



Project Ref: **SEN10489**
 Project Year: **2008/9**
 District: **ALD**
 Issued:
 Address: Winchester Road, Whitchurch, Hampshire, RG28 7HP Drawing of

Proposed Mains

Abandonment
 - - - -

Proposed Mains				Abandonment Mains				Finance Codes	
Diam.	Mat.	Pres.	Length	Diam.	Mat.	Pres.	Length		
180	PE	MP	167	8	SI	MP	170		

For SGN Internal Use Only. Network ID Number: 0222



SCALE : 1 : 1250	LP MAINS	
USER ID : dd55599	MP MAINS	
DATE : 08/01/2008	IP MAINS	
INTERNAL USE ONLY	LHP MAINS	
GRID REFERENCE : E446310, N147424, SU4647	HISTORY DATA	
	LAs	
	GTs	
	SSSIs	

Some examples of Plant Items:
 Valve Syphon Depth of Cover Diameter Change Material Change

This plan shows the location of those pipes owned by Scotia Gas Networks plc ("SGN") by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs, or third parties, may also be present in this area and are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with H5(G47), must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Intranet MAPS Version 1.8
 Hampshire County Area
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Skin Remove contaminated clothing. Wash with soap/cleanser and rinse with plenty of water. If irritation persists, obtain medical attention.

Ingestion Do not induce vomiting. Give plenty of water to drink. Beware of aspiration if vomiting occurs. If feeling unwell seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Suitable extinguishers Non combustible material-use extinguishers suitable for any other materials that may be involved in a fire.

Unsuitable extinguishers Not applicable

**Hazardous decomposition/
special procedures** Not applicable

6. ACCIDENTAL RELEASE MEASURES

Exposure controls Do not allow spill to enter drains and watercourses. Clean up as part of good housekeeping practice.

Personal protection Wear respirator fitted with particulate filter (P2 or FFP2) and use eye protection such as goggles to BS EN 166 Dust Grade if dust generated. Avoid skin contact and wear impervious gloves (i.e. rubber gloves).

Disposal considerations Do not dry sweep, either damp down or use a vacuum system to clear. Scoop up and place in container to await transfer. Dispose of in accordance with local authority regulations.

7. HANDLING & STORAGE

Handling Avoid skin contact. Avoid eye contact. Handle with care to avoid dust formation. Ensure adequate ventilation. Use local extraction equipment where possible. Wear suitable protective clothing (see section 8).

Storage Store in cool, dry, well ventilated area. Store away from oxidising materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure
Limit** 0.3mg³ 8hrTWA MEL respirable silica
4mg/m³ 8hrTWA OEL total respirable dust
10mg/m³ 8hrTWA OEL total inhalable dust

Wear impervious gloves (i.e. rubber gloves).

Wear suitable overalls or clothing and change if contaminated.

Wear suitable eye protection such as BS EN 166 if dusty.

Use in well ventilated areas.

Use mechanical ventilation if possible.

If excessive inhalation is likely then use a respirator fitted with particulate filter to P2 or FFP2 standard.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Grey free flowing powder and granules
Odour	None
pH	9-10
Boiling point/range	N/A
Melting point/range	N/A
Flash point	N/A
Flammability	Non Flammable
Autoflammability	N/A
Explosive properties	None
Oxidising properties	None
Vapour pressure	Negligible
Relative density	2.7
Solubility	Insoluble in water. Has a high swelling capacity in water.
Vapour Density	N/A
Other Information	Wet Bentonite on floors presents a high slipping hazard

10. STABILITY AND REACTIVITY

Stable at normal temperatures.
No hazardous decomposition products when stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

Routes of exposure to dust: inhalation, ingestion and eye/skin contact.
Mild, transient irritation to eyes, skin and respiratory tract.
Chronic effects: may cause silicosis.

12. ECOLOGICAL INFORMATION

Non toxic to aquatic life.
Persistent in the environment.
Bio accumulative potential: does not bio accumulate
Mobility: immobile

13. DISPOSAL CONSIDERATIONS

Do not discharge into drains or watercourses.
Dispose of in accordance with local authority regulations.
Not classified as hazardous for transportation.

14. TRANSPORT INFORMATION

Not classified as hazardous for transportation.

15. REGULATORY INFORMATION

Risk & Safety	Not classified as hazardous under the CHIP Regulations 2002. Not classified as hazardous according to EC/2001/59, EEC/67/548
Other Regulations	Health & Safety At work etc. Act 1974 Control of Substances Hazardous to Health Regulations 1999 Environmental Protection Act 1990 EC Safety Data Sheet Directive EC/91/55

16. OTHER INFORMATION

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by SBAL. However, SBAL makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/COSHH assessment prior to using this material.

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METHOD STATEMENT HORIZONTAL DIRECTIONAL DRILLING

1. Transportation of the Drilling Equipment

The Directional Drilling machine and equipment is transported by a 26 ton HGV and will need to be situated on site to carry out pipe installation.

2. Unloading

When on site the Drilling Machine is driven off the rear of the HGV and will need to be situated within 75 metres of the HGV due to the water supply from the mud mixing system situated in the lorry.

3. Launch Pits

Ditch Witch Drill Machines can be launched from surface level, although in most cases a Launch pit is excavated prior to arrival to allow the Drill Head to be launched at the correct depth.

4. Positioning

The Drill Machine is positioned 1 ½ metres behind the Launch Pit and the manoeuvred into the correct position to commence drilling.

5. Depth and Location of Drill Head

The Drill Head is attached to the first drill rod, which houses the radio beacon. This device allows the depth and location of the drill head to be monitored at all times from surface level with the aid of the radio beacon locator.



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6. Pilot Hole

A pilot hole is drilled from the launch pit to the reception pit by connecting 3 metre length rods to each other during the drilling process. The drill head is then located and depthed at 3 metre intervals allowing steering and depth adjustment to be carried out to the customers' requirements. Drilling fluid is pumped to the drill head cooling and lubricating the radio beacon and drill rods.

7. Back Reaming

When the pilot hole has been drilled the drill head will be accessible in the reception pit. This is then removed and a back reamer is attached to the drill string. The back reamer size depends on the size of the pipe to be installed.

8. Pre-Reaming

Additional pre-reaming may be required depending on the size of the pipe to be installed and the ground conditions. This procedure is carried out by connecting drill rods to the back reamer. When the back reamer has been pulled back to the launch pit it is removed and reattached to the drill string in the reception pit, the pipe is then connected and pullback commences.

9. Pipe Connection

A Towing Head is inserted into the pipe and tightened which is then connected to the back reamer via a rotating swivel this allows the drill string and reamer to rotate cutting the tunnel for the pipe to follow behind without the pipe rotating.

10. Polymer Drilling Fluid

Sticky clay and swelling clay conditions may require a polymer mixture to be added, this is mixed with water and pumped to the back reamer via the drill string. This fluid eliminates balling of clay therefore minimising the stress on the pipe being installed.

11. Boregel Drilling Fluid

Sand, gravel or coarse ground conditions may require boregel mixture to be pumped to the back reamer. This fluid stops the ground collapsing onto the pipe preventing stress on the pipe being installed.

12. Completion of the Bore

When the back reaming process is finished and the pipe has been installed, the drill machine is driven back into the HGV and moved to the next location.

All Launch and Reception pits plus the location of all underground services are the responsibility of the customer.