

CALIFORNIA STATE SCIENCE FAIR 2017 PROJECT SUMMARY

| Name(s) | Project Number |
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| Maxwell P. Gross | J0905 |
| Project Title | |
| Abstract | |
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| There were four repetitions each, where the soil was mixe and with plain, loose soil (control) completed. I shook a tu weighted plastic container as a structure on the soil and a | d with sand, mixed with gravel, packed down, b with the soil or soil mixture on a track. I put a ping-pong ball, representing a sewer, in the soil. |
| Results Of the three mitigations, packing the soil down had the be soil sank the least, which was an average of 2.4 cm, and th which was an average of 2.5 cm. The control structure san rose an average of 3.9 cm. | st results. I found that the structure on top of the le ping-pong ball within the soil rose the least, lk an average of 4.5 cm and the ping-pong ball |
| From this I can conclude that people in a high-risk liquefa utilities on or in packed soil instead of loose soil, gravel-, | ction zone should build their structures and or sand-rich soil. |
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| Summary Statement | |
| Finding the best way to reduce the effects of liquefaction | by testing different modifications to the soil. |
| Help Received | asta murahagad any matarials assessment and |
| taught me about liquefaction. | esis, purchased any materials necessary, and |