Appendix A – Research Table

CCDP 2100U Winter 2018

Team 2

|  |  |  |  |
| --- | --- | --- | --- |
| Team Member | Research Question | Component | Principle |
| Paxton Reid | Ways to accommodate for the effects of the floodwater on soil | Geotechnical Engineering (soils) | Darcy's Law |
| Sian smith | How to use hydraulics to lift the house | Civil Engineering  (hydraulics) | Pascal's Law |
| Thomas Da Silva | How to keep the structure of the house intact while the hydraulics are moving it | Civil Engineering (Structures) | Newton's Second Law |
| Fareen Lavji | How to use the flood water to run the hydraulics | Fluid Mechanics | Bernoulli's Principle  Venturi Effect |
| Chris Canton | Flood Detection Mechanism | Electrical Engineering | ohm's law  Archimedes' principle |