

# Observation Well Information

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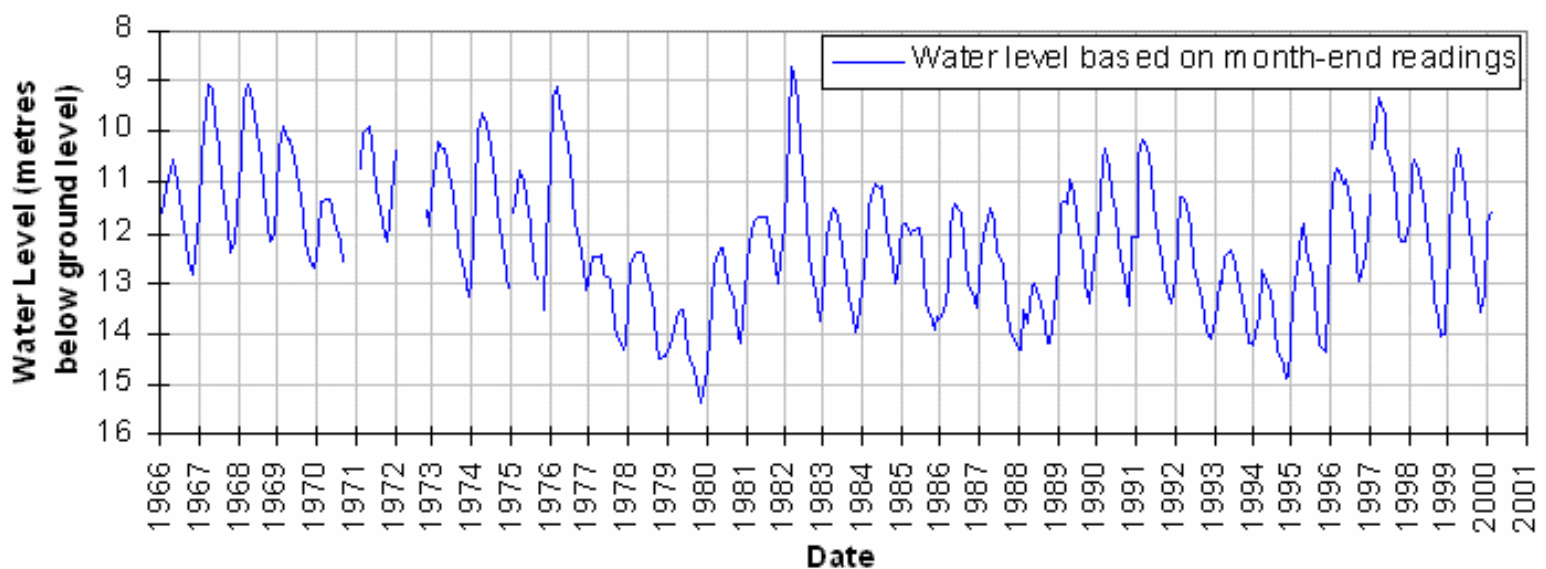
## Introduction

The Groundwater Section of the Ministry of Environment Lands and Parks operates a network of 150 observation wells to provide data on groundwater level fluctuations and groundwater quality information on developed aquifers in British Columbia. Observation well water levels are monitored using one of three methods: 1) manually with a wetted tape, 2) continuously using Steven's chart recorders or 3) electronically with data loggers.

Water level data from observation wells are collected on a monthly basis by field observers and forwarded to Regional Offices. Data are then checked for errors and omissions and forwarded to the Groundwater Section for final checking and storage. Water level data are referenced from ground level and the month end water level reading are entered and stored in Excel to produce a month-end hydrograph. The method of measurement and accuracy of each method are given below:

| Method of measurement                   | Accuracy  |
|---|-----------|
| <a href="#">Wetted Tape Method</a>      | +/- 1 mm  |
| <a href="#">Steven's Chart Recorder</a> | +/- 1 mm  |
| <a href="#">Data Logger</a>             | +/- 0.1 % |

**Hydrograph of Observation Well No. 2 Huntingdon Rd.  
Abbotsford, B.C.**



**NOTE\*** Detailed water level information for this well is available in [Excel Format](#).  
For more information, please email [Bill Hodge](mailto:bill.hodge@gems1.gov.bc.ca) (bill.hodge@gems1.gov.bc.ca)

# Wetted Tape Method

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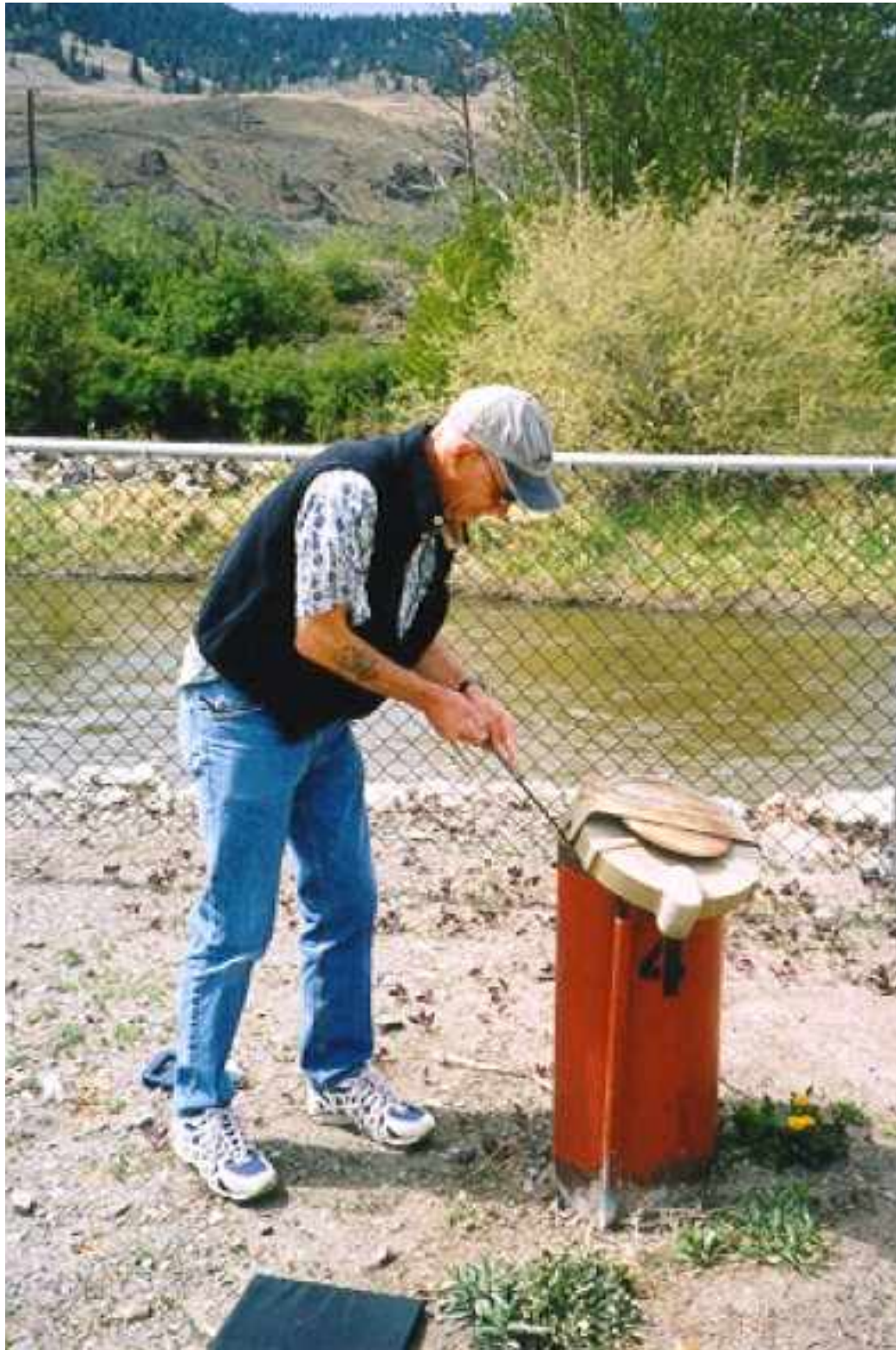
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Photograph of water level monitoring using the wetted tape method..





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## Steven's Chart Recorder

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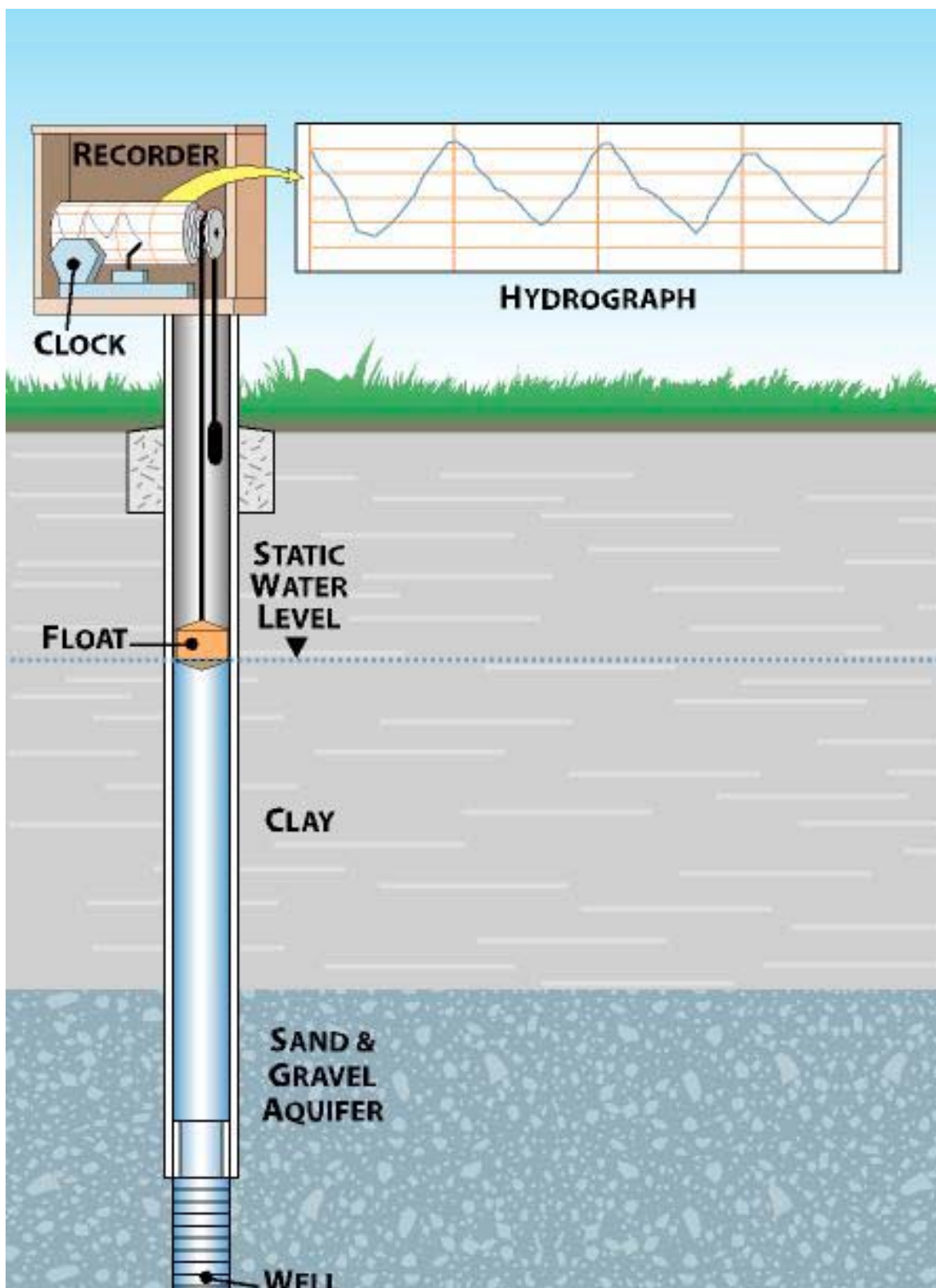
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Schematic of a typical Stevens Type F water level chart recorder.





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# Data Logger

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Photograph of a typical observation well equipped with a digital data logger and pressure transducer.



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