

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
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	22274
Project Title	
Electricity's Effect on Algae	
Abstract	
This experiment was conducted to determine the effects the present	ce of an electromagnetic field has on
algae. These effects relate to the real environment in situations wh	ere the presence of humans (such as in
Methods/Materials	
An electromagnetic field was created using plant light bulbs and el	ectrical wire. Three identical sampl
carried the force of the electromagnetic field to the samples. The n	number of coils around each tube
created increasing amounts of exposure. Sample #2 was exposed	he least with 1 coil, sample #3 had 3
an isolated environment. After two hours of exposure the samples	of algae were observed to determine
the effects of their exposure to an electromagnetic field.	
While the isolated sample of algae maintained its original status,	e exposed samples were damaged by
the presence of an electromagnetic field. The temperature rose in e	each sample, cells were destroyed, an
Conclusions/Discussion	
The electromagnetic field damaged the algoe according to its amou	field can have an algoe
significant amount of damage that even a minimal electromagnetic	field can have on algae.
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Summary Statement	
This project examines the effects of an electromagnetic field on alg	gae.
Help Received	