



Safety Alert

Critical Risk: CR03 - Contact with Electricity		Event Title: Low Voltage Power Cable Strike during directional drilling operations	Location: Tuai Main Road
Potential Consequence Major		Actual Consequence Insignificant	
What happened?		Prompts/Questions for your team:	
<p>Horizontal Directional Drilling (HDD) works to install 4 x 32mm PE ducts along Tuai Main Road near 18 Tuai Main Road were being done on 12 May 26. Prior to drilling activities, all known underground services had been marked out by certified utility locators in accordance with the BeforeUdig service plans. Existing services were physically verified through potholing at critical crossing points.</p> <p>Prior to the HDD bore work, the drilling machine's safety feature - Electrical Strike Identification Device (ESID) was checked and operational as per their Standard Operating Procedures (SOP).</p> <p>Following completion of works and site demobilisation, power outages were later advised to the team. On further inspection it was identified that a 400V cable which was not identified on any as built plans was damaged in two locations during the pull back of the ducts.</p> <p>There were no injuries, and power was restored to the impacted sites within 36 hours.</p> <p>A broader review of the work methodology and controls is taking place before work is recommenced.</p>		<p>Have all known underground services been identified before drilling, utilising all available Utility, Council, Genesis and BeforeUdig services?</p> <p>Are the indicated depths of the service accurate?</p> <p>Have the Electrical Strike Identification Device ESID safety features available on directional drilling machines been checked? This should be part of the daily SOP.</p> <p>Have you considered any unknown or unverified underground services in the area?</p> <p>What additional controls do you need to add to mitigate these risks? Pot holing along the drill route?</p> <p>What other techniques, e.g. excavation, offer a safer alternative solution?</p>	
Contact Person:		As-built service markup showing HDD drill alignment, identified underground services, and confirmed LV cable strike location near 18 Tuai Main Road.	