

Question 16 (8 marks)

(This question relates to the diagram on page 10.)

The owner of Cudgegong Farm wishes to spray the *Horse paddock* with a non-selective herbicide, before sowing a winter crop in February.

- (a) Name TWO sensitive areas from the plan (one from an altitude higher than the *Horse paddock* and one from an altitude lower than the *Horse paddock*) that could be affected by the spraying activity.

Sensitive area at an altitude higher than the *Horse paddock*.

..... ~~ORGE~~ Organic Olives 1

Sensitive area at an altitude lower than the *Horse paddock*.

..... CREEK - waterway leading to cr from Dam 1

- (b) For each area nominated in part (a), describe how the chemical could move to that area. 2

..... Wind could be the method which moves
 chemical residues to these two areas. Although
 there is a wind break between the *Horse paddock* +
 Organic olives, this might not be enough to control drift.
 The slope may cause chemical run off from *horse paddock*
 down to the creek if it rains soon after application.

- (c) Describe TWO potential effects of chemical movement into the sensitive areas you have nominated. 2

..... Chemical movement into Organic Olives would reduce
 value significantly to Olives as organic farming does not
 allow ~~at~~ the use of any artificial chemicals.

- (d) For one of the sensitive areas you have nominated, identify and analyse ONE control measure that will minimise the risk of the chemical impacting on that area. harm² non target specie when water irrigated

..... Movement of chemicals into creek or waterway could cause
 Contamination harming environment of water way as well as
 the water contaminating irrigation water, when used chemical may
 Chemical impacting the organic olives could
 be minimised by ensuring a well
 structural buffer zone is created around organics
 ensuring chemical drift wont harm produce.

..... There is a wind break in place, although
~~there~~ this may not be sufficient in minimising
 chemical movement.