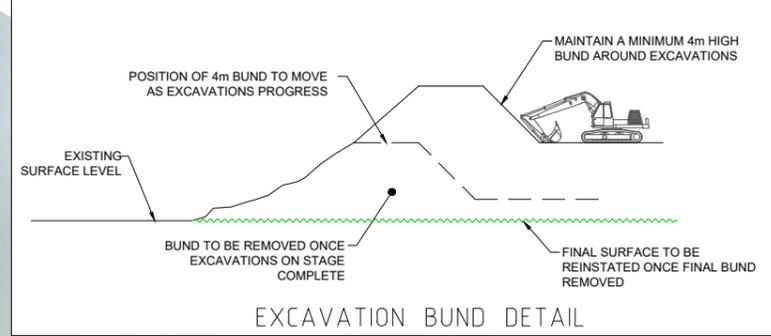
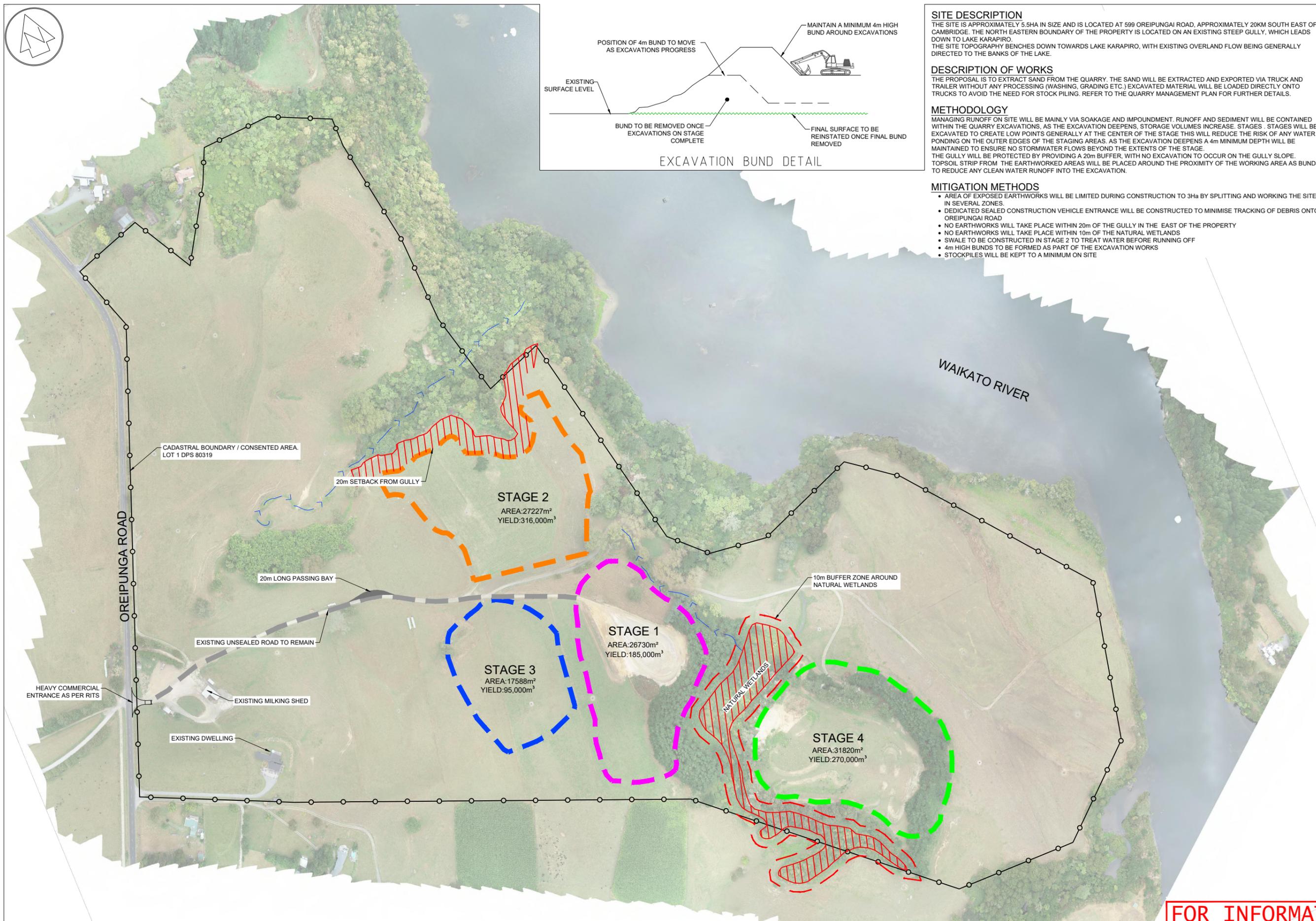




APPENDIX B

Site Plan



SITE DESCRIPTION
THE SITE IS APPROXIMATELY 5.5HA IN SIZE AND IS LOCATED AT 599 OREIPUNGA ROAD, APPROXIMATELY 20KM SOUTH EAST OF CAMBRIDGE. THE NORTH EASTERN BOUNDARY OF THE PROPERTY IS LOCATED ON AN EXISTING STEEP GULLY, WHICH LEADS DOWN TO LAKE KARAPIRO. THE SITE TOPOGRAPHY BENCHES DOWN TOWARDS LAKE KARAPIRO, WITH EXISTING OVERLAND FLOW BEING GENERALLY DIRECTED TO THE BANKS OF THE LAKE.

DESCRIPTION OF WORKS
THE PROPOSAL IS TO EXTRACT SAND FROM THE QUARRY. THE SAND WILL BE EXTRACTED AND EXPORTED VIA TRUCK AND TRAILER WITHOUT ANY PROCESSING (WASHING, GRADING ETC.) EXCAVATED MATERIAL WILL BE LOADED DIRECTLY ONTO TRUCKS TO AVOID THE NEED FOR STOCK PILING. REFER TO THE QUARRY MANAGEMENT PLAN FOR FURTHER DETAILS.

METHODOLOGY
MANAGING RUNOFF ON SITE WILL BE MAINLY VIA SOAKAGE AND IMPOUNDMENT. RUNOFF AND SEDIMENT WILL BE CONTAINED WITHIN THE QUARRY EXCAVATIONS, AS THE EXCAVATION DEEPENS, STORAGE VOLUMES INCREASE. STAGES WILL BE EXCAVATED TO CREATE LOW POINTS GENERALLY AT THE CENTER OF THE STAGE THIS WILL REDUCE THE RISK OF ANY WATER PONDING ON THE OUTER EDGES OF THE STAGING AREAS. AS THE EXCAVATION DEEPENS A 4m MINIMUM DEPTH WILL BE MAINTAINED TO ENSURE NO STORMWATER FLOWS BEYOND THE EXTENTS OF THE STAGE. THE GULLY WILL BE PROTECTED BY PROVIDING A 20m BUFFER, WITH NO EXCAVATION TO OCCUR ON THE GULLY SLOPE. TOPSOIL STRIP FROM THE EARTHWORKED AREAS WILL BE PLACED AROUND THE PROXIMITY OF THE WORKING AREA AS BUNDS TO REDUCE ANY CLEAN WATER RUNOFF INTO THE EXCAVATION.

MITIGATION METHODS

- AREA OF EXPOSED EARTHWORKS WILL BE LIMITED DURING CONSTRUCTION TO 3ha BY SPLITTING AND WORKING THE SITE IN SEVERAL ZONES.
- DEDICATED SEALED CONSTRUCTION VEHICLE ENTRANCE WILL BE CONSTRUCTED TO MINIMISE TRACKING OF DEBRIS ONTO OREIPUNGA ROAD
- NO EARTHWORKS WILL TAKE PLACE WITHIN 20m OF THE GULLY IN THE EAST OF THE PROPERTY
- NO EARTHWORKS WILL TAKE PLACE WITHIN 10m OF THE NATURAL WETLANDS
- SWALE TO BE CONSTRUCTED IN STAGE 2 TO TREAT WATER BEFORE RUNNING OFF
- 4m HIGH BUNDS TO BE FORMED AS PART OF THE EXCAVATION WORKS
- STOCKPILES WILL BE KEPT TO A MINIMUM ON SITE

FOR INFORMATION