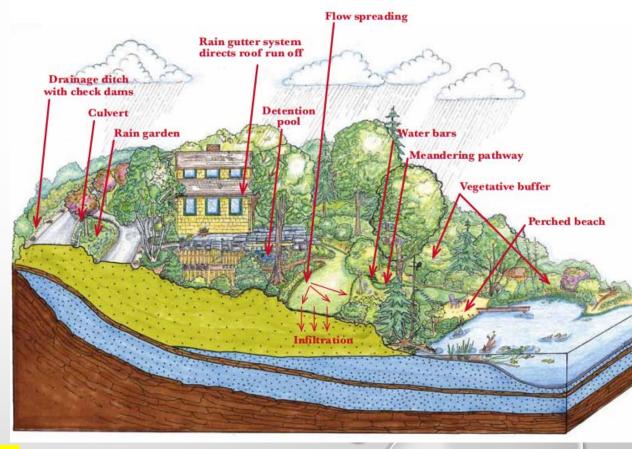
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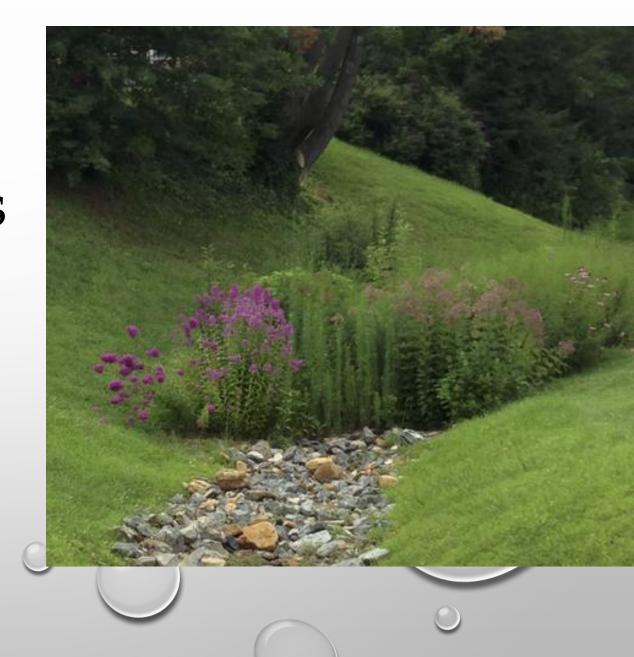


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#### Vegetative Buffer Shoreland Plantings

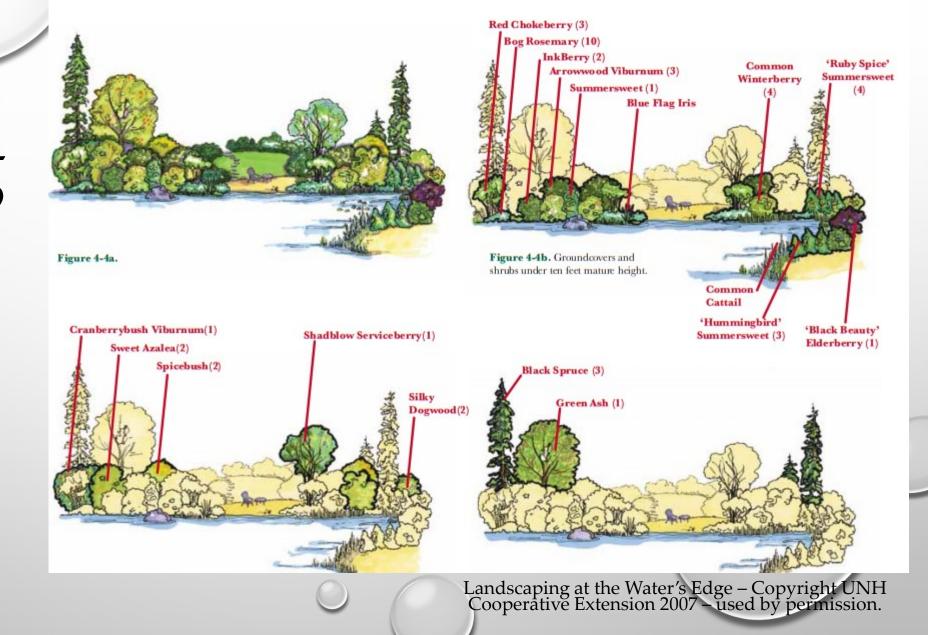
Plant roadblocks to slow down and stop runoff into our lakes.

Change up the path of least resistance.



# Covering the soil.

- Plant canopies.
  - Mulch.



## Plants!

- They look great.
- Add value to your property.
- Provide food and shelter for wildlife.
- Breathe in carbon and breathe out oxygen.
  - They slow down runoff.



- Winterberry
  - Ferns

- Blueberries Summersweet
- Viburnum Blue Flag Iris
  - Sedges



Ilex verticillata - Winterberry



- Blueberries Summersweet
- Viburnum
- Blue Flag Iris
- Winterberry

Sedges

Ferns



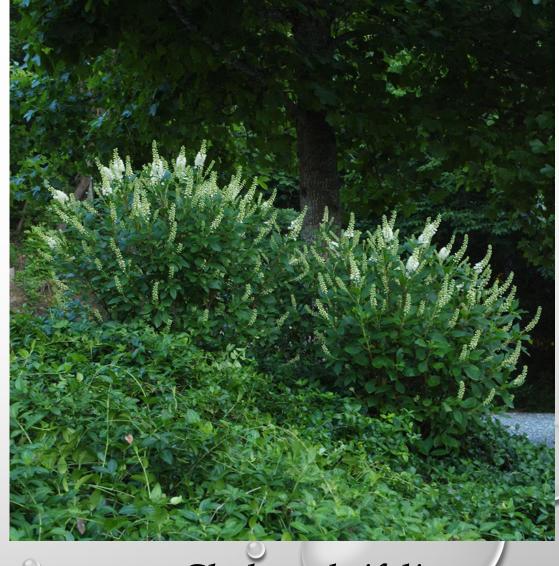


Northern lady fern Marginal wood fern Ostrich fern Sensitive fern Interrupted fern Royal fern Cinnamon fern

- Blueberries Summersweet
- Viburnum
  - Blue Flag Iris
- Winterberry

Sedges

Ferns



Clethra alnifolia -Summersweet

- Blueberries
- Viburnum
- Winterberry
  - Ferns
- Summersweet
- Blue Flag Iris
  - Sedges

- Bearberry
- Shadblow serviceberry
  - SilkyDogwood
- Spicebush
- Sweet azalea
- Elderberry



- Blueberries
- Viburnum
- Winterberry
  - Ferns
- Summersweet
- Blue Flag Iris
  - Sedges

- Bearberry
- Shadblow serviceberry
  - SilkyDogwood
- Spicebush
- Sweet azalea
- Elderberry



Cornus canadensis
Bunchberry

- Blueberries
- Viburnum
- Winterberry
  - Ferns
- Summersweet
- Blue Flag Iris
  - Sedges

- Bearberry
- Shadblow serviceberry
  - SilkyDogwood
- Spicebush
- Sweet azalea
- Elderberry



Gaultheria Wintergreen



- Blueberries
- Viburnum
- Winterberry
  - Ferns
- Summersweet
- Blue Flag Iris
  - Sedges

- Bearberry
- Shadblow serviceberry
  - SilkyDogwood
- Spicebush
- Sweet azalea
- Elderberry



Amelanchier Shadblow serviceberry



- Blueberries
- Viburnum
- Winterberry
  - Ferns
- Summersweet
- Blue Flag Iris
  - Sedges

- Bearberry
- Shadblow serviceberry
  - SilkyDogwood
- Spicebush
- Sweet azalea
- Elderberry



Vaccinium sp.
Blueberry

#### RSA 483-B

Comprehensive Shoreland Protection Act.

No removal of any natural groundcover within 50 feet of the shore.

www.des.nh.gov/cspa

## Planting

Small disturbance as possible.

No fertilizers or pesticides.

Mulch well after planting.



#### Inlet & Outlet Planning

#### Rain Garden

A rain garden is a depression in the ground vegetated with waterloving plant species.

HTTPS://EXTENSION.UNH.EDU/RESOURCES
/FILES/RESOURCE007271 REP10480.PDF





Soak up the rain NH Rain garden slideshow.

/EXTENSION.UNH.EDU/RESOURCE S/RESOURCE007270 REP10479.PDF

#### Rain Garden

Guide to
rain garden plants.
Soak up the Rain NH
website.

HTTPS://WWW4.DES.STATE.NH.US/SOAKNH/LAN DSCAPER/

	Scientific Name Common Name	Rain Garden Zone			92	SUR	3	Bloom Period & Color					Mature Size		+	ē
		Bose	Slope	Berm	Sol Moisture	light Equorum	May	June	Aluk	Aug	Sept	0e†	Height (feet)	Spread (feet)	USDA Hardi ness Zone	Attractive to
PERENNIALS											1000					
	Eutrochium (formerly Eupatorium) purpureum Sweet Jae Pye weed	•			•	禁些			0	0	0		3-6"	3'	3-8	by XR
	Gentiana clausa Closed gentian or Meadaw bottle gentian	•			٥	紫				•	•		1-3'	1-2'	3-8	微
	Geranium maculatam Spotted crane's bill			•	٥	හි	0	•		•	•		1'	1-1.5'	4-8	原山
	Helenium autumnale Common sneezeweed	•			٥	*				•	•		2-5"	3'	3-8	**
	Iris versicolor Blue iris or Blue flag	•			۵	禁		•					2-3"	2-3'	2-7	46
	Labelia cardinalis Cardinal flower	•			•	**************************************			•	•	•		2-4"	2'	3-8	Se let B

В,

## Shoreland Plantings

Thanks for listening.

