

# West Suffolk Contaminated Land Strategy

**Effective from (TBD) (approved TBD)** 

Joint West Suffolk Contaminated Land Strategy approved TBD

# Appendix A

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# **Executive summary**

- 1. West Suffolk is generally fortunate to have experienced relatively little historical land use which has led to land becoming so damaged that it may pose a serious threat to our health or the environment. However, nationally land contamination presents its own threats to sustainable development by denying local people a clean and healthy environment, preventing prudent use of land and soil resources, and placing a high-cost burden on individuals and organisations that have to clean up pollution.
- 2. West Suffolk Council has a responsibility for regulating land contamination in its administrative area under Part 2A of the Environmental Protection Act 1990 (EPA) introduced in 2000. To carry out its responsibilities the council has published this strategy setting out how this work will be accomplished.
- 3. This strategy reflects the work that has been undertaken since Forest Heath District Council and St Edmundsbury Borough Council originally published strategies in 2001, publication of the Government's revised statutory guidance on contaminated land in 2012, the ensuing change of circumstances brought about by both authorities entering into the shared services partnership known as West Suffolk and finally the creation of the new West Suffolk Council on 1 April 2019.
- 4. This strategy forms part of a framework affecting the quality and use of land in West Suffolk. It follows the principles of sustainability to protect and improve human health and the local environment.
- 5. The contaminated land regime is based on two principles:
  - making the polluter pay
  - securing a standard of remediation, or clean-up, which is fit for the current land use.
- 6. We are committed to avoiding potential blighting of land and to addressing concerns sensitively, responsibly and promptly.
- 7. Overall, our aim is to ensure that no land within West Suffolk will give rise to significant harm, to either human health or the wider environment, due to contamination.

#### Introduction

8. Legislation concerning contaminated land was introduced by the Environmental Protection Act 1990 (EPA) on 1st April 2000. The introduction of the 'Part 2A' legislation by Section 57 of the Environment Act 1995 established a regulatory system for the identification and remediation of contaminated land, for which local authorities have been required to produce a written strategy setting out how this should be accomplished.

# **Purpose of the strategy**

- 9. This strategy outlines how contaminated land is identified and dealt with in order to discharge the statutory responsibility arising from Part 2A and to therefore ensure that contaminated land is identified and remediated to a state where the land is suitable for use and does not pose a significant risk to health or the environment.
- 10. In April 2012, the Department for Environment, Food and Rural Affairs (Defra) revised its statutory guidance with one of the provisions being that all local authorities will need to update their strategies to reflect the changes. All local authorities should periodically review their strategies, with good practice being to review strategies at least every five years.
- 11. This strategy should be read in conjunction with the 2012 statutory guidance, referred to in this strategy as the 'guidance', which is available to download at GOV.UK Department for Environment Food and Rural Affairs. More detail on the principles that the authorities will apply when implementing the strategy is set out in Part C.

# Interaction with sustainability

- 12. It is recognised that the existence of contaminated land presents four main potential threats to sustainable development:
  - it may impede social progress, depriving local people of a clean and healthy environment
  - it could create wider damage to the environment and wildlife
  - it may inhibit prudent use of our land and soil resources, particularly by obstructing the recycling of brownfield sites and increasing pressures on the development of greenfield areas
  - the cost of remediation represents a high burden on individual companies, home and other landowners and the economy as a whole.
- 13. This strategy, including the work undertaken by the authority to achieve sustainable remediation of contaminated land, is aligned with the principles of sustainability; achieving a balance between social, economic and environmental concerns whilst meeting the authority's statutory obligations and corporate responsibilities.

# Development and progress made by the authority

- 14. West Suffolk Council covers the administrative area formerly covered by Forest Heath District Council (FHDC) and St Edmundsbury Borough Council (SEBC). FHDC and SEBC first published their contaminated land strategies separately in 2001 and subsequently revised them to maintain their currency and relevance.
- 15. A joint strategy for Forest Heath District and St Edmundsbury Borough Councils was published in 2013, which was developed and took into account the updated 2012 statutory guidance. An updated strategy was then adopted in 2018.
- 16. To date, potential sites in West Suffolk have been identified and mapped. These sites have been risk-rated and prioritised for the authority to inspect. Relevant data have been gathered and assessed with sites where remediation has been required being either dealt with by voluntary agreement or through the planning process as set out below.
- 17. Redevelopment of land exposed to contamination is dealt with primarily through the town and country planning acts since land contamination, or the possibility of it, is a material planning consideration. This means that the local planning authority (LPA) has to consider the potential implications of contamination, both when it is developing planning policy and when it is considering development proposals. Government guidance on dealing with land affected by contamination through development is given in the National Planning Policy Framework (NPPF).

# Structure of the strategy

- 18. This document is divided into three parts:
  - **Part 1** concentrates on the West Suffolk approach to dealing with contaminated land.
  - Part 2 highlights the key characteristics of West Suffolk.
  - **Part 3** is a technical outline, setting out the national and local policy context and principles of contaminated land assessment and regulation.

# Part 1. The West Suffolk strategy

#### Aims and objectives of the strategy

- 19. We will work together to implement the contaminated land regime using this strategy to achieve the following aims:
  - protect human health, controlled waters and local ecosystems from the impact of contaminated land
  - prevent damage to property from the impact of contaminated land
  - encourage voluntary remediation
  - encourage the redevelopment of brownfield sites.
- 20. In achieving these aims, we will:
  - use the most appropriate mechanism to deal with land contamination
  - deal with contaminated land using the 'suitable for use' approach in a rational, ordered and efficient manner
  - take action in proportion to the seriousness of any actual or potential risk posed by the presence of contamination
  - ensure that the most pressing problems are dealt with first
  - ensure that, as far as practical, the polluter pays by securing voluntary action or by employing our enforcement powers
  - deal with our own land where it has been affected in a prompt and responsible manner
  - communicate with stakeholders and interested parties about land contamination in an open, accessible and responsive way.
- 21. Our objectives are to:
  - inspect sites within West Suffolk to identify contaminated land according to the approach set out in the strategy
  - adopt a risk-based approach in order to prioritise investigative work to determine contaminated land
  - pursue the assessment and remediation, as needed, of identified sites coming through the planning process
  - collate, record and make available information, as far as practical and relevant, on the condition of land throughout West Suffolk, which can be viewed here
  - monitor regularly and report on our progress
  - review the strategy periodically and revise its contents as necessary.
- 22. These aims and objectives will be progressed in line with West Suffolk's strategic priorities. More details can be found at the following <u>link</u>.

# Our work programme

- 23. We will undertake the following within the five year period of this strategy:
  - maintain local planning policy and guidance in response to any further updates of the National Planning Policy Framework or other relevant planning guidance
  - carry out inspections based on service requests
  - provide pre-planning application advice and guidance and review planning applications as appropriate

- respond to pollution incidents with the potential to damage land or cause harm to health as a consequence of land contamination
- monitor sites where the status of any contaminant linkage may be subject to change
- continue to provide advice and supply information to individuals and organisations enquiring about land quality in West Suffolk
- ensure staff competence by employing suitably qualified staff maintaining their professional competence
- review the strategy every five years as a minimum.
- 24. These activities are based upon the current situation and may be subject to change due to external factors such as future changes in legislation, and internal factors such as financial resources and corporate priorities.

## Resources and funding to deliver the strategy

- 25. We have allocated staff and financial resources to discharge our statutory duties. These activities include:
  - carrying out desk studies and site walk-overs
  - commissioning and overseeing site investigations
  - undertaking risk assessments
  - taking soil and water samples and commissioning laboratory analysis
  - assessing information provided by others to determine the presence of contaminated land
  - carrying out subsequent technical and legal activities
  - preparing reports on the state of land.
- 26. The cost of any work to the point of determining contaminated land is generally borne by the regulator, that being the authorities. In the case of Special Sites, the Environment Agency may provide support or, after determination of a Special Site, take on the regulatory duties.

# Our approach to strategic inspection

- 27. We have collated relevant information to establish a database of sites which have been put to contaminative use, likely pathways for contaminants to migrate and sensitive receptors that could be harmed by contamination should a contaminant linkage be present.
- 28. We undertook a computer-based risk screening assessment using a programme designed by the British Geological Survey based on a methodology developed by the Canadian Council of Ministers for the Environment published in 1992.
- 29. Sites of potential concern, key receptors and contaminant pathways were evaluated in turn using computer-based GIS (Geographical Information System) and a score for potential risk calculated. The scores are then combined to give a priority grading. This allowed an inspection programme to be created so that detailed inspection activities could be carried out in an objective, targeted and proportionate manner.
- 30. New information comes to light or situations occur where new sites are identified. These sites are addressed within the inspection programme according to their urgency.

#### Our approach to detailed inspections

- 31. A range of inspection techniques including desk-based research and site visits, may be used to determine the state of the land.
- 32. On-site inspection will only be carried out where, in our opinion, there is a reasonable possibility of a contaminant linkage being present. Where the inspection involves carrying out an intrusive investigation (that is taking samples or installing monitoring points), we will ensure that:
  - information has not already been provided on the condition of the land upon which we can reasonably determine contaminated land, or no offers have been made to furnish such information within a reasonable and specified time prior to the inspection
  - intrusive investigations will be carried according to current approved standards and codes of practice
  - interested parties and relevant statutory bodies will be consulted in advance of intrusive investigation being undertaken.
- 33. Before any site visit is carried out, we will make all reasonable efforts to obtain permission for access from the person responsible for the site. In certain circumstances, we may have to use our powers of entry under section 108 of the Environment Act. This, however, will be viewed as a last resort.
- 34. All site inspections will be carried out according to current health and safety standards and relevant guidance. Suitably qualified and experienced staff, whether council employees or experienced consultants, will undertake site inspections.
- 35. Before each site inspection, those carrying out site work will be appraised of all relevant information about the state of the site to identify whether particular health and safety measures will be required.
- 36. Certain triggers may instigate non-routine inspections such as:
  - unplanned events, such as spills
  - identification of new contaminant linkages
  - submissions of schemes for voluntary remediation prior to an inspection
  - identification of localised health effects attributable to a particular area of land
  - newly supplied information, including reports of abnormal site conditions
  - establishment of important case law.
- 37. We will endeavour to undertake non-routine inspections according to the same principles as routine inspections.

# Making a decision whether to determine contaminated land

38. We can only make a decision whether we should determine contaminated land after we have undertaken all the tasks set out above and after having regard to the principles set out in Part 3 of the strategy.

# **Securing remediation**

39. The contaminated land regime encourages voluntary remediation, and it will be our policy to secure clean-up by negotiation with those who are liable wherever possible. In cases where negotiation between us and the interested parties fails

- to lead to reasonable remediation being achieved, we will use our enforcement powers under the act.
- 40. In all cases, we will undertake our enforcement role according to the guiding principles set out in our Enforcement Policy.
- 41. More detail on our enforcement policy can be found on our website here.

## Dealing with liabilities and remediation costs

- 42. Having determined a site as contaminated land, every effort will be made to identify the appropriate person to bear responsibility for remediation based on the principle that the polluter pays.
- 43. However, if in the unlikely event no appropriate person has been identified, we may be required to meet the costs of remediation. Where possible, we will seek support from any central government capital grant funding available to avoid unnecessary demand on the local public purse.

## Taking urgent action

44. We already operate procedures to deal with situations where it appears that serious harm or pollution is being or is likely to be caused. We will endeavour to apply the same principles and standards set out above for routine action.

# Internal management procedures, competence and performance standards

- 45. All work to identify and deal with contaminated land will be carried out according to documented in-house procedures. These procedures will be maintained and regularly reviewed to ensure that all work is undertaken in a consistent and effective manner.
- 46. Staff working on land contamination issues will be suitably qualified and experienced to undertake the work that they have been allocated. Competence will be assessed both in terms of suitable technical qualifications continued professional development to maintain their knowledge and competence.
- 47. All work will be subject to management review at regular intervals to ensure that it accords with the aims and objectives set out in the strategy. We operate key performance indicators against which our performance will be compared and scrutinised.

# Consulting and communicating with others

- 48. Since the community will be affected by the condition of the land in its locality, local people need to be informed about any significant risks which are thought to exist from contamination. We will carry out our duties so that:
  - the contaminated land regime and our decisions and actions are as transparent as possible
  - undue delays or confusion are avoided
  - meaningful communication of risk issues is achieved in unambiguous terms
  - there is clear identification of who is responsible for actions required under the regime
  - concerns are handled sensitively, responsible and promptly

all practical effort is made to avoid blighting residential properties.

#### Managing and accessing information

- 49. In order to implement the strategy, we must gather information from a wide variety of different sources relating to the state of the land. This information may be in a range of media forms.
- 50. Therefore, it is important to ensure that the information is managed systematically so that it can be readily retrieved and to avoid loss, damage of deterioration. Information will need to be kept up to date. We will regularly check the status of key data sets and review the currency of information at frequencies appropriate to the data set.
- 51. Local authorities are subject to the requirements of the Environmental Information Regulations 2004, the Freedom of Information Act 2000 and the Data Protection Act 2018. Accordingly, we are committed to ensuring open access to information unless there are specific legal or technical reasons preventing us to do so, including relating to the General Data Protection Regulation 2018. This could be where releasing information is:
  - prejudicial to national security
  - prejudicial to future legal proceedings
  - subject to copyright restrictions
  - work in progress
  - data relating to individuals.
- 52. General information and advice about land quality is available on our website:

  <u>Environmental problems Contaminated land</u>. Specific enquiries about contaminated land can be made through our website, by email, telephone, in writing or in person. We must deal with a request for information within 20 working days except where the enquiry is complex or involves a large amount of information. Should an answer not be possible within this time, we will tell you how long it will take to answer your request.
- 53. There may be a charge to cover our costs in answering an enquiry. We will always say in advance if there will be a charge. No charge will be made for inspecting any public register of information.

# **Reporting progress**

54. We will use informal means of communicating including our website, press releases, newsletters and articles and other forms of communication. We will endeavour, as far as practicable, to report on our activities in an accurate, meaningful and responsible way, specifically in light of any potential investigations.

# Reviewing the strategy

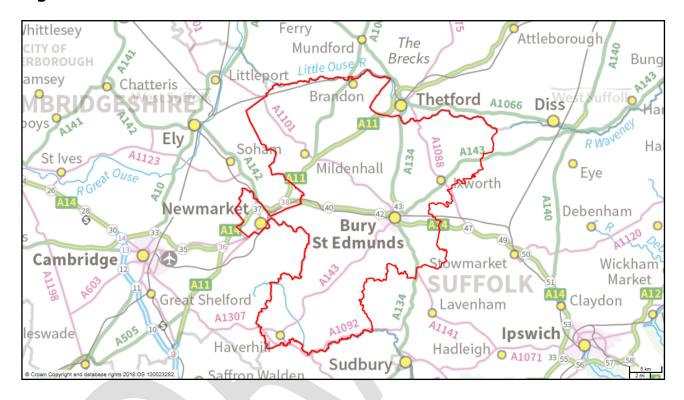
55. In line with best practice, we will review our strategy every five years, as a minimum, although more frequent review may be undertaken should this be needed. We will endeavour to ensure that any required changes to the strategy are implemented in a timely and effective manner to achieve our aims and objectives.

#### Part 2. Local characteristics

#### **Location and population**

56. West Suffolk covers 103,095 hectares with a population of 179,946 (source: Census 2021) located within five main centres of population (Bury St Edmunds, Haverhill, Newmarket, Mildenhall and Brandon) and a number of smaller rural communities.

Figure 1. West Suffolk



# **Topography and land use**

- 57. West Suffolk has a rich variety of natural landscapes from the chalk downlands of Newmarket, through the rich agricultural fenlands in the northwest, the sandy Brecklands and forests in the north and the gently rolling lowland cut by small rivers and their tributaries which dominate the southern half of the area.
- 58. Arable and livestock farming are the principal land use outside of the towns. Within the towns there are a number of industrial estates supporting a variety of light engineering and service industries. Food processing is strong in the local economy, including sugar beet, pig and poultry processing.
- 59. The horse racing industry towards the west of the district around Newmarket is recognised as a centre of excellence for the international horse racing and blood stock industry.
- 60. The other key land users in the district are the two USAF bases located at RAF Mildenhall and RAF Lakenheath. These facilities are the largest of their type in the UK.

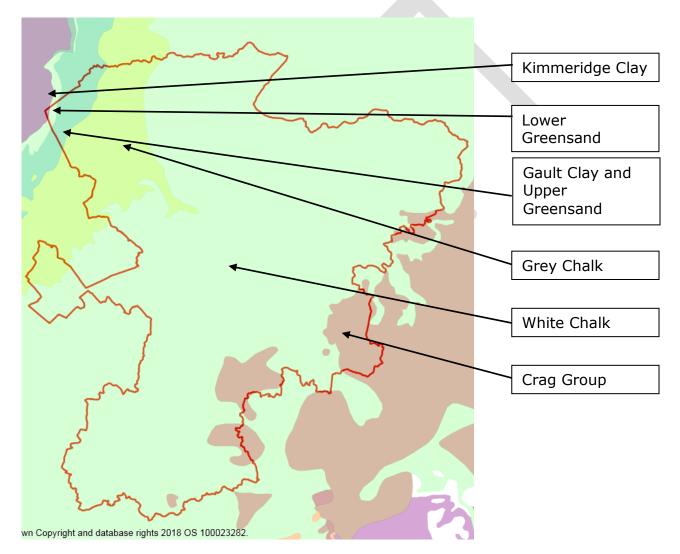
## Geology

61. The bedrock geology of the vast majority of West Suffolk comprises upper Cretaceous marine chalks (white and grey chalk subgroups) with limited Neogene and Quaternary marine gravel, and sand deposits (Crag Group) in the south and east of the area. A very small section of the far northwest is underlain by the Gault Clay, Upper and Lower Greensand and Kimmeridge Clay formations.

#### Introduction

62. This section explains the technical and legal aspects of regulating contaminated land. For a fuller explanation of the contaminated land regime, reference should be made to the Contaminated Land Statutory Guidance, April 2012.

Figure 2. Bedrock geology of West Suffolk



63. The overlying superficial geology is more varied, with Lowestoft formation – diamicton (clay) glacial deposits dominating in the south and east, whilst glacial sand and gravel or granular river terrace deposits become more prominent in the central and northern areas. The superficial geology in the Fenlands to the northwest are predominantly peat. However, local variations exist throughout West Suffolk dependent on local conditions and topography.

#### Water resources

- 64. The Cretaceous chalk which underlies the majority of West Suffolk is classified as a principal aquifer. It comprises a pure, fine-grained, high porosity limestone with the presence of fissures giving high secondary porosity. Beneath the chalk, groundwater is also present in the Lower Greensand, whilst the overlying Crag deposits are also considered a principal aquifer and are generally considered to be in hydraulic continuity with the chalk.
- 65. Anglian Water is the major supplier of drinking water in West Suffolk and sources the majority of the drinking water from the Chalk Aquifer. There are also numerous private water supplies which the council regularly inspects the quality of in accordance with the Private Water Supplies Regulations 2016.
- 66. The Environment Agency Groundwater Vulnerability Map provides information on the water beneath the land in the district. Due to the principal nature of the aquifer and its importance in terms of water supply, the aquifer is considered to be of high sensitivity for large areas of the area.
- 67. Protection of groundwater in the district from contamination is a major objective of this strategy.
- 68. Major rivers within West Suffolk include the Lark, which travels through Bury St Edmunds and Mildenhall; the Stour and Stour Brook, which travel through Haverhill and forms a stretch of the southern boundary of West Suffolk; and the Little Ouse, which forms much of the northern boundary of West Suffolk.

#### **Natural and built environment**

- 69. The number and variety of plant and animal species (that is the biodiversity) that exists in West Suffolk, is one of its major natural assets. As a largely rural area it encompasses parts of a Special Protection Area (the Brecks), the largest lowland forest in England (Thetford Forest), as well as numerous Sites of Special Scientific Interest, County Wildlife Sites and local nature reserves. The whole of West Suffolk is designated as a nitrate vulnerable zone.
- 70. All of the towns and many of the rural villages contain designated conservation areas, whilst the area also has many sites of archaeological interest.

# Part 3. National policy context and principles for dealing with contaminated land

#### Regulatory roles

- 71. Under Sections 78B(1) and 78B(2) of the Environmental Protection Act 1990, our primary regulatory roles are to:
  - cause the area to be inspected to identify contaminated land
  - decide, after consultation, what remediation is required in any individual case and to ensure this takes place
  - establish who should be the appropriate person or persons to bear responsibility for the remediation of such land
  - record information about regulatory activity and make it available to the public.
- 72. The Environment Agency also has a number of roles with respect to contaminated land under Part 2A. These are to:
  - assist local authorities in identifying contaminated land, particularly where pollution of controlled waters is involved
  - provide site specific guidance to local authorities
  - act as the enforcing authority for any site designated as a 'special site'
  - publish periodic reports on contaminated land
  - carry out technical research and, in conjunction with Defra, publish scientific advice.

# **Local authority inspection duties**

- 73. When carrying out statutory inspections, priority should be given to particular areas of land that we consider most likely to pose the greatest risk to human health and the environment. However, when carrying out inspections, we should seek to minimise or reduce property blight as far as we consider reasonable. We should also encourage landowners or other interested parties to resolve contaminated land issues themselves and encourage voluntary investigation and remediation of land.
- 74. Where, in our opinion, there is a possibility that a significant contaminated linkage (see Contaminant linkages) exists, a detailed inspection of the land to obtain sufficient information should be carried out.
- 75. We should consult landowners prior to inspection or, if access is denied, we can use statutory powers of entry under Section 108 of the Environment Act 1995. All detailed inspections and investigations should be carried out in accordance with appropriate good practice technical procedures. If at any stage we consider that there is no longer a reasonable possibility of a significant contaminant linkage, then we should not carry out any further inspection.
- 76. Some sites may be 'special sites' by virtue of their complex nature. These are defined in the Contaminated Land (England Regulations) 2006 and, where identified, require the authority to consult the Environment Agency.

#### **Definition of risk**

- 77. Part 2A takes a risk-based approach to defining contaminated land and risk is defined within the guidance as:
- "(a) the likelihood that harm, or pollution of water, will occur as a result of contaminants in, on or under the land; and (b) the scale and seriousness of such harm or pollution if it did occur".
- 78. We should focus on land which might pose an unacceptable risk and should have regard to good practice guidance on risk assessment so we can make a robust decision in line with Part 2A and the guidance. The risk assessments should be based on information, which is scientifically based, authoritative, relevant and appropriate.

#### **Current use**

- 79. Under Part 2A, risk should be considered only in relation to the current use of the land. Current use is defined as:
  - the use which is being made of the land currently
  - reasonably likely future uses of the land that would not require a new or amended grant of planning permission
  - any temporary use to which the land is put, or is likely to be put, from time to time within the bounds of current planning permission
  - likely informal use of the land, for example children playing on the land, whether authorised by the owners or occupiers or not
  - in the case of agricultural land, the current agricultural use not being taken to extend beyond the growing or rearing of the crops and animals which are normally grown or reared on the land.
- 80. The Government's objectives with respect to contaminated land underlie the 'suitable' for use' approach to the assessment and management of risk. This approach comprises three elements:
  - ensuring that, in terms of risk to human health, land is suitable for its current use
  - ensuring that land is made suitable for any new use as planning permission is given for that new use
  - limiting requirements for remediation to the work necessary to prevent unacceptable risks to human health or the environment.

# **Contaminant linkages**

- 81. Under Part 2A, for a risk to exist there must be one or more contaminantpathway-receptor linkages or 'contaminant linkages' by which a relevant receptor might be affected by the contaminants in question. Contaminant-pathwayreceptor is defined as follows:
  - A 'contaminant' is a substance which is in, on or under the land and which has the potential to cause significant harm to a relevant receptor, or to cause significant pollution of controlled waters.
  - A 'pathway' is a route by which a receptor is or might be affected by a contaminant.

- A 'receptor' is something that could be adversely affected by a contaminant, for example a person, an organism, an ecosystem, property, or controlled waters. The various types of receptors that are relevant under the Part 2A regime are explained in later sections.
- 82. All three elements of a contaminant linkage must exist before the land could be determined as contaminated land under Part 2A. A 'significant contaminant linkage', as defined in the guidance, is required which gives rise to a level of risk sufficient to justify a piece of land being determined as contaminated land.
- 83. In considering contaminant linkages, we should consider whether:
  - the existence of several different potential pathways linking one or more potential contaminants to a particular receptor, or to a particular class of receptors, may result in a significant contaminant linkage
  - there is more than one significant contaminant linkage on any land. If there
    is, we should consider whether or not each should be dealt with separately,
    since different people may be responsible for the remediation of individual
    contaminant linkages.
- 84. In addition to the aquifer as a receptor mentioned above, the drinking water supply could also be a receptor via the supply infrastructure in the vicinity of sources of pollution such as landfills where leachate may arise, unless a suitable barrier pipe is installed.
- 85. UK Water Industry Research published guidance in 2010 on the appropriate selection of drinking water pipes in brownfield sites. Anglian Water currently work to this guidance to afford an appropriate level of protection to the drinking water system under the regulation of the Drinking Water Inspectorate.

# The process of risk assessment

86. The understanding of the risks is developed through a staged approach to risk assessment which involves a preliminary risk assessment formed by desk study, a site visit and walkover, a generic quantitative risk assessment which is usually communicated in the form of a 'conceptual model'. This is often followed with various stages of more detailed risk assessments.

# Normal or background contamination

- 87. Many contaminants are naturally occurring and are commonly found in soils, due to soil forming processes and the nature of the underlying geology. Other substances are also widespread in the environment due to low level diffuse pollution and common human activities, such as the historic use of spreading of ash in domestic gardens.
- 88. The Part 2A regime was introduced to help deal with land which poses unacceptable levels of risk. For the large majority of sites where there are naturally occurring contaminants, or levels of contamination which might be considered 'normal' in a particular area, there is usually no reason to consider this land as contaminated land.

#### Appendix A

The guidance makes it clear therefore, that where land is at or close to 'normal' levels of contamination, it should usually not be considered further under Part 2A, unless there is a particular reason to do so. In such cases we would need to carefully explain the reasons for taking that decision based on robust scientific evidence.

#### Use of generic assessment criteria

- 89. The Environment Agency has developed a Government-supported methodology for estimating long-term risks to people from contaminants in soil, known as the Contaminated Land Exposure Assessment tool (CLEA). This is accompanied by a number of technical guidance documents, which form part of the CLEA package.
- 90. This software has been used to derive Category 4 screening levels (C4SLs), which can be used as low risk screening values to compare with concentrations of contaminants in soil. They can be used to indicate when land is very unlikely to pose a significant possibility of significant harm to human health.
- 91. Other generic assessment criteria (GAC), derived by reputable organisations and competent practitioners in the land contamination sector, are available for most of the commonly occurring contaminants in soil, however, these are generally based on minimal risk (rather than low risk) levels. As with any generic assessment tool, the limitations and assumptions must be clearly understood before they are used in the risk assessment process.



#### **Risk summaries and written statements**

- 92. Once we have completed a detailed inspection and assessment of a particular piece of land, we should be satisfied that we have sufficient understanding of the risk to take relevant regulatory decisions.
- 93. As part of this, we will produce a 'risk summary' for any land where, on the basis of our risk assessment, we consider it likely that the land in question may be determined as contaminated land, or produce 'written statements' where, on the basis of our risk assessment, we consider it unlikely that the land in question is contaminated land.

## Statutory definition of contaminated land

94. Section 78A(2) of EPA provides the following statutory definition of contaminated land:

"Any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that:

- a. significant harm is being caused or there is a significant possibility of such harm being caused, or
- b. significant pollution of controlled waters is being or is likely to be caused."
- 95. It should be noted that Part 2A will not apply where existing pollution control legislation deals with land contamination, as shown below:
  - change of land use, where land becomes a risk to potential new receptors (that is future residents) as a result of land use change under the town and country planning acts
  - Integrated Pollution Prevention and Control (IPPC) where industrial processes require a permit under the Pollution Prevention and Control Act 1999 for preventing pollution arising from these processes
  - the Water Resources Act 1991 where a pollutant is discharged into controlled waters and is no longer affecting the land, and where discharge consents have been granted
  - the Health and Safety at Work Act 1974 as applicable to the risk of harm to employees
  - the Control of Major Accident Hazard Regulations (COMAH) 2015 as applicable to risk of harm following an incident
  - the Environmental Damage (Prevention and Remediation) Regulations 2015 as applicable following an incident.

# Significant harm and significant possibility of significant harm to human health (SPOSH)

96. The guidance defines harm as:

"harm to the health of living organisms or other interference with the ecological systems of which they form part and, in the case of man, includes harm to his property".

- 97. However, there are no definitions of the term 'significant' but there is additional guidance of the assessment of significance. The guidance suggests that the local authority should consider any decision on whether land is contaminated in the context of the broad objectives of the regime and of the Government's policy.
- 98. Sections 4.19-4.29 of the revised guidance, which can be viewed at: <a href="Department for Environment Food and Rural Affairs Contaminated Land Statutory Guidance">Department for Environment Food and Rural Affairs Contaminated Land Statutory Guidance</a>, put contaminated sites into four categories, from an unacceptably high probability (Category 1) to low or no risk (Category 4), on the grounds of significant possibility of significant harm to human health. The guidance also highlights that as the decision is a positive legal test the starting assumption should be that land does not pose a significant possibility of significant harm unless there is reason to consider otherwise.

# Significant harm and significant possibility of such harm (non-human receptors)

99. In considering non-human receptors, Table 1 and Table 2 in the guidance outline whether or not significant harm is being caused or there is a significant possibility of such harm to non-human receptors.

# Significant pollution of controlled waters and significant possibility of such pollution

- 100. Under section 78A(9) of Part 2A, the pollution of controlled waters is defined as "the entry into controlled waters of any poisonous, noxious or polluting matter or any solid waste matter".
- 101. Before determining that significant pollution of controlled waters is being, or is likely to be, caused, we should be satisfied that a substance is continuing to enter controlled waters or is likely to enter controlled waters.
- 102. The following types of pollution should be considered to constitute significant pollution of controlled waters:
  - pollution equivalent to 'environmental damage' to controlled waters as defined by the Environmental Damage (Prevention and Remediation) Regulations 2009, but which cannot be dealt with under these regulations
  - inputs resulting in deterioration of the quality of water abstracted, or intended to be used in the future, for human consumption such that additional treatment would be required to enable that use
  - a breach of a statutory surface water Environment Quality Standard either directly or via a groundwater pathway
  - input of a substance into groundwater resulting in a significant and sustained upward trend in concentration of contaminants (as defined in Article 2(3) of the Groundwater Daughter Directive (2006/118/EC)).

#### Radioactive contamination

103. The provisions of Part 2A were extended in 2005 to cover radioactive contamination. The main objective for extending the Part 2A regime to include radioactivity was to provide a systematic way to identify and remediate land where contamination is causing a lasting exposure of humans to radiation. Any land determined as contaminated land by virtue of radioactivity will be dealt with

by the Environment Agency under the designation as a special site. This does not apply in respect of harm to any other receptor. New statutory guidance for land contaminated by radioactivity was issued by the Department for Energy and Climate Change in June 2018.

#### **Determination of contaminated land**

104. Section 78A(2) of the 1990 Act says that, in determining whether any land appears to be contaminated land, a local authority shall "act in accordance with guidance issues by the Secretary of State ... with respect to the manner in which that determination is to be made".

#### Deciding that land is NOT contaminated land

- 105. During inspections, we are likely to inspect land that we then consider is not contaminated land. For example, this will be the case where we have ceased our inspection and assessment of land on grounds that there is little or no evidence to suggest that it is contaminated land.
- 106. In such cases, we will produce 'written statements' to that effect (rather than coming to no formal conclusion) to minimise unwarranted blight. The written statement will make clear that, on the basis of the assessment, we have concluded that the land does not meet the definition of contaminated land under Part 2A.
- 107. We will therefore inform the owners of the land of our conclusion and give them a copy of the written statement and keep a record of all written statements ourselves. We will consider making written statements available to other interested parties proactively and will always provide written statements on request.

# Determining that land is contaminated land

- 108. We have the sole responsibility for determining whether any land appears to be contaminated land. There are four possible grounds for determination of land as contaminated land:
  - significant harm is being caused to a human, or relevant non-human receptor
  - there is a significant possibility of significant harm being caused, or relevant non-human receptor
  - significant pollution of controlled waters is being caused
  - there is a significant possibility of significant pollution of controlled waters being caused.
- 109. Before making any determination, we should have identified one or more significant contaminate linkage(s) and carried out a robust, appropriate, scientific and technical assessment of all the relevant and available evidence. We should also inform the owner and occupiers of the land and any other interested parties of our intentions.
- 110. For sites which are likely to be determined following a thorough risk assessment, we will be required to have a written record of any determination which will

include a 'risk summary', which shall be written in an easy to understand format and will form part of the record of determination. This will include:

- a summary of the risks, including the identified contaminant linkages, and potential impacts
- a description of the uncertainties behind the risk assessment
- a description of the local or national context of the risk assessment findings, in a way that is understandable to the layperson
- an initial assessment of possible remediation options and likely impacts
- any other factors which may be relevant and support the authority's decision making process.
- 111. For further information on risk summaries and records required for the determination of contaminated land, please refer to Sections 3.33-3.36 and 5.17-5.19 of the guidance, which can be viewed at: <a href="Department for Environment Food and Rural Affairs Contaminated Land Statutory Guidance">Department for Environment Food and Rural Affairs Contaminated Land Statutory Guidance</a>.

## **Special sites**

- 112. Following determination, if the site is likely to meet one or more of the descriptions of a 'special site' set in the Contaminated Land Regulations 2006, we will notify the Environment Agency in writing, requesting any information it may have on the land and the likelihood of any contaminant linkages.
- 113. Where the Environment Agency wishes to carry out formal investigation on our behalf, its officers will need to be appointed as 'suitable persons'. The Environment Agency does not have the power under Part 2A to investigate land that may be contaminated land without our authorisation and only we can determine the land as contaminated.

# Postponement, revocation and variation of a determination

114. In certain circumstances we may wish to postpone determination if the landowner wishes to deal with the issues without determination. We may also revoke or vary a determination if we become aware of further information which significantly alters the basis of the original determination. For further information, please refer to Sections 5.15, 5.16 and 5.20-5.22 of the guidance, which can be viewed at: <a href="Department for Environment Food and Rural Affairs - Contaminated Land Statutory Guidance">Department for Environment Food and Rural Affairs - Contaminated Land Statutory Guidance</a>.

#### Remediation of contaminated land

- 115. Once land has been determined as contaminated land, we must consider how it should be remediated. The aim of remediation should be:
  - to remove identified significant contaminant linkages, or permanently to disrupt them to ensure they are no longer significant and that risks are reduced to below unacceptable levels, and/or
  - to take reasonable measures to remedy harm or pollution that has been caused by a significant contaminant linkage.
- 116. Remediation may involve a range of treatments, assessment and monitoring. Section 78E(1) states that a 'remediation notice' shall be served on the

- appropriate persons, specifying what the person is to do by way of remediation and timescales.
- 117. Any remediation should be carried out in a practical, effective manner, taking into account the benefits and any potential health and environmental impacts, including air quality or odour impacts. For further information please refer to Sections 6.1 6.39 of the guidance, which can be viewed at: <a href="Department for Environment Food and Rural Affairs Contaminated Land Statutory Guidance">Department for Environment Food and Rural Affairs Contaminated Land Statutory Guidance</a>.

#### Liability and cost recovery

- 118. Having established land as being contaminated land, we will need to determine who is liable for remediation. Details on the steps taken can be found in Sections 7.1-7.98 of the guidance, which can be viewed at: Department for Environment Food and Rural Affairs Contaminated Land Statutory Guidance.
- 119. For each significant pollutant linkage, we will have to identify who are the 'appropriate persons' for any remediation action relating to the pollutants that are present. There are two levels of liability:
  - **Appropriate persons Class `A'** those who have caused or knowingly permitted the presence of a pollutant or pollutants in, on or under the land.
  - Appropriate persons Class 'B' where no class 'A' persons can be found, liability reverts to the owner or the occupier.
- 120. If we cannot find any Class A or Class B persons in respect of a contaminant linkage, there will be no liability group and the land should be treated as an orphan linkage. Consequently, we may have to bear the cost of any remediation required. We may also have to consider bearing the cost of remediation for homeowners or occupiers who were not aware of contamination when they purchased the property.
- 121. Enforcement action may be taken if the agreed remediation scheme is not complied with or if the requirements of an issued remediation notice are not met, and also a notice may be served if a request for information is not forthcoming. This course of action will only be taken where necessary and in accordance with guidance and our enforcement policy.
- 122. Under the contaminated land regime, if we have carried out the work ourselves, we have the powers to recover all reasonable costs of remediation from those who have been identified as appropriate persons. Where we anticipate that we will have to carry out work which may result in costs being recovered, we will notify the Appropriate Person(s) at least 21 days in advance of the nature of the work and likely cost.

For urgent work, every effort will be taken to inform the appropriate person(s) in advance. Generally, we will seek to recover costs incurred in remediation, but will have regard to the guidance in particular relation to any hardship which may be incurred by an appropriate person(s).

# **Key references**

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