

# Weathering and Erosion

By

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and

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# Weathering

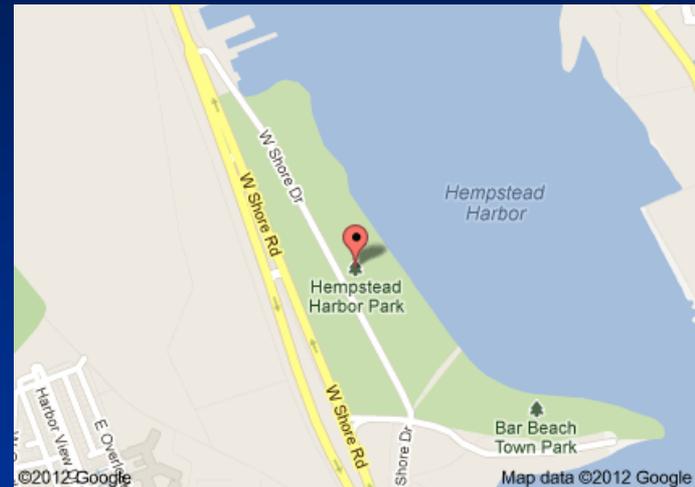
- Weathering is the process of rocks, minerals, and soil breaking down through contact with water, Earth's atmosphere, and other rocks and minerals.



# Deposition

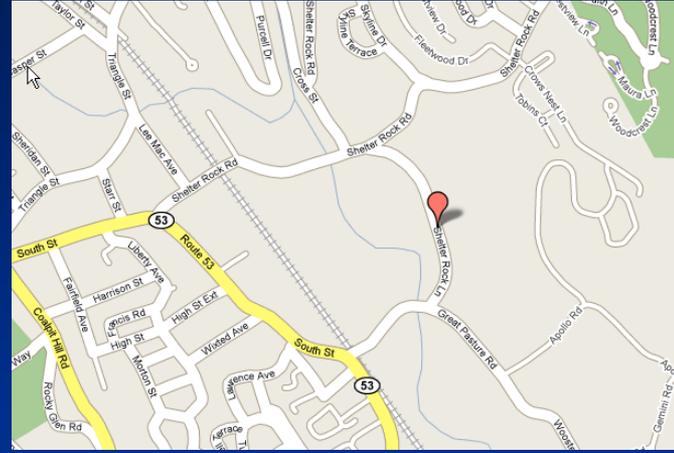


# Beaches



- Beaches are formed by loose particles of sand, rocks and other materials such as shells. All the particles are moved along the coast by the constant waves and wind. The beach is formed by the sediments (rocks, sand, shells etc.) coming from the water.
- At this beach we found a lot of rocks and broken shells and one really big rock buried in the sand.

# Glacial Erratic



- A glacial erratic is a deposited rock from a glacier. These rocks can be found anywhere in the world.
- We found this rock on Shelter Rock Road where the biggest glacial erratic is found; Shelter rock. This rock was in the glacier and when the glacier started to melt the sediments in side the rock start to get **deposited** in the surrounding area.
- This glacial erratic got its name because in earlier times people used to live underneath the rock sheltering them selves from weather, etc.

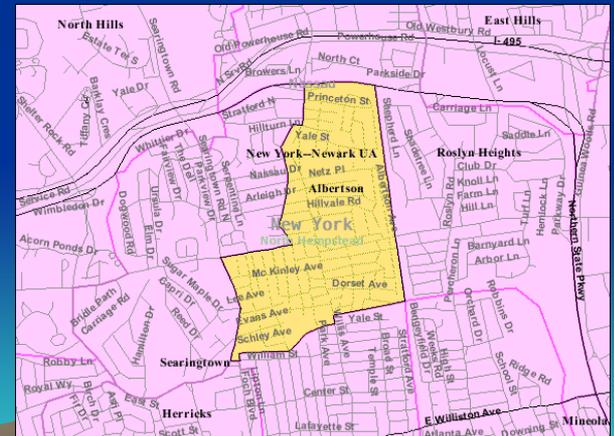
# Physical Weathering



# Root Wedging



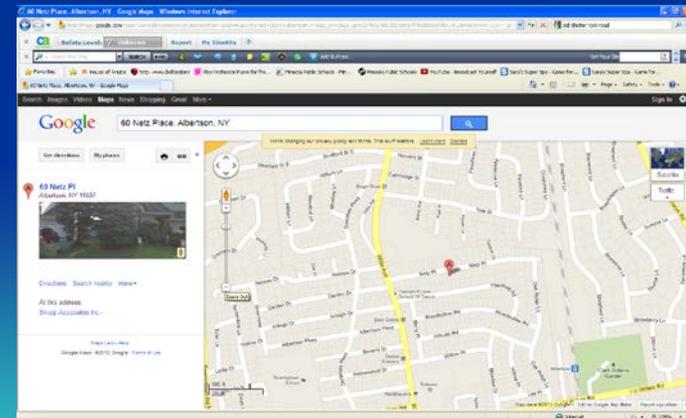
- Root wedging is when plants and trees roots emerge from the ground breaking through the surface above it. Most commonly seen in concrete (on sidewalks).
- We found this root wedging on Searingtown Road. As you can see in this picture the root of the tree came up through the sidewalk. Where the root broke through the sidewalk they put another layer of pavement to cover up the root.



# Frost Action



- Frost Action is when water seeps into the rock. When the water freezes unlike anything else on Earth the water expands. When the water expands it cracks the rock open into two parts. Not all cracks fully separate the rock.
- This rock was found on my neighbors lawn. This rock has several cracks in it.



# Chemical Weathering



# Hydrolysis



- Hydrolysis is when a chemical reaction with water occurs causing the chemical compound to break down.
- As you can see here, there is a pot hole in the middle of a parking lot. We found this in the parking lot at Hempstead Harbor Beach. This pothole was right by the water where also saltwater erosion was occurring.

# Oxidation



- Oxidation is when a substances atoms are interacted with oxygen commonly known to rust.
- This picture was found in Emily's (my) backyard in between two trees. What that is, is a piece of a fence sticking through the tree. That piece of the fence has been there so long that the iron in the fence reacted with the oxygen around it and rusted.

