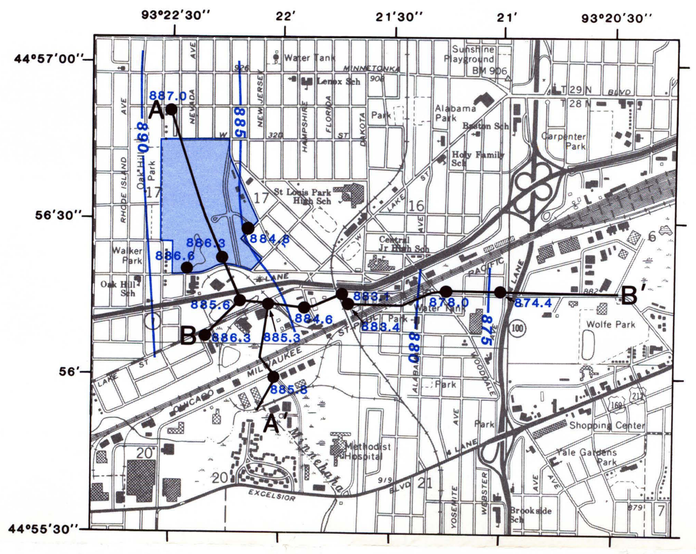
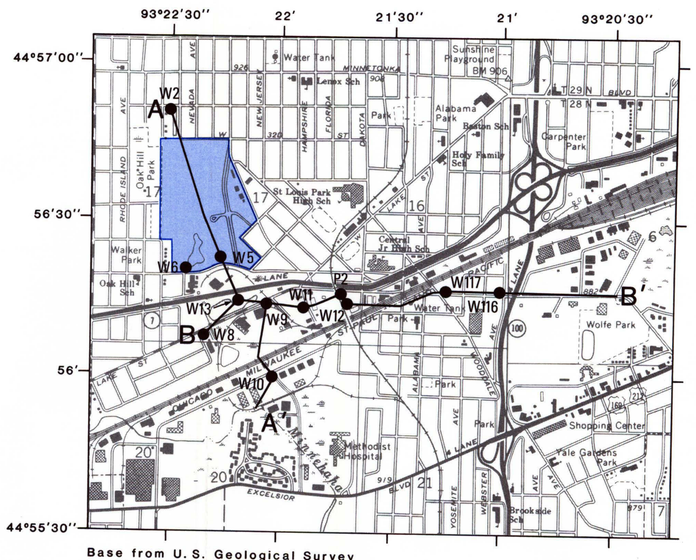


GENERALIZED POTENTIOMETRIC SURFACE, JUNE 5, 1979

EXPLANATION

884.8 — Water level, in feet above National Geodetic Vertical Datum of 1929

—890— POTENTIOMETRIC CONTOUR--Contour interval 5 feet. National Geodetic Vertical Datum of 1929



Base from U. S. Geological Survey
Hopkins and Minneapolis South; both maps
1:24,000, 1967 (Photorevised 1972)

LOCATION OF OBSERVATION WELLS

EXPLANATION

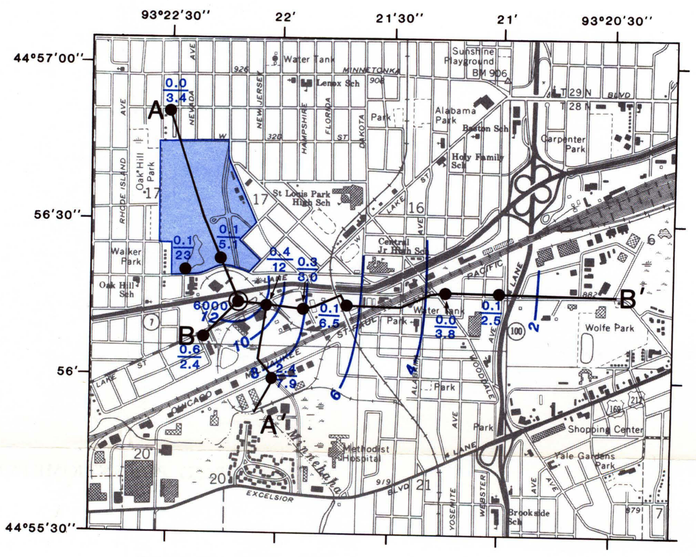
W6 — Location of well and well number

EXPLANATION FOR COMMON FEATURES

B—B′ Line of section

Line of section (plate 3)

0 ½ MILE
0 .5 KILOMETER



DISTRIBUTION OF ORGANIC CARBON IN FLUID PUMPED FROM WELLS, MARCH–APRIL 1979

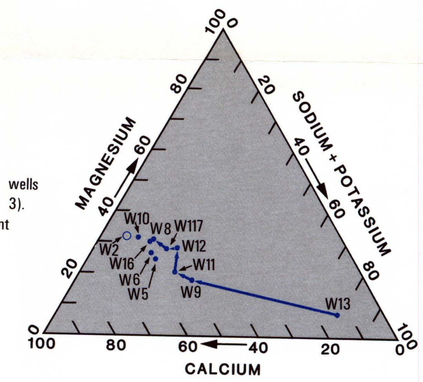
EXPLANATION

CONCENTRATION, IN MILLIGRAMS PER LITER

0.1 / 2.5 — Upper number denotes suspended organic carbon; Lower number denotes dissolved organic carbon

6000 — Total organic carbon

8 — LINE OF EQUAL DISSOLVED ORGANIC CARBON CONCENTRATION--Interval 2 milligrams per liter



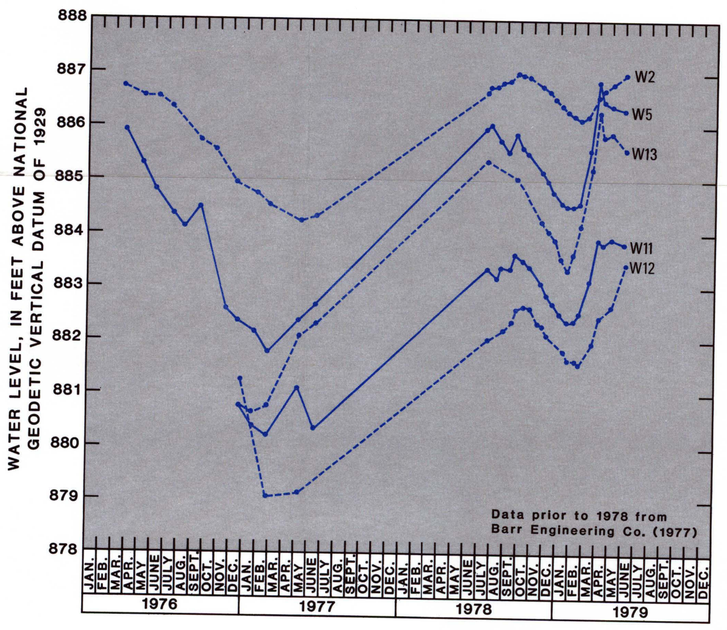
PERCENTAGE REACTING VALUES OF CATIONS IN FLUID PUMPED FROM WELLS, MARCH–APRIL 1979

EXPLANATION

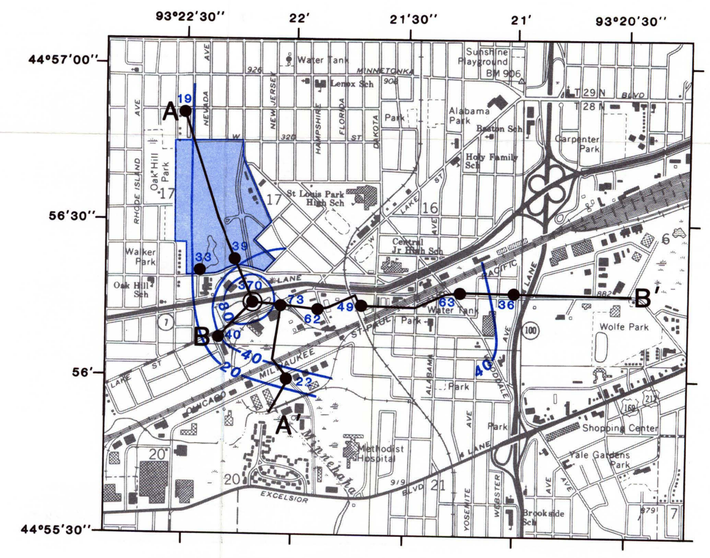
W12 — Well number

W2 — Well upgradient from general area of contamination

W9 — W13 — Line connecting samples from adjacent wells in hydrogeochemical section B–B′ (pl. 3). Arrow indicates direction of contaminant transport



RELATIONSHIP BETWEEN WATER LEVELS IN SELECTED OBSERVATION WELLS



DISTRIBUTION OF SODIUM IN FLUID PUMPED FROM WELLS, MARCH–APRIL 1979

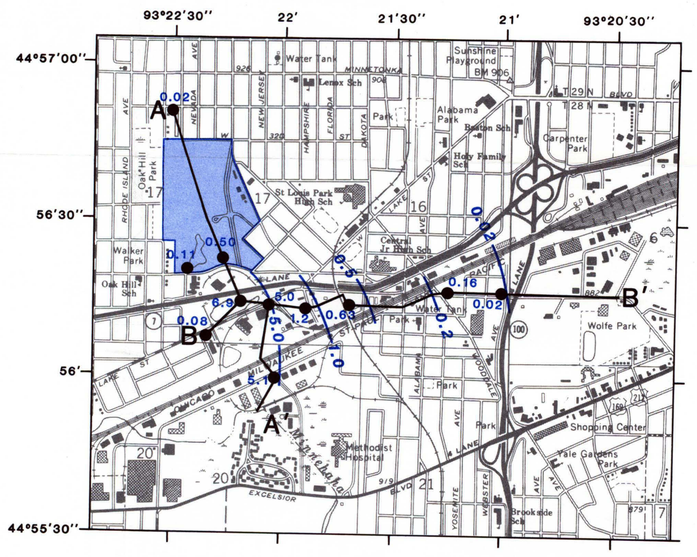
EXPLANATION

CONCENTRATION, IN MILLIGRAMS PER LITER

49 — Dissolved sodium

370 — Total sodium

—20— LINE OF EQUAL SODIUM CONCENTRATION--Interval variable

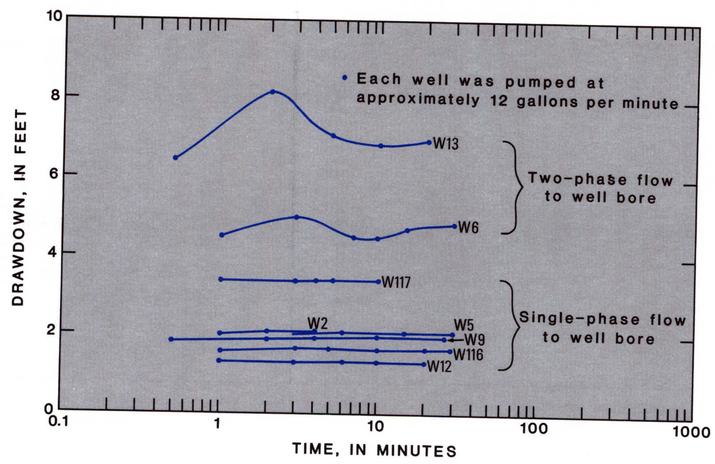


DISTRIBUTION OF AMMONIA IN FLUID PUMPED FROM WELLS, MARCH–APRIL 1979

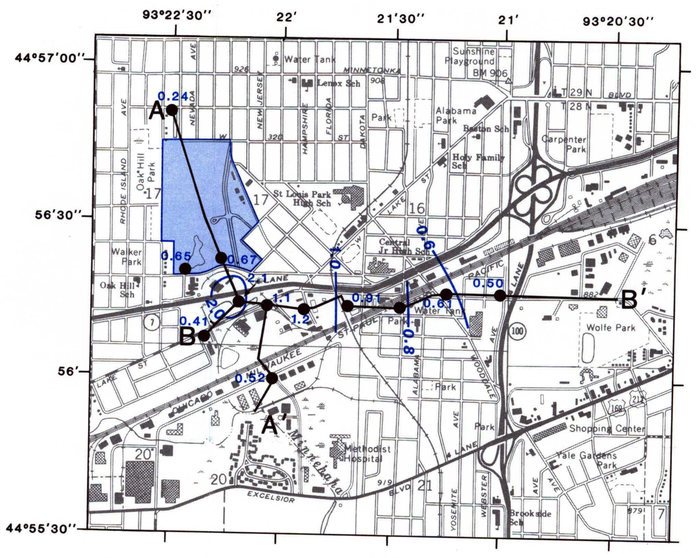
EXPLANATION

0.08 — Total ammonia, in milligrams per liter, as nitrogen

—5.0— LINE OF EQUAL TOTAL AMMONIA CONCENTRATION--Interval variable



TIME–DRAWDOWN CURVES FOR WELLS IN AREAS OF TWO–PHASE AND SINGLE–PHASE CONDITIONS



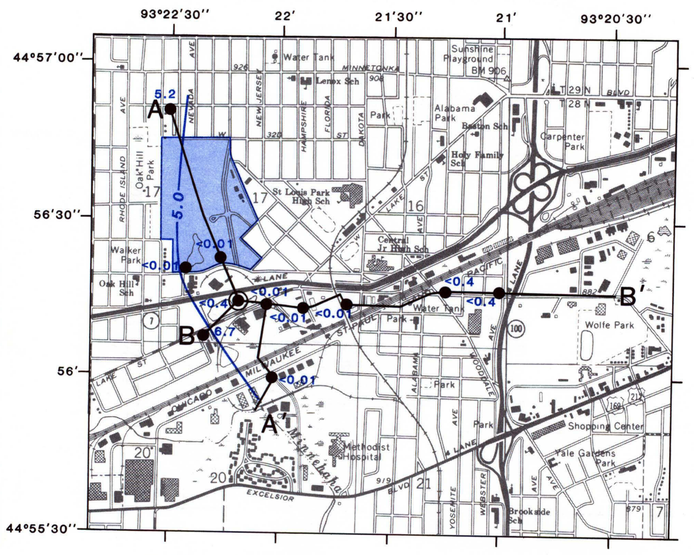
DISTRIBUTION OF RATIO OF SODIUM TO CHLORIDE IN FLUID PUMPED FROM WELLS, MARCH–APRIL 1979

EXPLANATION

RATIO OF SODIUM TO CHLORIDE

0.67 — Na, in milliequivalents per liter / Cl, in milliequivalents per liter

0.6 — LINE OF EQUAL RATIO OF SODIUM TO CHLORIDE--Interval variable



DISTRIBUTION OF NITRATE IN FLUID PUMPED FROM WELLS, MARCH–APRIL 1979

EXPLANATION

CONCENTRATION, IN MILLIGRAMS PER LITER, AS NITROGEN

<0.01 — Dissolved nitrate

<0.4 — Total nitrate

—5.0— LINE OF EQUAL NITRATE CONCENTRATION

HYDROGEOLOGY AND CHEMICAL QUALITY OF THE MIDDLE DRIFT AQUIFER, ST. LOUIS PARK, MINNESOTA