

# Line Walking

May 2017

Classification: Internal



**SGN**

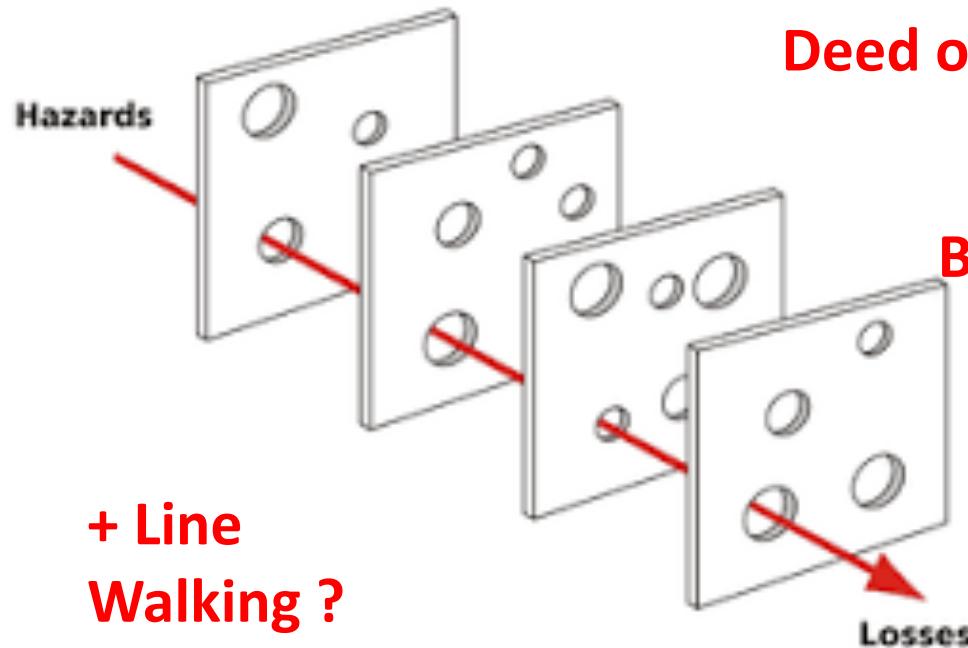
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# Line Walking as a Risk Reduction Measure

1. Line walking not undertaken in SGN over last 10 years and currently introducing on a risk based approach.
2. Line walking benefits include opportunity to avoid incidents.
3. Part of a package of measures that serve this purpose including
  - Aerial Survey
  - Land Owner Liaison
  - Land Use Planning
  - Marker Posts
  - Deed of Servitude/Wayleave

# Line Walking as a Risk Reduction Measure

No measure is 100% effective so Swiss Cheese/Layers of Protection principle applies.



# Recent SEARs/RIDDOR report

1. SGN Aerial Sighting on “Major Earth Moving Works In Progress” reported near the end of the working day.
2. Work had commenced only 10 days prior to damage
3. Pipeline damaged early the next morning.  
**(Within Aerial Survey Cycles)**
4. Major Works (not previously notified) underway to build 4 hole golf course in “private garden”  
**(No Land Use Planning)**

# Title Deed extract showing Pipeline

1. Land holding was part of a larger estate which became subdivided.
2. New land owner unaware of short section of pipeline.
3. Was on Title Deed but not highlighted by lawyer. **Deed of Servitude/Wayleave and land owner liaison not effective**



55m of  
pipeline

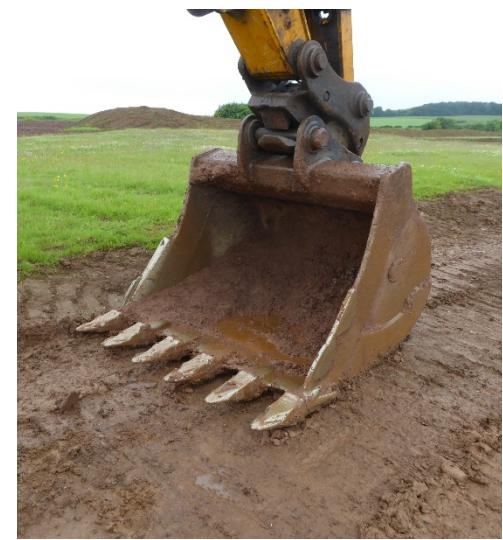
# Work on Golf Course



# As Found on Site by SGN



# Equipment in use on Site



# Initial assessment and Pressure reduction

1. Pressure lowered 19 - 16bar.
2. P11 assessment on main damage including MPI (Initially categorized as Extreme Damage)
3. Further pressure reduction 16 -11bar and temporary repair shell fitted.
4. 14 further areas of damage (All superficial).
5. Further detailed assessment of main damage then categorised as severe

# P11 Measurement and Assessment





Dent:



Peak depth: 15.44mm

Gouge:



Peak depth: 1.5mm

Length: 48mm

Notes: Photographs and damage dimensions provided by SGN

Damage located at 09:00 around pipe circumference, 12:00 is the top of the pipe



# Repair and Return to Normal Operation

1. Initially temporary shell fitted.
2. Permanent epoxy grouted repair shell fitted.
3. Pressure returned to 19 Bar
4. Coating and wrapping completed



# Line Walking as a Risk Reduction Measure ?

- Aerial Survey
- Land Owner Liaison
- Land Use Planning
- Marker Posts
- Deed of Servitude/Wayleave
- **+ Line Walking**