

# ELECTRICAL TESTING COMPANY PTY. LTD.

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## TEST REPORT

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**REPORT NO: 20431 DATE of TEST:** 30 October 2008 **DATE of ISSUE:** 31 October 2008

**PAGE:** 1 of 2 Pages **REQUESTED BY:** Hornsby Shire Council.

**LOCATION:** John Purchase Field, Shepherd Drive, Cherrybrook, N.S.W.

**EQUIPMENT TESTED:** Electromagnetic field strength under extra high voltage (EHV) twin transmission line.

**PURPOSE OF TEST:** To establish the level of electromagnetic field strength of the ambient, directly below the lines, where it is proposed to increase the level by approximately one [1] metre as part of the playing field redevelopment.

**TEST METHODS :** The 50 Hz current based EMF was measured with a Dindima Group "Gauss Maus" directional and frequency selective gauss meter, capable of measuring between 0.1-9.9 and 1-99 milligauss ranges, disregarding all other frequencies at demand. The entire area beneath the EHV lines was checked at 2.0metres and 1.0metres above current ground levels. The load conditions of the line unknown. Instrument last calibrated November 2007

**TABULATED RESULTS OF TESTS:** All values in milligauss. Refer page 2 for locations.

| Electromagnetic Radiation Below EHV Line |          |          |
|--|----------|----------|
| LOCATION                                 | 2.0m agl | 1.0m agl |
| A  | 59       | 35       |
| B  | 65       | 44       |
| C  | 57       | 32       |
| D  | 76       | 56       |
| E  | 80       | 62       |
| F  | 69       | 52       |
| G  | 31       | 30       |

**COMMENTS ON RESULTS OF TESTS:** This Laboratory is not qualified to comment on the possible effect on the human body by electromagnetic radiation, however the limits set by "**Interim guidelines on limits of exposure to 50/60 Hz electric and magnetic fields (1989)**" issued by the National Health and Medical Research Council sets the safe limit at 0.1 milliTesla (equals 1000 milliGauss) for continuous safe exposure. At the time of writing this report the responsibility of this document has passed to the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) and is noted on their web site as current, however, also noted as under review.



David Holland

