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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII
324 EAST ELEVENTH STREET
KANSAS CITY, MISSOURI - 64106

DIOXIN UPDATE NUMBER 2

DECEMBER 7, 1982

The results of the sampling conducted in October at the Minker residence and surrounding drainage areas, the former Stout property, Country Club Manor, and other selected points are now available.

As we promised you in October, you would be the first to learn the results of the sampling. This letter is to inform you of those results and of the availability of EPA staff to answer your questions.

Objectives and Approach

The purpose of the sampling was to determine exactly where and in what concentrations dioxin contamination is present in the area. The sampling will also help EPA decide upon actions to protect public health. This sampling was designed to be complete and exhaustive. All samples were tested using the most up-to-date analytical methods. The test results were reviewed by experts in EPA Research and Development Laboratories. Careful checks were made to ensure the quality of the sampling and the testing. On the basis of preliminary sampling we sampled four areas in this latest effort. Ninety-five samples were taken at the Minker site; 151 samples at Romaine Creek; 53 at the Stout property; and 13 at Country Club Manor. Samples were tested for dioxin concentrations to a limit of one part per billion (1 ppb) in order to ensure prompt results. Testing was conducted by California Analytical Labs and Wright State University.

Summary of Results

Samples from the Country Club subdivision indicate no detectable contamination above 1 ppb. Concentrations of dioxin in soil at the Stout property were found at the same levels detected in previous sampling but no higher. A high of 22.2 ppb at a depth of 10 feet was found at one point on the property.

The highest levels of dioxin contamination in the area were found in fill material at the Minker residence and down the slope behind the house, where one sample indicated 301 ppb.

In Romaine Creek concentration of dioxin in sediments were highest where drainage from the Minker property enters the creek. The concentration, however, decreased sharply to below the 1 ppb detection level after 6,000 feet downstream.

Samples of dust from vacuum cleaner bags were collected from five areas houses. Dioxin contamination was found only in the sample from the Minker residence and there at only 3.6 ppb.

Action Options

On the basis of the sampling results, EPA is considering the following range of activities under a planned removal action:

- Excavation and removing of contaminated soil;
- Transporting contaminated soil to an approved disposal site;
- Backfilling; and
- Possible temporary relocation of affected families during excavation and backfilling.

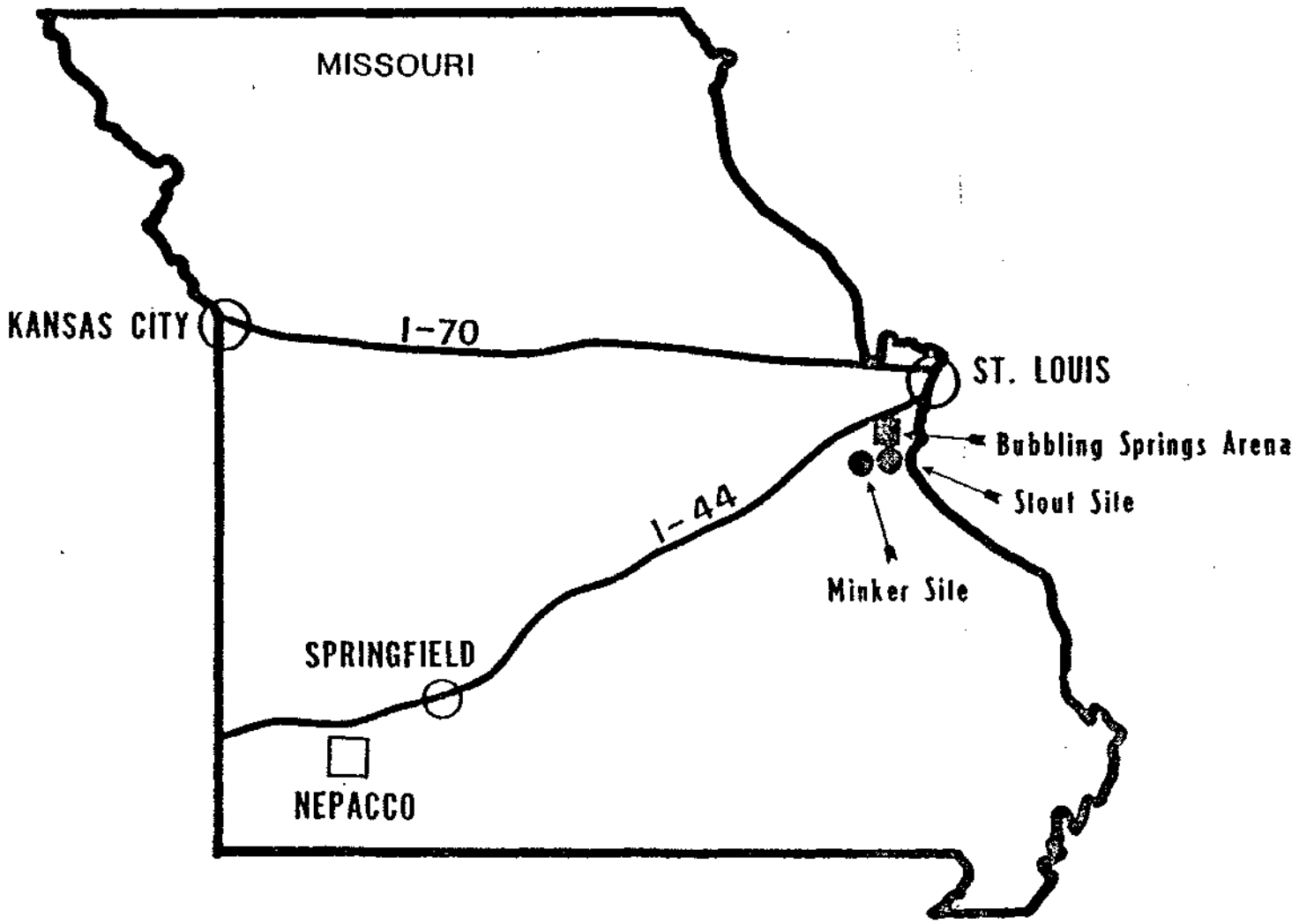
EPA's Future Plans

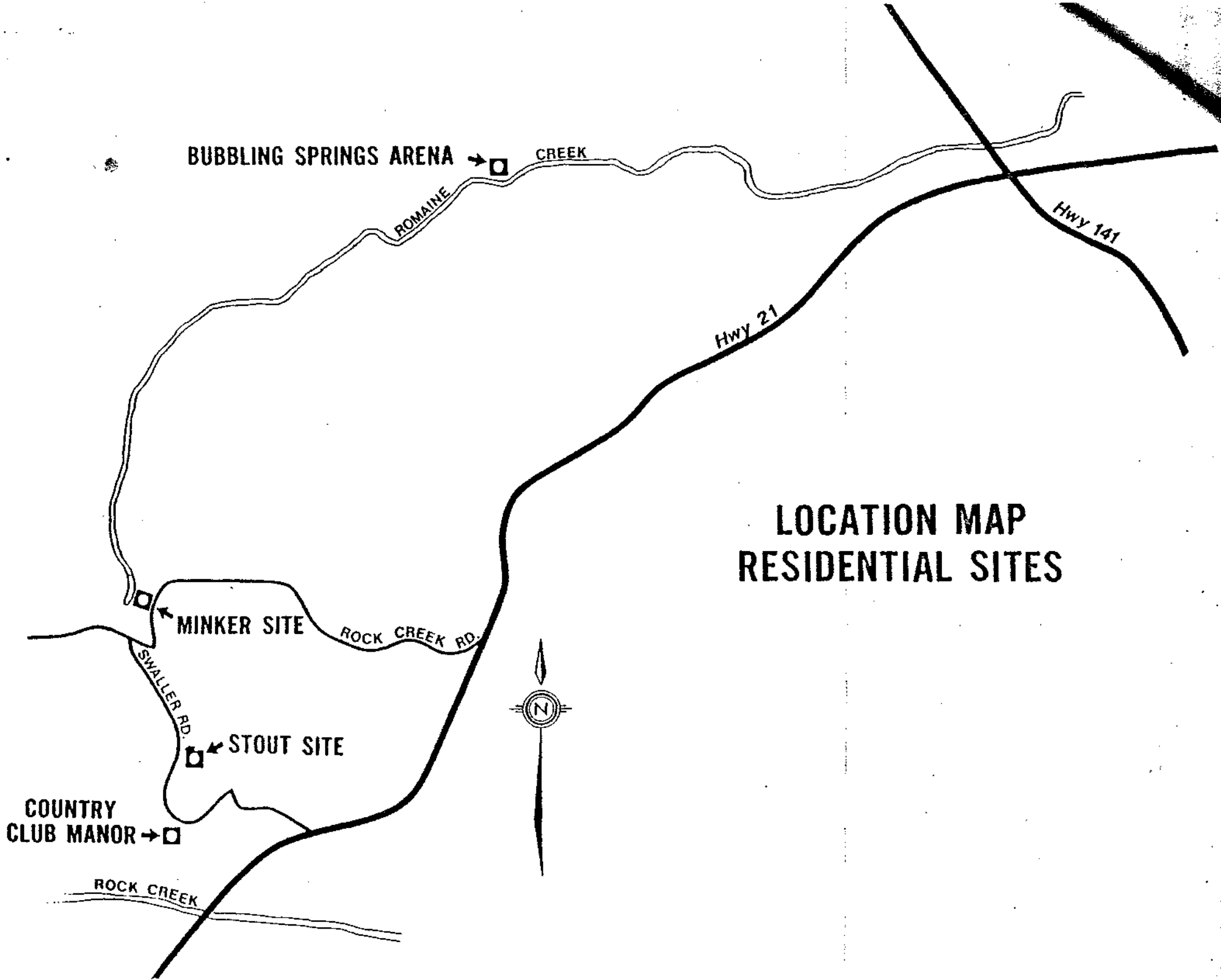
EPA is following our carefully developed plans for the handling of the dioxin contamination problems in this area. Now that sampling has been completed we have a solid basis for deciding which actions are necessary to protect public health. We will continue sampling and testing as necessary. In addition, we are exploring all possible legal options. As we proceed we will continue to keep you informed of our progress.

Public Inquiry Center

We welcome your questions. Our first concern is that all of your questions are answered clearly. For your convenience, EPA staff will be at the Rodeway Inn South, Suite 21-23, 3660 South Lindbergh from Wednesday through Sunday, 9 a.m. to 9 p.m. The telephone number is (314) 821-3000. We encourage you to meet with our staff at the motel and recommend that you phone for an appointment in advance to avoid waiting.

STATE LOCATION MAP





BUBBLING SPRINGS ARENA → □ CREEK

ROMAINE

Hwy 21

Hwy 141

LOCATION MAP RESIDENTIAL SITES

← □ MINKER SITE

ROCK CREEK RD.

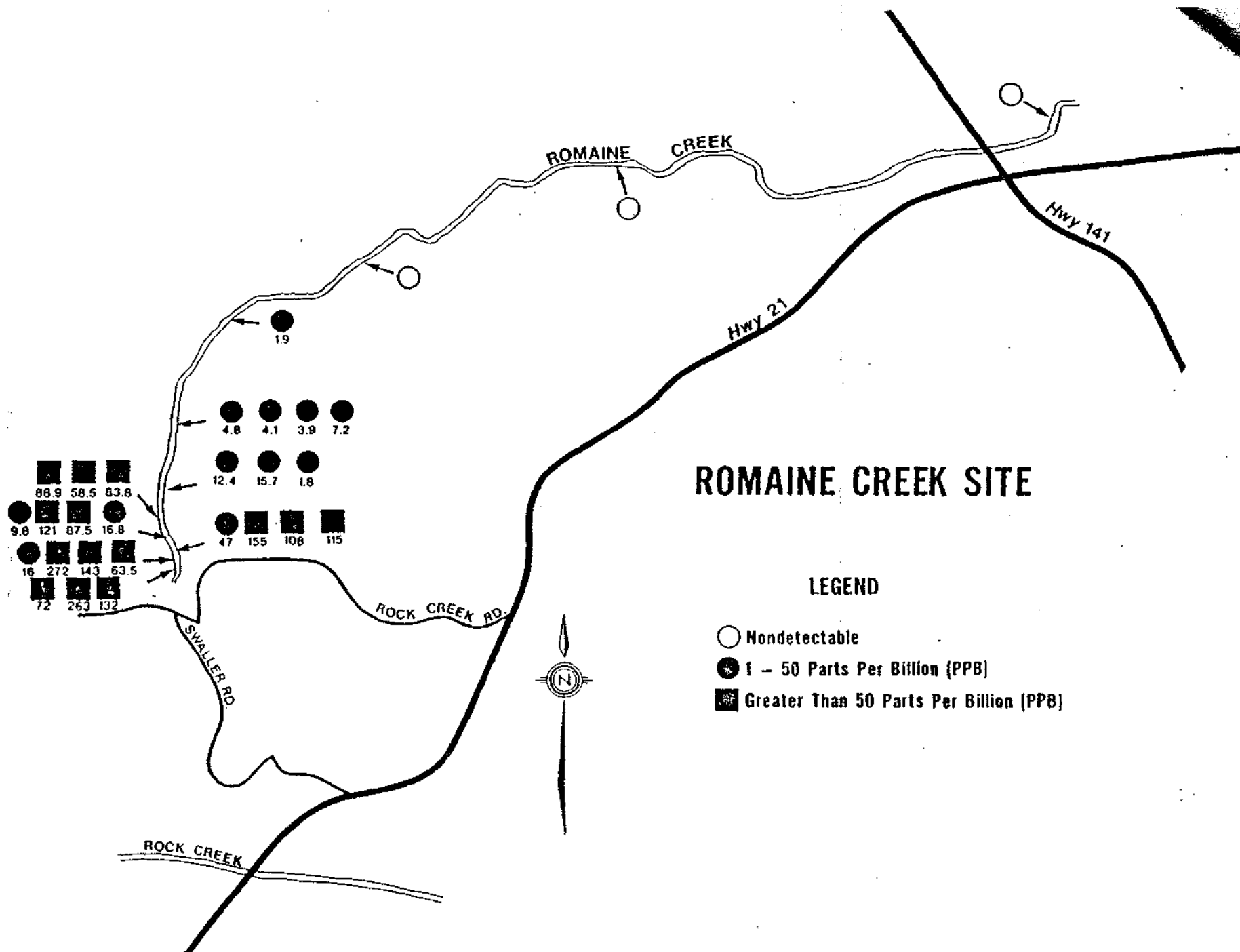
SWALLER RD.

← □ STOUT SITE

COUNTRY CLUB MANOR → □

ROCK CREEK





ROMAINE CREEK SITE

LEGEND

- Nondetectable
- 1 - 50 Parts Per Billion (PPB)
- Greater Than 50 Parts Per Billion (PPB)

88.9	58.5	83.8
9.8	121	87.5
16	272	143
72	263	132
16.8		

4.8	4.1	3.9	7.2
12.4	15.7	1.8	
47	155	108	115

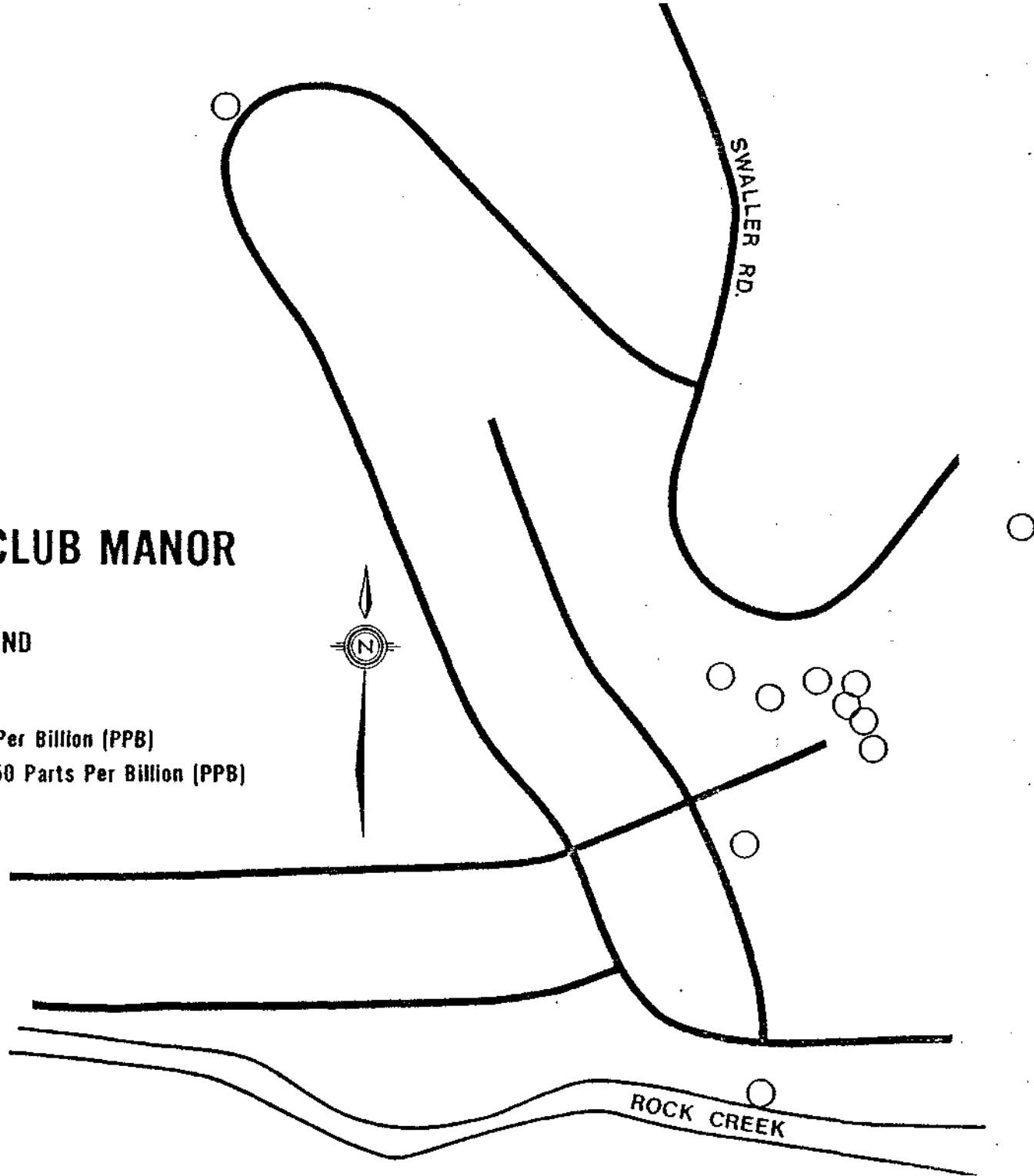
1.9



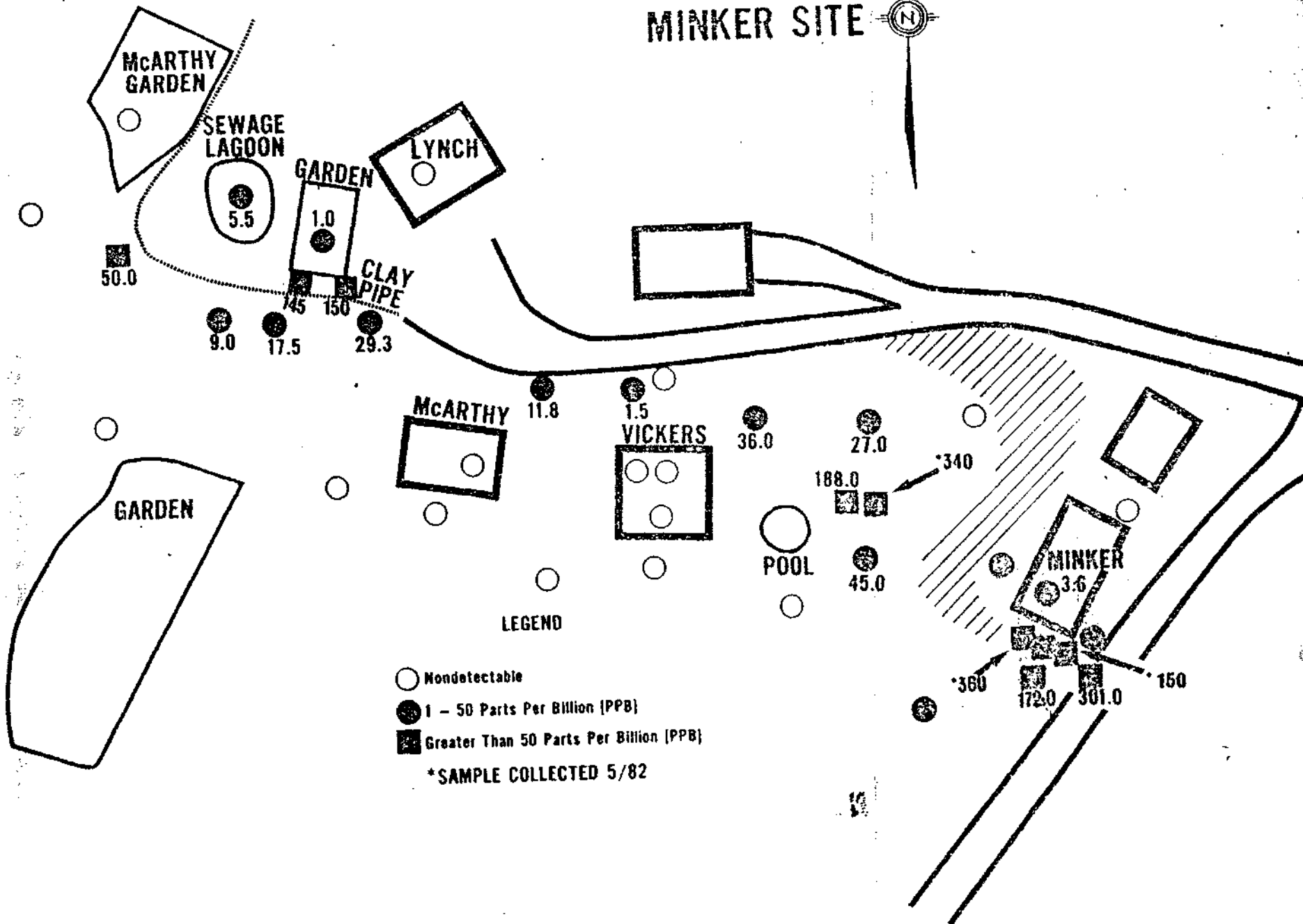
COUNTRY CLUB MANOR

LEGEND

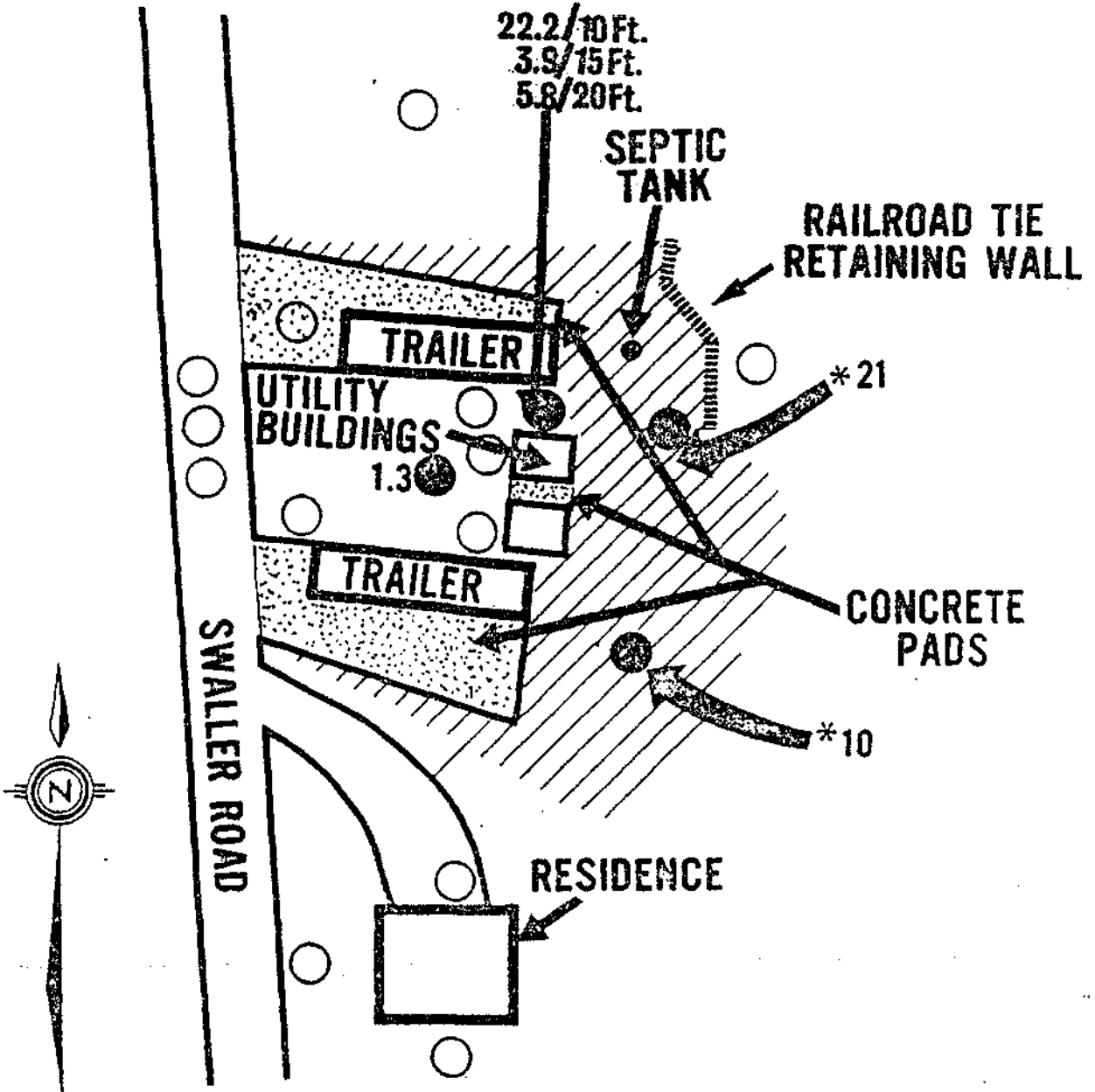
- Nondetectable
- 1 - 50 Parts Per Billion (PPB)
- Greater Than 50 Parts Per Billion (PPB)



MINKER SITE



STOUT SITE



LEGEND

- Nondetectable
- 1 - 50 Parts Per Billion (PPB)
- Greater Than 50 Parts Per Billion (PPB)

*SAMPLE COLLECTED 5/82