LOCATE & PROTECT UNDERGROUND POWER CABLE

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| **PCBU Address:** Lot 3, Redlynch Connector Road, Redlynch 4870**Job Title:** **Site Address:**  | **Date:** **Page:** 1 of 3 **SWMS No:** 21 | **New****Revised** |
| **Principal:**  | **Supervisor:** Ian Loccisano | **Approved by:** Ian Loccisano |
| **Required Personal Protective Equipment:** Safety boots, safety vest, wooden/ plastic handle tools |
| **TASK** | **POTENTIAL HAZARDS** | **ACTION OR PROCEDURE** | **RESPONSIBILITY** |
| Location of underground power cabling | Failure to detect all cabling | Consult & refer to service provider drawings (current for four weeks) | Locator/supervisor |
| Visual survey of area to locate cables running down poles, junction boxes and transformers | Locator |
| Visual survey of area to locate sunken trenches and patched road crossings | Locator |
| Damage to locator or electrocution | Do not direct couple around live LV power with metroclamp unless accompanied by an electrician. For HV, passive location must be used | Locator |
| Be aware cables to street lighting may be live with timer/sensor in light head | Locator |
| Failure to electronically locate accurately | Be aware that overhead power cables may cause false readings | Locator |
| Failure to electronically locate all cabling | On completion of electronic location of all known cables, conduct a blind sweep in passive mode in a grid pattern | Locator |
| **TASK** | **POTENTIAL HAZARDS** | **ACTION OR PROCEDURE** | **RESPONSIBILITY** |
| Potholing | Damage to cabling/electrocution | Be aware that cabling could be direct buried. Have service provider present | Crew via supervisor |
| Dig by shovel to marker tape/slats | Crew |
| Use wooden/plastic handle shovel to dig past tape/slats or use vacuum truck | Crew |
| Dig across the cable to pothole | Crew |
| Falling into pothole | Barricade or backfill pothole with sand until required | Crew |
| Potholing frequency & methodology | Within 2.5m of nominal location | Pothole to prove exact location | Crew |
| Excavating parallel to cables | Pothole every 4.0m. If depth exceeds cable depth & likelihood of cable disturbance advise supplier | Crew via supervisor |
| Excavating across cables | Minimum of 500mm clearance above & below cables to be maintained. If width of excavation is such that cables are exposed and unsupported, contact supplier | Crew via supervisor |
| Heavy machinery operating over cables | Minimum of 450mm of load bearing cover required | Crew |
| Directional boring near cables | Excavate trench 1.0m from side of cables where the borer will approach to ensure 500mm clearance is maintained | Crew |

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| **TASK** | **POTENTIAL HAZARDS** | **ACTION OR PROCEDURE** | **RESPONSIBILITY** |
| Marking of locations | Failure to relocate | Mark with pegs flagged with red tape or paint. Workers to be shown cable locations. Mark on plan if required | Locator |
| All related activities | All hazards | Daily periodical monitoring of activity | Supervisor |

Risk assessment based on all procedures being in place

**Risk Assessment Matrix**



**Likelihood:** Very unlikely **Consequences:** Minor **Risk score:** 7