

Homeowners Floodproofing Workshop

- Welcome!
- About Lake County
- Drainage Evaluation
- Structural Floodproofing Measures

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CHIEF ENGINEER

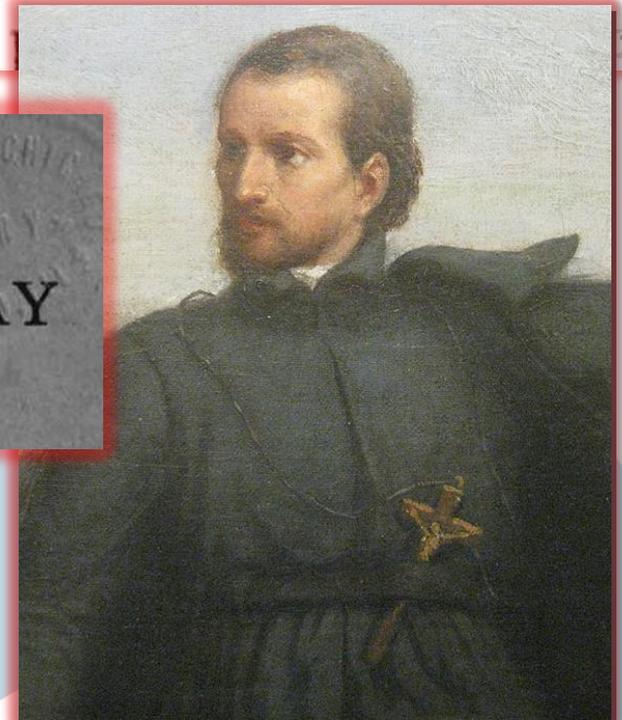
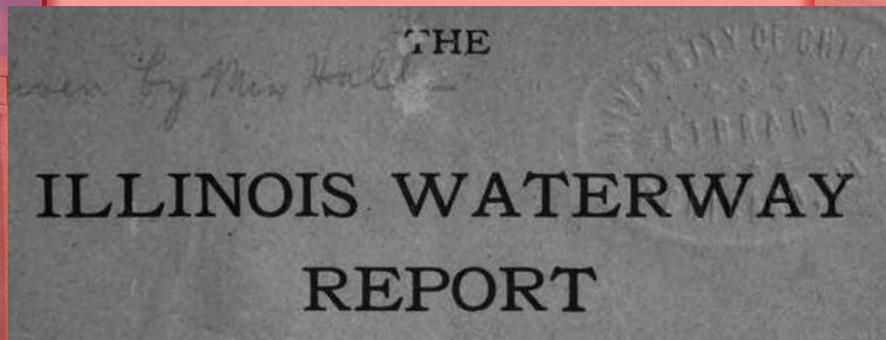


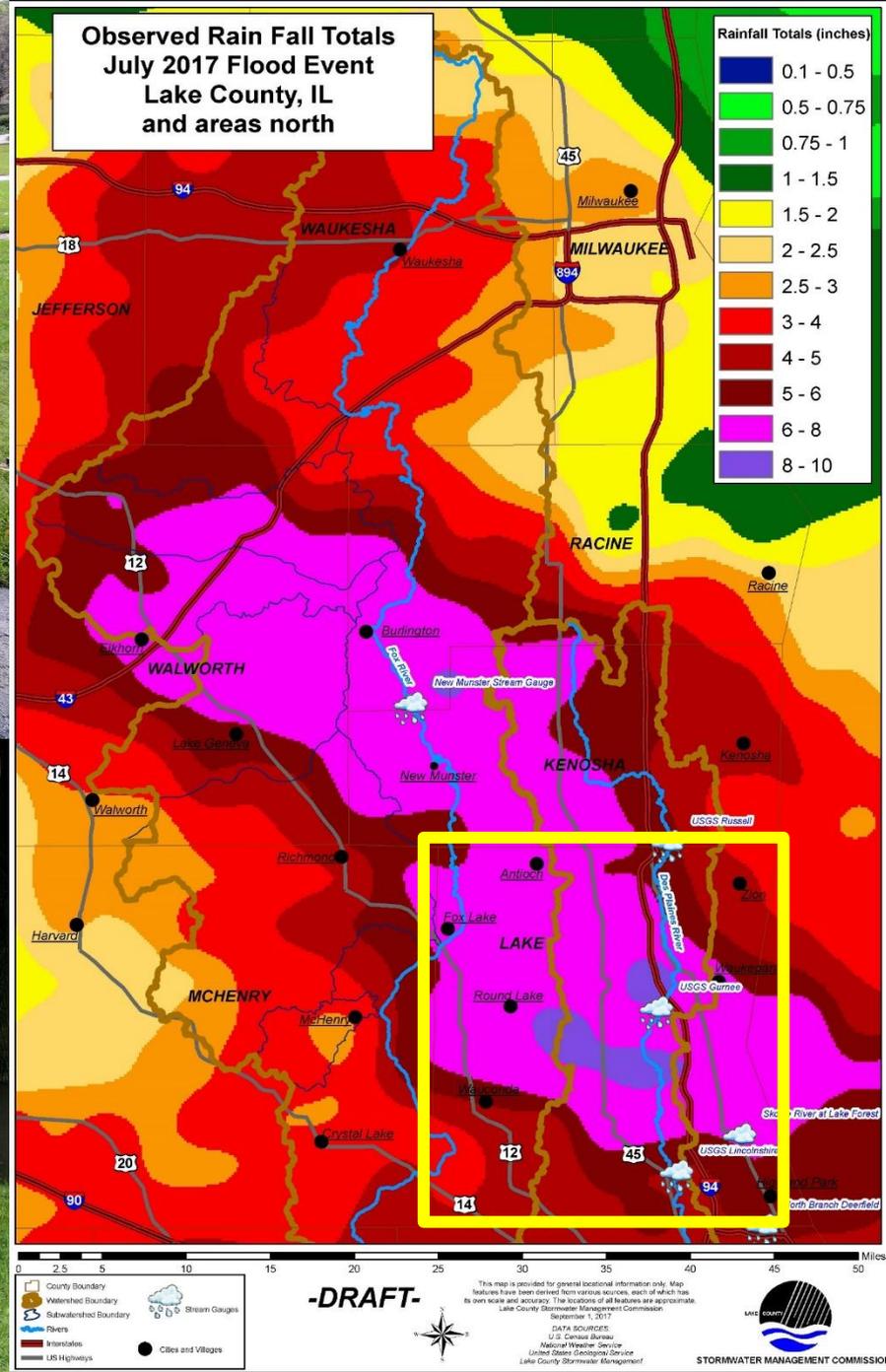
STORMWATER MANAGEMENT COMMISSION

Earliest Recorded Flood in Chicago Area

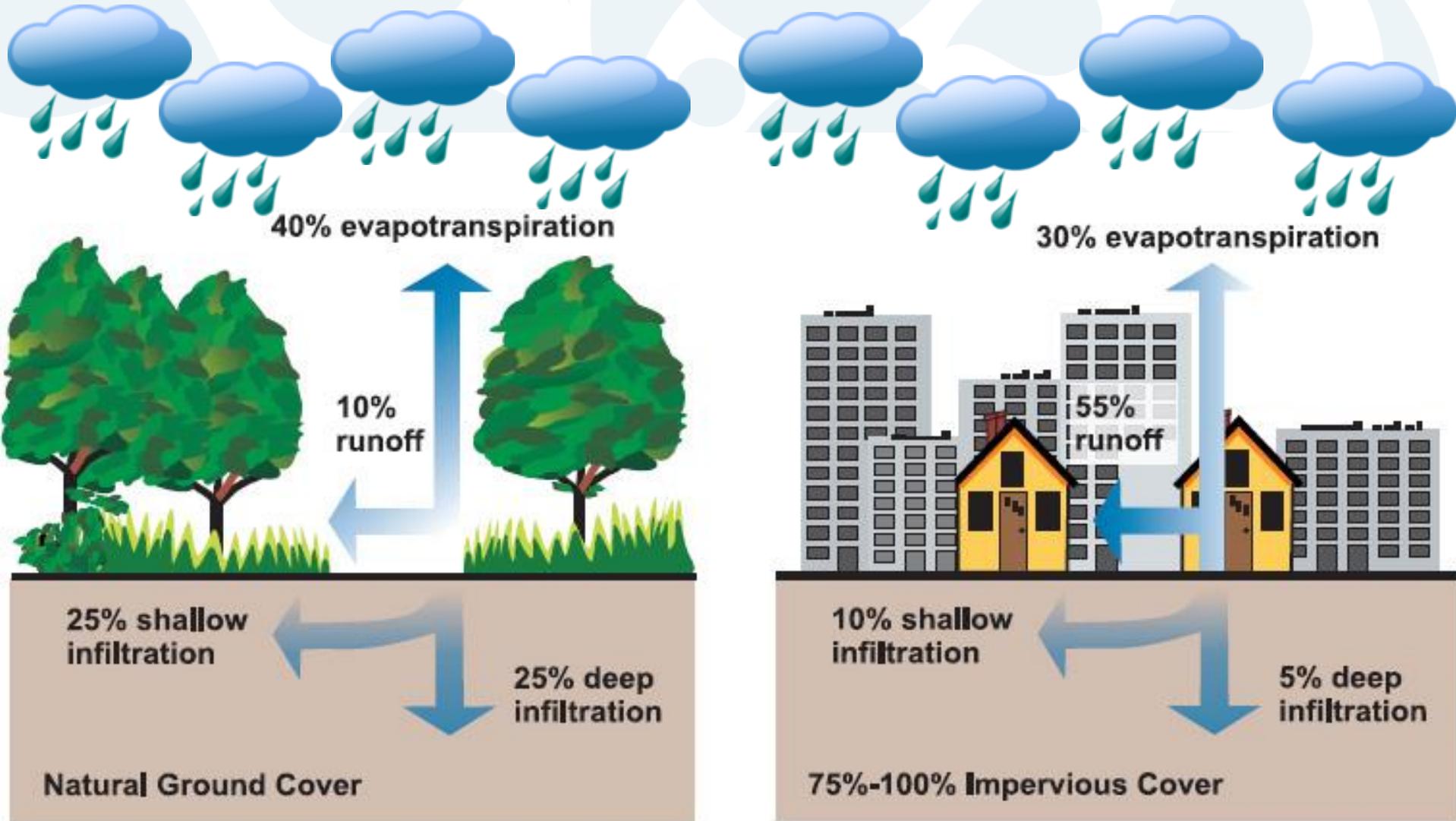
the lake of Illinois. At the extremity of this lake would be the cut or canal of which I have spoken, to have a passage to the St. Louis river, which empties into the Mississippi. The bark, having entered this river, could easily sail to the Gulf of Mexico.”

Marquette returned to Chicago late in 1674, and wintered “two leagues” from the lake, adjacent to the west fork of the south branch of the Chicago river, near Robey street. On March 29, 1675, he was driven from his cabin by flood waters, due to the spring breakup of the Desplaines river and ice gorges. He secured his effects in trees and took refuge on a “hillock.” On March 31, he crossed the divide in his canoes and proceeded to the Illinois country,



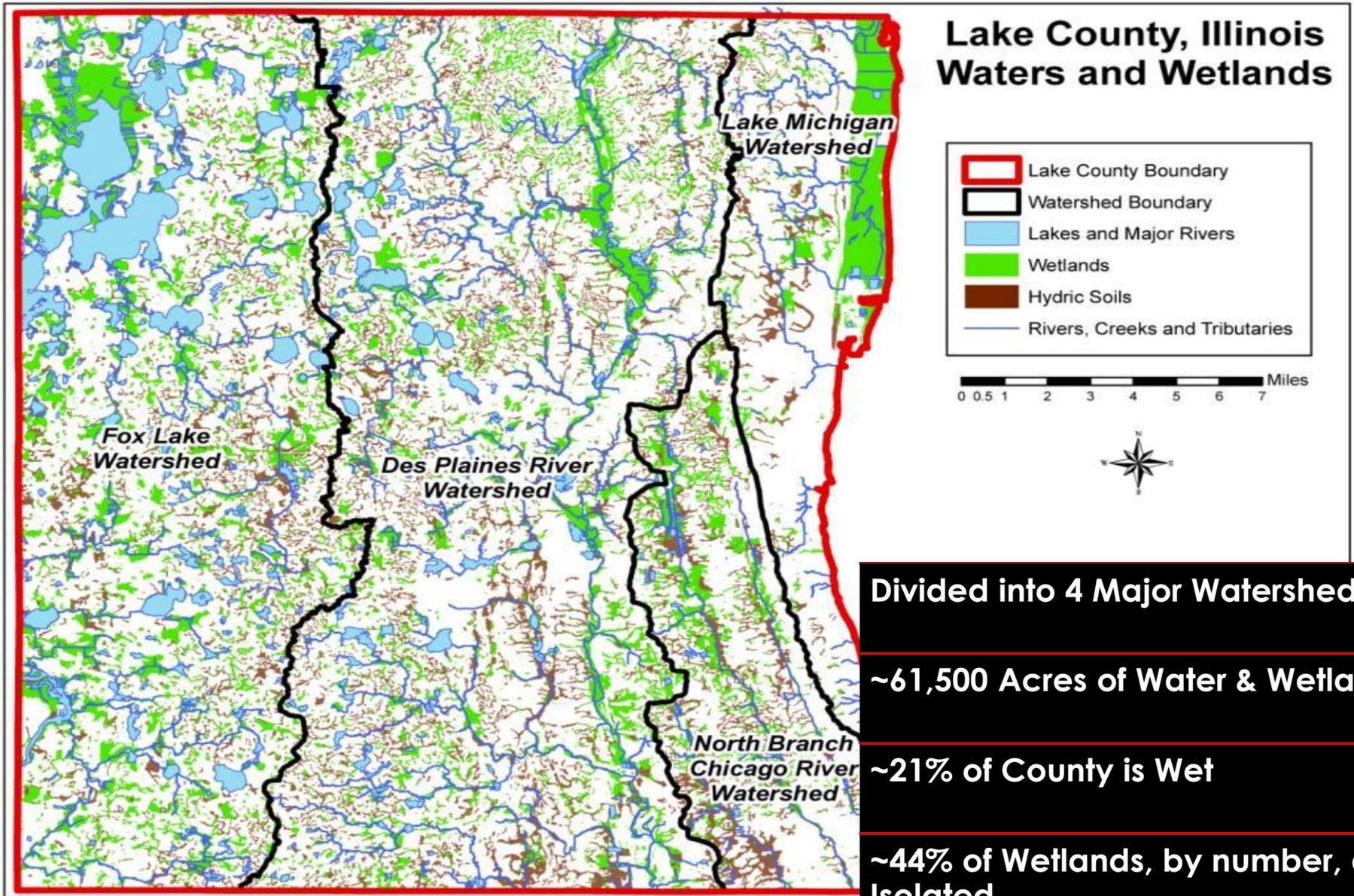


WHY IS STORMWATER MANAGEMENT IMPORTANT?



IMPERVIOUS SURFACES INCREASE THE VOLUME AND RATE OF STORMWATER RUNOFF

WHY IS STORMWATER MANAGEMENT IMPORTANT... ...IN LAKE COUNTY?



Divided into 4 Major Watersheds

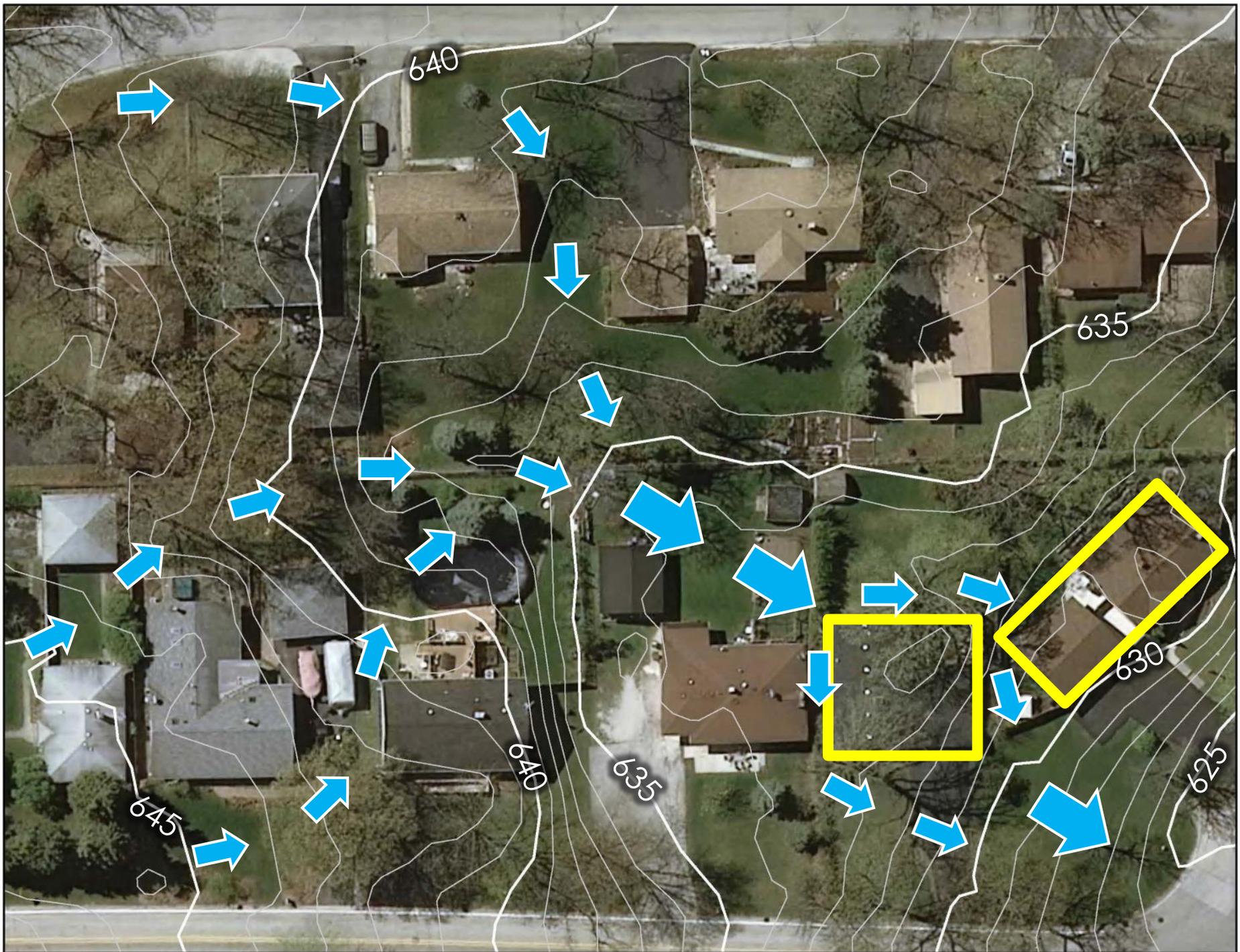
~61,500 Acres of Water & Wetlands

~21% of County is Wet

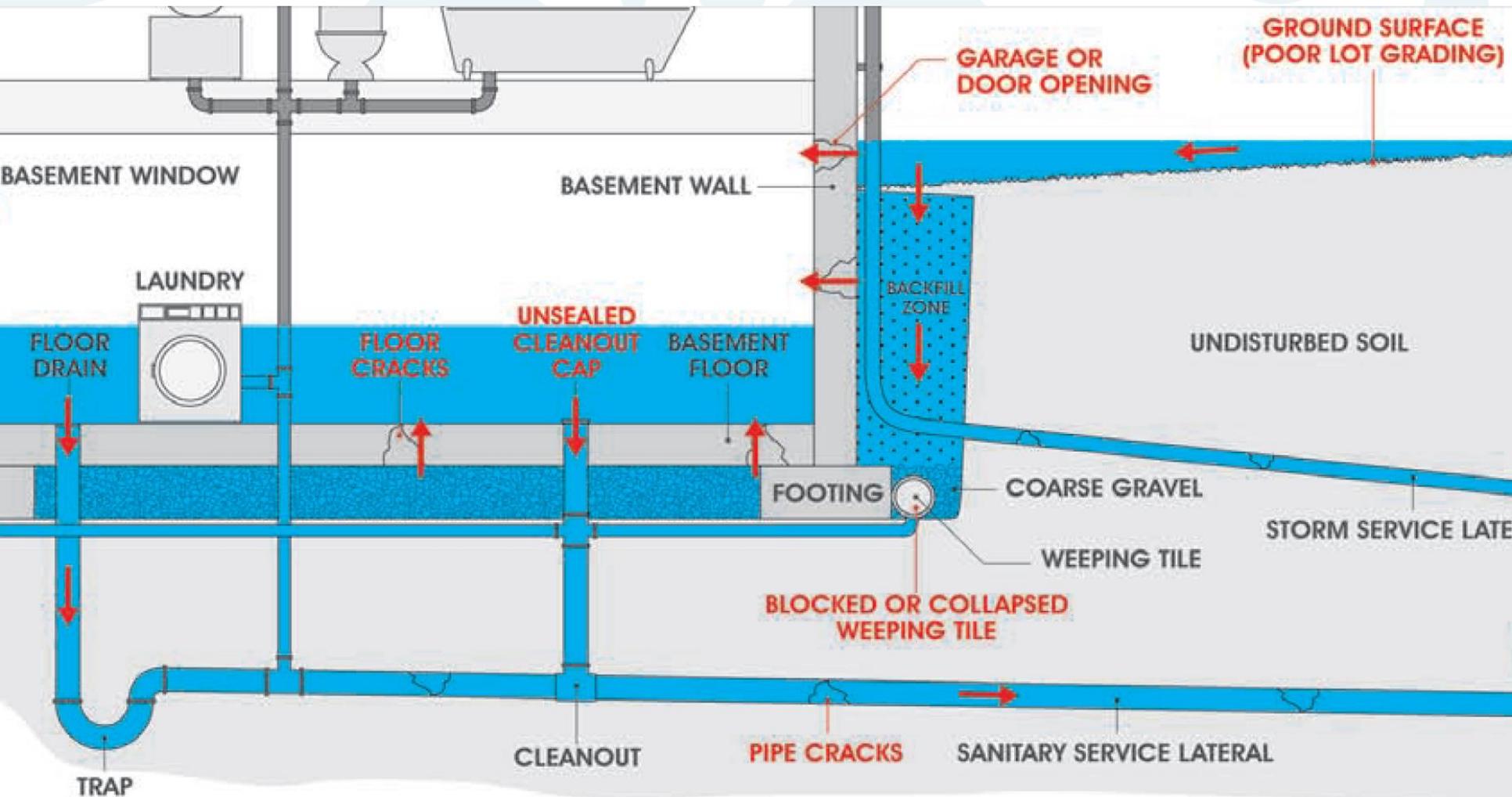
~44% of Wetlands, by number, are Isolated

"AN OUNCE OF
PREVENTION IS
WORTH A POUND
OF CURE"

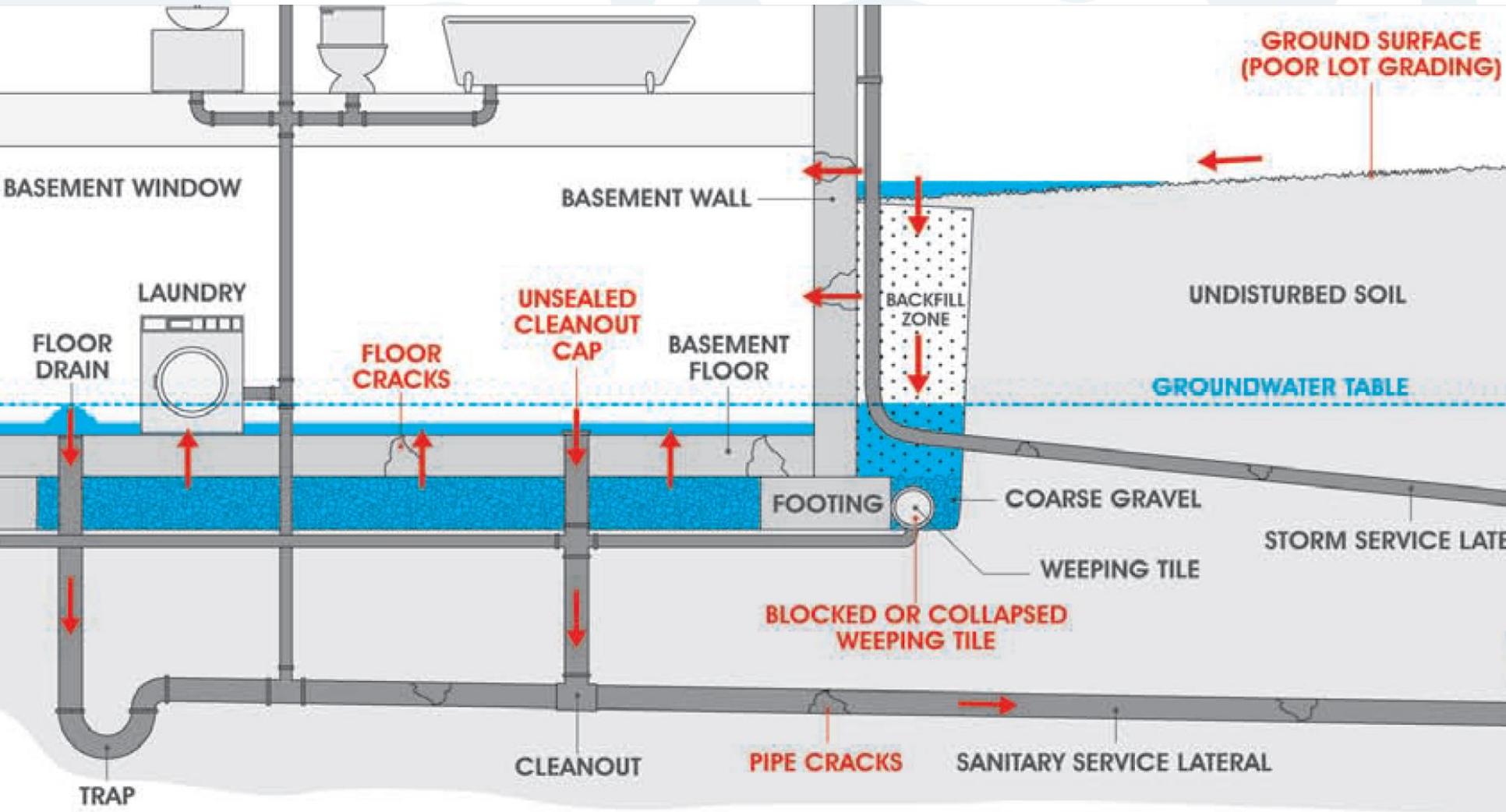




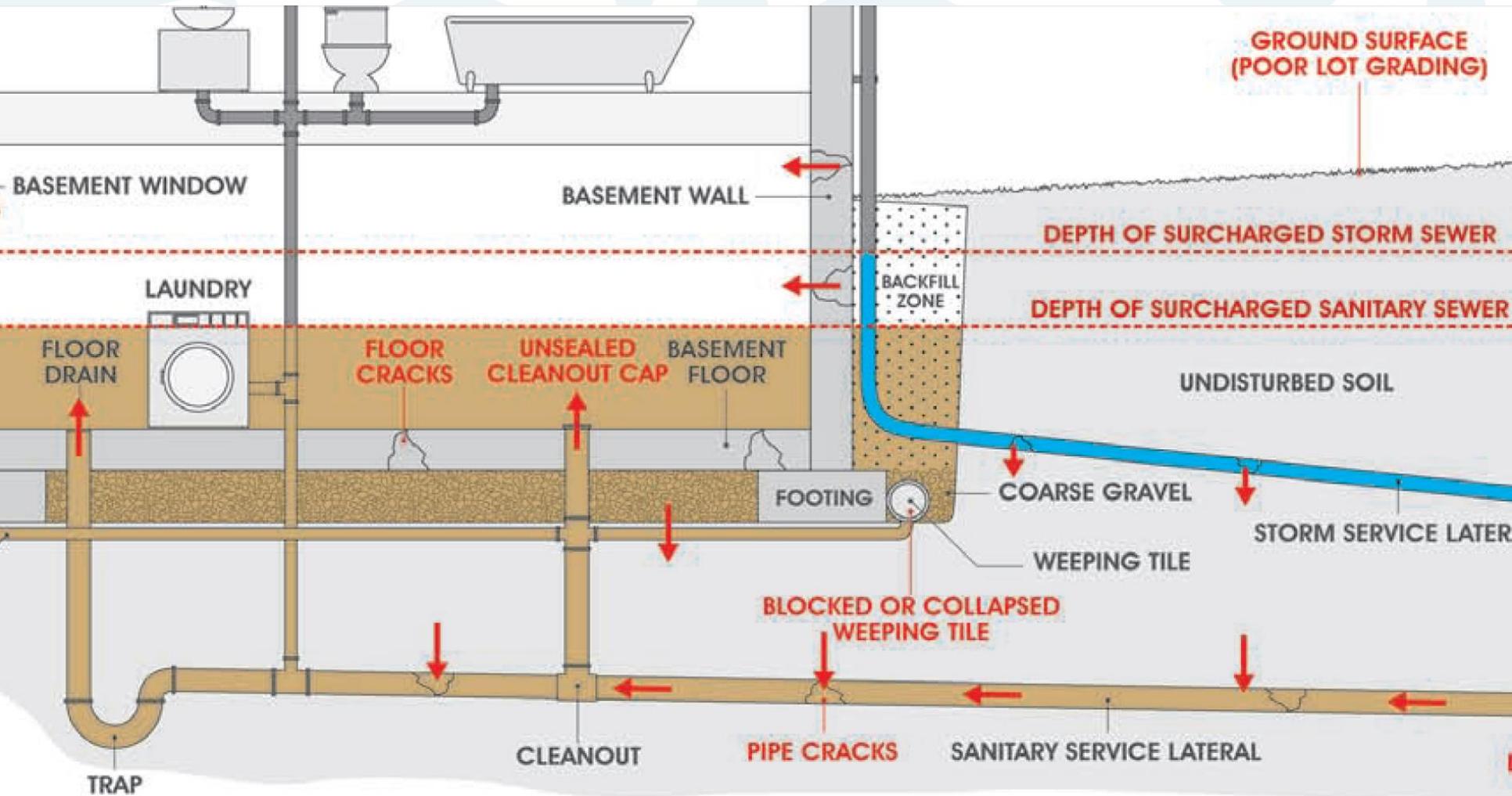
TYPE OF FLOODING: OVERLAND FLOODING



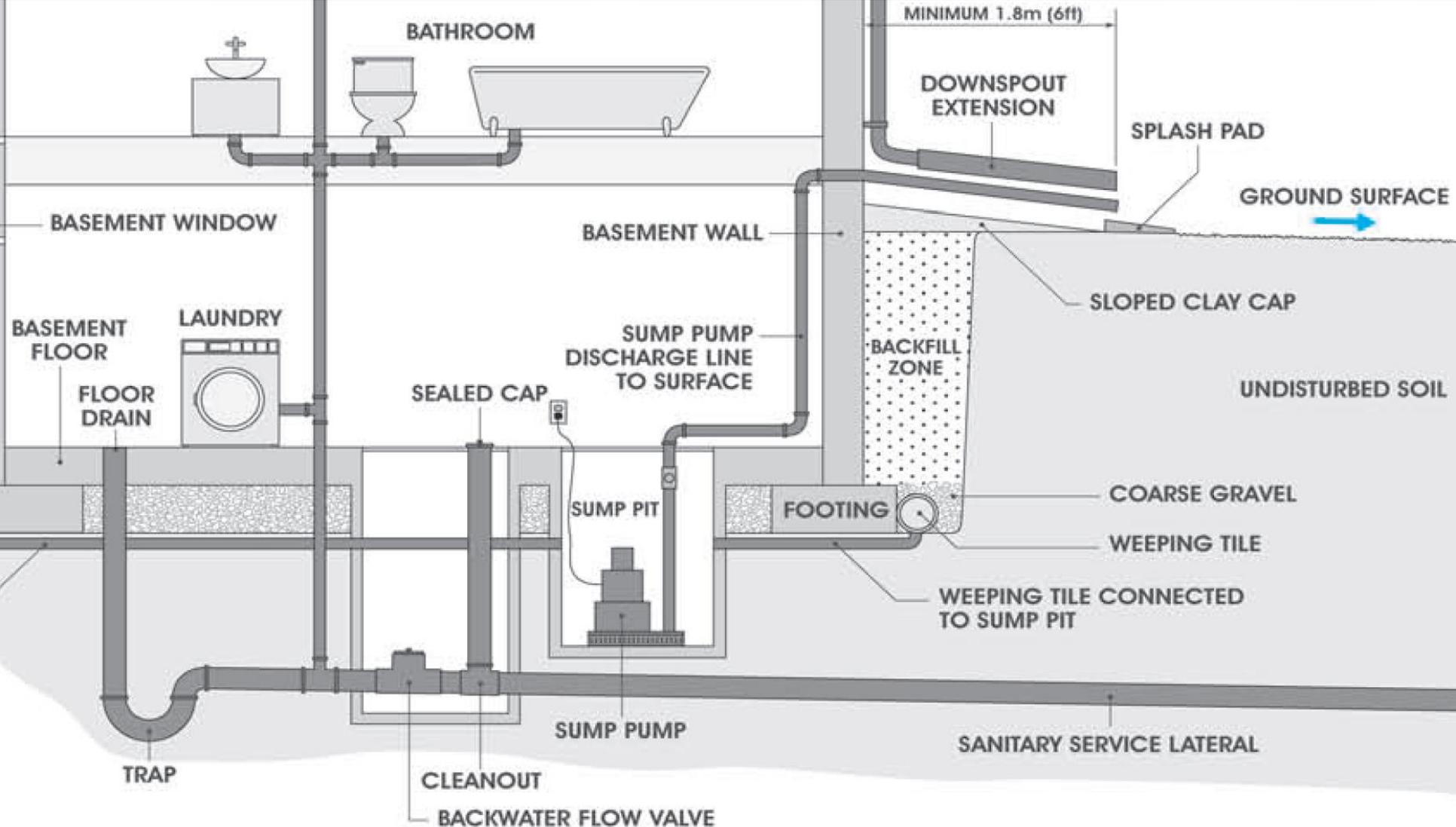
TYPE OF FLOODING: GROUNDWATER INFILTRATION



TYPE OF FLOODING: SEWER BACKUP



HOME PROTECTED FROM FLOODING





STEEL BEAMS TO REINFORCE FOUNDATION WALL FROM BUCKLING/ CRACKING

EXCAVATED TRENCH FOR DRAIN TILE AND WINDOW WELL





**STEEL BEAM AND
BRACKET CONNECTED
TO FLOOR JOIST**



**WINDOW WELL
DRAIN HOLE**

**WALL ANCHOR PLATES TO
REINFORCE FOUNDATION
FROM BUCKLING/CRACKING**





**WALL PLATES AND TIEBACK
RODS ARE ANCHORED
INTO SOLID GROUND**



**INSTALLED WINDOW WELL
WITH DRAIN PIPE AND
COARSE GRAVEL**





**PERFORATED PIPE AND
COARSE GRAVEL
ALLOWS WATER TO
FREELY DRAIN TO
SUMP PIT/PUMP**

**BASEMENT FLOOR SLAB CUT
OPEN TO INSTALL INTERIOR
PERIMETER DRAIN TILE/PIPE**



**STRUCTURAL
REINFORCEMENTS**

CRACK SEALING

**WINDOW WELL
DRAIN PIPE**

INTERIOR DRAIN TILE

**DUAL SUMP PITS, PUMPS, AND
BATTERY BACKUP PUMPS**

QUESTIONS?

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THANK YOU!!!

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