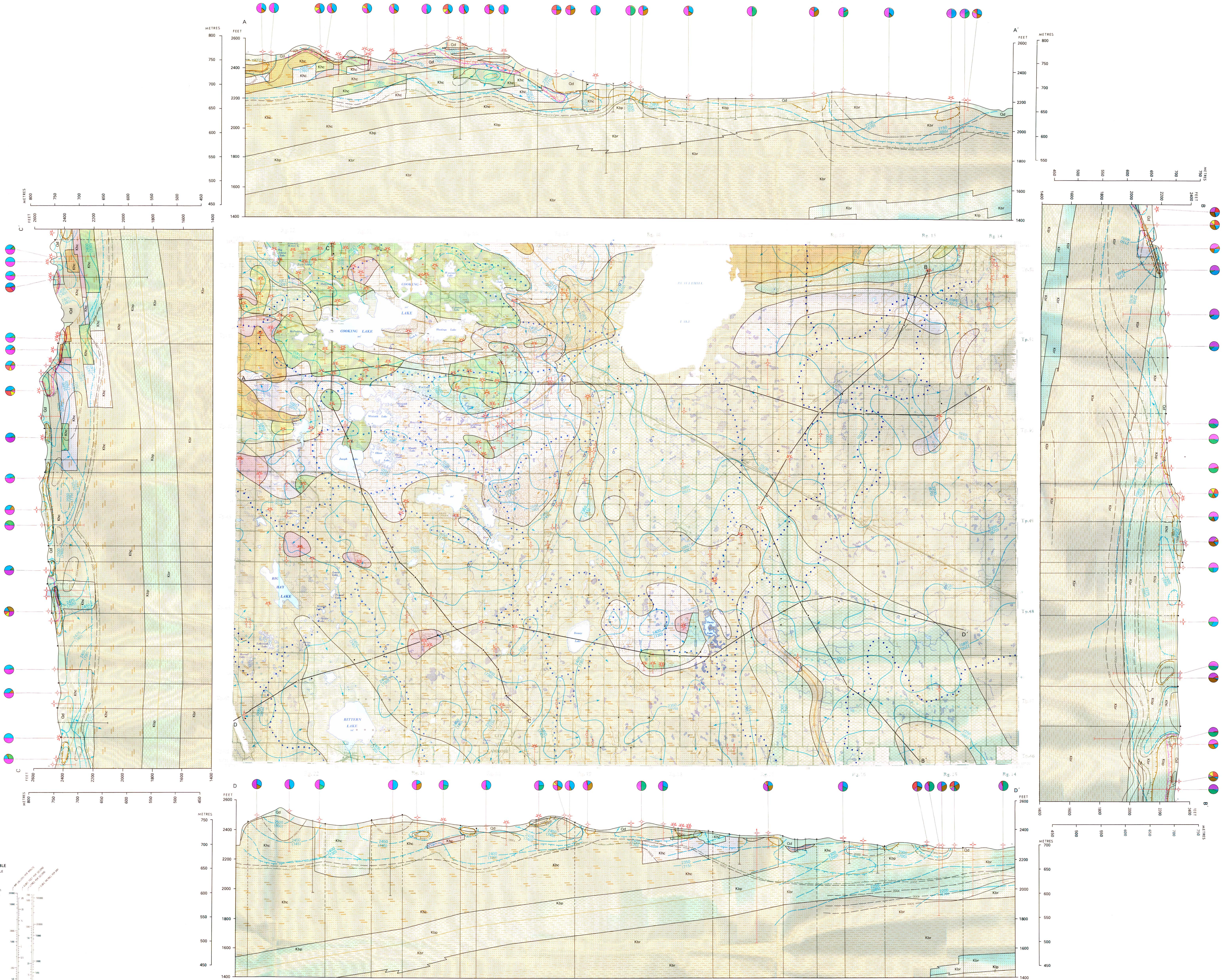


MAIN MAP LEGEND

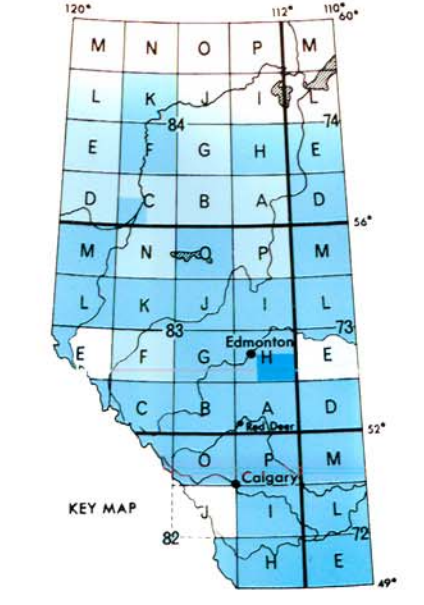
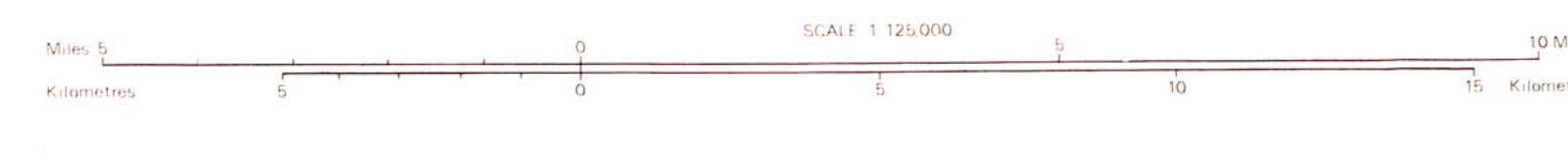
- Topography**  
Surface contours and elevation in feet (interval 50 feet)
- Geology**  
Geological boundary  
Buried valley boundary  
Thalweg of buried valley, defined
- QUATERNARY deposits**  
Unconsolidated deposits
- CRETACEOUS**  
Khc Horseshoe Canyon Formation  
Kbp Bearpaw Formation  
Kbr Belly River Formation  
Kip Leo Park Formation
- Lithology**  
Gravel  
Sand and gravel  
Sandstone  
Shale  
Coal
- Hydrography**  
Lake or stream, perennial  
Lake or stream, intermittent  
Marsh, muskeg  
Stream, perennial  
Stream, intermittent  
Surface water divide  
Surface water divide
- Hydrogeology**  
Spring, flow rate unknown  
Non-saturated water flow (direction, direction of flow above mean in brackets) and vertical component of groundwater flow (direction, direction of flow above mean in brackets)  
Component of groundwater flow perpendicular to profile (out of profile towards reader)  
Component of groundwater flow parallel to profile (downward divide)  
Boundary of area of artesian flow
- Groundwater Probability**  
Range of average expected yield of wells in imperial gallons per minute (l/sec)
- |  |   |
|--|---|
| Probable, estimated from quantitative information (pump tests, bail tests, etc.) | Probable, estimated from qualitative information (flow regime, lithology, etc.) |
| 20-100 (0.8-4.0)   | 2-10 (0.1-0.4)  |
| 1-5 (0.1-0.2)  | 1 (0.1)   |
- Yield area boundary**
- Wells and Other Artificial Works**  
Depth Scale  
Water well, non-flowing  
Water well, flowing  
Alberta Research Council test well  
Water well, 20 year safe yield calculated from a good bail test or a short pump test  
Water well, 20 year safe yield calculated from a pump test of sufficient length to reflect regional hydraulic conditions  
Adjacent wells  
Water well, 20 year safe yield calculated from apparent transmissivity  
Electric structure reported to have flowed, unknown depth  
Electric structure reported to have flowed, known depth  
Oil well  
Structure test well  
Exploratory hole for coal  
Depth of exploratory well
- Line of hydrogeological profile**
- Hydrochemistry**  
Total dissolved solids in parts per million  
Sulfate  
Sulfate along which calcium + magnesium constitute 60 percent of total cations\*  
Sulfate along which sodium + potassium constitute 40 percent of total cations\*  
Sulfate along which carbonate + bicarbonate constitute 60 percent of total anions\*  
Sulfate along which sulfate constitutes 60 percent of total anions\*  
Sulfate along which chloride constitutes 60 percent of total anions\*
- \* based on anhydrous per cent basis



CONVERSION TABLE  
LOGARITHMIC SCALE

1000 METERS	3280 FEET
100 METERS	328 FEET
10 METERS	32.8 FEET
1 METER	3.28 FEET
100 METERS	1093.6 FEET
1000 METERS	3280.8 FEET
10000 METERS	32808 FEET
100000 METERS	328080 FEET
1000000 METERS	3280800 FEET

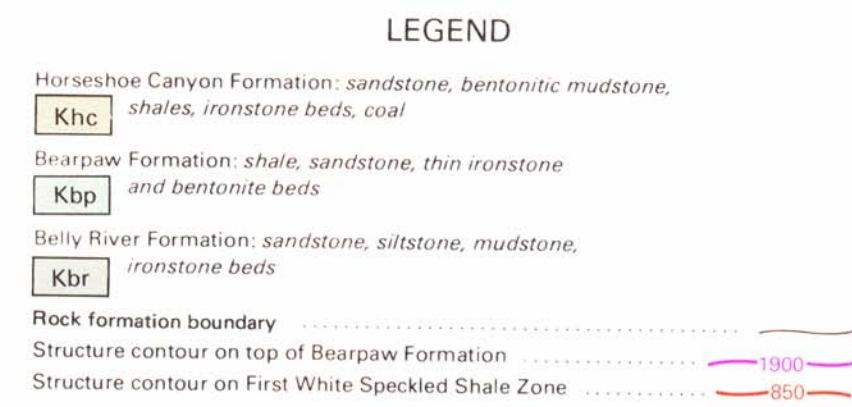
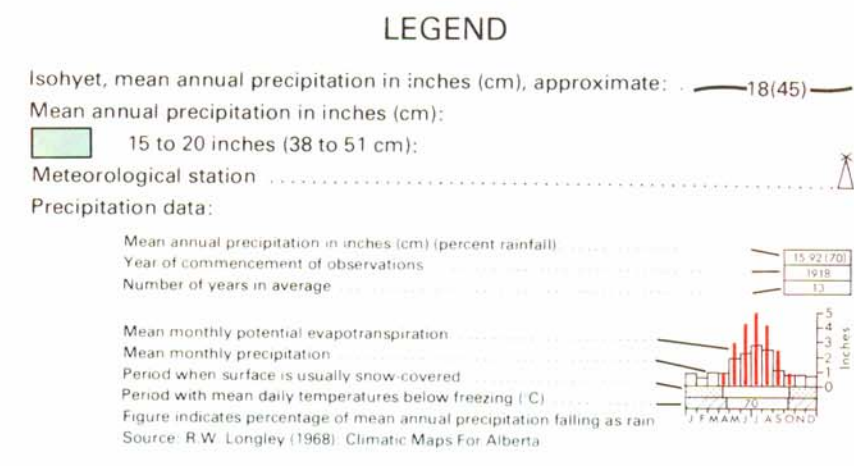
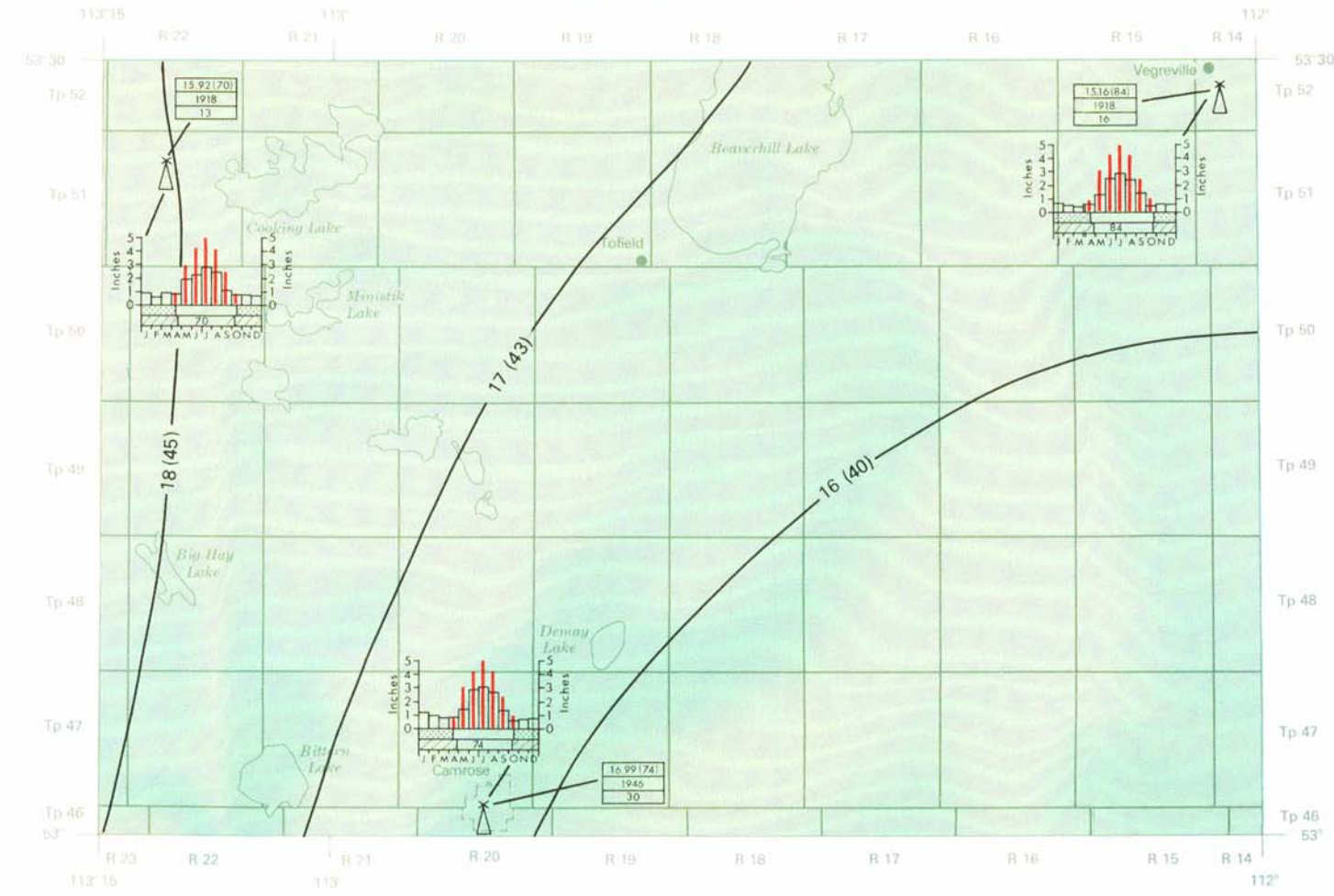
All elevations in feet above mean sea level.  
Vertical exaggeration of the hydrogeological profile is approximately 50X.  
An approved legend and explanatory notes (Report 72-12) for use with this hydrogeological map series is available from Publications, Alberta Research Council, 1335, 87 Avenue, Edmonton, Canada T6E 2C2.  
Map to accompany Report 78-6.  
Hydrogeology by R. Seem and V.A. Carson.  
Drafted by J.K. Mathie.



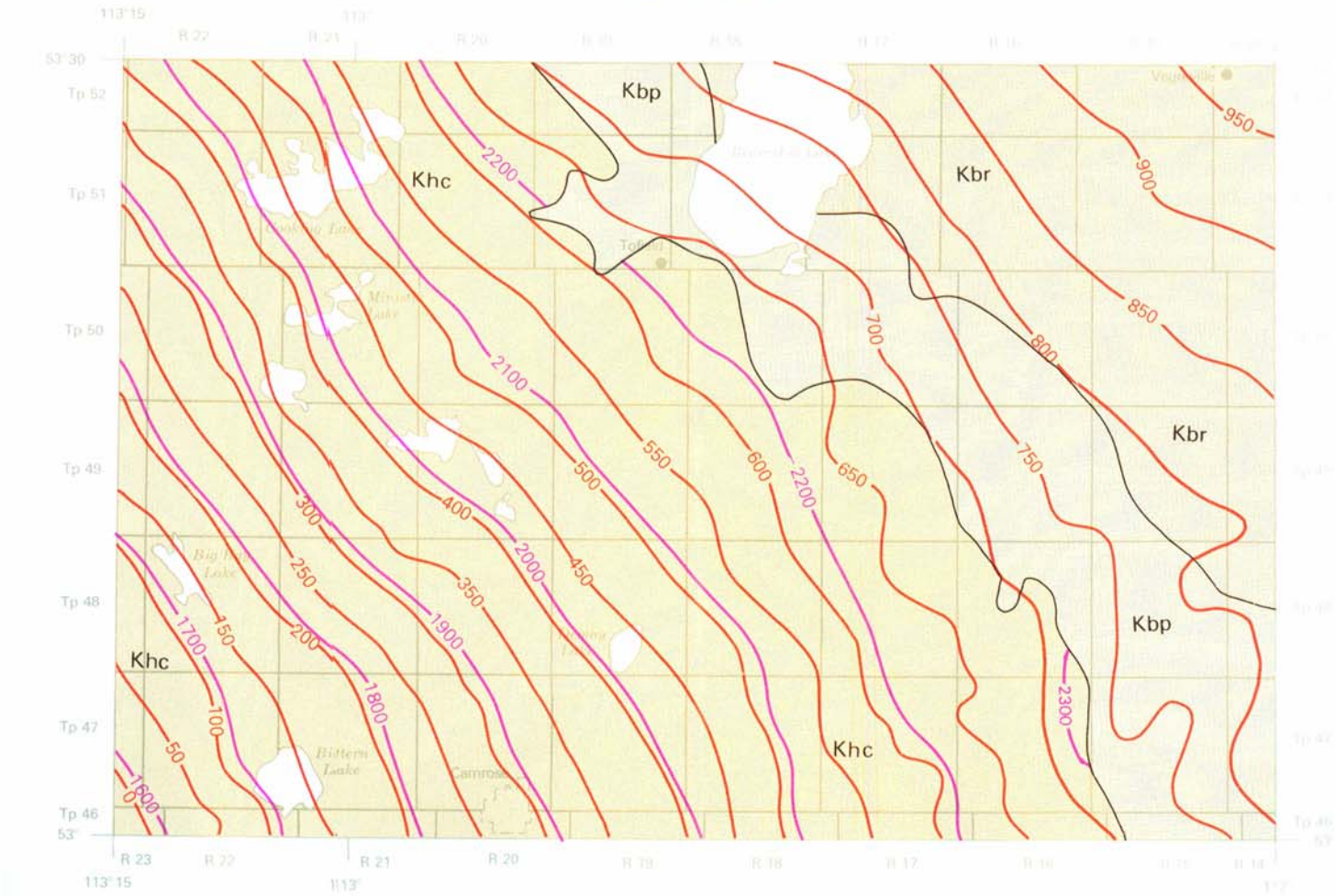
HYDROGEOLOGICAL MAP  
EDMONTON AREA  
(Southeast Segment)  
ALBERTA



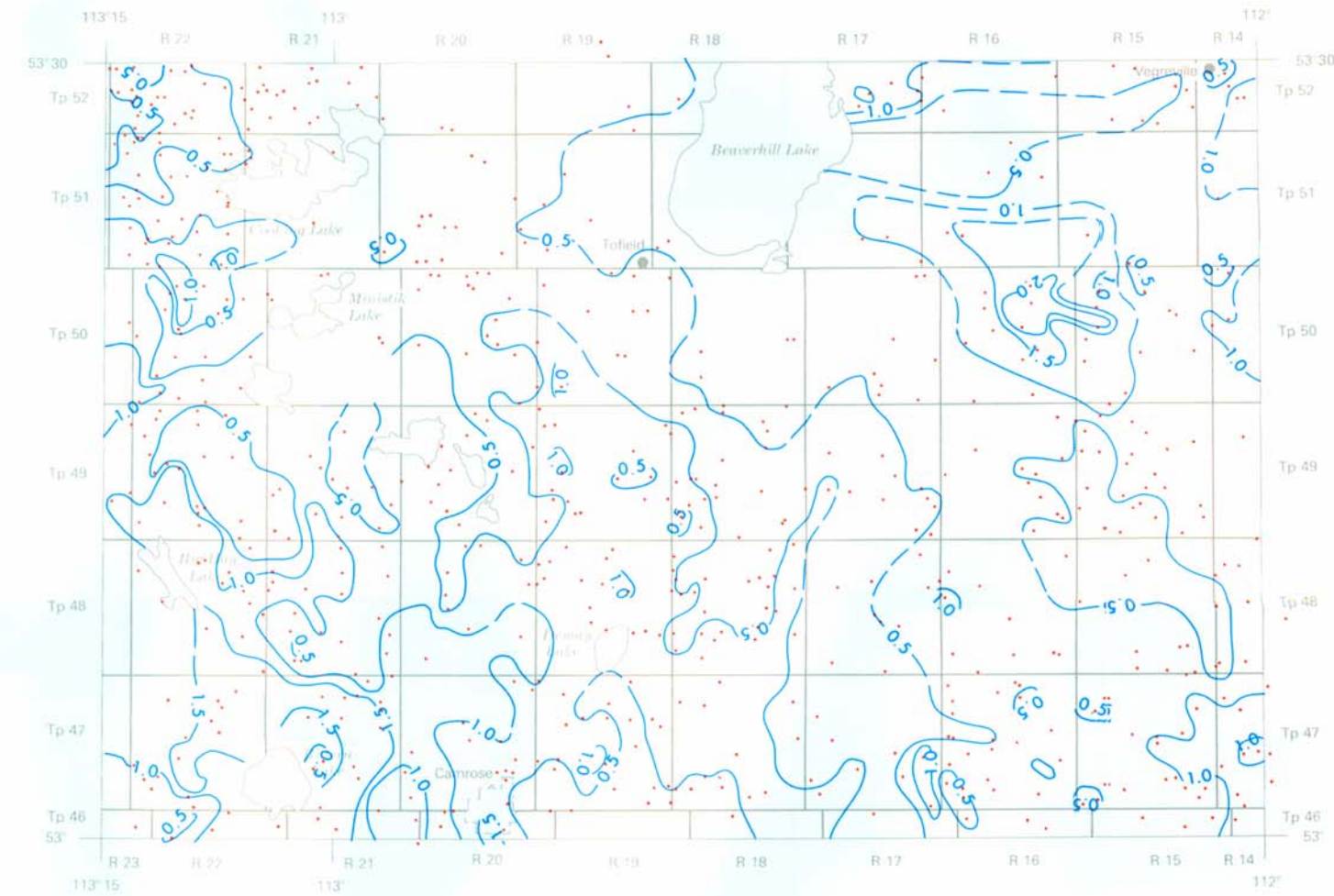
METEOROLOGY



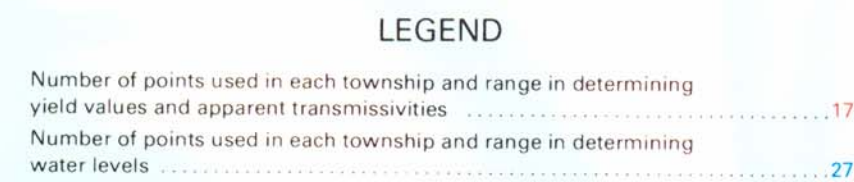
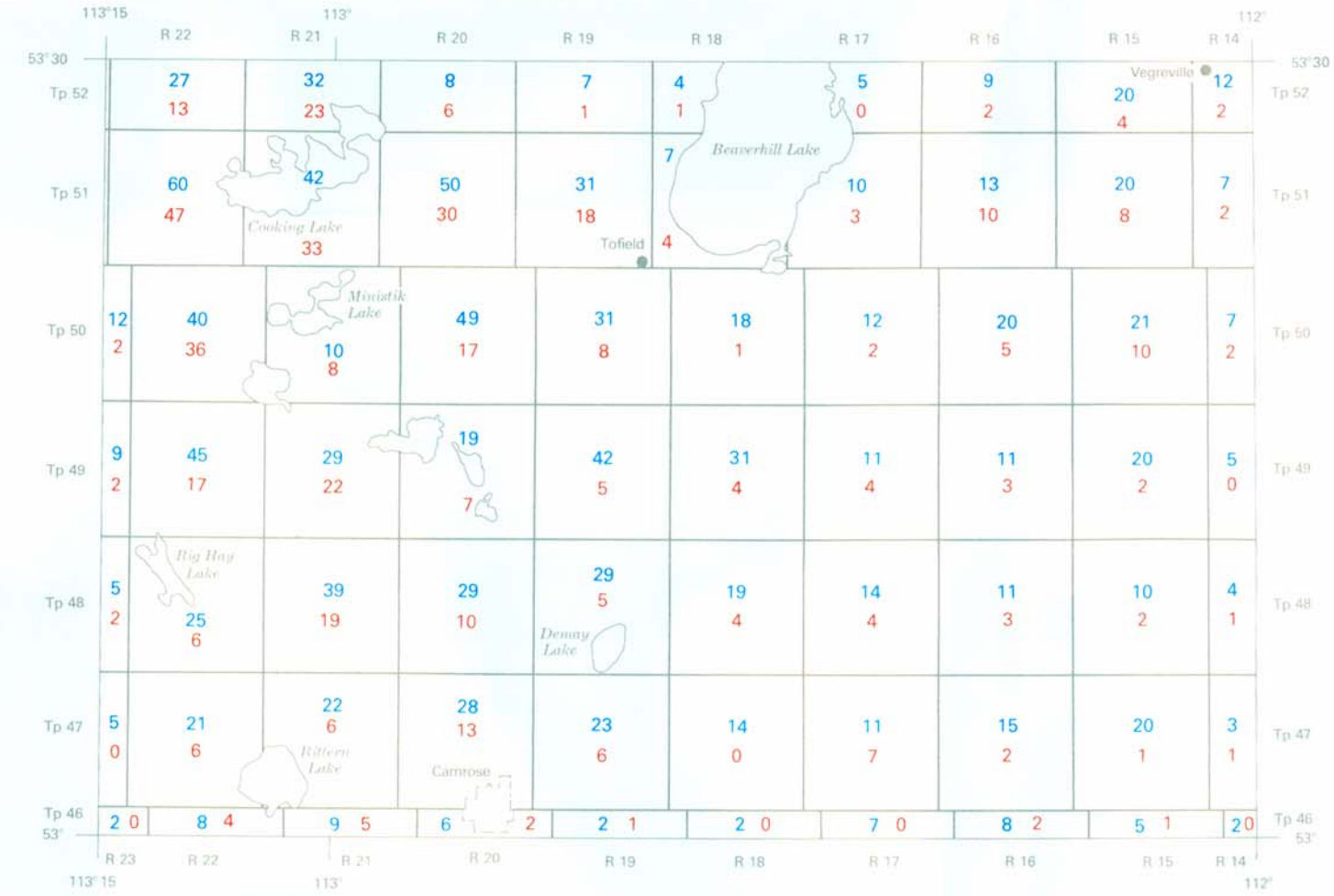
GEOLOGY



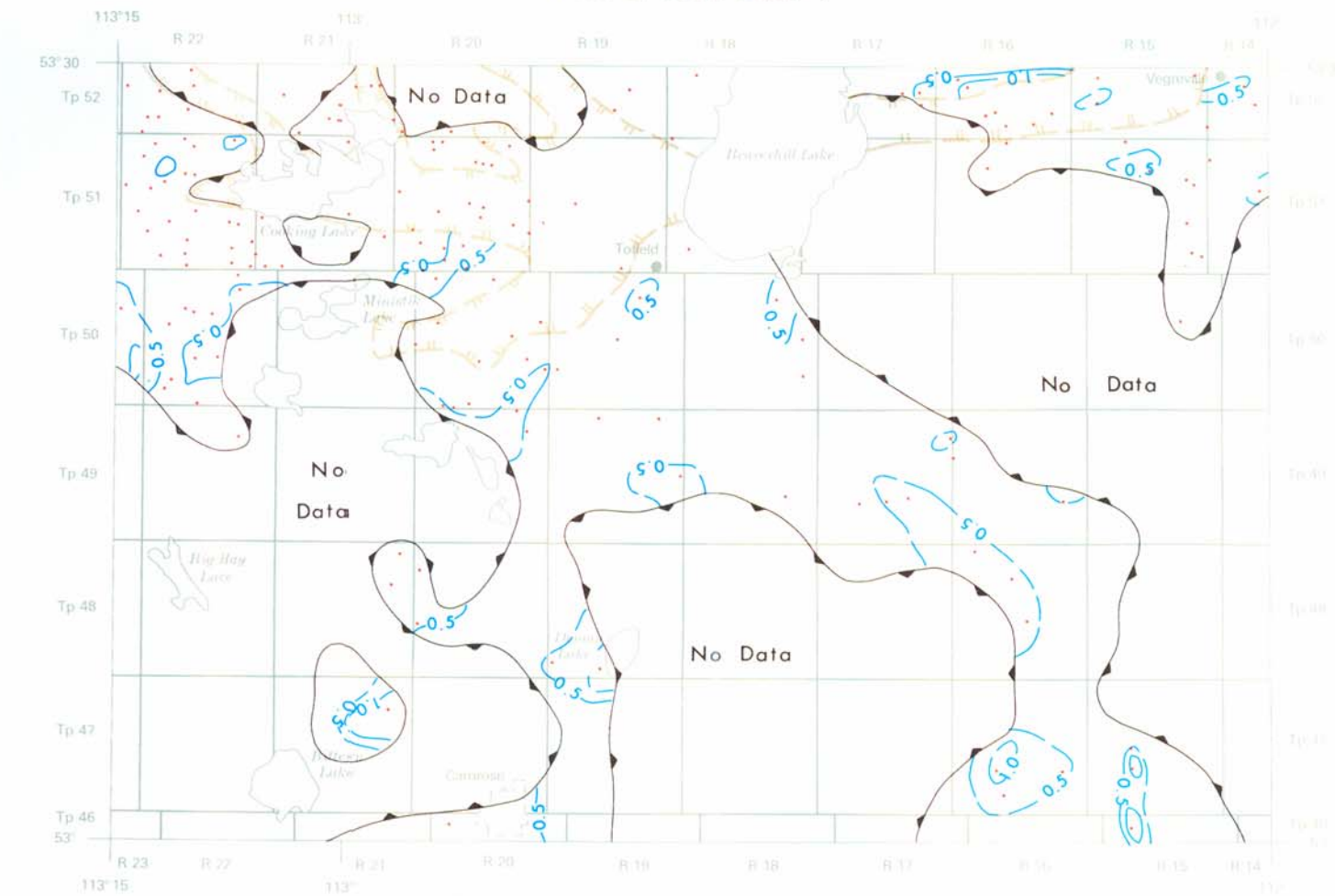
FLUORIDE: BEDROCK



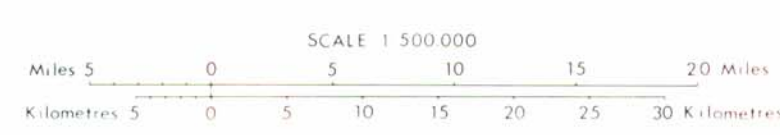
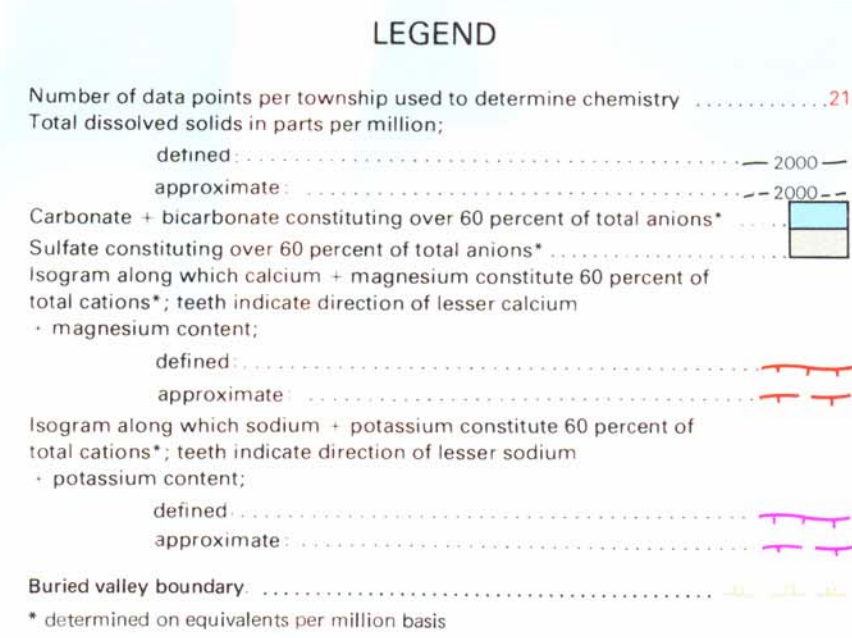
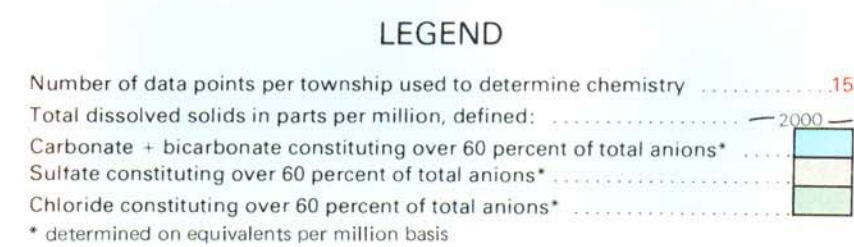
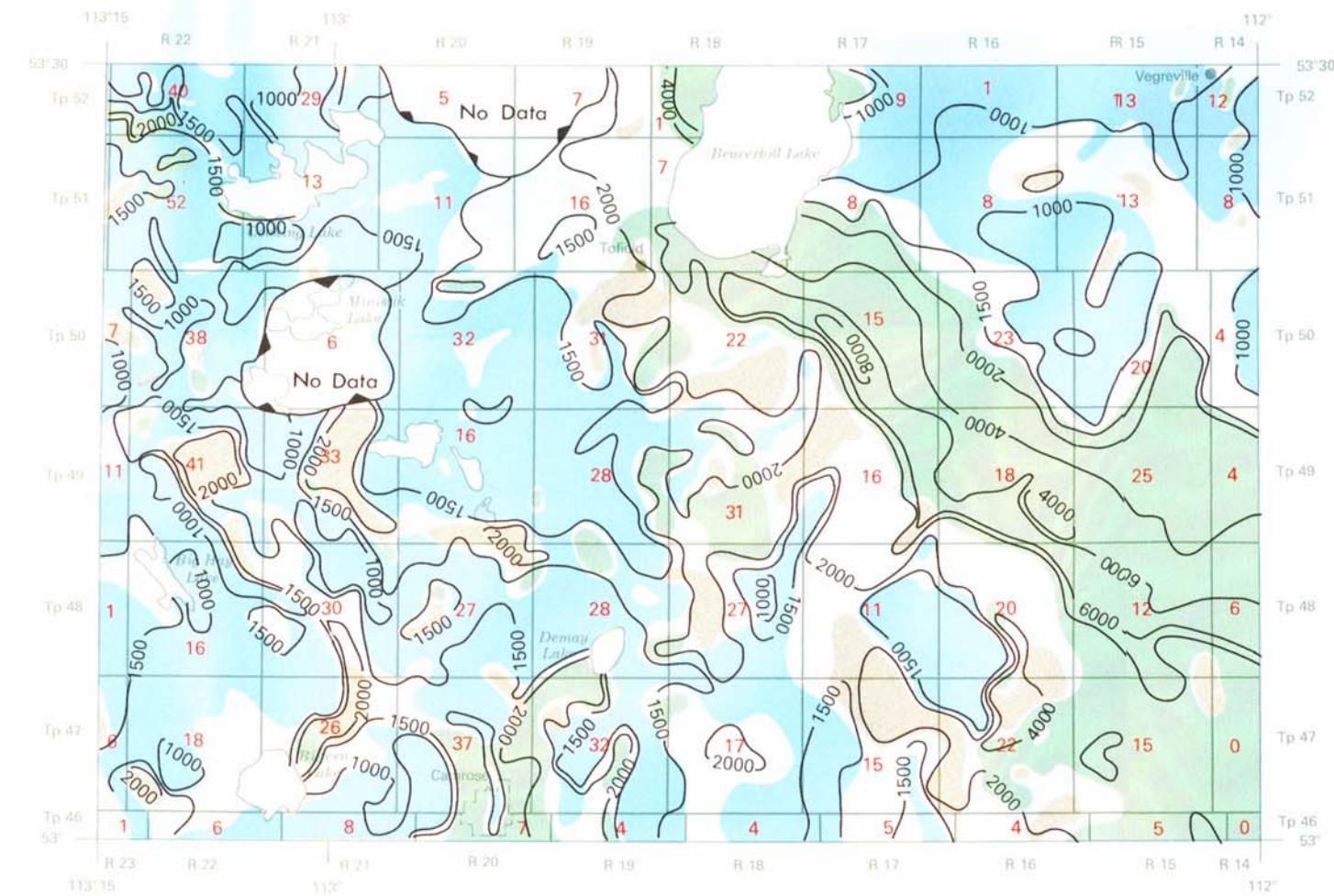
DATA DENSITY



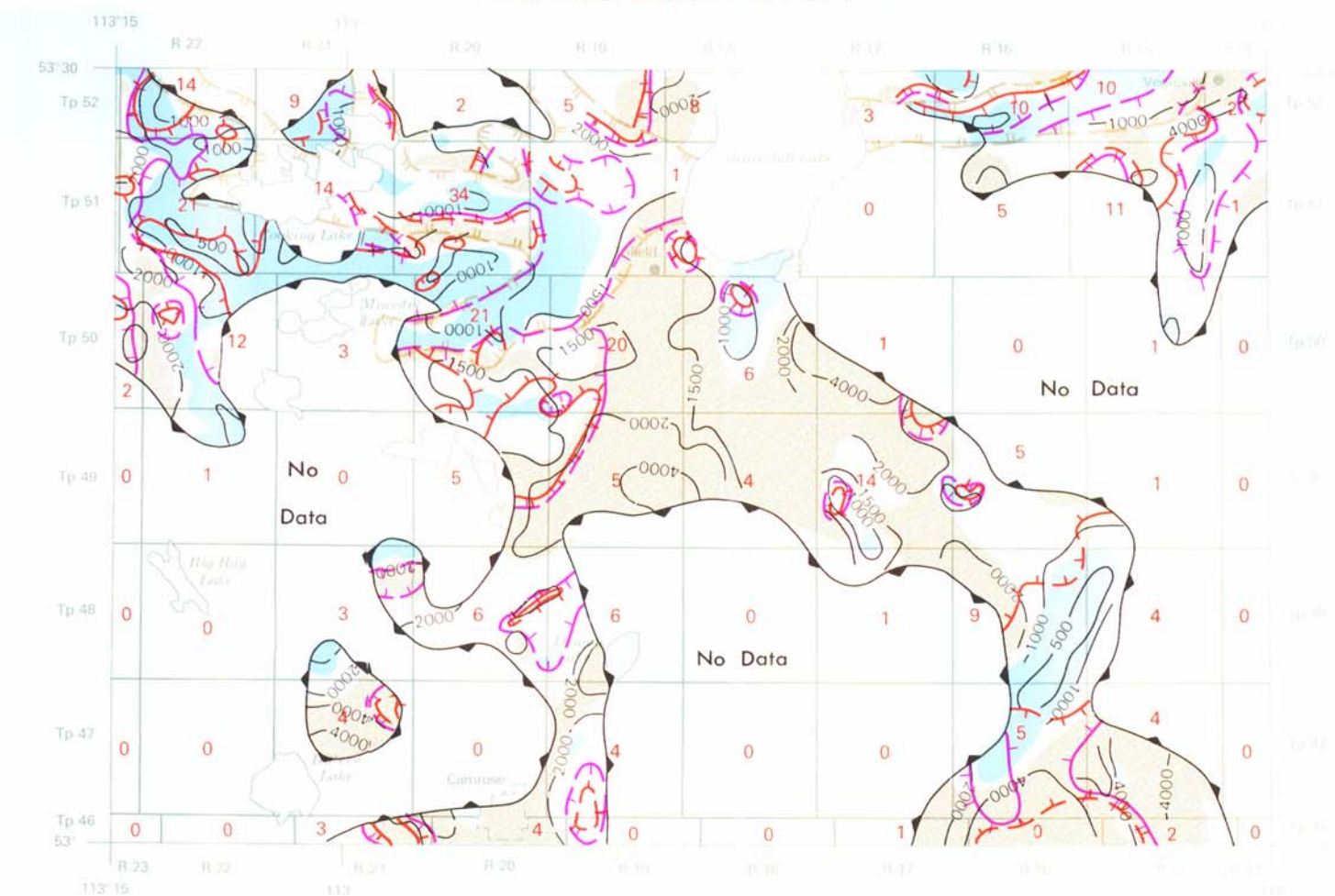
FLUORIDE: DRIFT



HYDROCHEMISTRY: BEDROCK



HYDROCHEMISTRY: DRIFT



HYDROGEOLOGICAL MAP  
EDMONTON AREA  
(Southeast Segment)  
ALBERTA  
NTS 83H-SE