

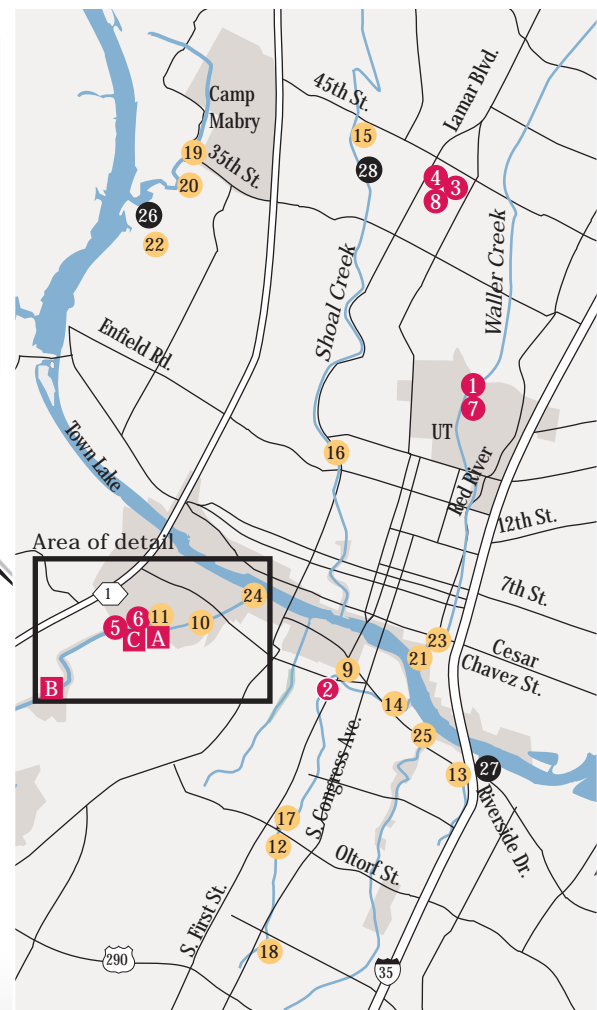
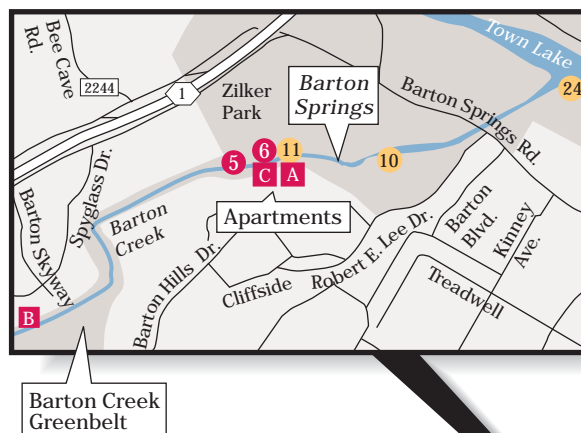
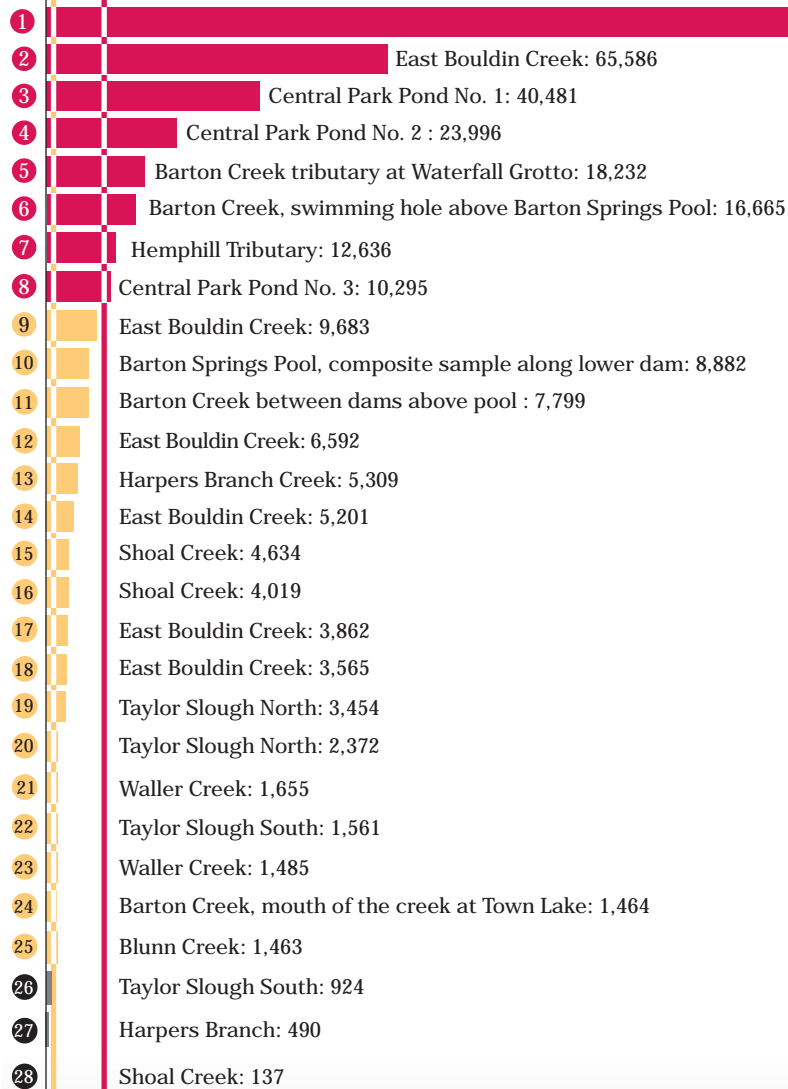
1,000 ppb: EPA may add site to Superfund priority cleanup list if in neighborhood or park setting

10,000 ppb: EPA likely to add site to Superfund priority cleanup list if in neighborhood or park setting

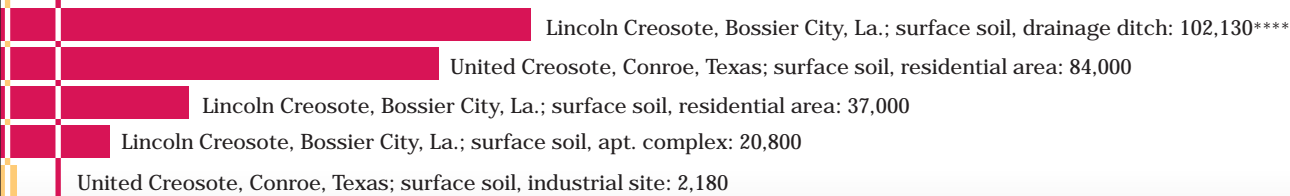
Stream sediment from toxic waste sites comparable to Austin test sites*

Messer Street Manufactured Gas Plant, Laconia, N.H.: 8,200 ppb (Superfund-level site)
Patrick Bayou, Deer Park, Texas: 2,360 (Superfund site)**

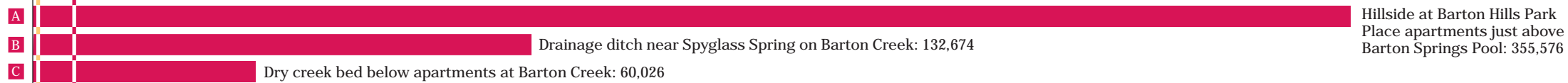
Results of Austin's stream sediment tests, 1991-2002*** (Areas near Barton Springs or Barton Creek are in bold type)



Shallow soil from Superfund toxic waste sites comparable to Austin test sites*



Shallow soil from Austin test sites*** (Areas near Barton Springs or Barton Creek are in bold type)



Comparing the sites

*Federal Superfund sites with a declaration of a public health hazard or cleanups driven by the detection of seven benzene-based compounds, or a combination of those chemicals and other contaminants. (Messer Street in Laconia, N.H., is a Superfund-level site. New Hampshire environmental officials persuaded the EPA not to add it to the Superfund list because two polluters volunteered to clean it up.) The results listed are the highest comparable levels of the seven benzene compounds reported in documents from the EPA or the Agency for Toxic Substances and Disease Registry.

**At Patrick Bayou in Deer Park, one location of 10 sampled had higher levels (23,764 ppb), but EPA officials did not use that result in their assessment because of suspicions about its validity.

****Does not include a 1985 test of surface areas because the testing process and results weren't comparable.

Testing for contaminants in Austin

***Results are listed if there has been more than one measurement of the seven benzene-based compounds above 90 ppb at a location or nearby in the same watershed. All results are from city tests between 1991 and 2002. High readings seen only once at a site, and not replicated by other tests at that location or nearby, are not listed because they may represent errors in laboratory or sampling procedures.

What are PAHs?

Polycyclic aromatic hydrocarbons are formed during the incomplete burning of coal, oil, gas, wood, garbage and other organic materials including tobacco and charbroiled meats. Seven benzene-based compounds in this family are probable or possible human carcinogens and are considered the most common of the PAHs that pose the most concern for human health.

PAHs commonly enter the environment through volcanoes, forest fires and the exhaust of cars and trucks. After falling to earth, the solid particles can enter streams and build up in sediments. The chemicals are commonly found in soil at old industrial sites that

produced coal tar and aluminum and extracted natural gas from coal. Other sources of contamination include decomposing asphalt and used motor oil and grease that washes off streets and parking lots.

Levels of PAHs that accumulate in soil and sediment from auto exhaust and materials such as asphalt coatings are typically many times lower than levels seen at hazardous waste sites, based on nationwide studies of PAHs in streams and in urban and rural soils.