

UKOPA Third Party Infringement Database

Database Report for 2006

Introduction

- Until ~ 2002, UKOPA members investigated third party near miss and damage incidents on their buried pipeline assets on an individual basis
- Whilst investigations were conducted in this manner, any resulting improvement processes lacked co-ordination and national coherence
- The UKOPA database was launched to enable members to share infringement details and trends, allowing the Association to develop effective improvement plans
- The database functions effectively as a 'national register' of infringements and those who infringe
- This report provides an insight into the structure and outputs of the UKOPA database at the end of 2006

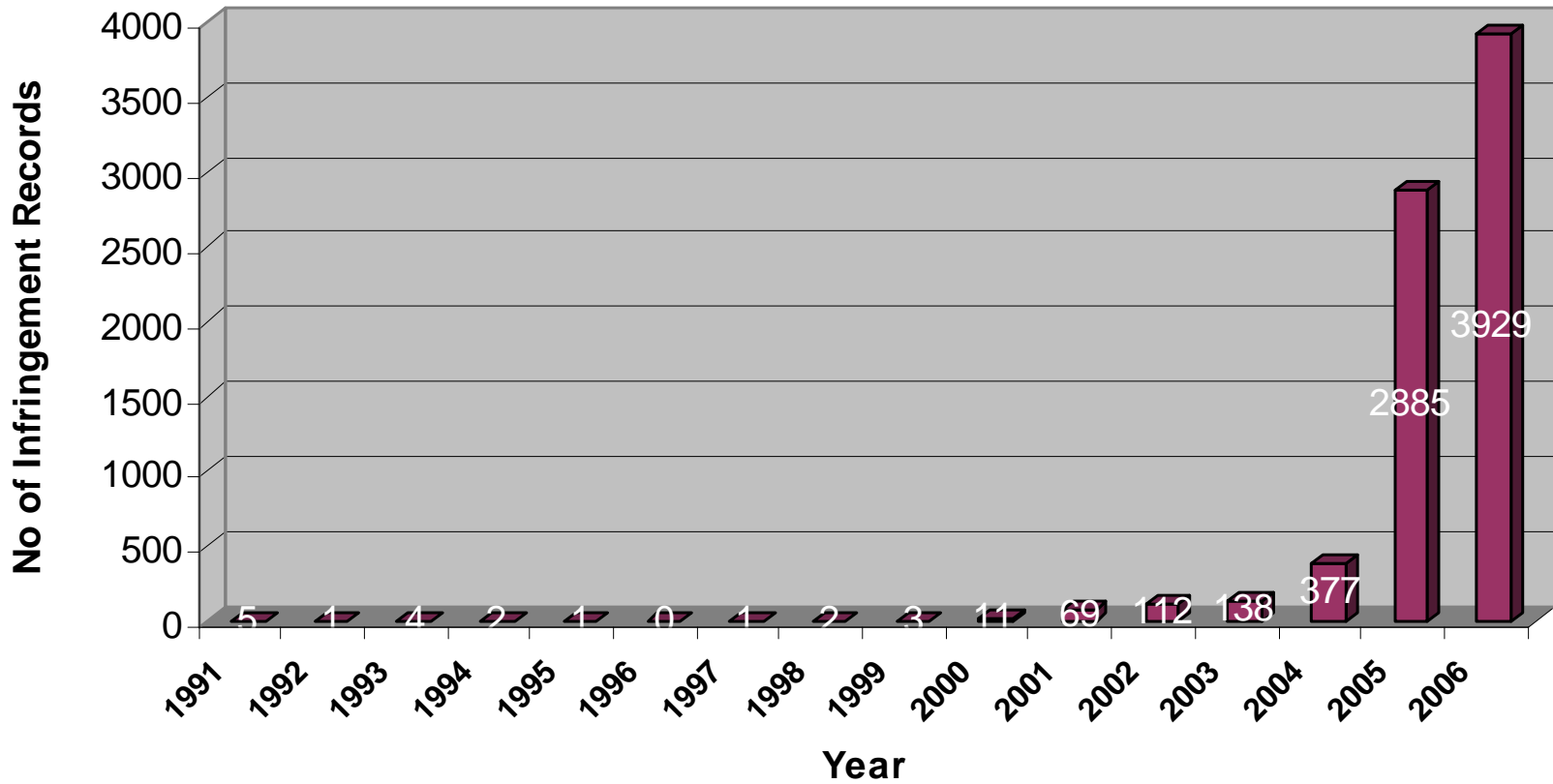
Contributing Members

- Current UKOPA members who contribute to the database include:
 - National Grid
 - BP
 - Innovene
 - Esso Petroleum
 - E.On
 - Unipen (MJL)
 - Wales & West Utilities
 - Shell
 - SABIC UK Petrochemicals
 - Total (UK)
 - BPA
 - OPA
 - Scotia Gas Networks
 - Northern Gas Networks

Database Content

- From 2002 – 2004 contributions to the database were derived from chemical and oil sector pipelines
- With the addition of records from the UK natural gas distribution system from 2005, database content has increased significantly

No of database records per year up to the end of 2006



Database Structure

- The record for each infringement includes:
 - Date
 - Location
 - Category
 - Third Party Type
 - Third Party Name
 - Activity Type

And for more recent records (from 2007):

- If activity was pre-notified to pipeline operator
- If activity occurred in urban, suburban, industrial or rural zone
- means by which the infringement was discovered (e.g. road or aerial patrol, notification by infringer)

Analysis by Infringement Category

- The UKOPA database categorises infringements on the basis of two factors
 - Actual damage or potential risk of damage to pipelines
 - Location of excavation in relation to pipelines

Analysis by Infringement Category

- Actual damage or potential risk of damage to pipeline

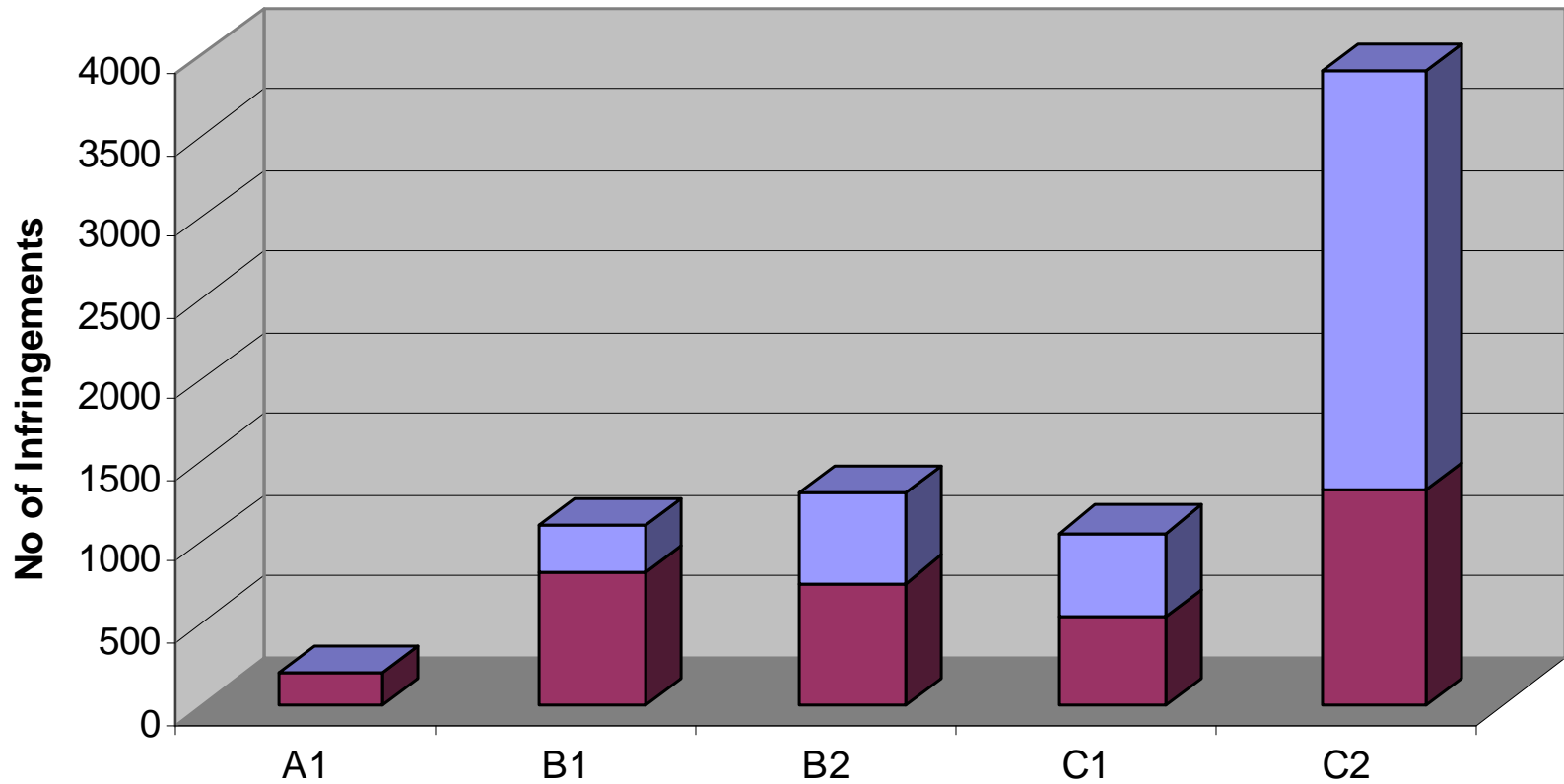
Infringement Category	Infringement Type	Infringement Description
A	Pipeline Damage or Leak	Includes damage to wrap or protective sleeve
B	Serious Potential for Damage	Methods or equipment used could have resulted in significant damage had excavation taken place at pipeline
C	Limited Potential for Damage	Methods or equipment would not have resulted in serious damage

Analysis by Infringement Category

- Location of excavation in relation to pipeline

Location Category	Location Description
1	Within the pipeline wayleave or easement. Typically, this is the zone within which the pipeline operator has legal rights, including a requirement by the landowner to notify planned work (although may be different for non-Pipelines Act lines laid by Statutory Undertakers).
2	Within the pipeline operators zone of interest, but outside the pipeline wayleave or easement. It is the area within which the operator would have reasonably expected a competent third party to have given notification in the prevailing circumstances.

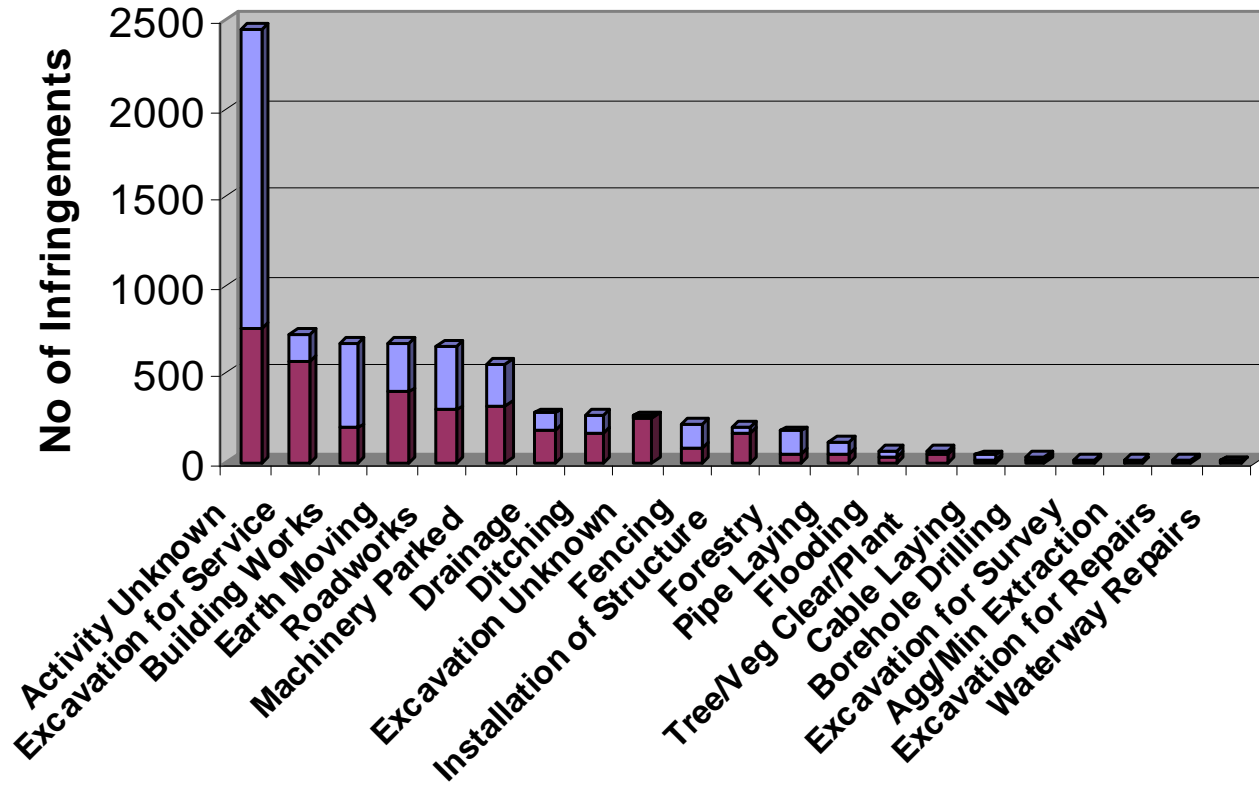
Infringements by Category 2006 and previous years



Analysis by Activity Type

- Understanding the types of activity contributing to infringement statistics provides important information for:
 - targeting awareness training and communication
 - relating to infringement location and vulnerable areas

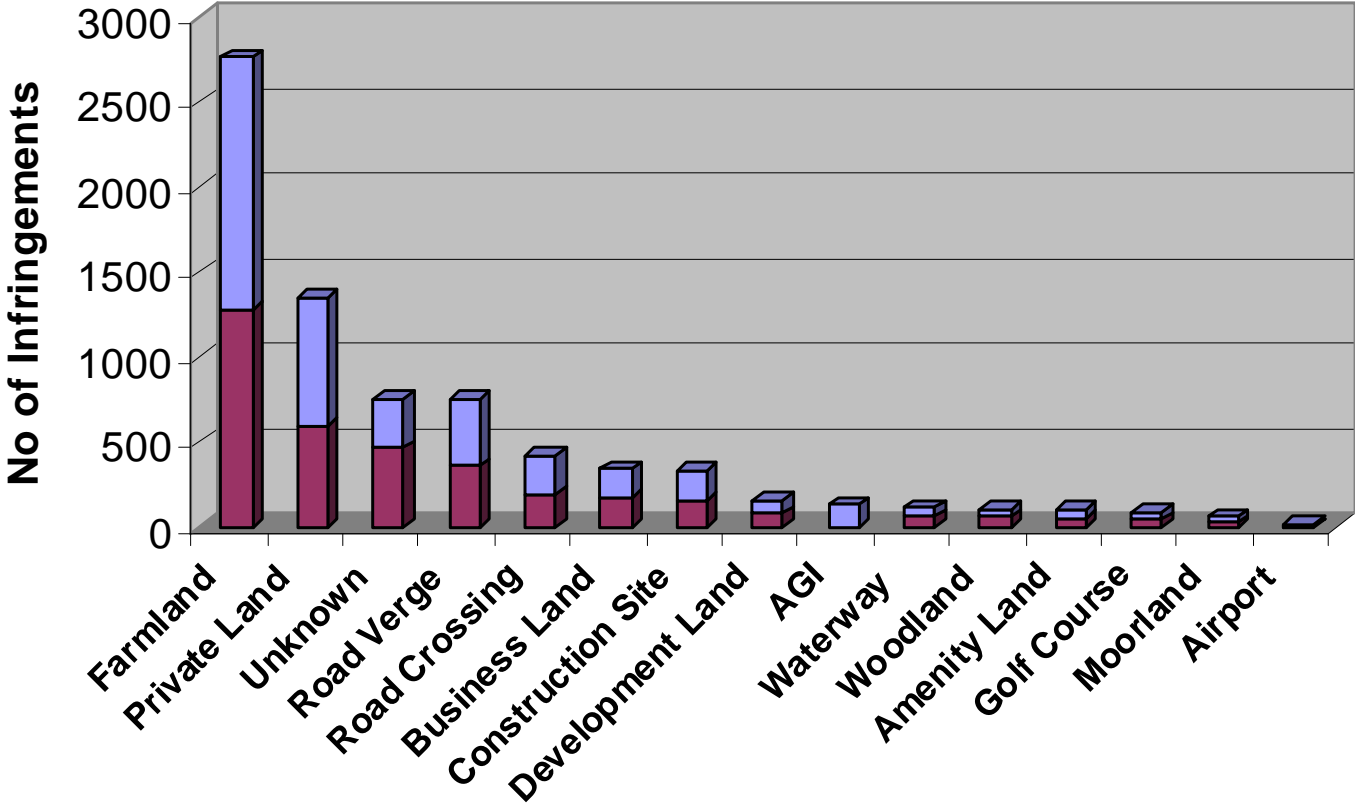
Infringements by Activity 2006 and previous years



Analysis by Infringement Location

- Locations where infringements may take place provides key information for:
 - main areas of pipeline vulnerability
 - areas where marking is critical
 - areas where excavator vigilance is particularly important

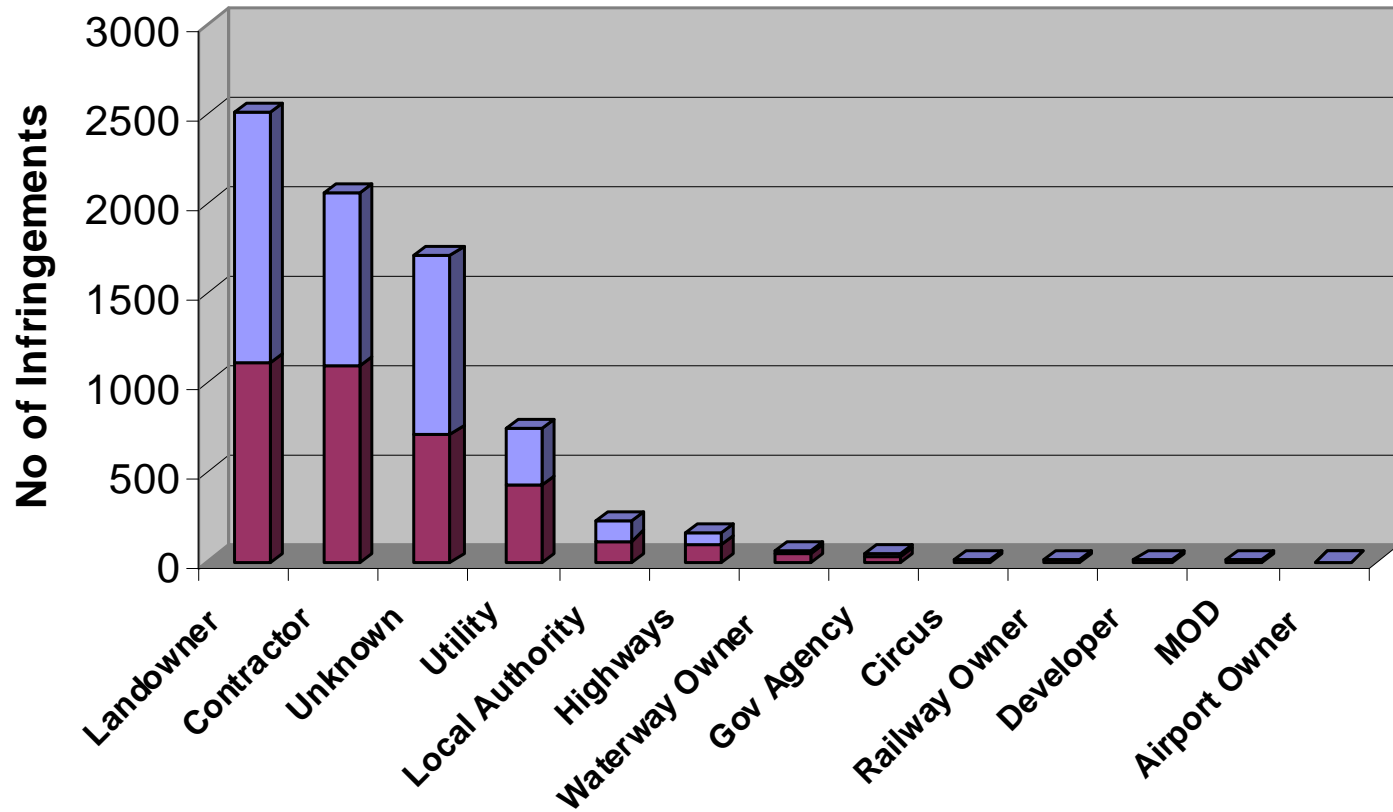
Infringements by Location 2006 and previous years



Analysis by Third Party Type

- UKOPA are interested in which types of third parties are infringing
- Are there any patterns?
- What does it tell us about the weakness of the sub-contracting 'chain'?
 - Who is responsible for checks and searches in each case?
 - What does it tell us about the 'pipeline awareness' of those actually doing the digging?

Infringements by Third Party Type 2006 and previous years



Analysis by Third Party Name

- UKOPA are interested in identifying and working with anyone who has, or has the potential to infringe
- Those third parties who have made multiple infringements are a particular concern
- As invited members of UKOPA, the Health & Safety Executive have access to the list of 'repeat infringers' and have used the data to inform their inspection programmes
- This individually named company data is not, however, publicly available

Repeat Infringers

Events per Third Party	No of Third Parties
1	543
2	82
3	27
4	14
5	9
6	7
7	3
8	4
9	6
10	1

A1 Infringements by Activity

- Analysis of the highest risk (A1) events provides an insight into those activities which appear to present the largest threat to pipeline safety

All A1 Infringements by Activity Type up to the end of 2006

