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BLAENAU GWENT COUNTY BOROUGH COUNCIL CONTAMINATED LAND STRATEGY

EXECUTIVE SUMMARY

This strategy has been produced as a **restult**e introduction of Section 57 of the Environment Act 1995 on thest July 2001. This act, introded as Part IIA of the Environmental Protection Act 1990 requires **lad** authorities totake the lead in inspecting their districts for contaminated land be ensure this is done in a systematic manner Part IIA requires that local authies publish a strategy detailing how their areas will be inspected for contaminated land.

This document fulfils the local autho**es** requirement to produce an inspection strategy. It puts the issoce contaminated land within the context of corporate priorities of Blaenau Gwent County Borough Council and **essethat** those areas of land which present the great**eisk** are dealt with first.

The primary legislation has introduced therefore to the "suitable for use" approach to the remediation of contaminated land.isTstrategy recognises this principle and as a result all areas of land will be assessmetheir present level of contamination, their current use and the risk that is present by the interaction of these two factors.

Part IIA defines contaminated land as:

"Any land which appears to the local autho**in** whose area it is situated to be in such a condition, by reason of sub**stan**in, an or under the land, that:

- a) Significant harm is being caused or this ra significant possibility of such harm being caused, or
- b) Pollution of controlled waters being, or is likely to be caused."

In order for land to be defined as contamination must be a 'significant pollutant linkage' established. Thisnlikage consists of 3 parts:

- x a source of contamination in, on order land and which better botential to cause significant harm or bottion to controlled waters;
- x a pathway, the route by which the sourcer is likely to cause significant harm to the receptor
- x a receptor, such as people, livestockopperty or controlled waters, that could be affected if exposed to the contaminant.

Once this significant pollutant linkage is established the local authority will be responsible for ensuring that a suitable leof remediation is completed on the land concerned. In areas of land defined ascispt sites the contaminated land would be passed to the Environment Aggregator their enforcement.

Blaenau Gwent County Borough Councishaalong history of heavy industry, including coal and mineral extraction dairon and steel manufacture. These industries were spread throughout the borough an result there is likely to be a widespread dispersion of the contaminates sociated with this sector of manufacturing industry.

In addition the more recent use of land **sill**es within short distances of urban conurbations and the expansion of chemic solvent based industries in the area has meant the potential for contamination exists throughout the authority. The existence of these potentially contamiends ites is exacerbated by the widespread

CONTAMINATED LAND

1.0 INTRODUCTION

This document is intended to fulfil the remainents of Part IIA of the Environmental

The main objective of the Part IIA regime is to provide an improved system for the identification and remediation of land, where contamination is causing unacceptable risks to human health one wider environment.

The significance for the developmentaos strategy is to address the complex considerations involved in contaminated dassues. There are needs for optimising land use, protecting the environment **anoth** an health, conseing heritage, and taking regard of historically contaminated occurrences. The components of the strategy include access to important historical information, a comprehensive knowledge of current land use apprices, and proper regard of the potential receptors.

In developing a plan of action to attend the new contaminated land responsibilities under the Environmental Protection Act 19Part IIA, the authority will promote sustainable development and approximation of contaminated land according to the statements and objectives here detailed. The strategy embodies the concepts of; risk assessment, determinatif pollutant linkages (source – pathway – receptor) and the delivery of a structure protoch to the identification, monitoring and remediation of land contamination, for the benefit of the community and our environment. The sustainability of lande practices and the promotion of 'brown land development' are key underlying principles.

Once the instruments of the strategy analise there will be a policy of consultation and review together with the relevant government agencies and those who are served by the strategy. It is intended at the associated services vided to the community will be delivered efficiently, effectively and economically. Land will be assessed, for example, on a 'fit for use basis with containment anonovative treatment forming important components of action within igted ted remediation schemes to protect receptors.

The strategy identifies the resources required eliver these services and subsequent review will determine how these will best procured and integrated within the responsibilities of the Enxonmental Health Section.

1.1 THE REGULATORY ROLE

The primary regulatory role under Part IIA lie**ithwo**cal authorities. This reflects on Blaenau Gwent County Borough Council's existing function under the statutory nuisance regime and also complements theofolise Council as a planning authority.

In outline the role of the Couincurder Part IIA is as follows:

- Prepare and publish a strategy for **ensign** their area for contaminated land by October 2002.
- Implement the inspection strategy.
- To inspect the County Borough of BlatenGwent to identify potentially contaminated land;

- To undertake urgent remediation **aoti**where there is imminent danger of serious harm.
- To determine if specific sites are contaminated;
- To act as enforcing authority for aboutaminated land which is not designated as a "special site" (for which thenvironment Agency is the enforcing authority).
- Identify and notify the appropriate **rse**ns involved with the land including the Environment Agency.
- Ensure that the appropriate remediation takes place.

Manintain a public regi**er** of regulatory action.

The Environment Agency will be response for providing information on the progress of the contaminated land regime through the production of the 'State of Contaminated Land' report. It will also act as a consulter bocal authority's inspection strategies and will provide information provide specific advice in relation to the pollution of controlled waters, and prect land on behalf of the local authority, which if it were to be determined as contramed land is anticipated to be designated as a special site.

1.2 INTERACTIONS WITH OTHER REGIMES

Existing planning legislation and pollution or trol will interact with the Part IIA strategy.

- x Planning Regime Land contamination is a **tena** planning consideration and the implications of contaminationearonsidered in phning applications and Unitary DevelopmentPlan designation;
- Integrated Pollution Control Integrated Pollution Prevention & Control Scheme (IPPC), applies to certain industrial processes and is enforced by the Environment Agency and local authorities;
- x Waste Management Licensing- the disposal and processing of waste;
- x Pollution of Controlled Waters (not arising from land) where a pollutant is discharged directly into controller daters and does not originate from land, the Water Resources Act 1991 will apply.

1.3 THE DEFINITION OF CONTAMINATED LAND

Contaminated land is defined under Part IIA as:

"Land which appears to the local authority to be ichsa condition, by reasons of substances in, on or under the land, that:

Gwent County Borough must be inspected for taminated land, it may be that only a few sites will fall into the definition of contaminated.

1.5 IDENTIFYING CONTAMINATED LAND

The definition of contaminated land is based in the principles of risk assessment. Risk assessment is undertaken by initially ablishing the form and concentration existing for any discovered substants on the identified area of land.

The data is then assessed againsti**shued** nationally accepted guidelines and standards, and finally determining if hatoma receptor is likely, or has occurred, through the establishment or pathway. Risk is defined as a combination of

- x The probability or frequency of occurrenof a defined hazard (for example, exposure to a substance with **prot**ential to cause harm), and
- x The magnitude (including the serioness) of the consequences. The relationship between risk assessmente, characterisation and sampling procedure is summarised in figure 2.

FIG.2 Relationship between Risk Assessmenter Characterisation and Sampling

Further explanation and context for the section ethods of inspection' on page 32.

RISK ASSESSMENT SITE INVESTIGATION SAMPLING (a) Desk based research Phase 1a Risk and site Assessment reconnaissance Phase 1b Risk Sampling of: Assessment (b) Soils Х Further research and x Solid Wastes exploratory site x NAPLs investigation x Gases/Vapours x Ground, surface Phase 2 Risk C and pore waters Assessment Staged intrusive x Terrestrial/aquatic investigation plants and animals Supplementary x Building fabric investigation SELECTION AND **EVALUATION OF REMEDIAL MEASURES**

HAZARDS RESULTING FROM CONTAMINATED LAND

Land contamination can create hazards repollutants in, on or under land reach a target or receptor, through yaone or more of the pathways listed in Table 1. Table 2 illustrates the 'harms' to receptors that demassociated with contaminated land. These tables together with the list of contaminants in Table 3 illustrate the materials and factors that have to be examined connectivity, i.e. the establishment and consideration of 'pollutant linkages'.

TABLE 1 – POLLUTANT PATHWAYS

PATHWAYS

- x (Vapour or gas) air **pha** to the receptor;
- x by leachate or erosion (etg.surface waters, to drainage, or to deeper aquifers);
- x by direct uptake (e.g. to the food chains other parts of the ecosystem);
- x by direct ingestion, contact or inh**tiban** (e.g. by humans, animals or other organisms);
- x by other contact (e.g. contact the building materials).

TABLE 2 CATEGORIES OF SIGNIFICANT HARM

	Type of Receptor	Description of Harm to Receptor
1	Human Beings	Death, disease, set is injury, genetic mutation, birth defects or the impairment reproductive functions.
		For these purposes, diseastaken to mean an unhealthy condition of the body or a part of it and can include, for example, cancer, liver dysfunction or extensive skin ailments Mental dysfunction is included only insofar as is is attributable to the effects of a pollutant on the body of the person concerned.
		In this Chapter, this desption of significant harm is referred to as a "human health effect"
2	Any ecological system, or ling organism forming part o such a system, within a location which is:	For any protected location:
	- an area notified as an area of special scientific interest under section 28 of the Wildli and Countryside Act 1981	system within any substantial part of that location;
	 any land declared a national nature reserve und section 35 of that Act; any area designated as a marine nature reserve 	 harm which affects any species of special
	 any area designated as a marine nature reserve under section 36 of that Act; an area of special protection for birds, establish 	endangers the long-term maintenance of the
	 under section 3 of that Act any European Siteithin the meaning of regulation 10 of the Conservation (Natural 	In addition, in the case of a protected location which is a
	 Habitats etc) regulations 1994 (ie Special Area of Conservation and Special Protection Areas); any candidate Special Areas of Conservation o potential Special Protection Areas given equivalent protection; 	 European Site (or a candidate Special Area of Conservation or a potential Special Protection Area), har which is incompatible with the favourable conservation statues of natural habitats at that location or species typically found there.
	(PPG9) on nature conservation (ie candidate Special Areas of Conservation, potential Specia Protection Areas and listed Ramsar sites); or	9n determining what constitutes such harm, the local authority should have regard to the advice of English Nature and to the requirements of the Conservation (Natural Habitats etc) Regulations 1994.
	 any nature reserve established under section 2 the National Parks and Access to the Countrysi Act 1949. 	of den this chapter, this desption of significant harm is referred to as an "ecological system effect".
3	Property in the form of:	For crops, a substantial diminution in yield or other substantial loss in their value resulting from death, diseas
	consumption;	or other physical damage. For domestic pets, death or forserious physical damage. For other property in this
	- livestock;	

- -
- other owned or domesticated animals; wild animals which are the subject of shooting or fishing rights. -

1.6 A STRATEGIC APPROACH TO INSPECTION

Local authorities have been guided by the National Assembly in their approach to their implementation of the contaminated regime. Technical advice suggest the inspection procedure shall be.

- x Rational, ordered and efficient.
- x Be proportionate to the seriousn**es** any actual or potential risk.
- х

GENERAL POLICY OF THE LOCAL AUTHORITY

document to take into account objections to the draft document and any changes in legislation.

2.2.2 BUILDING CONTROL

The Building Regulations 1991 require that taominated land issues are taken into account early during the construction phaselike Part IIA controls however, the Building Regulations 1991 onbonsiders the effects of contamination where it comes into direct contact with the building materials themeelas opposed to the whole development site. It is anticipated that adgathering and collation of information as part of the Strategy will inform Building ontrol Officers and assist them in the determination of the appropriate safeguards and standar required to protect buildings and services.

2.2.3 INTEGRATED POLLUTION CONTROL AND INTEGRATED POLLUTION PREVENTI ON AND CONTROL

The Environmental Protection Act 1990, Plat the legislative tool to control polluting processes to all media. With the vent of the new IPPC legislation that came into force in 1999, the Government that not additional controls which require that new and existing process operatoust be responsible for the conditions of the land both during and following the algos of the process. The framework for the site assessment will in principle be based on the identification and consideration of a contamination source, pathway and reception this respect, the information collected through IPPC approximations will add to the latabase of information concerning the condition of land within th

CHARACTERISTICS OF BLAEN AU GWENT COUNTY BOROUGH COUNCIL

3.0 INTRODUCTION

Blaenau Gwent County Borough Council beeamunitary authority in 1996 as a result of the combination of the districted county council functions. It covers approximately 10900 hectares of a land text location, in the South Wales Valleys 30 miles north of Cardiff.Its population is currently the following major conurbations.

Ebbw Vale	23931
Tredegar	15608
Brynmawr	5450
Nantyglo/Blaina	9577
Abertillery	17688

3.1 HISTORY

Blaenau Gwent history overethast 200 years is steeped hime industrial heritage of iron and steel production at the deep mining of coal.

In Ebbw Vale iron making begun on the site of the Corus plant as early as 1790 and the development and expansion of the **sitetic** ued to supply the needs of a growing British Empire. Tredegar also grew around the iron trade, and much of the housing which was built within the authority waseds to house the thousands of immigrant workers who came to find work here.

Along with the expansion of this heavy in **dys**came improvements in transportation with the construction of road and rail link the use of tram roads expanded to supply the ports of Cardiff and Newport with resources which were produced here.

Many major collieries were also sunk in Blaenau Gwent with these mines becoming the main source of employment for townsisas Tredegar, Nantyglo and Abertillery as the production of iron declined.

Over the last 25 years the decline of the general dustry within Blaenau Gwent has been progressive, culminating in the closure inty 12002 of the steel works at Ebbw Vale.

These employment opportunities have been acced by modern industries in the manufacturing sector. Note: industrial estates have en established at Tarfarnaubach at Tredeg Rassau, Ebbw Vale, Rising SathBlaina, Roseheyworth and Cwmtillery in Abertillery. These have lped to establish employment in less polluting industries while the local authoritivorks towards providing the greater skill levels which its citizens will need to compete in the technology and service sectors which will be the major employment areas of the future.

3.2 GEOLOGY AND HYDROGEOLOGY

SUMARY OF THE GEOLOGY OF THE COUNTY BOROUGH OF BLAENAU GWENT

The geology of the area can be brokewn into five distinct horizons:

- 1. The Dinantian Series
- 2. The Namurian Millstone Grit Series
- 3. The Lower Coal Measures
- 4. The Middle Coal Measures
- 5. The Upper Coal Measures

Each can be described briefly giving typical lithologies and structure.

1. The Dinantian Series

These rocks entail a sequence of intellated dominant limestones and dolomites and thin laminar calcareous shales. They occur this outcrop at the northern rim of the County Borough and have been a sourceconfimercially extractable minerals for industrial use. Almost athe rocks were deposited in a shallow water environment and have been both diagenetic and tectonically altered.

In this area the Dinantia Carboniferous Limestone) sequence can be further divided into

- a) Lower Limestone Shale
- b) Oolite Group
- c) Llanelli Formation
- d) Dowlais Limestone
- 2. The Namurian Millstone Grit Series

This sequence can be furtherivided into three groups:

- (a) Basal Grit
- (b) Shale group
- (c) Farewell rock

The three groups comprise a succession of the su

3. The Westphalian A Lower Coal Measures

The sequence the Marine bands. Within the include economically important metallurgical coals and ironstone facies more pronounced coals, all of which

Middle and Lower Coal Measures addition large portions of the aquifer have been dewatered due to pumping associated withing, this has resulted in a lowering of water levels, when pumping eases wateels can rise significantly. The Pennant Sandstones are very hard and dense, as a result they have a low porosity of around 2%. Where there is calcite and silica cementation asust ref folding and faulting, the porosity is lower. The permeability to fe sandstones is as a result of natural joints and fissures and resion zones caused by mining.

The Middle and Lower Coal Measures have do porosities. A significant amount of rainfall infiltrates the Upper Coal Masures (up to 250m/amnum) to become groundwater. For the Lower and Middle Measures this figure becomes 150mm/annum. Only 5% of this waterpismped out, the remainder contributes to the baseflow of the rivers which cross the coalfield valleys. These baseflows emerge as springs in the valleys. Yields from Coal Measures are variable, the highest yields are obtained from the valley side of and 101 fare Yields from the Middle and Lower Coal Measures rarely exceed 1 1/s. The chemistry of the groundwater also varies. It may have total dissolved solids or it may be highly mineralised. Nonetheless South Wale to be of a potentially potable supply. The water from the Upper Coal Measures is of sufficiently high quality to be of a potentially potable supply. The water from the Upper Coal Measures is of sufficiently high quality with low pH, high dissolved solids and a possibility of sulphuric acid.

In the Millstone Grit, which is found arounded periphery of the Coalfield, water moves through secondary discontinuities therefore exhibits a higher permeability. Yields from boreholes appear to be the range of 10-121/s, particularly those associated with faults. This sequence is really used as an aquifer, although it does recharge the Carboniferous Limeston quifer. Water quality is normally good, relatively soft with total dissolved solide fless than 200 mg/l.

Of the limestone groupings listed above; thower Limestone Shale is a dark grey mudstone interbedded with bioclastic limered in its lower sections. It is locally represented by the Cwmyniscoy Mudstoreme 35m thick and and just impinging on the northern boundary of the county borouth is is overlain to the south by the Oolitic Group, a sequence of grey ool increastone with thinly bedded dolomitic limestone and outcropping locally as the Abercriban Oolite between the Nant Trefil and Duke's Table. It is about 25m thing the locality. The Llanelli Formation, a thin (about 10m) band of sandstone and oolitic limestone is separated by unconformities from this and the overlying main limestone unit, the Dowlais Limestone. The Dowlais Limestone is a thick sequence (some 90m) of well-bedded, grey, bioclastic limestone with thin shaheerbeds cut by the **S**iowy fault, running parallel to the valley.

The main permeability of the Dowlais Limestone is probably due to a combination of solution features and partial dolomitisation the upper layers which has given them a brecciated nature. There are 2 main springs arising from this horizon which feed the Shon Sheffrey Reservoir that isadem upon for public water supply. The Environment Agency Wales has draws ource Protection Zone around the catchment to this supply. Soils are thrinthe area, with recharge also occurring

through sinkholes, and the average fective precipitation is 748mm/a. It is estimated that the spring discharge is in the range 7,000 - 10,000 M1/a.

The till which lines the Coalfield valleys generally less than 15m thick. Its main hydrogeological significance is that it limits and coefirecharge within the underlying formations.

Alluvium floors most of the river valleys al peat is present in the north of Blaenau Gwent Yields are less than 5 1/s from the rialluvium but peat provides a local source of river baseflow.

3.3.1 SOIL CLASSIFICATION

Soil classification for Blaenau Gwent indieatthat the borogh is covered with predominantly coarse textured, shallow soils which readily transmit non-adsorbed pollutants and liquid discharges, but which have some ability to attenuate pollutants because of their clay or organic matter **conts**. Soil classification in urban areas and areas where mineral extraction is currenthas occurred is more difficult to determine with precision. A worst-case vulnerabilityselfacation of high permeability is assumed for these areas that assumes that they will readily transmit liquid discharges because they are eithelicshap r susceptible to apid flow directly to rock, gravel or groundwater. Throughout the borough, low permeability drift deposits occur at the surface comprising of mostly alluvium and peat

Table 4

3.5.1 WASTE MANAGEMENT FACILITIES

The following Table 5 outlines the current waste management facilities licensed by the Environment Agency to operate within Blaenau Gwent.

Table 5

	Turne	01
Facility	Туре	Status
Jukes,Landfill Hafod Y Dafal,Farm,	A6-Landfill taking other	Non
Aberbeeg, Blaenau Gwent NP3 2ER	wastes	Operational
Cwm Civic Amenity Site, Beechwood	A11-H,C&I Waste	Operational
House,Cwm,Ebbw Vale,Blaenau Gwent NP3	Transfer Station	
6PZ		
New Vale Civic Amenity Site, Waun-Y-Pound		Operational
Industrial Estate, Cwm,	Transfer Station	
Ebbw Vale,Blaenau Gwent, NP3 6PZ		
Bourneville Civic Amenity Site, Abertillary,	A11-H,C&I Waste	Operational
Blaenau Gwent,NP3 3DN	Transfer Station	
Waunllwyd Landfill Site,Cemetry Road,	A1-Co-Disposal Landfill	Operational
Waunllwyd,Ebbw Vale,Blaenau Gwent,	Site	
NP23 4TN		
J V Johns, Plots 4,5, Hall Street Industrial		
Estate, Victoria, Ebbw Vale, Blaenau Gwent,	Station	Operational
NP3 6UF		Surrended
Llanhilleth Industrial Estate, Abertillary,NP3	A11-H,C&I Waste	Operational
6UF	Transfer Station	
Cwm Treatment Plant,Cemetery	A16-Physical Treatment	Operational
Road,Waunllwyd, Ebbw Vale, Blaenau	Plant	
Gwent NP3 6PZ		
Thomas Waste Management, Plot4-5-6 Hall	A9-Special Waste Transfe	rOperational
Street ,Victoria ,Ebbw Vale,	Station	-
Blaenau Gwent, NP23 6AT		
Family Pet Crematorium Unit 1 Blaenant	A18-Incinerator	Non
Industrial Estate, Blaenavon Road, Brynmawr,		Operational
Blaenau Gwent,NP23 4BX		Surrended
	H=Household	

H=Household C=Commercial I=Industrial

3.5.2 REGISTER OF CLOSED LANDFILL SITES IN BLAENAU GWENT

The following Table 6 identifies the sites whe the local authority are aware that

There are also 7 Scheduled Ancient/Miments within the borough. The Gwent-Glamorgan Archaeological Trust also **dis** records on over 600 sites within the borough. These sites will also be recognised sensitive receptor where appropriate within the Strategy.

3.5.5 MINERAL EXTRACTION

There is currently 1 active hard roqkarry in the County Borough , North of Tredegar at Trefil.

3.5.6 KNOWN INFORMATION ON CONTAMINATION

The authority has recently historical map information from Landmark, a subsidiary of the Ordinance Survey. This informanti, which stretches back almost 150 hundred years, provides historicalata on the previous land usefs the whole of Blaenau Gwent. It enables the idefication of potentially contaminated sites based on known polluting activities.

By overlaying these historical maps on cotr@.S. maps an image can be produced, which shows areas of the Borough where there is potential foothetant, pathway, receptor link to exist. This exercise haseb carried out to identify all those potential contaminated sites, and, as part of thetic uation of the Phase 1 investigation the identification of incompatible previous and existing use will continue.

3.5.7 ACTION ALREADY TAKEN TO DE AL WITH CONTAMINATED LAND

There are several sites within the use Borough which have a history of contaminative usage that have since beened biated to a standard that makes them suitable for their current use. These since suites use the former British Coal Workshops at Tredegar and the Dunlog meter site at Brynmawr.

Whilst close liaison between developer, consultants and local authority officers will have ensured that remediation of the **sessineans** they no longer present a risk, as part of this strategy a review of all the mediation work completed at these sites will be carried out.

3.5.8 REDEVELOPMENT HISTORY

The local authority, has always strived to redevelop brownield sites through the use of planning conditions and appropriates sessment to identifying possible contamination. This has been assigt close cooperation and funding from the Welsh Development Agency. The control set he redevelopment of these sites has always involved close cooperation with the Development Control Section and this working relationship will be strengthened with the implementation of the Part IIA regime.

As well as this ongoing inspection, where a potential site becomes highlighted for immediate attention, records will be checkas a matter of course for potential Authority ownership. The Authority will not assess its own land any differently than other land within the Borough.

4.1.2 EVIDENCE OF ACTUAL HARM OR WATER POLLUTION COLLATED AND REVIEWED

Actual harm will be determined with ference to Tables A and B, shown in appendices A and B taken from the DETROUAR 02/2000 Annex 3, Chapter A, Part 3. These tables detail categories ghisticant harm and also what constitutes significant possibility of significant harm.

The Authority will as part of its inspection occess assess each potential site for water pollution with reference to source protect zones and groundwater vulnerability issues. The Authority intends to liaisessely with the Environment Agency on this matter. If the Authority is made awarehout or water pollution issues, it will have regard to procedures set out in Section 5.00 to the definitions of significant harm as shown as Appendices A and B.

4.1.3 RECEPTORS IDENTIFIED FROM TABLE A (FROM THE DETR GUIDANCE)

Once all potentially contaminated sites have been identified the receptors shown below will be identified to determine poble links between the two. This work will be completed by April 2003.

- a) Residential development with garden
- b) Allotments
- c) Residential development without gardens
- d) Schools or nurseries
- e) Agricultural land
- f) Land in amenity use e.g. Parks/Playgrounds
- g) Commercial or Industrial
- h) Protected Habitats
- i) Heritage Sites
- x In addition there are also surface water and groundwater features.

4.1.4 ASSESSMENT OF RISK IDENTIFIED RECEPTORS

The risk to receptors will be assessed withinks prioritisation model which will be run within the 18 months of the strategy implementation.

This will prioritise the level of risk in retion to the type of receptor. The Authority has biased its risk prioritisation modelwards the protection of human health.

In recent years the Interdepartmer **Ca**mmittee on Remediation of Contaminated Land (ICRCL) Guidance has provided trigger for certain contaminants. These values are based on concentration levels for soils below which there is presumed insignificant risk to human health and otheceptors, and above which there may be required some form of remediation. The trave also been the DutchIntervention Values (DIV) available, however the use of these values may not necessarily be applicable for conditions within the Boroug New contaminant guideline levels have been published through the "Contaminal traded Exposure Assessment (CLEA) Risk Assessment Model for Human Health". These guideline levels will form the basis of the risk assessments carried out.

PROCEDURES

5.0 INTRODUCTION

The inspection of land for contamination **iseli**y to generate large quantities of site specific data. In order to **sure** this data is managedain appropriate manner this chapter sets out the procedures for its use.

5.1 INTERNAL ARRANGEMENTS FOR THE INSPECTION AND IDENTIFICATION OF CONTAMINATED LAND

5.1.1 DEPARTMENTAL CONTROL

The Director of Environment and Development has ultimate responsibility for ensuring the implementation of the legislative requirements relating to contaminated land. The Team Leader (Pollution and GehServices) of the Environmental Health Section, will have the day-today responsibility for the iplementation of the strategy under the direction of the Divisional Manager Environmental Health and Trading Standards. The authority to serve notices will be delegated to the Divisional Manager and all information which is relevant to investigation of contaminated land will be forwarded to the Executive and Scrutiny Committee when appropriate.

All inspections will be careid out in accordance with the latest technical guidance and best practice documentation publications have ben listed in Appendix C.

5.1.2 PLANNING AND BUILDING CONTROL

Documentation relating to previous acudrent land use within the planning and building control sections. Previous site usagill be an important tool in determining potentially contaminated sites and this information will be assessed in conjunction with the Landmark Historical map information.

5.1.3 LEGAL SERVICES

Drafting and service of remediation netsic will be done in conjunction with the authorities legal services section. The Estates Section of the Chief Executive Department will be consulted in relation to land ownership and the demarcation of land boundaries.

5.1.4 COUNCIL OWNED LAND

The Council is responsible for a majand holding in the County Borough. The Council has been responsible for potentially contaminated uses such as landfill operations. Therefore, the Council will be the propriate person' by virtue of either having caused the contamination or being the landowner. All with be dealt with

in such a way as to encourage confideinder regime and show consistency in enforcement and Council land will be identified and dealt with in the course of activities associated with the implementat Part IIA. When such land is identified the responsibility for remediation actionill rest with either the individual Department whose actions caused the cointation or that Department which owns the land. The regulatory duties of the Council be kept clearly separate from the responsibilities that may acisas landowner or pollute The Council supports and will encourage the voluntary remediation and, including that for which the Council may find itself responsible.

5.1.5 THE PUBLIC REGISTER

The Council is required by the Part II Agridations to maintain a Contaminated Land Register that is accessible to the generalic ut he Public Register will be held at the Department of Environment & Developm offices at Enterprises House, Rassau Industrial Estate, Rassau, Ebbw Vale. It will be in a paper file format and will be accessible by appointment to members of the public during hours Monday to Friday, excluding public holidays.

The information to be recorded on the contarted land register is clearly stated in the regulations and will include:

- x Remediation notices;
- x Details of site reports relating tomediation notices obtained by the Council;
- x Remediation declaration, remediatioatements and notifications of claimed remediation;
- x Designation of "special sites"
- x Appeals lodged against remediation and charging notices;
- x Convictions.

Whilst the register must be accessiblence general public, it is considered that because of the likelihood of its versatileture it should be a controlled document. As such the photocopying, reproducing (otthem handwritten notes) and publishing of extracts of the register will not be address without permission of the Council.

5.2 INSPECTION PROCEDURES

5.2.1 SITE PRIORITISATION

The authority will determine an organised approach to the identification of contaminated land, and will be prioritised on the following basis. This prioritisation will form the basis for more detailed instigation. The timetable for the inspection programme is given in Section 4.

CRITERIA FOR SELECTING AREAS AND INDIVIDUAL SITES

Sites that are contaminated will be classified in one of four categories:

PRIORITY CATEGORY 1

Site probably or certainly not suitabler current use and environmental setting. Contaminants probably, or certainly, presend likely to have an unacceptable impact on key targets (receptors). Urgreentediation action needed as land has been determined as contaminated in the context art IIA of the Environmental Protection Act (1990).

PRIORITY CATEGORY 2

Site may not be suitable for current **ussed** environmental setting. Contaminants probably, or certainly, present and likedyhave an unacceptable impact on key targets. Urgent investigative action needed in the short term to determine whether land is contaminated in the context of tHaA of the Environmental Protection Act (1990).

PRIORITY CATEGORY 3

Site considered as suitable for current and environmental setting. Contaminants may be present but unlikely to have an unacceptable impact on key targets. Action not required whilst the site mains in present used/or otherwise undisturbed. Monitoring activities may be put in place.

PRIORITY CATEGORY 4

Site considered as suitable for current and environmental setting. Contaminants may be present but they are very unliked have an unacceptable impact on key targets. Action not required whilst the sitemains in present use and/or otherwise undisturbed ..

These categories and the methodology behind the prioritising of sites are based on: The Department of the Environmental Caminated Land Research Report CLR6 (1995) 'Prioritisation and Categorisati Procedure for Sites which may be Contaminated'.

The prioritisation of sites is based on **these**essment of hazards and their potential effects on receptors. By utilising Ordnance way maps the previous usage of a site

Authority shall use local nowledge, local contacts and through reference to directories and other sources of information, such as

x Uk Land Registry www.landregistydirect.gov.uk

Prior to making a formal determination of Contaminated Land under Part IIA the Authority intends to request advice from various consultees regarding the appropriateness of other stated powers for dealing in identified circumstances.

As previously noted, in determining wh

Objective Comprehensive

And it:

Explicitly considered uncertainties Provides a rational basis for consulting on proposals with the stakeholders.

Site investigations will need to address the following:

- 1. The identification of the sources of contamination
 - x location of contaminant
 - x nature of contaminant
 - x concentration of contaminant
- 2. The identification of the pathways
 - x site topography
 - x soil/rock permeability
 - x joint/bedding systems
 - x man-made pathways (shafts, culverts, pipes, backfill etc.)
 - x surface drainage channels
- 3. The location of sensitive receptors
 - x depth to groundwater
 - x proximity of surface water continuity with waterways
 - x location of any extraction points
 - x location of any SSSI's
 - x other receptors

The authority's phasing of site investignativill consists of the following steps:

- (a) A desktop study for the collation aassessment of available information,
- (b) A site visit to the particular area **fbr**e purposes of visual inspection and, in some cases, limited sampling (for example of surface deposits),
- (c) A main intrusive investigation of land (for example by exploratory excavations (trial pits of the sinking of boreholes).
- (a) DESKTOP STUDY

The purpose of the desktop study is to pull **tbg**eall available **isit**orical, geological, hydrological and other relevant informanti relating to the site and the surrounding area. The main purpose of tblesktop is to determine:

- x The use for which the site may have beebjected in the past which in turn provides and indication othe types of contaminants which may be present,
- x The hazards associated with the contaminants and the precautions that should be taken during any site visit or in **vigs**tion to minimise health and safety risks for the investigators,
- x The potential locations of any contianant hot spots (high concentrations) such as storage, traesfor disposal sites,
- x The location of any known spillages or leakages
- x Factors affecting the possible movement contaminants such as soil type, structure, hydraulic conductivity, depto groundwater, site gradients and paths of least resistance (pipelines, sewers, cables etc.)
- x Factors that might influence or limithe position of sampling points for obtaining soil, water or gas samples g. the location of obstructions such as hard surfaces, buildings, services or underground structures,
- Environmentally sensitive receptors in the vicinity such as residential homes, buildings with basements, surface water
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Х

phase

- x Surface water
- x Atmosphere above the ground surface
- x Any fluids in culverts or drains
- x Any contaminated structures

The sampling will aim to

- x Confirm suspected sources of contamination
- x Identify unknown sources of contamination
- x Determine types and concentrations of contaminants
- x Determines the lateral and vertical spread of contaminants
- x Provide sufficient data to determine suitable remedial measures if necessary.

The major items to consider when determining the sampling regime will be:

x Analytical requirements – e.g. criteria

The location of sample points should **alake** into account thesfactors likely to influence the distribution (omigration) of contamination across the site. These include any history of spills, site gradiengeology and hydrogeology (soil structure, permeability and direction of groundwateovement) and the location of any foundations, subsurface pipelineables, conduits or voids.

The location of sampling points can be ended in the same of the sa

5.2.8 HEALTH AND SAFETY PROCEDURES

The varied health and safety procedures appeiring to contaminants will be reviewed and implemented for each site as an den whuman contact with a contaminant is anticipated such as during intrusives estigation. Protection from hazardous substances will be based on:

- x hazard avoidance
- x hazard control and
- x personal protection from the hazard.

Prior to any site visit it will be necessary review information derived from the desktop study in order tossess any health and safestspues that may affect any council officer and others attending.

This assessment will be based on knowformation at the time of any on-site contaminants or land/water hazards here from past land use and associated potential contaminants.

Special consideration will be very where gas might be present and with other hazards such as time shafts, wells, underground constructions and unsafe buildings.

The Environment Agency rather that the thocal Authority becomes the enforcing authority for land designated as having 'spesite' status. Where there is evidence to suggest that controlled waters being polluted by contaminated land the Environment Agency will work alongsidand in consultation with the Local Authority. Certain groups of contaminates the presence of aquifers and ground water source protection zones, are highlighted regulations for the consideration of special site status.

5.3 POWERS OF ENTRY

Entry onto land will be required in order destablish if contamination which presents a risk exists. If this land is owned by the local authority time agreement with estates section and other departments formal permission will not be needed to enter. However, if that land is under private **per**ship then powers of entry under section 108 of the Environment Act 1995 may be used order to gain the right of entry the authority must be satisfied that:-

x there is a reasonable possibility that ollutant linkage exists on the land.

Where the land is occupied by resit**leh**property, or where heavy plant or machinery is to be brought on site, there we have a written notice must be given. Where no consent from the land owner is given then a warrant from a Magistrate can be sought.

Chapter 6

INFORMATION MANAGEMENT

6.0 INFORMATION SOURCES

A wide variety of information sources where considered during the determination process including:

- x OS and other historial maps and plans;
- x Geological and environmental information and plans;
- x Information provided by statutory consultees;
- x Council records;
- x Industry Profiles published by DEFRA.

The designation of contaminated land will be based on best available evidence.

6.1 INFORMATION COLLECT ION AND EVALUATION

INFORMATION COLLECTION

As outlined above there are many differentineses of information that are relevant and useful in investigating the potential sces, pathways and receptors. Table 8 outlines the data sources the data be utilized and its use.

INFORMATION ON HARM

The information on actual harm, or pollouti of controlled waters, will be sourced from files within the Environmental Health Section, Legal and Planning Sections of the authority, historical land use data data provided by the Environmental Agency together with water service provide the categories of 'harm' to receptors include:

- x Harm to human (users and occupief land, people living near the land through exposure to substances such as asbestos, toxic chemicals, carcinogenic material.
- x Harm to the environment which may have implications for ecosystems.
- x Harm to water quality (surfacend ground water), particularly when considering controlled water.
- x Direct physical harm to animals da humans through hazards such as explosive or asphyxiating gases from dfill and/or hidden toxic waste.
- x Harm to structures, for examplætbhemical decomposition of building materials (water born or air born c**ant**inants), fires and explosions from waste material in landfill.

Table 8Shows Information held within the Authority to date that will be
used in Compiling in the Identification and Assessment of
Contaminated Land.

Data Source	Comments	Use
OS Historio5p-Maps ata S		

Location of LNRs, SINCs and SLA Sites

6.1.4 INFORMATION AND COMPLAINTS

A complaint regarding contaminated land will be dealt with in the same manner as those received by the authority's Envircemtal Health Section for other matters considered as a 'statutory nuisance'.

Complainants can expect:

- x their complaint to be logged and recorded,
- x to be contacted by an officer regardimeir complaint within five working days of receipt, and
- x to be kept informed of progretsswards resolution of the problem.

In the context of contaminated land **anno** annotation, who may be the 'appropriate person', has the right to a papel to a magistrate court against a remediation notice issued by a local authority within twenty-one days.

Every effort will be made to resolve **rop** laints quickly and efficiently. The legislative framework does, however, presenumber of obstacles to the speedy resolution of problems:

- x the need for proof of a pollutant linkage
- x the need to consult with stakeholders
- x the designated process of issuing remediation notices
- x the requirement to make every effort**loc**ate the original polluter (or 'Class A' person)

6.1.5 DEALING WITH ANONYMOUSLY- PROVIDED INFORMATION AND ANECDOTAL EVIDENCE

The council does not normally undertakeestigation based on anonymously supplied information. In exceptional aimestances, an investigation following receipt of such information may be undertakeAll information received will be dealt with in a manner that allows for determing credence without jeopardising a person's rights, or the spirit of a legitimate request for confidentiality. There may be some instances where confidentiality cannot be guaranteed due to the requirements of regulations under the Environemtal Protection Act. Theuthority will use its best endeavours to respond to reported contationaincidents in a manner that ensures protection of the environment and humanalth following an appropriate seeking and assessment of facts irreduced to the requirement.

6.1.6 VOLUNTARY PROVISION OF INFORMATION

All information received by the Council Web acknowledged and included in the decision-making process, however anonymboss pplied information and anecdotal evidence will be dealt with caution. Land that is identified as potentially contaminated by information received be evaluated and included in the programme of investigations. However, to ouncil will not be obliged to keep the organisation/persons informed regarding the gress of any actions associated with the information.

6.2 COUNCIL PROVISION OF INFORMATION

Where dealing with the generaliblic in written or verbalorm it is the policy of the Council to be open and transparent. Theilability of information will comply with the Environmental Information Regulations 1992. Where a written response is required to a contaminated land enquiry council will levy a reasonable charge proportional to the time taken to complete a response and any administration charges appropriate. Expedited enquiries and **tiddal** copies may incur additional fees.

6.3 INFORMATION AND DATA STORAGE

The successful management of infation generated as a result of the implementation of this strategy is crucials, this data will forn the basis of any decision made on declaring a site astaminated. Government guidance on good practice for the storage and holding of this data is coatned in the DEFRA document has been used the basis for the information management system to be utilised by this authority.

6.3.1 DATA STORAGE METHODS

Current information on contaminated landinisited to the Landmark database, which is a computer based system identifying padevious land usage within the authority. As the inspection of specific sites progress however, much more information will be generated through surveys and sampling investigations. This information will be used in the risk based assessments carried could ach site. The Environmental Health Section currently use two formats to storagestems will be used during the inspection process, as there are weaknessmets strengths in each (see below).

Paper System	GIS System
*	***
*	***
*	***
est	***
***	*
***	*
*	***
***	*
*	***
	* * * * * * * * * * * * *

(Key: *satisfactory, ***excellent)

The quality control and security of the infoation collected and stored will be carried out in accordance with the councils process and the requirement of the Data Protection Act 1998.

6.4 GENERAL LIAISON AND CO MUNICATION STRATEGIES

6.4.3 LIAISON WITH OTHER LOCAL AUTHORITIES

The South East Wales Liaison Group for contaminated land has been established representing all the local authorities withins area. Its purpose is to disseminate information, share ideas on best practice to liaise and discuss specific issues which effect adjoining authorities. Theograp currently meet on an 2 monthly basis. Urgent issues are dealt withetween the authority contacts by telephone or e-mail as they arise.

6.4.4 LIAISON WITH STATUTORY BODIES

At the local level the Environment Agenbas nominated 'Area Contacts' within their Contaminated Land team who will be **frist** point of contact for the Authority. The Authority also falls within the Walesgien the contact details of which are given below:

Regional Office Environment Agency Wales Abacus House community of the Authority's intention and to allow them to comment on the

7.3 REVIEW OF THE INSPECTION STRATEGY

The Authority will review the inspection steagy to ensure that it represents an efficient use of resources and is effect in meeting the requirements of the legislation.

The inspection strategy will be reviewed osixe monthly basis for the first full year of operation. If this is found to be working satisfactorily following the first year of operation i.e. following the two reviews, eth the inspection strategy will then be reviewed on a yearly basis.

The purpose of the reviews is to assist the ongoing progress and any work being carried out at the time. The reviews will also examine the priorities laid out – in case any investigations have brought landt tention needing great priority. The Authority recognises that reviews may frequired in light of new information including:

- x Significant changes in legislation
- x Establishment of significant case law or other precedent
- x Revision of guideline values for exposure assessment

If any of the above points required immediate action a review meeting will be arranged to discuss that **piaul**ar point before the nextcheduled review. Arranging these meetings will be the responsibilitytoof strategy co-ordinator and to whom issues requiring urgent antition must be addressed.

7.4 AUDIT OF INSPECTION PROCEDURES

The validity of purchased data and recorderal knowledge used ithe initial survey and data collation processing will be valied by site inspections undertaken by a qualified officer of the council. The deveriment of an audit predure to establish the accuracy of data and reports held they authority will be undertaken once the programme of further work, resource apption and general rategy implementation has occurred post October 2002

APPENDIX A

		 the basis of relevant information concerning: x That type of pollutant linkage, or x That type of significant harm arising from other causes.
3	All ecological system effects	If significant harm of that description is more likely than not to result from the pollutant linkage in question, taking into account relevant information for that type of pollutant linkage,

Appendix C

Reference documents

- x Part IIA, Environmental Protection Act 1990
- x DETR. Contaminated Land Inspectionalegies: Technical Advice For Local Authorities 2001.
- x The National Assembly for Wales. Rediation of Contaminated Land 2001.
- x The NationalAssembly for Wales. Enominmental Protection, Wales. The Contaminated Land (Wales) Regulations 2001.
- x The Environment Act 1995
- x The Environmental Information Regulations 1992
- x Planning Guidance (Wales) May 1996
- x The Environment Agency, LGA. DEFRA, CIEH, Local Authority Guide to the Application of Part IIA of the Environmental Protection Act 1990
- x WDA. The Remediation of Contaminated Land 1993
- x SNIFFER. Report SR (97) 11F. Commu**ning** Understanding of Contaminated Land Risks. 1999
- x DoE. CLR Report No. 6: Poritisation and categorization procedure for sites, which may be contaminated. 1995
- x DoE. CLR Report No: 5: Information systems for land contamination. 1994
- x Construction Industry Research & formation Association (CIRIA) 078-Building on derelict land. 2001.
- x DoE. Industry Profiles
- x BGCBC. 1996-2011 Unitary Development Plan.
- x Environment Agency. Policy and Practi BGroundwtedr Vulnerabilty G1:100,002Mayp Seris

APPENDIX D GLOSSARY OF TERMS

Brownfield Site	Land that is or was occupid by a permanent structure associated fixed surface infrastructure.	
Contaminant	A substance which is in, on onder the land and which has the potential to cause harm or ba use pollution of controlled waters.	
Contaminated land	Any land which appears to the local thority in whose area it is situated to be in such andition, by reason of substances in, on or under the land, that a)Significant harm is being cased or there is a significant possibility of such harm being caused, or b) Pollution of controlled wate is being, or is likely to be caused.	
Controlled Waters	Defined within s104 of WateResources Act 1991 it includes territorial, coastal, inlantfesh waters and groundwater.	
Current Use	 Any use which is currently beimgade, or is likely to be made, of the land and which is consistewith any existing planning permission, including a) any temporary use permitted under the TCPA legislation b) including future uses or delopments which do not require a new or amended graot planning permission. c) Any likely informal recreational use of the land with or without the owners consent. d) In relation to agricultural had, the current use should not be taken to extend beyond the grongior rearing of crops or animals, which are habitually grown or reared on the land. 	
Derelict land	Land where former structuresano longer in use and are in a general state of ruin or disrepair	
Greenfield site	Undeveloped land in its igginal or natural state	
Harm	Harm tot he health of livin g rganisms or other interference with the ecological systems of ich they form part and, in the case of man, includes harm to his property.	
Pathway	One or more routes or means by which a receptor is a) is being exposed to, or affected by, a contaminant, or b) could be so exposed or affected	
Pollutant	A contaminant which forms part of a pollutant linkage	
Pollutant linkage	The relationship between a contaminant, a pathway and a receptor	
Pollutant of controlled waters	The entry into contribed waters if any poisonous, noxious or polluting matter or any solid waste matter.	
Possibly significant of harm	A measure of the probability, trequency of the occurrence of	
Receptor	Either;a) a living organism, a group of living organisms, an ecological system or a place of property which	

	 i) is in category listed in Table A (see Appendix A) as a type of receptor, and ii) is being, or could be, harmed by a contaminant or 	
	b) controlled waters that abeing, or could be, polluted by a contaminant.	
Risk	The combination of:	
	a) the probability or frequence of a defined hazard and	
	b) the magnitude or seriousness of the consequences	
Significant Harm	Means any harm which is determined to be significant in accordance with harm defined in Table A (see Appendix A)	
Significant	A Pollutant linkage that forms the basis for a determined that a	
Pollutant linkage	piece of land is contaminated land.	
Significant	A possibility of significant harm being caused which is	
possibility of	determined to be significant accordance with the statutory	
significant harm	guidance (see Appendix B)	
Substance	Any natural or artificial subtance, whether in solid, liquid,	
	gaseous or vapour form.	

APPENDIX E REVIEW OF CONTAMI NATED LAND STRATEGY

REVIEW OF CONTAMINATED LAND STRATEGY 2003

This report has resulted from the annual **encode** of the authorities contaminated land strategy. This review has now been cortender 2003 and as a result of information on the potential number of combinated sites within the orough changes have been made to the inspection timetable of the strategy.

The 2002 timetable for the implementation frategy is set out below:-

- Complete the examination of historisiate data and enter all information onto the GGP and land mark historical mapping system by January 2003.
- To carry out preliminary site visitend differentiate between private land authority owned sites by April 2003.
- Identifying all the sensitive receptdisted within Table A of the statutory guidance in association with the categorof potentially contaminated sites by April 2003.
- Undertake risk assessments to placentially contaminated into priority categories for detailed inspection Appril 2004. This will include local authority owned land.

These timescales will be subject to an annual review.

The medium and low risk sites, totaly 1556 sites are currently undergoing further risk assessment to prioritiseth for detailed investigation.

This risk assessment utilises a computer software to assess the source – pathway – receptor link for each site and assigns each si

REVIEW OF CONTAMINATED LAND STRATEGY 2004

This report has resulted from the annual **eevo** f the authorities contaminated land strategy. This review has now been coeffed for 2004 and hase dified areas that need to be altered and improved. This has lead to alterations being made to the inspection timetable due to the high number of potential contaminated sites within the borough, and also the availaby ilof funding to carry ousite investigation work.

The following amendments have been made to the inspection timetable-

- x Undertake source-pathway-receptor riskessments on all medium risk sites, which have been categorised as suc**the**rbasis of their **p**evious or current land use. This work is to be completed by December 2005.
- x Undertake source-pathway-receptor **bisks**essments on all low risk sites, which have been categorised as suc**the**rbasis of their **p**ervious or current land use. This work is to **boe**mpleted by December 2006.
- x Subject to available funding, carry out matcessary site investigation work on all category one sites by December 2010.
- x Subject to available funding, carry oult made cessary site investigation on all category 2 sites by December 2015.

REVIEW OF CONTAMINATED LAND STRATEGY 2005

This report has resulted from the annual *evolot* the authorities contaminated land strategy. This review has now been completed for 2005 and has identified areas of progress in the inspection timetable at the source-pathary-receptor risk assessments for all potential contaminated land sites have been completed. As a result