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## TEMPERATURE SURVEY

January 22-24, 1986

Number of Probes: 57

Maximum Temperature: 19.62 degrees C

Minimum Temperature: 16.49 degrees C

Average Temperature: 17.65  $\pm$  0.85 degrees C

Skewness: -1.43

### Interpretation

Temperatures in this survey averaged about 0.5° C cooler than those in the survey of January 13-14. As the temperature change at a depth of 10 feet lags about 2 months behind that at the surface, these results reflect decreasing ambient temperatures in Fall, 1985.

The general pattern is similar to that observed in the first survey.

The thermal drift (difference in temperature at a station between two readings) at Station 51 is +1.41° C. As all other stations experienced a negative thermal drift, it is likely that at least one of the measurements at Station 51 was in error. The temperature at Station 51 correlates much better with surrounding temperatures in this survey than in the previous one, suggesting that the reading in the first survey is in error.

Our interpretation of ground water flow paths and directions is unaffected by the possibility of a reading error at Station 51.

There may be some flow northeastward between Stations 52 and 54 toward Station 53.

References made to ground water flow in these discussions are intended to describe the principal zones of more active ground water movement. Ground water occurs pervasively within the project area and moves in accordance with the indicated directions.