

Appendix 2 - Aquifer Test Forms

The pages in the rear pocket of this report are intended for photocopying. For this reason, there are no page numbers, headers, or footers that link them to the previous part of this report. Current copies of these forms are available from the Hawke' Bay Regional Council. The forms include:

Data pages for Constant Discharge Aquifer Test (2 sided)

Data pages for Step Drawdown Aquifer Test (2 sided)

Specific Capacity Test Summary

Checklist for Aquifer Test Reports (2 sided)

Constant Discharge Aquifer Test Summary Form(2 sided)

Step Drawdown Aquifer Test Summary Form(2 sided)

Aquifer Test Quality Assurance Rating (Reliability) (2 sided)

INSTRUCTIONS

Data pages for *Constant Discharge* Aquifer Test

General Instructions

1. Each well (pumping or observation) has its own unique sequence of data pages.
2. Record all information *in permanent ink*
3. *Do not obliterate any questionable information.* To delete information, such as a value you regard as erroneous, draw a very clean single line through the value and write the new value or information in the same box or nearby.

Specific Instruction

1. Unit definitions: l, litre; m, metre; min, minute; s, second
2. Observation well number Well number for the data recorded on the page
 - 2.1. A data record for a pumping well will record the same number in this space as in the next line for Pumping well number
 - 2.2. A data record for a non-pumping well will record its own well number here.
3. Pumping well number The well number for the well that is being pumped
4. Persons measuring Record last name and first 2 initials of those recording data at this observation well
5. Measuring point description Brief description, such as “top of casing” or “white paint on casing.” *Here and elsewhere, depths below datum are without sign or are negative (-), above datum are positive (+).*
6. Page of pages Record sequential page numbers as pages are completed; then add the total pages at test completion
7. Date It is sufficient to record the date at the start of the test and with the start of each new day’s date
8. Clock time Record the real time, as you see on your watch during the test at each measurement time
9. Time into test
 - 9.1. Record as minutes. If you record the first several measurements as seconds, clearly label the values in seconds (label with “s”) in the upper half of the box and later convert to minutes in the lower half of the box.
 - 9.2. Examples
 - 9.2.1. “-10” indicates a measurement at 10 minutes before the pump is scheduled to be turned on, may be used to establish Initial depth to water.
 - 9.2.2. “0” is the moment the pump is turned on
 - 9.2.3. “10” is ten minutes after the pump was turned on.
 - 9.3. Pumping Times recorded while the pump is pumping
 - 9.4. Recovery Times recorded after the pump was turned off; “0” minutes at the moment the pump is turned off
10. Uncorrected drawdown Determined from the following calculation: Depth to water - Initial depth to water.
11. Drawdown correction Any and all corrections to test drawdown data, such as corrections for antecedent trends during test duration in which water levels have risen or dropped, regardless of the test occurring.
12. Corrected drawdown Drawdown to be plotted for analysis, after corrections for antecedent trends, barometric efficiency, etc. Corrected drawdown = Uncorrected drawdown – Drawdown correction
13. Pumping rate Complete this column only for the pumping well data form
14. Person measuring Initials of person(s) making each measurement; record for every measurement or use ditto marks to indicate successive measurements by the same person(s).
15. Comments Record any information that may later explain an anomalous measurement, such as “pump stopped,” “odd, will remeasure,” or “train passed.”