

	Work Instruction	W0025
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Work instruction:	Date Raised
Moling (Water mains replacement)	10.11.14

Work Description
Step by step procedure for Moling a new water main.
Instruction
<p><u>Moling</u></p> <ol style="list-style-type: none"> 1. Refer to W0001 & W0002 2. Auger engineer will undertake a visual assessment of the area and the route where the Moling pits are to be excavated. 3. The route that the mole will take must then be assessed for any services and CAT scanned. 4. If these works are proposed in an area under NRSWA; any utilities plans must be obtained and reviewed where necessary. 5. If services are to be crossed at any stage along that the route that the mole will take, these should be exposed via hand excavation prior to running the mole. 6. The moling process requires a launch and reception pit that should be excavated either at a position along the existing supply to allow the reconnection of the existing service to the new Blue MDPE supply pipe that is to be moled in to bypass the leak. 7. All equipment, machinery, and hoses will be checked prior to any use. 8. The mole is driven pneumatically by the Winton Compressor within the company vehicle. This pushes itself through the ground when the equipment is engaged and bores a track through the earth. The air-hose is pulled through behind this. 9. The mole is then detached from the air-hose. The cutting nipple (carrot) is attached to the air-hose and is used to drag the new water supply pipe back through the previous track made by the mole. 10. Once the new pipe is laid the pipe can then be re-connected to the existing section of the water supply using the correct fittings. 11. Should these works be undertaken during a full replacement? The pipework will be reconnected at the External Stop Valve(ESV) or through the Point of Entry (POE) and to the Internal Stop Valve(ISV) 12. The new pipework installed must be re-pressurised and checked; ensuring that there are no more leaks before leaving site. 13. Excavations are to be backfilled and reinstated in accordance with Work instruction.
Responsibilities
Water Mains engineers & assistant engineers
Key Objectives
To repair damaged leaking water mains and restore water supply back to the homeowner.