

Design Statement in Favour of:

# Proposed Development Longnewton Farm, Nr Gifford

# 1.00 Introduction

The "Design + Access" statement has been prepared in support of the application for re-development of the traditional former farm steading + associated buildings, which conforms with the SPP 2014 encouraging the re-use of existing farm buildings.

The scheme concerns a currently vacant site which consists of a mixture of farm buildings varying from former grain stores, cattle courts, stables + vehicle garaging located near the village of Gifford.

The age + style of the structures varies greatly with some older structures being adapted for modern farming methods in the past, there are no listings on the buildings + all vary in condition + overall aesthetic quality.

This statement is provided to show the analysis of the historic fabric to ensure that important areas of the site are preserved and enhanced as part of the proposal. The buildings vary in overall quality which have been identified in the below drawing excerpt:



Green – denotes modern steel frame structures dating from circa 1990's onwards

Blue – denotes adapted structures dating form 1880's onwards, all of which have been severely adapted to suit modern farming use of large scale wide barns with steel frame + sheeted roofs.

Purple – denotes largely original 1880-1900's structures which are in varying stages of condition

To give further clarity the materials of each are as follows:

Green – steel frame structure on concrete pad foundations, concrete/hardcore floors with steel sheeted walls + roof.

Blue – external walls of former structures formed in stone with numerous alterations + intrusions, any internal structures have been removed to from wide clear cattle courts. The majority of stonework is in a poor condition with the main structural load resting on steel frames. All roofs are formed from varying corrugated sheeting materials with earth/stone floors generally throughout.

Purple – These form traditional narrow span steading structures with natural random stone walling with various window/door openings, all vary between single + double storey in height, all except a 2 storey section clay pantile structure are finished with natural slate on sarking.

The proposals aim to retain the valuable historic core of the steadings whilst removing the lesser quality structures to allow high quality contemporary new build structures aimed to retain the farm steading massing as well as complement the retained structures.

The structures ceased being used for every day farm use in the mid 2000's + had been farmed by the applicant's family continually from 1954 until then, forming the hub of a large mixed farm, which has been sold on some time ago + the buildings now have no feasible farming use.

Since then general repairs have been carried out on the building but all except the most modern structures are falling in to a low state of disrepair, suffering storm damage over the last 2 years.

# 2.00 Context

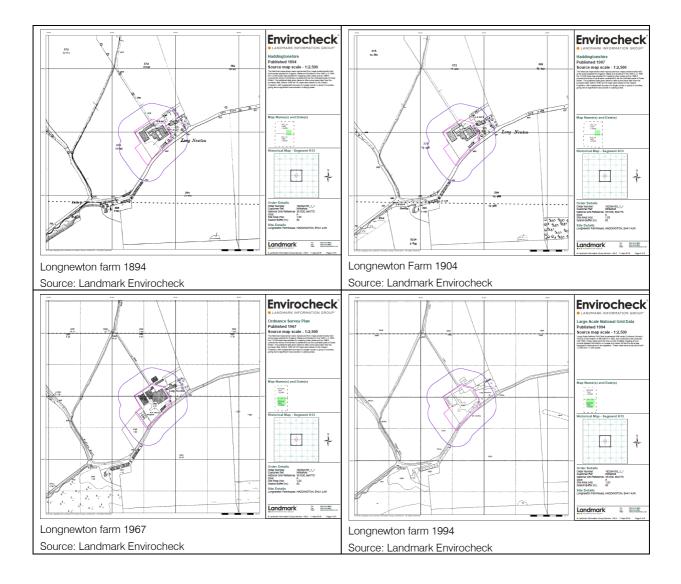
#### 2.01 Context - Surrounding Area/Setting

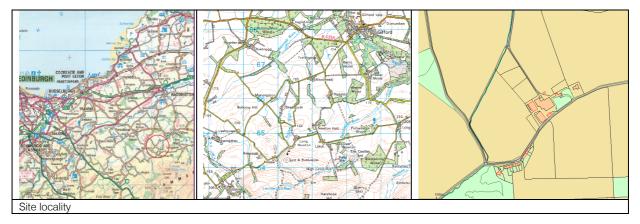
The site is located around 3 miles from the East Lothian village of Gifford + 20 miles from Edinburgh within mixed arable/pastoral farmland. The steading itself nestles into the landscape + adjoining domestic housing, forming a traditional representation of an evolved farm steading mirroring that of several nearby working farms.

The site is bounded to the North + West by pastoral farmland, to the East by the former Longnewton Farmhouse + its densely planted garden + the South by the unnamed Kidilaw-Longyester public road.

The existing buildings on the site vary greatly in age + quality. The overall footprints of the majority of structures date from circa 1890's (noted on OS Envirocheck 1894 map). Whether any of these predate this is unknown though based on the form + quality of structure it is expected that any forms prior to this would have been rebuilt, with several of the current building styles dating from around 1880-1890.

As previously noted a large section of these buildings have been adapted + modernised with only sections of external walls predating circa 1960's (highlighted on OS Envirocheck 1967 map) still being present, the vast majority of these are in very low condition.





#### 2.02 Context – Site History

The site has been a known developed cluster of buildings in farm use since 1854 this developed into a large scale farming concern, coming under estate ownership + providing both arable + pastoral farming with the main supply chain serving the city of Edinburgh + local network of traders.

The farm + its associated buildings remained in estate ownership until 1954 when the Whiteford family took over the running + thereafter ownership. The Whiteford family further developed the cluster of buildings making a number of the noted changes to accommodate modern farming methods, with the farm passing from generation to generation.

On the retiral of our clients who were the final farming members of the family the farmland was sold in the mid 2000's with the farm buildings being retained along with a section of pastoral/grazing land.

A Full Planning application was submitted in 2006 to redevelop the overall site into 16 units, primarily using sections of the original structures as anchor points with additions + conversions.

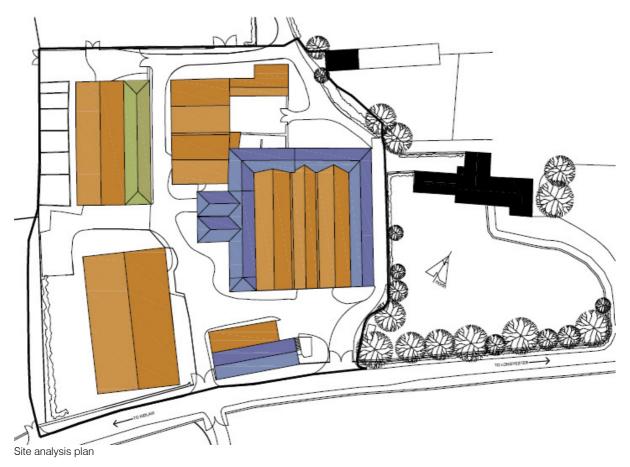
Since this time the site has been marketed with no interest due to the overall conversion costs associated with the existing building group, there have been a marked degradation of the structures since this time due to weather damage, our clients have attempted to repair + upgrade these but the structures are now failing + becoming unsafe to repair, as illustrated below:





The analysis plan below refers to the importance of the structures within the context of the site + surrounding area; it is clear though the buildings have differing ages that either the actual structure or aesthetic form provides a greater understanding of the site evolution.

Looking in more detail it is clear that depending on the structure limited original features of 1) remain or as with building 2) have been altered over the period of time.



Blue – structure of high importance Green – structure of medium importance Brown – structures of low quality/importance

# 3.00 Structure

The mixed condition of the structures are self-evident + listed in the structural report supplied by CRA Structural Engineers this balanced with low quality + damaged finishes result in sections of building which cannot be feasibly re-used.

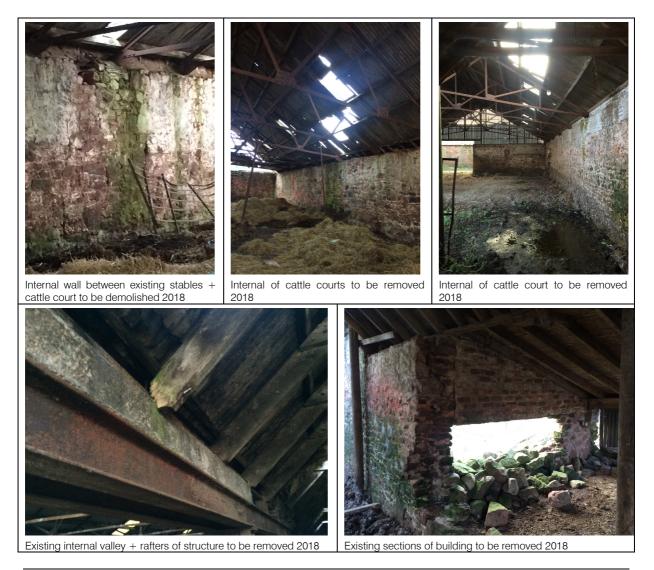
### 3.01 External Features



### 3.02 Internal Features

The internal fabric mirrors that of the external with a simple functional structure of mixed stone/concrete uneven floors forming the ground floor base

Walls are a continuation of the random coursed natural stone again to mixed levels of condition  $+ \ \mbox{quality}.$ 



# 4.00 Demolition + Regeneration of Surrounding Areas

As part of the overall scheme it is proposed to demolish the modern structures along with those seen as being structurally unstable leaving the aesthetically valuable core of steadings with the aim to create a setting that both regenerates the area but also ensures that the traditional farm steading aesthetic, mass + form are retained.

The initial works to remove the current structures raises the issue of both safety + protection of retained structures, this will be carried out by means of a 2 phase demolition plan which will be taken forward to the Construction Phase Health + Safety Plan.

The "site" as a whole including all buildings will be secured off + made safe prior to any demolitions.

Initially a site hoarding will be constructed to secure the site as below demolition plan.

It is proposed to carry out phase 1 of the demolition works by removing all structures that have been significantly adapted + in low levels of construction as well as removal of the modern structures to clear the development space as follows:

Phase 1

- Roof strip existing slate/tile roof my hand exposing roof structure below Carefully cut roof structure into sections for controlled mechanical removal by hi-ab or similar.
   Walls - Following removal main sections of walls + structure all to be removed in sections by mechanical grabber + limited manual removal. Sections of structure within 5m of retained structures to be carefully removed by hand +
  - Sections of structure within 5m of retained structures to be carefully removed by hand + manual labour to reduce any possible damage by mechanical operations. All to be removed to ground level + laid aside for re-sure on new structures.
- Protection On completion of the noted works hoarding to be extended to all exposed Boundaries to correlate a clear exclusion zone from any site works or traffic.

Phase 2

Demolitions will then take place including the demolition of the large industrial units, again this will be removed in sections from the specialist removal of the roofing material to the structure. All site works will be restricted for safe removal.



Fig 9: demolition plan to surrounding areas.

Only on completion of the above works would any controlled works be carried out on the retained structures. It is imperative that works on these buildings should be carried out in a controlled + concise

manner to ensure maximum protection not only form site works is carried out but also for the elements protecting the materials internally.

The 1<sup>st</sup> phase of this would be the removal of the roof finishes as follows:

slate with planning authority.

Asbestos Where present, to be removed by specialist contractor, work to be carried out from hydraulic platform such as cherry picker + fully scaffolded internally + externally allowing access to all areas of roof structure + protecting the internal frames. Slates/Tiles All roof slates/tiles to be carefully removed + stacked on site for re-use on completion of works, sample slate to be removed prior to any works to agree suitable matching

On reformation of the roof + protection of the structure all openings will be secured from weather + birds to allow a controlled conversion of the buildings in a phased manner.

# 5.00 Design Impact

#### 5.01 External Fabric

Conceptually, the scheme proposed has been considered in terms of limiting the effect on the retained courtyards whilst including the traditional courtyard forms throughout the new build sections, overall looking to return it to useful life. The mix of conversion + new build units is seen as the best viable proposal for the site to be redeveloped + the buildings of value retained for future use.

It is imperative that the significance of the retained structures is not undermined by the proposed adjoining buildings, by retaining the clear sightlines + courtyard appearance along with intertwining farm style tracks linking all sections we feel that the overall former farm structures will be further enhanced.

The formation of the traditional footprint "steading style of units 2 + 3 provide a cornerstone to the site + with the use of high farm walling at the main entrance to the site close off the vistas form the main public road using traditional farm forms to integrate this with the retained units of 1,7, 8 + 9.

This further links on via a low impact track to a small walled court area with linking driveways to units 4, 5 + 6 set within mixed berry hedged plots allowing the properties to be landscaped into the overall development in the lowest impact corner of the site, hidden by the mass of the main structures on the roadside.



Visual of proposed courtyard form integrating built form + soft landscaping

### 5.02 External Roof

It is proposed that all roofs will be formed to traditional pitches with a mixture of natural slate to all main roofs with subservient roofs finished in standing seam zinc, all will be finished with skewed ends finished in a mixture of natural stone + lead caps (depending on the adjoining wall finishes)

### 5.03 External Walls

All existing walls should be dressed back + re-built where required + repointed with lime mortar to match the existing structures.

All new walls are to be finished as shown with a mixture of the following:

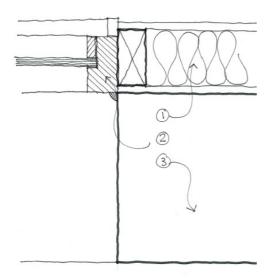
Natural stone – reclaimed from demolished structures to be built in random form to match existing walling forming deep reveals to all openings (150-200mm) + lime pointed, all walls where stopped before eaves level to be capped with precoloured steel capping to match windows/doors.

Timber Cladding – all cladding to be formed as shown with 60mm open jointed larch cladding formed with stainless steel nails in measured rows.

Render – new sections of render to be in precoloured k-rend or equal scraped finish to provide backdrop contrast to timber + stone.

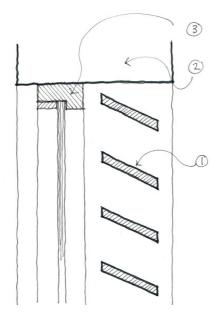
### 5.04 Doors + Windows

All new windows + doors are to be high performance double glazed units with frames pre-finished to agreed "estate" colour, all to forms + styles shown. It is proposed to maintain the character of the existing buildings + extenuate the opening rather than the infill of glazing to recess all windows + screens back into the new insulated frame, this both improves the thermal performance of the building + also exposes the full 550mm depth of flat stone reveal to each opening. Selected windows are proposed to have fixed timber louvres fixed to the external, both to provide privacy to neighbouring properties + to reduce the impact of large glazed sections on the overall development aesthetic, using a traditional farm steading form to do so.



- 1. New insulated internal leaf
- 2. New painted double glazed window
- 3. 550mm external stone jamb

Fig 10: proposed window jamb detail.



- 1. Hardwood timber fixed louvres
- 2. Natural stone walling
- 3. New painted double glazed window

### 5.05 Rooflights

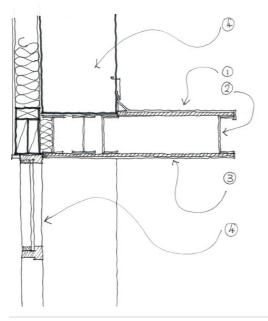
Each rooflight has been positioned to create maximum benefit to the internal space, this has been balanced against the external character + form of the buildings, they have been located to match the pattern already created by the existing openings of the existing buildings.

The rooflights are proposed to be "rooflight company" or equal conservation style rooflights ensuring the frame profiles are thinner than standard + inserted into the roof with low profile flashings to set the rooflight down level with the surrounding slates.

#### **Rainwater Goods**

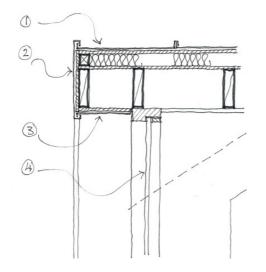
It is apparent that some buildings originally may not have been furnished with rainwater goods though have since been fitted with cast iron semi elliptical rainwater goods, we propose to re-fit the whole roof with painted cast iron guttering + downpipes as the roof structure is not interrupted we aim to retain single rainwater drops so not to leave the facades cluttered by services.

### **Entrance Canopy**



- 1. Folded seam Zinc cladding
- 2. Painted steel c section to outer edges
- 3. Zinc zladding
- 4. Double galzed window/door screen
- 5. Natural stone wall

### Dormers



- 1. Standing seam Zinc cladding
- 2. Folded seam zinc cladding
- 3. Zinc zladding
- 4. Double galzed window/door screen

# 7.00 Restoration + Materials

The overall appearance as noted in previous sections creates the intrinsic value of the building with the external + internal holding differing but equally important values.

As previously detailed the palette of materials proposed are aimed at retaining rather than altering the structure overall.

For simplicity each sections + materials are listed, this list covers the main elements of structure:

Roof	natural slate – re-use existing where suitable
	Source approved replacement matching clay tiles to all areas
	Haunching to be strong mix NHL lime mix
Rooflights	Rooflight company or equal conservation rooflights with recessed
	flashing kit, all in black.
Walls (external)	defective + cementicions pointing to be removed + localised
	lime/shail pointing to be carried out to match original, creating
	continual finish in material + colour.
Walls (internal)	Existing walls to be framed internally to create insulated fabric, existing
	walls to remain intact + unaltered behind, no skirting's or architraves.
Roof (internal)	Existing ceilings to be framed infilled internally to create insulated
	fabric, existing walls to remain intact + unaltered behind
Ground Floor	Existing uneven floors removed with minimal sub base, new insulated
	concrete floor formed
Windows + doors	fully glazed screens + opening sections, all finished with double
	glazing + painted timber frames in estate colour

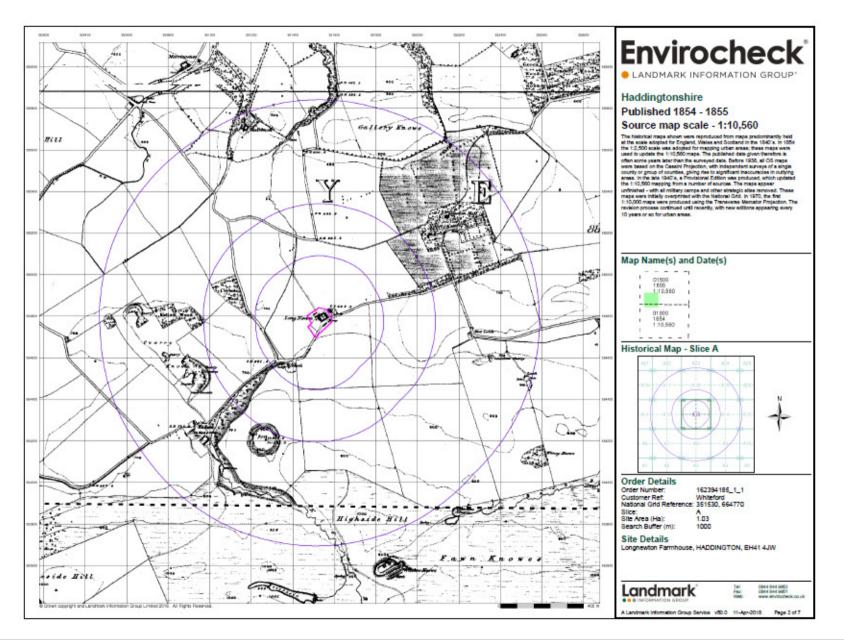
# 8.00 Conclusion

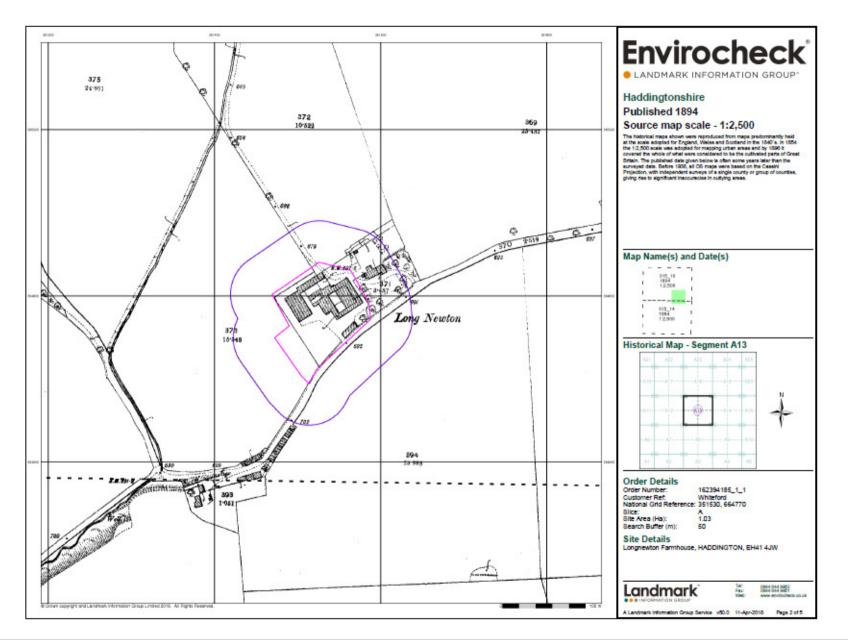
We have focuses the design + proposed structures + new materials to ensure the structure though being proposed to be domestic would ensure the structure still gives the story of "form, function + use" providing a simple design that retains the original farm steading feel to be retained.

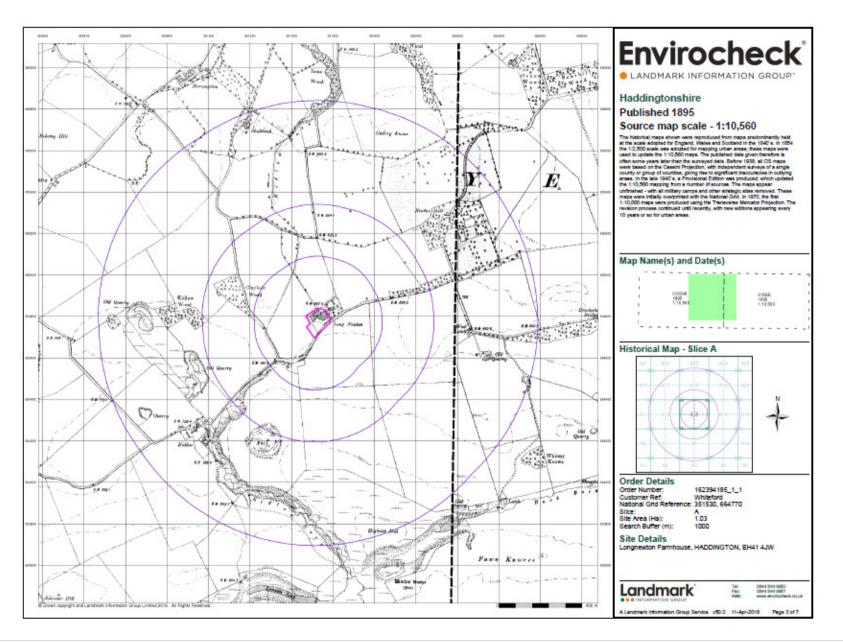
We feel that through the preceding analysis + reviewing all current policy + guidance that the overriding benefits to bring a cluster of derelict + building under risk back into use + provide long term security for the structure by the minimalist alterations we have demonstrated that this will provide "less than substantial harm" to the area + enhance the existing structures utilising it as a main cornerstone + feature to the larger regeneration of the full site.

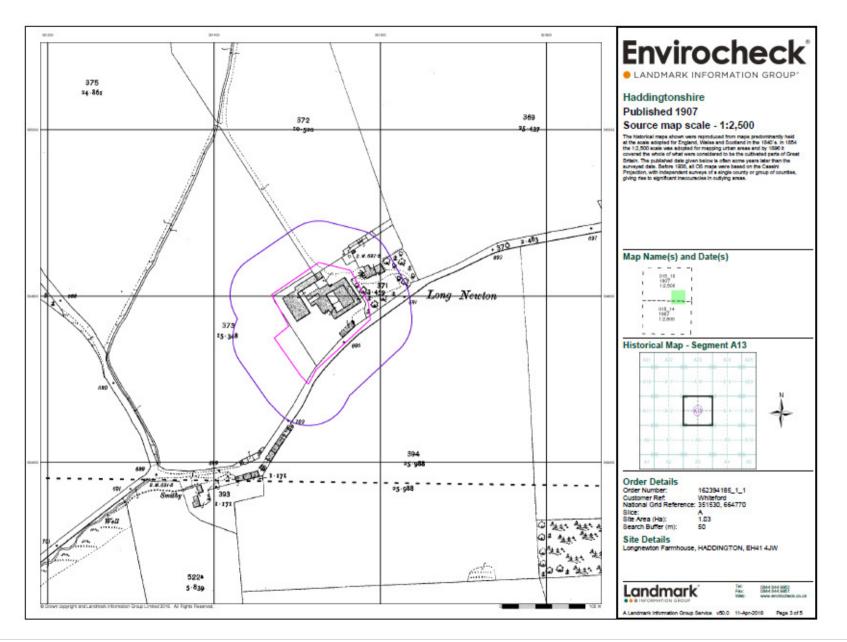
# 9.00 Supporting Information

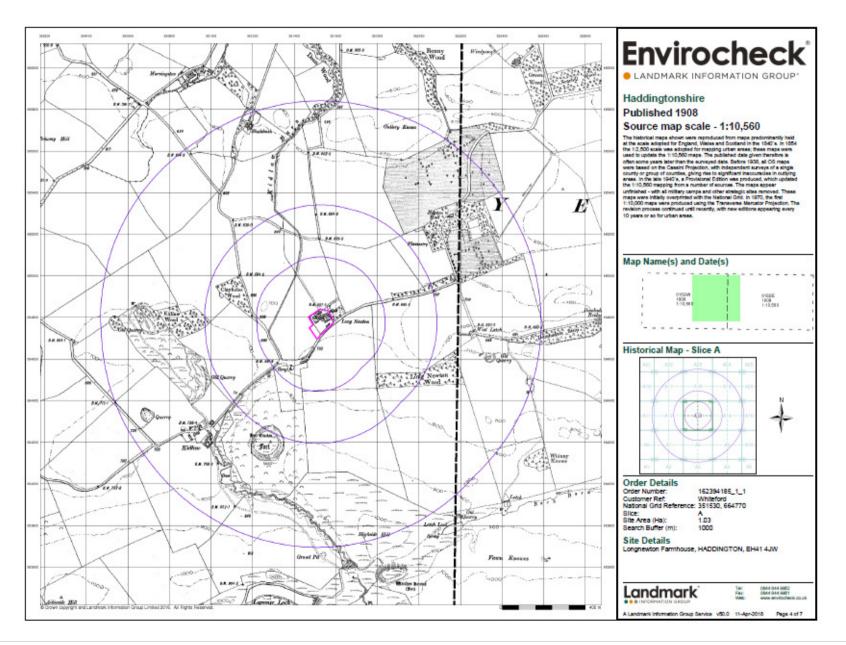
	Historical Mapping Legends	5	Envirocheck
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Celera Reeds Marsh	Refuse or Lake, Loch or Pond	Boulders (scattered)	Ordnance Survey Plan 1:10,000 1982
error Film er et.	Church Dunes	Shingle Mud	
Mixed Wood Decidaous Brushwood	ネネネ Coniferous ゆっの Non-Coniferous Trees	Sand Gallon Sand Pit	
		Top of cliff	
Fir Fuze Rough Pasture		General detail Underground detail detail Narrow gauge	
Arrow denotes a Trigonometrical	-us- Marsh WW Reeds -st- Saltings	Multi-track Single track railway	
How of water Station + Site of Antiguities + Bench Mark	Direction of Nator	Civil, parish or (England only) Civil, parish or community boundary	
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Railway River	or Mineral Line	Grassland Heath	
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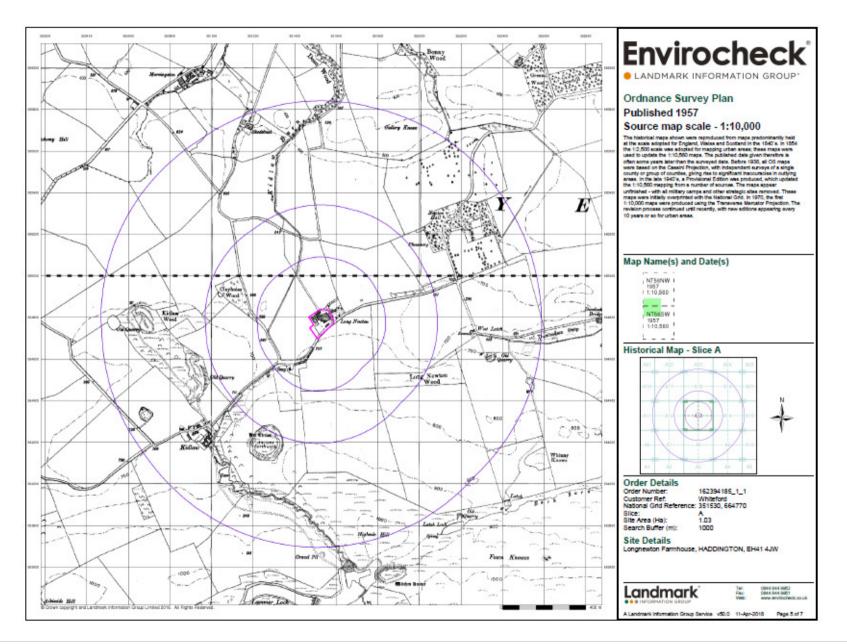


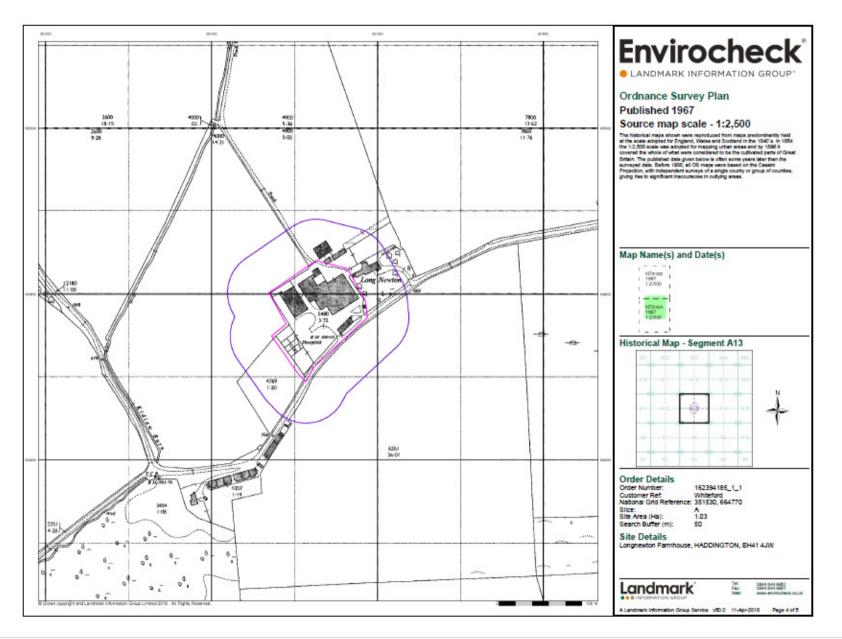


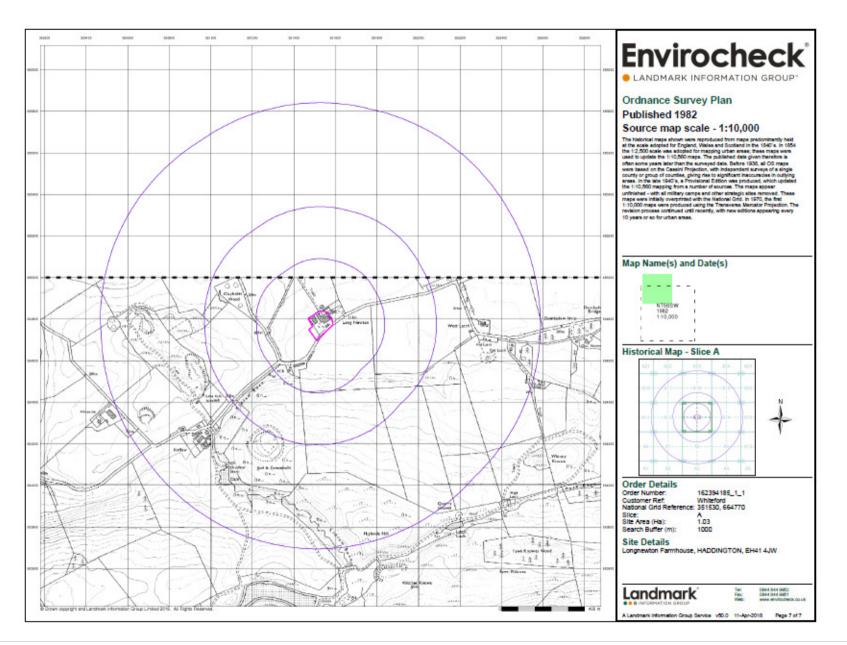


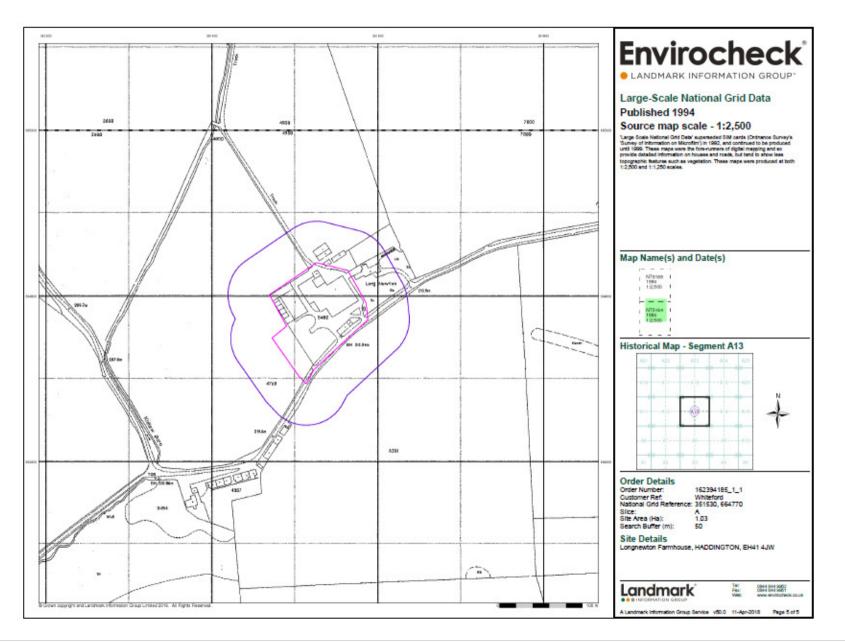












GAP DEVELOPMENTS LIMITED 3 WATKER STREET EDINBURGH EH3 71Y

PROPOSED DEVELOPMENT AT LONG NEWTON FARM NR. HADDINGTON, EAST LOTHIAN

SITE INVESTIGATION REPORT

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consultarity engineering to simest environment

Date APRIL 2008

## DAVID R. MURRAY AND ASSOCIATES

CONSULTING ENGINEERS

150 St. JOHN'S ROAD, EDINBURCH EH12 8ÅY Telephone No.: (0131) 334 0765 Fax No.: (0131) 316 4540 Email: drme@davidrmurray.co.uk www.davidrmurray.co.uk

Dunfermline Office:

20 Viewlield Terrace, Dunfermline KY12 7H2 Tel: (01383) 726075 Faz: (01383) 730305 Email: drud@davidrmurxay.co.uk Drvid & Murray and Associates, Flinited Tability partners of registered in Scotland (SC 300608). The registered of society at 159 St John's Ketst Educated (SC 300608). GAP DEVELOPMENTS LIMITED 3 WALKER STREET EDINBURGH EH3 7JY

PROPOSED DEVELOPMENT AT LONG NEWTON FARM NR. HADDINGTON EAST LOTHIAN

SITE INVESTIGATION REPORT

DAVID R MURRAY AND ASSOCIATES CONSULTING ENGINEERS 150 ST JOHN'S ROAD EDINBURGH EIH2 8AY

E8538/KC/NJH

APRIL 2008

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#### 1.0 INTRODUCTION

- 1.01 Gap Developments have appointed David R Murray and Associates to undertake intrusive investigations on a proposed residential development site located on a faimstead at Long Newton, to the south of Haddington, East Lothian, Appendix A.
- 1.02 The site, which is currently developed, contains a number of stone built farm buildings, which are for the most part still in use to house livestock and machinery. A large and more recent steel frame building and a concrete lined silage pit are located on the southern portion of the site, adjacent to the road. Land in the vicinity of the site slopes down towards the north-west. Agricultural land is present to the north, east, west and south, while a small development of cottages lies 80m to the southwest.
- 1.03 A development layout plan confirms that there is a proposal to demolish the more recently constructed farm building and to convert the majority of the existing stone built steading buildings for residential usage. Private garden areas would be incorporated within the finished development.
- 1.04 The current investigation involved the review of archive information and assessment of the ground conditions and contaminant levels encountered during intrusive investigations and the impact that these would have on the development layout proposed.
- 1.05 Review of ground conditions and remedial measures to address any potential construction constraints identified as a result of the works undertaken are also provided in this report.
- 1.06 The report has been prepared taking due cognisance of current best practice and legislation. The investigations were undertaken and recommendations made on the basis of a residential end use incorporating private garden areas.
- 1.07 This report has been prepared for the exclusive use of Gap Developments and their representatives. Any use of this report by a third party, or any reliance on or decisions made based on it, are the responsibility of such third parties unless written confirmation at the request of Gap Developments has been provided by David R. Murray and Associates.
- 1.08 If new information becomes available in respect of the site, and/or legislation changes after the submission of this report and/or one year has elapsed since submission, the report should be referred back to David R. Murray & Associates for comment or amendment to some or all of the report where necessary.

### 1.1 Objectives of Investigation

The objectives of the investigation were as follows:

- To review available archive information in order to identify any potential geotechnical, mineral and/or environmental constraints to the development proposed.
- To design an intrusive investigation, based upon review of available information, to further assess and quantify the potential construction constraints and environmental issues identified as a result of the review of archive information
- To investigate ground conditions by advancing hand pits and boreholes across the development area of the site and collect representative soil and groundwater samples for analysis.
- Based upon the results of intrusive investigations, to provide an assessment of ground conditions in respect of the development proposals.
- To provide recommendations, where necessary, on measures to address any soil and groundwater contamination levels and soil-gassing levels identified as a result of the intrusive investigations and risk assessments undertaken.

### 1.2 Overview of Investigation Methodology

- 1.2.1 Prior to undertaking site investigations available historical archive information was reviewed in order to provide an indication of likely ground conditions and possible environmental issues associated with the redevelopment proposals.
- 1.2.2 This information was used to formalise a Conceptual Site Model (CSM) in terms of potential contaminants, and contaminant/pathway/receptor linkages, which might be associated with the site. The archive information reviewed and the CSM were used to design site investigations suitable in order to allow a detailed assessment of ground conditions and potential environmental constraints to development.
- 1.2.3 The subsequent investigations comprised of hand pits and boreholes which were advanced at selected locations on the site. Representative soil samples were collected from hand pits and boreholes for detailed chemical and geotechnical testing, whilst gas monitoring and groundwater sampling were also carried out.

- 1.2.4 As previously indicated, the results of in situ geotechnical and laboratory tests on disturbed and undisturbed soil samples were reviewed and comment made on any implications these may have upon the design of the development proposed.
- 1.2.5 The significance of the laboratory and gas monitoring data obtained during the investigation was assessed in terms of site-specific contamination assessment criteria for various contaminant parameters and current guidelines relating to landfill gas.
- 1.2.6 The field and laboratory data obtained and the assessment of this data in respect of the Conceptual Site Model was used to identify potential environmental risks and to design suitable remedial measures to adequately address these risks.

### 2.0 SITE SETTING & DESCRIPTION

- 2.01 The site (the centre of which is located at NGR N1 15<sub>30</sub> 47<sub>80</sub>) extends to approximately 0.81Ha and is approximately square in shape. The site is currently developed and contains a number of stone built farm steading buildings, which are for the most part still in use for sheltering and feeding livestock and horses. A small number of these stone buildings are dilapidated.
- 2.02 A large steel framed building is present on the southern portion of the site, which is also in use for housing livestock. Adjacent to this building is a mound of silage material which is covered and which is located on a concrete slab. This is outwith the area proposed for development
- 2.03 A tarmac access road leads to the adjacent residential property along the eastern boundary, while the rest of the site is roughly surfaced with stone and gravel. Some small areas of the site are roughly grassed.
- 2.04 Agricultural equipment and materials are scattered across the site, and a number of farm vehicles are stored within the steading buildings. A drum containing oil is present in one of the buildings.
- 2.05 Land in the area slopes down towards the northwest and the site is bounded generally to the north, east, south and west by agricultural land. Two residential properties lie just to the east of the site, while a minor road forms the southern boundary.
- 2.06 A number of cottages lie approximately 80m to the southwest of the site, and the nearest water course in the vicinity of the site is the Kidlaw Burn which is located 150m to the west of the site. This burn flows towards the north.

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### 3.0 DESK STUDIES

Archive information from the following sources was reviewed in order to allow an assessment of potential construction constraints to be made.

- An Envirocheck Report, Appendix B, containing Ordnance Survey map extracts covering the period 1854 to 2007, and statutory information from SEPA and East Lothian Council.
- A Basic Geological Assessment by the British Geological Survey (BGS), Appendix C.
- Aerial photographs relating to the site and surrounding area.

### 3.1 Summary of Site History

- 3.1.1 A review of Ordnance Survey maps, Appendix B, was undertaken in order to assess historical land uses and major changes which could provide an indication of ground conditions and potential environmental issues.
- 3.1.2 The site has remained largely unchanged throughout its entire history. A farm steading, Long Newton, comprising of a number of buildings, was present on the site from at least 1854. A house was also present at this time, adjacent to the eastern boundary, while agricultural land was present all around. A number of cottages were indicated 75m to the south of the site, adjacent to the minor road forming the southern boundary. Quarrying (limestone) was present 570m to the southwest and west.
- 3.1.3 The configuration of the buildings has essentially remained unchanged, although a small part of one steading was demolished on the northern portion between 1907 and 1957. The modern shed on the southern portion was crected between 1999 and 2007
- 3.1.4 Land surrounding the site has remained essentially unchanged since the mid 19<sup>th</sup> Century although the quarries to the west and southwest were indicated to be abandoned by the start of the 20<sup>th</sup> Century.
- 3.1.5 The history of the site and immediate surrounding area is summarised overleaf.

Map Survey Dat	c Subject Site	Site Environs
<b>1854-55</b> 1:10,560	The site comprised of a rumber of farm steading buildings A frack/road runs through the southern portion	Land surrounding is largely agricultural. Large manor house present adjacent to the eastern boundary School and cottages present 75m to the southwest A number of linestone quarries present 570m to the west and southwest Unnamed watercourse (presemably the Kidław Burn) 160m to the west.
1.2,500	Steading buildings enlarged on conthem and western portions. Road ow runs adjacent to southern boundary.	Little significant change
<b>1907/8</b> 1:2,500/1:10,560	Little significant change on site	Quarries to the west/southwest largely abandoned.
1957 1:10,560	Miner demolition of building on northern portion, and enlargement of building on central portion, but otherwise little significant elempe.	Little significant chauge
1967 1:2,500	Little significant change on site	Minor extension to adjacent manor house, while additional outbuildings erected close to northern boundary.
1 <b>970-82</b> 1:10,000	Little significant change on site	Little significant change
1994 1:2,500	Little significant change on site	1 ittle significaut change
999 :10,000	Eittle significant change on site	Little significant chauge
<b>007</b> :10,000	New building added to southern portion of site.	Little significant change

## 3.2 General Geology of the Area

3.2.1 The Basic Geological Assessment by the British Geological Survey (BGS), Appendix C, confirms that their records show no evidence of significant made ground or infilled ground on the site, although they do confirm that made ground associated with the former development may be encountered. Given the presence of a steading some made ground could be anticipated.

- 3.2.2 Natural soils underlying any made ground present are expected to comprise of poorly consolidated sands and gravels, overlying glacial till (boulder elay), which is typically firm to very stiff elay with pebble to boulder size rock elasts, and which is often softer and siltier where weathered close to ground surface. Irregular bands of sand and gravel can be expected within the till. The thickness of the drift deposits is unknown, but the BGS anticipate that rock would be expected at depths of less than 5m.
- 3.2.3 The Lammermuir Fault, which trends southwest to northeast, is thought to be present beneath the northern edge of the site. This would be represented at rockhead by a zone of broken or disturbed rock.
- 3.2.4 To the south of the fault, solid rock underlying the drift deposits within the majority of the site boundary is expected to be of Ordovician age, and comprise medium to thick bedded sandstones, with thinner shales, mudstones and silfstones the dip of these strata is likely to be up to 70°, dipping to the northwest.
- 3.2.5 To the north of the fault, perhaps underlying a small portion of the site, lies Lower Carboniferous strata comprising sandstones, siltstones and mudstones, which dip generally to the north or northeast.
- 3.2.6 A search of mine plan data held by the BGS did not reveal any plan record of underground mineral workings in the vicinity of the site. The BGS consider it unlikely that any undocumented workings would be present in the vicinity of the site.
- 3.2.7 The BGS also confirm that they have no records of current or former mine entrances on or immediately adjacent to the site, and no records of quarrying activities within or close to the site boundary.

### 3.3 Mining Issues

- 3.3.1 Bedrock strata at shallow depths beneath the site are not recorded to contain mineral seams of economic importance, and Long Newton lies outwith any defined Scottish coalfields.
- 3.3.2 Based on the reports from the British Geological Survey and on our knowledge of the area, we would conclude that the mineral stability of the site is satisfactory and that intrusive investigations, in order to investigate mineral stability, are not necessary.

### 3.4 Regulatory Authorities Archives

- 3.4.1 The Envirocheck report, Appendix B, contains information on landfill sites, waste treatment and transfer operations, discharge consents and emissions consents, sites holding radioactive substances authorisations and hazardous substances consents, information from contemporary trade directories and information on sites where fuels are stored
- 3.4.2 Review of this information confirms that there are no records of prescribed processes, discharge consents, waste disposal sites, landfill sites, contempotary trade directory entries, etc. within the site boundary.
- 3.4.3 There are two discharge consents associated with a septic tank discharge within 200m of the site, and a further consent at 206m.
- 3.4.4 A water abstraction permit, held by East Scotland Water Authority is present 747m to the southwest of the site, relating to abstraction from a small reservoir feeding the Kidlaw Burn.
- 3.4.5 None of the sites identified in the Envirocheck report are considered to pose any significant risk in terms of the development proposed for the subject site
- 3.4.6 There are no Sites of Special Scientific Interest (SSSI), nature reserves, environmentally sensitive areas, green belt or protection areas, etc. on or in the immediate vicinity of the site.

### 3.5 Hydrology and Hydrogeology

- 3.5.1 As previously confirmed the nearest watercourse in the vicinity of the site is the Kidlaw Burn which is located some 160m to the west of the site, and flows from south to north.
- 3.5.? Given the local topography it is not unreasonable to assume that the general direction of groundwater and surface water flow in the area would be towards the northwest. Therefore contaminants generated on the site, if any, would be expected to impact upon groundwater in this general direction, however, given the distance from the site to the Kidlaw Burn, and the presumed direction of groundwater flow, it is unlikely that this water body would be impacted.

- 3.5.3 No classification of water quality was provided in the Envirocheck report, however given the water abstraction permits pertaining to the reservoirs upstream of the site, water quality would be anticipated to be good
- 3.5.4 Review of flood maps in the Envirocheck report and on line SEPA flood maps (www.sepa.org.uk/flooding), showed that the site is not in an area likely to be at risk of flooding

### 3.6 Summary of Desk Study Information

- 3.6.1 The following issues/potential construction constraints have been identified from the archive information reviewed.
- **Engineering:** There are no plans to erect new structures on the site and it is considered that the existing buildings would be founded on the sand and gravel deposits or the underlying glacial clays identified by the BGS. Given the age of the buildings on the site any settlement is likely to have long since occurred.

An assessment of ground conditions and foundations of existing buildings was however undertaken as part of the site investigation works

**Environmental:** Made ground is unlikely to be present across the site area, therefore potential environmental issues are unlikely to be significant.

Due diligence site investigations will be necessary in order to confirm ground conditions and potential environmental risks associated with soils on the site.

Mining:Review of available archive information indicates that the site would<br/>not be impacted by shallow mining and no further work in order to<br/>assess mineral stability was considered to be necessary.

### 4.0 PRELIMINARY CONCEPTUAL SITE MODEL

- 4.01 The main purpose of the desk study review was to enable an assessment to be made of potential environmental risks and liabilities that might be associated with the site as a result of both its current and historical usage and the usage of adjacent properties. The information obtained from review of available archive material was then used to prepare a Conceptual Model for the site in terms of potential types and sources of contamination and their potential impact on identified receptors and on the proposed cud use of the site.
- 4.02 The Conceptual Site Model (CSM) is used to identify the presence of potential sources and types of contamination either on or within influencing distance of a development site. Where potential sources are identified it is necessary to identify viable routes of exposure (pathways) by which contaminants could migrate and, hence, the potential for contaminants to ultimately impact upon identified receptors. The types of receptors that may be impacted are dependent upon the proposed end usage of a site.
- 4.03 The CSM is also integral to the design of site investigations, which should be carried out to examine if any contaminants are present and whether viable pathways exist between contaminants and the receptors identified. Where possible pollutant linkages are identified as a result of sampling and analysis, the level of likely harm to receptors is risk assessed and recommendations to reduce/remove potential risks to acceptable levels are formulated. Risk assessment methodologies are discussed later in this report.
- 4.04 Following completion of intrusive investigations and risk assessment the CSM is revised and, where necessary, recommendations to break identified potential pollutant linkages are made. The most suitable form of remediation will depend to a large extent upon the contaminant identified, and the nature of risk and likely receptor. The aim of the remediation is to break the source-pathway receptor linkage which can be achieved in a variety of ways. If any of the linkages are broken, the identified risk is deemed to have been removed. For instance, removal of a point source of contamination removes its potential to impact upon the identified receptor and the link between contaminant and receptor is broken. Likewise where a barrier is placed between the contaminant source and receptor the linkage is again broken as the receptor cannot come into contact with the contaminant source.
- 4 05 Based on the information reviewed and on observations made during basic walkover site inspections, the potential environmental risks associated with the development proposed are considered to be low.

- 4.06 The information reviewed indicates that the site has only ever been developed for agricultural use.
- 4.07 Taking cognisance of DEFRA's R&D Publication, CLR8 and DoE Industry Profiles, potential contaminants possibly associated with historical activities on the site have been identified in the CSM summary which is provided below.

Location of Potentially Contaminating Activity	Possible Contaminants	Pathways (if contaminants and landfill/mine gas were identified)	Receptor	Perceived Risk
Site bas remained in constant agricultural use	No site specific contaminants other than, possibly,	<ol> <li>Dermal contact and ingestion</li> <li>Dermal contact</li> </ol>	Site contractors during development	1.2,3 (vory low)
therefore no potentially	pesticides are likely to be present.	3. Inhalation of dust/fibres/vapours	Future site residents.	1,2,3,7 (very low)
significant contaminating activities have been	Gas monitoring should be undertaken in order	(indoors and outdoors). 4. Contact with buildings/services	Adjacent land users.	3,5 (very Jow)
identified	to confirm the absence of landfill gas A	5 Migration of contaminants and landfill	the site and surrongeding area.	low)
	general suite of analyses should be carried out on the soil	gas through service runs and subsequent accumulation of gas in	Buildings and Services.	4,5 (very low)
	samples collected in order to confirm the	buildings. 6. Leaching of contaminants into	Groundwater and surface waters	5,6 (very low)
	absence of contaminants af concentrations of	contaminants into groundwater and off-site migration.		
	сонсеги.	7. Ingestion of site grown vegetables.		

- 4.08 The preliminary CSM therefore indicates that the overall potential risk associated with the redevelopment of this site for residential use with garden areas is likely to be very low. Due diligence geotechnical and environmental investigations were however considered to be necessary in order confirm the absence of significant risks associated with the site.
- 4.09 Potential risks to the site from soils in the general vicinity were not considered to be significant given the absence of contaminant sources.

4.10 The investigations undertaken were therefore designed to provide confirmation of ground conditions across the site area as a whole and provide chemical and gas monitoring data upon which more detailed risk assessments could be undertaken. These investigations are described in more detail in the following section of this report.

#### 5.0 SITE INVESTIGATIONS

- 5.01 Based upon the desk study researches undertaken and with reference to the preliminary CSM the investigation was designed to achieve the following objectives:
  - To identify the presence or absence of made ground across the site area as a whole.
  - To identify the nature, extent and significance of any contaminant levels associated with made ground and/or natural soils
  - To determine the likely impact that any contaminants present are likely to have on identified site receptors both during and following development
  - To determine the likely impact that any contaminants present in soils and/or groundwater are having or are likely to have on groundwater and surface water bodies outwith the site boundary.
  - To establish soil gassing levels within the site boundary.
  - To confirm the nature of natural soils underlying made ground and to allow a general assessment of the potential bearing capacity of these soils.

### 5.1 Investigation Methodology

- 5.1.1 David R Murray and Associates commissioned SKF Limited to earry out an intrusive investigation at the site and a report outlining these works, prepared by SKF is provided in Appendix D.
- 5.1.2 The soil investigations were undertaken taking due cognisance of British Standards BS5930:1999 and BS10175/2001 guidance and codes of practice. Guidance from Scottish Enterprise 1998 was also taken.
- 5.1.3 Trial pits (excavated by hand) and soils bores were advanced on an approximate nontargeted 30m grid across the site area. Historical archives had suggested that the site had never been developed for potentially contaminative uses and therefore that the presence of made ground was unlikely.
- 5.1.4 Non-targeted sampling was carried in order to provide a representative indication of ground conditions across the site as a whole. Given the absence of any specific areas of concern identified in the CSM it was not considered necessary to reduce the spacings further as there were no contaminant 'target areas'.

- 5.1.5 Five soils boreholes, BH1-BH5 were advanced on the site to depths of between 2.65m and 3.80m below existing ground levels on January 17<sup>th</sup> 2008. On completion of the drilling operations, 50mm diameter gas/groundwater standpipes were installed in three of the boreholes (BH1, BH4 & BH5) to allow soil gas and groundwater levels to be monitored.
- 5 1.6 Seven hand excavated pits, numbered HP1-HP7, were advanced to a maximum depth of 0 85m below existing ground levels in the vicinity of the existing buildings on the site on January 30<sup>th</sup>, 2008 in order to assess existing foundations.
- 5.1.7 Two hand pits (S1 and S2) were also advanced in the vicinity of silage mound on the south-western portion of the site in order to assess ground conditions in this area and to allow the collection of soil samples for possible future analysis if necessary.
- 5 1.8 Trial pit and borchole logs are provided in the SKF report, Appendix D, whilst a plan showing the approximate locations of all of the trial pits and borcholes advanced on the site is provided in Appendix E.

### 5.2 Sampling Strategy and Analysis

- 5.2.1 As the borcholes and hand pits were advanced, details and depth of the strata encountered were noted, together with the depth of disturbed and undisturbed samples taken. The stability of the sides of the pits was also recorded.
- 5.2.2 As the boreholes were advanced, in-situ Standard Penetration Tests and undisturbed samples were taken and observations on groundwater conditions noted.
- 5.2.3 Representative samples of made ground and natural soils were collected from the boreholes and trial pits advanced for more detailed examination and geotechnical and geochemical analysis.
- 5.2.4 Three samples were subjected to moisture content testing and two for Atterberg Limits, while due to the predominantly granular nature of made ground and natural soits only one undisturbed sample was collected from natural cohesive soils. This sample was subject to multistage triaxial testing, and for consolidation testing. Five samples comprising of granular materials were subjected to sieve analysis, and one sample was subject to California Bearing Ratio testing. The results of these tests are provided in the SKF report, Appendix D.
- 5.2.5 Following further assessment a total of thirteen soil samples (including one from outwith the proposed development area, S1) were selected for more detailed chemical analysis for a range of inorganic and organic analyses.

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- 5.2.6 Given the proposed end use the main identified receptors on the site would be construction personnel during development activities and future site residents. With this in mind, soil samples selected for chemical analysis were generally collected from soil horizons within 1.0m of ground surface, as it is these soils that the identified receptors are most likely to come into contact with.
- 5.2.7 Groundwater samples were abstracted from boreholes BIII and BII4, following well development and purging using dedicated sampling equipment. BH5 dried up immediately after purging so was not possible to collect any samples from this location.
- 5.2.8 Groundwater samples were collected into laboratory supplied amber glass sample bottles and plastic bottles that were filled to overflowing. Samples for more detailed organic analysis were collected into pre-cleaned, 40ml clear septum vials.
- 5.2.9 The selection of contaminant parameters for soils and groundwater was based on a number of factors, which included information reviewed as a part of the archive review and assessment of the various soil borizons encountered across the site during the infrusive investigation.
- 5.2.10 Samples selected for analysis were forwarded to a UKAS accredited laboratory and the results of analysis on all of the soil samples analysed are provided in the SKF Report, Appendix D.
- 5.2.11 All thirteen soil samples were analysed for a standard suite of contaminants normally scheduled on development sites which included the health-related contaminants arsenic, cadminm, total chromium, mercury, lead, sclenium and nickel and the phytotoxic contaminants water soluble boron, copper, and zinc these samples were also analysed for a number of other parameters, namely water soluble sulphate, sulphide, total phenols, total cyanide and pH. Three samples of made ground were analysed for the presence of asbestos.
- 5.2.12 Six soil samples were also submitted for leachate analysis to assess the potential bioavailability of the contaminants.
- 5.2.13 The percentage of natural organic matter in samples collected from various horizons was established by carrying out total organic carbon analysis on three samples.
- 5.2.14 Historical archives had not suggested the presence of contaminating activities having taken place on the site although made ground was identified in some locations. In order to provide a further indication of organic contaminant levels associated with soils, three samples were analysed for the presence of Texas Banded TPH's.

- 5.2.15 Given the historical usage of the site two samples were also analysed for the presence of organochlorine pesticides in order to allow an assessment of whether these contaminants were present.
- 5.216 The groundwater samples collected from BH1 and BH4 were analysed for the same standard suite as outlined in 5.2.10, while additional analyses for the presence of VOC's and SVOC's to provide an indication of whether synthetic organic contaminants were present.
- 5.2.17 The analysis suite undertaken is considered to be suitable in order to assess potential risks associated with inorganic and organic contaminants in soils given the previous use of the site.
- 5.2.18 Gas and groundwater levels in the three monitoring installations (BHI, BH4 & BH5) were measured on six occasions between January 28<sup>th</sup>, 2008 and March 10<sup>th</sup>, 2008, using a Geotechnical Instruments GA2000 infra-red gas analyser. The maximum methane, carbon dioxide, carbon monoxide and hydrogen sulphide concentrations and minimum oxygen concentration recorded in each installation over a sixty-second monitoring period were taken as the gas concentrations. The prevailing atmospheric pressure during each monitoring event was also recorded.
- 5.2.19 Gas flow rates were measured using a flow pod, which was attached to the gas monitor. Groundwater levels in the boreholes were measured using an electronic water dip meter.

#### 6.0 SUMMARY OF SUBSOIL CONDITIONS

- 6.01 The soils encountered across the site area during the investigation were consistent with published data although made ground was present in most locations
- 6.02 Desk study information indicated that sands and gravels, overlying glacial soils would be present within the site boundary, and that bedrock would be no deeper than 5m. Intrusive investigations broadly corroborated this information, with bedrock being encountered at approximately 2.00m in a number of areas across the site.
- 6.03 The types of soils encountered are sub-divided and discussed in the following sections.

### 6.1 Made Ground

- 6.1.1 Review of hand pit and borehole logs confirmed the presence of made ground to depths of up to 0.70m across the majority of the site, while within BH3, made ground was found to extend to 1.20m below existing ground levels.
- 6.1.2 Made ground generally comprised of gravelly sands or sandy gravel, with occasional cobbles and brick, tile or concrete fragments. Depending on the locations advanced, topsoil and tarmae were encountered overlying other made ground materials.
- 6.1.3 Soft to firm gravelly elay fill was encountered in HP06 and IIP07. The base of made ground was not proven within trial pits HP01 and IIP05.

### 6.2 Natural Superficial Deposits

6.2.1 Where proven immediately beneath made ground, natural soils comprised loose to medium dense sands and gravels within BH3-BH5 and HP3, and soft to firm, and firm to stiff clays within BH1, BH2, HP2, HP4, HP6 & HP7. Loose sand was encountered underlying clay within BH1, at a depth of 0.70m.

### 6.3 Rockhead and Rock Strata

6.3.1 Weathered rock, which was recovered as angular gravels of sandstone and siltstone, was encountered from depths of between 1.80m and 2.60m. Within BH3, an obstruction was encountered at 2.82m, which is thought to be bedrock.

### 6.4 Groundwater

- 6.4.1 Groundwater ingress was encountered at shallow depth during the drilling of some of the boreholes, which is unsurprising given the relatively shallow bedrock at the site, although the hand pits generally remained dry.
- 6.4.2 As previously indicated standpipes were installed in three of the borcholes advanced on the site following their completion in order to allow the monitoring of soil gases and to enable the longer term monitoring of groundwater levels.
- 6.4.3 Groundwater levels measured in the standpipes were recorded as follows:

Borehole Number	Water Depth(s) Below Existing Ground Level Over Monitoring Period
BIJ1	0.44-0.69m
BU4	0.69-1.50m
BH5	0.40-1.63m

- 6.4.4 The results of monitoring in standpipes would indicate that groundwater may be locally encountered even in shallow excavations if left open for any length of time.
- 6.4.5 The presence of groundwater in deeper excavations such as sewer/drainage tracks should also be anticipated although it should be possible to control by using open hole pumping techniques.

## 6.5 Buried Structures

6.5.1 No buried structures were encountered during the intrusive investigations, although a weak concrete was noted at 0.10-0.15m within HP6. Where present and if necessary, concrete slabs at ground surface would require to be broken out particularly in areas designated for gardens.

### 7.0 SUMMARY OF GEOTECHNICAL TEST RESULTS

- 7.01 Test results are described within the SKF report, Appendix D.
- 7.02 Where taken, in-situ Standard Penetration Tests recorded "N" values of 7 to 26 in the natural soils. No SPT values were recorded within made ground. The recorded values would indicate bearing capacities in the underlying natural soils to be in excess of 70kN/m<sup>2</sup>.
- 7.03 N values in excess of 40 were achieved within weathered bedrock strata, and full penetration was unsurprisingly not possible within the bedrock strata.
- 7.04 Given the presence of sands and gravels, and weathered took at relatively shallow depth, only one undisturbed elay sample and one suitable bulk clay sample were collected from the site. Testing was carried out on these samples in order to provide further information on the geotechnical properties of the cohesive soils
- 7.05 The apparent cohesion recorded after undrained triaxial compression tests on the clay sample BH2 1.00m was 18kPa and were measured in conjunction with a friction angle of 19°. Taking both parameters together, an allowable safe bearing capacity in excess of 70kN/m<sup>2</sup> would apply to this clay.
- 7.06 An Atterberg Limit test was also conducted on the BH2 1.00m sample. The moisture content recorded was 13%, the liquid limit was 27%, whilst the plastic limit recorded was 15%. These results would tend to confirm the firm to stiff nature of the clay.
- 7.07 The coefficient of volume compressibility measured in an ocdometer test taken from slightly deeper in the sample was less than 0.260m<sup>2</sup>/MN with a moisture content of 12.4%. This value would indicate an essentially low compressibility of the soil tested and again is in keeping with the field information and observations.
- 7.08 The results of particle size distribution curves on samples of granular soils collected from across the site generally confirmed field descriptions in respect of the samples and showed that they were relatively well graded.
- 7.09 The results of pH and sulphate testing carried out on soil samples collected from the site confirm that there is no requirement to protect buried concrete structures from sulphates (maximum measured concentration of 0.095g/l) or acid attack (pH's between pH 6.4 and pH 8.0).
- 7.10 Is considered that sulphate design class DS1 and ACEC class AC-1s as defined in BRE Special digest 1 would apply to buried concrete.

#### 8.0 GEOTECHNICAL APPRAISAL

#### 8.1 Foundation Design

- 8.1.1 Existing steading buildings at the site are to be converted for residential use Therefore no new development at the site is proposed
- 8.1.2 The investigation has however confirmed that the medium dense sands and gravels and firm clays underlying the made ground at the site would provide the bearing capacity necessary in order to support low rise housing.
- 8.1.3 The existing steading buildings appear for the most part to be founded within these natural soils and we would anticipate that, given their age any belated settlement would have long since occurred. We would however recommend that a structural survey of the buildings be undertaken prior to any refurbishment activities.
- 8.1.4 Should any new development or extensions to the existing buildings be proposed in the future we would consider that it should be possible to found on the natural deposits at shallow depth on traditional reinforced concrete strip foundations at depths of up to 1.20m below existing ground levels.
- 8.1.5 Concrete trench fill should therefore be used to replace any thin or localised softer/looser patches if these are identified at or within a metre of formation level.
- 8.1.6 In these conditions it is anticipated that total and differential settlements will be within acceptable limits.
- 8.1.7 Lest pitting on a plot by plot basis should be undertaken immediately prior to any new construction, should any be proposed in the future, to confirm the nature of strata at formation depths
- 8.1.8 Groundwater may be locally met in drainage tracks but it should be possible to control water levels using open sump pumping techniques Allowance should be made for hard dig and possible breaking out of rock in drainage excavations.
- 8.1.9 Excavations on the site would be expected to remain stable however it is recommended, as is standard building practice, that deeper excavations such as for drainage should be suitably supported along their full length in the presence of water to guard against the potential for collapse.

### 8.2 Access Roads

- 8.2.1 As part of the current exercise, California Bearing Ratios (CBR's) were measured on a single bulk sample collected from BH3. CBR values in this sample exceeded 5% and were measured in conjunction with a natural moisture content of 15% and a dry density of 1.91Mg/m<sup>2</sup>.
- 8.2.2 Based upon these results and on the site investigation information we would anticipate that minimal capping would be necessary beneath any new road pavement at the site. In situ CBR tests could be undertaken in order to confirm actual capping requirements once access roads and car parking areas are set out.

## 8.3 Existing Services

8.3.1 No major services are know to be present within the site boundary. Copies of the existing services drawings and correspondence with various utility companies is provided in Appendix

#### 9.0 APPRAISAL OF ENVIRONMENTAL ISSUES

## 9.1 General

- 9.1.1 As previously discussed, the potential risk associated with soil contaminants has been assessed using the source-pathway-receptor principal. The investigation undertaken therefore was designed to explore more fully the potential for contaminants to be present on the site and to explore whether there were any viable pathways by which contaminants could impact upon identified receptors.
- 9.1.2 By carrying out such an assessment it is possible to assess whether land for redevelopment is 'suitable for use' in its present state. Where the risk assessment indicates that there is an unacceptable risk to identified receptors from the presence of contamination, a development site cannot be considered as being suitable for use without some form of remedial action being undertaken
- 9.1.3 The Environmental Protection Act Part HA identifies contaminated land as '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, or under the land that; a) significant harm is being caused or there is a significant possibility of such harm being caused; or b) pollution of controlled water is being or is likely to be caused'.
- 9.1.4 Taking cognisance of the foregoing, soil sampling and gas monitoring were undertaken on the site in order that the low risks identified in the Conceptual Site Model could be more accurately quantified and assessment made of whether the site was suitable for use. In this case suitable for use refers to the redevelopment of the site for residential use with private garden areas.
- 9.1.5 The analytical data obtained from laboratory analysis and on site monitoring was assessed, in conjunction with available information on existing ground conditions and development proposals.

## 9.2 Soil Contamination

- 9.2.1 A tiered approach to risk assessment has been undertaken in respect of the soil contamination data obtained. The first step of our assessment therefore involves the comparison of laboratory data against conservative generic criteria published by a variety of organisations
- 9.2.2 In 2002 DEFRA published toxicology reports and derived guidance concentrations for some inorganic and organic contaminants in soils, CLR7-10.

- 9.2.3 Where available these guidance concentrations were used in the current investigation to provide a reference point against which soil contaminant levels could be compared in the first instance.
- 9.2.4 In order to assess the potential phytotoxic risks associated with soil contaminants, MAFF documentation relating to the use of sewage sludge on agricultural land has been used in the absence of suitable phytotoxic criteria.
- 9.2.5 Risks to buried concrete structures presented by sulphates in soils were assessed using data published by the Building Research Establishment (BRE), 2001.
- 9.2.6 At the LEVEL 1 assessment stage where contaminant levels are lower than the generic criteria or the laboratory limits of detection no further assessment and/or remediation is deemed to be necessary and identified receptors are not considered to be at risk from the levels of soil contamination identified. For this approach to be appropriate the laboratory limits of detection need to be set at a suitable level.
- 9.2.7 The proposed end use for the site is residential development with private garden areas therefore DEFRA criteria relating to this end use have been employed in the risk assessment process. The results of the general suite analysis on all of the samples are summarised in the table below.

Contaminant	Contaminant Lype	Contaminant Range in Samples	Soil Guideline Value	Source	Number of samples I ested	Number of exceedances
Arsenie	Health Related	8-52mg/kg	20mg/kg	CLEA	13	7
Cadmium	Health Related	<1mg/kg	2mg/kg	CLLA	13	0
Chromium	Health Related	17-45mg/kg	130mg/kg	CLEA	13	0
Lead	Health Related	8-410mg/kg	450mg/kg	CLEA	13	0
Mercury	Health Related	<img kg<="" td=""/> <td>8mg/kg</td> <td>CLEA</td> <td>13</td> <td>0</td>	8mg/kg	CLEA	13	0
Nickel	Tealth Related	19-60mg/kg	50mg/kg	CLEA	13	3
Selenium	Health Related	<2mg/kg	35mg/kg	CLEA	13	0
Boron	Phytotoxic	<1mg/kg	3mg/kg	МАН	13	0
Copper	Phytotoxic	6-44mg/kg	135mg/kg*	MAFF	13	0
Zine	Phytotoxic	18-400mg/kg	300mg/kg*	MAFF	13	<u>l</u>
Phenols	Health Related	<1mg/kg	5mg/kg	WRAS	13	0
Cyanide	Ucalth Related	<1-2mg/kg	16.4mg/kg	WRAS	13	0
Sulphide	Health Related	<10mg/kg	10mg/kg	LOD	13	0
Sulphate		<0.01-0.095g/l	0.5g/l	BRE	13	0

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9.2.8 Depending upon the concentrations measured, where synthetic organic substances (such as TPH) are identified in soils more detailed assessment is considered to be necessary and LEVEL 2 risk assessment methodologics are utilised. Where contaminants are lower than the limit of detection no further assessment is considered to be necessary.

### 9.3 LEVEL 1 Soils Assessment

- 9.3.1 Review of the laboratory data, SKF report, Appendix D, as summarised in the table above, would therefore confirm that of the 13 samples tested for a general suite of contaminants a number contained contaminant concentrations in excess of their respective assessment levels.
- 9.3.2 The soil samples BHI 0.50m (21mg/kg), BH2 0.50m (25mg/kg), BH2 1.00m (27mg/kg), BH3 0.50m (23mg/kg), BH3 1.00m (52mg/kg), BH4 0.50m (30mg/kg) and HP7 0.20m (21mg/kg) therefore contained concentrations of arsenic in excess of the 20mg/kg guideline level.
- 9.3.3 Nickel was present at concentrations in excess of the 50mg/kg guideline concentration in the soil samples BH2 1.00m (60mg/kg), BH3 1.00m (54mg/kg) and HP6 0.40m (51mg/kg).
- 9.3.4 The soil sample HP4 0.20m (400mg/kg) contained zinc above its guideline concentration of 300mg/kg.
- 93.5 Elevated concentrations of health related contaminants were therefore confined to approximately 50% of the soil samples analysed a number of which consisted of natural soils. It is possible therefore that the most ubiquitous of the contaminants asenic is naturally slightly elevated in background levels in this area.
- 9.3.6 Many of the remaining soil samples analysed contained concentrations of general suite contaminants that were much lower than their assessment levels. In most cases actual concentrations were at least 20% lower than their respective assessment levels and are not considered to be significant.
- 9.3.7 Given the presence of clevated contaminant concentrations of some heavy motal contaminants in made ground, a LEVEL 2 risk assessment is necessary in order to more fully assess the significance of the contaminant concentrations measured and whether or not remediation measures are likely to be necessary.

9.3.8 The results of total organic carbon (TOC) analysis which was undertaken on samples of made ground and natural soils showed that the percentage of natural organic matter in the samples tested ranged between 0.3% (BH5 0.50m) and 3.4% (S1 0.60m)

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- 9.3.9 Concentrations of phenols and sulphide in the samples analysed were all very low and did not exceed the individual limits of detection of analytical method employed, Appendix D.
- 9.3.10 The concentrations of total cyanide detected were all below the CLEA derived site specific assessment criteria calculated, Appendix G, and are not considered to be significant.
- 9.3.11 The results of asbestos analysis confirmed that this material was not present in any of the three samples analysed, Appendix D. The existing buildings on the site should be inspected for the presence of asbestos and any materials identified removed prior to their refurbishment.
- 9.3.12 Banded hydrocarbon analysis, Appendix D, confirmed that hydrocarbon concentrations were very low with total values all less then 12mg/kg. Concentrations in the lighter hydrocarbon bandings were often <1mg/kg and did not exceed single figures for the mid to heavier range. The banded TPH concentrations detected and are in keeping with the field observations in respect of the absence of hydrocarbons and are not considered to be significant in terms of the development proposed.
- 9.3.13 The results of pesticide analysis on the samples analysed showed that the concentrations of these contaminants in these samples were all below their 0.01mg/kg limit of detection and as such are not considered to represent any significant risk at this site.
- 9.3.14 The significance of the localised presence of locally elevated inorganic contaminant concentrations is discussed as part of the LEVEL 2 risk assessment

## 9.4 LEVEL 2 Soils Assessment and Remediation Proposals

- 9.4.1 Concentrations of the organic contaminants analysed for were not present in excess of their LEVEL 1 assessment concentrations and further detailed risk assessment is therefore considered to be unnecessary.
- 9.4.2 Some inorganic contaminant concentrations were present at concentrations in excess of their LEVEL 1 assessment concentrations and further risk assessment is therefore necessary in order to assess the significance of these slightly elevated levels in respect of the development proposed.

- 9.4.3 The assessment undertaken therefore explores in more detail the potential pollutant linkages identified in the Conceptual Site Model and where viable linkages are confirmed to be present recommendations to break the linkages are made.
- 9.4.4 The guidance document published by DEFRA (CLR 7) advises the use of statistical analysis to assess how representative the soil data is in terms of the overall site area. DEFRA's recommended approach is to identify the 95% confidence limits of the measured mean and to compare this 95<sup>th</sup> percentile (95<sup>th</sup> %ile) with the soil guideline values for each of the soil contaminant parameters. The statistical analysis also identifies the presence of statistical outliers (the maximum value test).
- 9.4.5 In order to ascertain how representative the concentrations of some inorganic contaminants were of soils on the site as a whole, the results of analysis on the soil samples were subjected to a statistical analysis. There is considered to be the potential that identified receptors, construction personnel during development and residents following development, could come into contact with any soils present at shallow depth. The majority of soil samples were collected from within 1.0m of existing ground levels.
- 9.4.6 The soil sample S1 0.60m was collected from outwith the area currently proposed for development and was therefore omitted from the statistical analysis, future residents would be unlikely to come into physical contact with these soils. The results of analysis on this sample did however confirm that contaminant concentrations were all below assessment levels. The results of analysis on the remaining 12 soil samples collected were subjected to a statistical analysis, Appendix II.
- 9.4.7 The formula for calculating the 95<sup>th</sup> %ile is as follows

$$US_{95} = x + \underbrace{t.s}_{\sqrt{n}}$$

Where:

- x is the arithmetic sample mean n is the number of samples
- s is the standard deviation
- t is a variable for the 95<sup>th</sup> percentile confidence and is dependent on the number of samples analysed.
- 9.4.8 The calculations for all of the parameters are provided in Appendix 11, and confirm that bulk contaminant levels associated with soils at shallow depth exceed the published soil guideline values for sites intended for residential use with plant uptake for the parameter arsenic. Remediation in order to address the levels present will therefore be necessary.

9.4.9 The results of statistical analysis on those parameters identified to be elevated following the Level 1 assessment are summarised below:

Parameter	95 <sup>th</sup> % ife (mg/kg)	Maximum Value Test	Reference Concentration (mg/kg)
Arsenic	28.86	PASS	20mg/kg
Nickel	43.29	PASS	50mg/kg
Zine	207.33	PASS	

- 9.4.10 The maximum value test has not therefore identified statistical outliers (hotspots) within the sample population of the contaminants.
- 9.4.11 It is noted that elevated arsenic concentrations are associated with samples of both made ground and natural soils and may therefore be indicative of this contaminant being present at elevated concentrations in background levels. However remediation, in the form of a capping layer, should considered in order to break the potential source pathway receptor linkage between identified receptors and the bulk soil contaminant concentrations as a whole.
- 9.4.12 In order to calculate a suitable capping layer thickness the BRE document "Cover systems for land regeneration thickness of cover systems for contaminated land", was utilised.
- 9.4.13 The BRE documentation takes account of contaminant concentrations in the capping materials (topsoil and/or subsoil) and the underlying soils when calculating a suitable capping layer thickness. The BRE documentation assumes a mixing zone of 600mm between capping layers and underlying soils which equates to two spade depths. Therefore contaminant concentrations in the imported soil cover are crucial to the calculation of capping layer (topsoil and/or topsoil and subsoil) thickness.
- 9.4.14 Conservatively assuming that contaminant levels in the imported capping materials are 25% lower than the relevant assessment levels (i.e. 15mg/kg for arsenic) a capping layer thickness of 400mm for all areas of soft landscaping and private gardens is considered to be appropriate, Appendix I. Should it be possible to source capping materials with lower arsenic concentrations the thickness of the capping layer could be reduced. For instance arsenic concentrations in the cover at 10mg/kg would result in a 300mm thick capping layer, whilst arsenic concentrations of 7mg/kg would result in a capping layer thickness of 250mm.
- 9.4.15 Given the absence of soil cover across much of the site at the present time, soil would require to be imported onto the site in any event.

- 9.4.16 Any soil samples imported onto the site should be analysed at source in order to confirm that they are clean and inert. The thickness of capping materials would need to be confirmed by undertaking test digs post placement.
- 9.4.17 Following emplacement of soil capping layers on areas of soft landscaping and private garden areas the potential source/pathway/receptor linkages would be broken

## 9.5 Assessment of Leachate and Groundwater Analysis

- 9.5.1 Leachate analysis was carried out on six of the site samples, some of which contained elevated contaminant levels, Appendix D, in order to provide an indication as to the feachability and, hence, potential bioavailablility of the concentrations of inorganic and organic contaminants analysed.
- 9.5.2 As previously confirmed, the groundwater samples collected from the site were analysed for a similar general suite to that scheduled for soils as well as more detailed organic analysis for VOC's and SVOC's.
- 9.5.3 A detailed organic analysis suite was therefore eatried out on water samples collected from the boreholes BH1 and BH4 in order to assess whether soils on the site and adjacent sites were having any adverse impact upon groundwater and surface water receptors in the area. It was anticipated that if significant and leachable organic and inorganic contamination was locally present in soils, then it would be apparent in the groundwater samples collected from the site. It was not possible to retrieve a water sample from the borchole BH5 due to low water levels
- 9.5.4 The results of analysis for the main inorganic contaminants tested for in the leachate and groundwater samples are summarised in the table overleaf where they have been compared in the first instance against UK Environmental Quality Standards (EQS's) for freshwater produced by the Environment Agency where these were available.
- 9.5.5 The results of leachate analysis indicated that the concentrations of the inorganic contaminants analysed were generally not capable of being extracted from the soil matrix at concentrations in excess of their individual limits of detection, although slightly elevated concentrations of chromium and zinc were present in two of the samples (BHI 0.50m and BII2 1.00m) in excess of their EQS levels.
- 9.5.6 The results of analysis on groundwater samples collected from the standpipes on the site indicate however that chromium and zine are not present at concentrations in excess of their respective EQS concentrations.

9.5.7 It is therefore apparent that although concentrations of chromium and zine are capable of being leached from the soil matrix at elevated concentrations under laboratory conditions, they are not having any significant adverse impact upon groundwater quality in the area.

Contaminant	Contaminant Concentrations in	Contaminant Concentrations in	EQS Reference Concentration (mg/l)
	J/eachate samples (mg/l)	groundwater samples (mg/l)	
Arsenic	<0.005-0.008	0.008-0.016	0.05
Cadmium	<0.005	<0,005	0.005
Chromium (Total)	<0.01-0.027	<0.01-0.12	0.02
Lead	<0.025	<0.025	0.02
Mercury	<0.001	<0.001	0.001
Selenium	<:0.005	<0.005	0.01
Nickel	<0.01-0.015	<0.014-0.064	0.04
Copper	<0.02	<0.02	0.028
Zinc	<0.01-0.098	0.026-0.034	0.05

- 9.5.8 With the exception of nickel in the water sample collected from BH4, none of the remaining inorganic contaminants tested for were present at concentrations in excess of the individual limits of detection or their EQS ranges in the groundwater samples collected and analysed.
- 9.5.9 Therefore nickel in BH4 (0.064mg/l) was present at concentrations slightly in excess of its EQS level (0.040mg/l). Based upon the concentrations measured we would consider that these concentrations would have no significant measurable impact on groundwater and surface water bodies in the area
- 9.5.10 Much less than a one fold dilution of water from BH4 would bring the concentrations well within EQS levels. Such a dilution and dispersal would be expected to occur very quickly within groundwater at the site and the wider area.
- 9 5.11 The results of more detailed VOC and SVOC analysis on groundwater samples collected from the boreholes confirmed that none of these contaminants were detected at concentrations in excess of their respective limits of detection, Appendix D, and as such are not considered to be significant.
- 9.5.12 Overall the potential risk to groundwater and off-site receptors presented by the levels of inorganic and organic contaminants present in groundwater on the site are not considered to be significant.

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9.5.13 On the basis of the data obtained the site is not considered to be having any measurable impact upon the groundwater in the area or upon identified surface water bodies (principally the Kidlaw Burn).

#### 9.6 Gas Risk Assessment

- 9.6.1 The results of gas monitoring carried out on the site shows that methane gas was intermittently detected in all three boreholes, although only very low concentrations between 0.1% and 0.2% by volume in air v/v were detected in BH4 and BH5 on one occasion each over the course of the monitoring period, Appendix J.
- 9.6.2 Due to the presence of standing water only four gas readings were possible in BHI, however methane gas readings in this installation fluctuated between 0.1% and 1.6%v/v. The source of the gas in this location is not immediately obvious given the lack of made ground, however, BHI is located a short distance to the north of the silage mound and groundwater levels within this installation were very shallow. This borchole was submerged during the first two groundwater monitoring visits.
- 9.6.3 It is therefore considered to be possible that organic leachate emanating from the silage mound may be locally impacting upon groundwater in this area and generating methane gas within BHT.
- 9.6.4 Carbon dioxide concentrations in the monitor BH4 on the northern portion of the site exceeded the 1.5% v/v DoE (1991) recommended trigger level on four occasions when measurements were taken. Concentrations of carbon dioxide in the remaining two monitors did not exceed 1.0% v/v during the course of the monitoring programme
- 9.6.5 As a further reference guide to the significance of the gas levels measured reference was made to Building Research Establishment (BRE) documentation The BRE formerly recommended the installation of gas protection measures on sites where soil carbon dioxide levels consistently exceed 5.0% v/v. Carbon dioxide concentrations in BH4 did not exceed 2.5% v/v over the course of the monitoring period.

Borehole	CH <sub>4</sub> Range Detected (%v/v)	CO <sub>2</sub> Range Detected (%v/v)	GSV Max value x flow rate
BH1	0,1-1.6	0.2-1.0	0.0
3114	0.0-0.2	0.3-2.5	0.0
BII5	0.0-0.1	0.0-0.9	0.0

9.6.6 Gas concentrations are summarised below.

- 9.6.7 Positive gas flow rates were not detected in any of the monitors over the course of the monitoring programme which would tend to indicate that gas pressures and, hence, the rate of gas generation are low, whilst fluctuating results can be indicative of highly localised low volume sources of gas.
- 9.6.8 Hydrogen sulphide and carbon monoxide gas were not detected in any of the monitors at concentrations in excess of the 1ppm limit of detection of the gas analyser and are not considered to be significant.
- 9.6.9 As confirmed above methane concentrations in BII1 were elevated above 1.0% v/v BIII on one occasion, although positive flow rates were not detected.
- 9.6.10 Recent guidance published by CIRIA (C665, 2007) and the NHBC (2007) confirms the importance of flow rates in establishing the potential risk posed by soil gases. Without a positive flow rate gases would not be expected to enter buildings as there would be no driving force to facilitate such migration.
- 9.6 11 The approach adopted is to multiply the maximum gas concentration and flow rate to produce a Gas Screening Value (GSV). Given that there were no positive flow rates detected, the GSV for each of the boreholes would be 0, as shown in the table above. This therefore falls into the CIRIA category 'Characteristic Situation 1' and on the NHBC's traffic light assessment would be classified as green. Both these categories do not require the installation of gas protection measures.
- 9.6.12 Guidance from CIRIA and NHBC does however indicate that concentrations of methane in excess of 1.0% v/v would not normally be associated with Characteristic Situation 1 and Green sites Although it is noted that methane concentrations in this installation exceeded 1.0% v/v on only one occasion.
- 9.6.13 Under these circumstances consideration should be given to increasing the characterisation to Characteristic Situation 2 (CTRIA) and Amber 1 (NHBC). Using this guidance, gas protection in the form of a gas proof membrane with sub floor ventilation would need to be considered for structures crected in the vicinity of BH1.
- 9.6.14 We would however consider that the source of the intermittently elevated methane in BIH is the silage mound located a short distance to the south of this installation. These materials would be removed as part of the development proposals and hence the potential source of the gassing activity would be removed. On this basis and given the absence of positive flow rates, gas protection measures are not considered to be necessary.

#### 9.7 Water Pipe Risk Assessment

- 97.1 Based upon the results of analysis on soil samples analysed and on the assessment of these results, Appendix K, no special precautions in respect of the selection of materials for service pipe work are considered to be necessary.
- 9.7.2 Elevated arsenic concentrations were contaminant concentrations are present locally within both natural soils and made ground. These will necessitate the use of soil capping fayers on landscaped and garden areas on the finished development.
- 9.7.3 Concentrations of arsenic in soils exceed WRAS guidelines which are more conservative than CLEA health risk guidelines. The results of leachate analysis confirm that arsenic is not capable of being leached from the soil matrix at concentrations in excess of either EQS assessment levels (50ng/l) or guidelines for drinking water standards (10ug/l).
- 9.7.4 Based upon the foregoing and as long as water pipes are placed in trenches backfilled with imported granular materials we would consider that standard HDPE and MDPE pipework would be suitable for water supply pipes.

#### 10.0 REVISED CONCEPTUAL SITE MODEL

- 10.01 The intrusive investigation has confirmed that natural soils on the site are essentially uncontaminated with respect criteria for residential development sites incorporating private garden areas.
- 10.02 Concentrations of organic contaminants are very low and are not considered to be significant. Made ground and natural soils do however contain concentrations of some heavy metal contaminants in excess of published soil assessment guidelines for residential sites incorporating private garden areas
- 10.03 Given that these were associated with soils at shallow depth there is considered to be a potential intact pollutant linkage between the contaminant identified, arsenic, and the identified receptors The main routes of exposure are considered to be ingestion and/or inhalation during and following development as well as dermal contact.
- 10.04 In order to break the identified source/pathway/receptor linkage and reduce the low risks, a 400mm capping layer of clean and inert materials should be placed on all landscaped and garden areas on the finished development
- 10.05 Given the absence of suitable soil cover on the site at the present time soils will require to be imported onto the site in any event in order to create a suitable growing medium. Soils imported onto the site should be tested at source in order to confirm that they are clean and inert. The thickness of capping materials (to be determined utilising the BRE methodology) would need to be confirmed by undertaking test digs post placement.
- 10.06 Contractors and utility personnel working on the site should observe bealth and safety measures normally applied on development sites and should wear suitable protective clothing (gloves, boots and overalls etc.). Construction personnel should also observe good standards of personal hygiene and should ensure that dust generation during development is kept to a minimum
- 10.07 The investigation has confirmed that gas levels and flow rates associated with these gas levels are not significant in terms of the development proposed and gas protection measures will not therefore be necessary.
- 10.08 The results of analysis on leachate and groundwater samples has confirmed that inorganic contaminant concentrations are essentially low although some contaminants are capable of being leached from the soil matrix at detectable concentrations Although elevated levels of these contaminants were not detected in groundwater samples

- 10.09 The results of analysis on groundwater samples has therefore confirmed that inorganic and organic contaminant concentrations are low and, with the exception of a slightly elevated nickel concentration in one sample, do not exceed BQS levels. Based upon review of the contaminant concentrations in this sample and the results of groundwater analysis across the wider site area, the site is not considered to be having any measurable impact upon the groundwater in the area or upon surface water bodies in the area.
- 10.10 Pre-remediation and health and safety requirements, the identified human at risk receptors are, construction personnel during development and future site residents and utility and service personnel following development.
- 10 11 The Conceptual Site model has been amended below and now highlights potential risks associated with the site both pre-remedial measures and post remedial measures. The source-pathway receptor linkages are considered to have been adequately addressed by the remediation measures recommended.
- 10.12 The Conceptual Site model has been amended below and now highlights potential risks associated with the site both pre-remedial measures and post-remedial measures. The source-pathway-receptor linkages would be adequately addressed by the remediation measures recommended.
- 10.13 Validation of the remediation measures in the form of testing of capping materials, verification of capping layer thickness will be necessary.
- 10.14 Following the remediation measures no viable pathway would exist between the identified source(s) of contamination, locally elevated levels of some health related and phytofoxic contaminants, and the identified receptors.

ldentified Contaminants	Pathways	Receptor	Perceived Risk	Post Remediation Risk
Arsenic is elevated in soils	1 Dermal contact and ingestion.	Sife contractors during development	1,2,3 (low)	1.2,3 (none)
in some locations.	2 Dermal contact 3 Inhalation of dust (indoors	Future site Residents.	1,2,3,7 (low)	1,2,3,7 (none)
	and outdoors) 7 Ingestion of site grown	Adjacent land users.	3 (Jow)	3 (none)
	vegetables	Flora and fauna on the site and surrounding area.	1,2,3 (low)	1,2,3 (none)

#### 11.0 CONCLUSIONS

- 11.01 Gap Developments propose to refurbish existing steading buildings on this site for residential usage and establish areas of private gardens associated with this end use. The main conclusions that can be drawn from the investigations are presented below. More detailed recommendations on foundation design and construction, environmental risks etc. are provided in the body of the report and these conclusions should be read in conjunction with the foregoing sections.
- 11.02 The site is considered to be minerally stable.
- 11.03 Intrusive investigations confirmed that some made ground is present across the site area.
- 11.04 The existing buildings on the site should be inspected for the presence of asbestos and suspect materials removed prior to their demolition or refurbishment. Any demolition material generated as a result of this exercise should be retained on site and crushed, along with any existing hardstandings, to a suitable specification for later re-use. The oil filled drum (and any other containers which may be present) located in one of the buildings should be disposed of in line with current best practice and legislation. A number of local authorities have recycling facilities where waste oils are accepted for disposal/reuse.
- 11.05 The existing steading buildings appear for the most part to be founded within natural soils and we would anticipate that, given their age any belated settlement would have long since occurred. We would however recommend that a structural survey of the buildings be undertaken prior to any refurbishment activities.
- 11.06 Should any new development or extensions to the existing buildings be proposed in the future we would consider that it should be possible to found on the natural deposits at shallow depth on traditional reinforced concrete strip foundations at depths of up to 1.20m below existing ground levels.
- 11.07 Allowance should be made for hard dig and breaking out of rock in some drainage excavations.
- 11.08 A 400mm thick capping layer of clean and inert materials should be allowed for in soft landscaped and garden areas on the finished development in order to protect future site residents from the locally slightly elevated levels of arsenic identified. Depending upon arsenic concentrations in any capping layer materials brought onto the site it should be possible to reduce this thickness utilising the BRE methodology.

- 11.09 Validation of the remediation measures in the form of testing of capping materials prior to importation and verification of capping layer thickness will be necessary.
- 11.10 Site workers should adopt standard health and safety measures normally utilised on development sites. Such measures should protect these receptors from coming into physical and dermal contact with contaminated soils.
- 11.11 Measures to protect buildings against soil gas ingress are not considered to be necessary.
- 11.12 Special precautions for the selection of water pipe materials are not considered to be necessary.

DAVID R MURRAY AND ASSOCIATES CONSULTING ENGINEERS 150 ST JOHN'S ROAD EDINBURGH EEH2 8AY

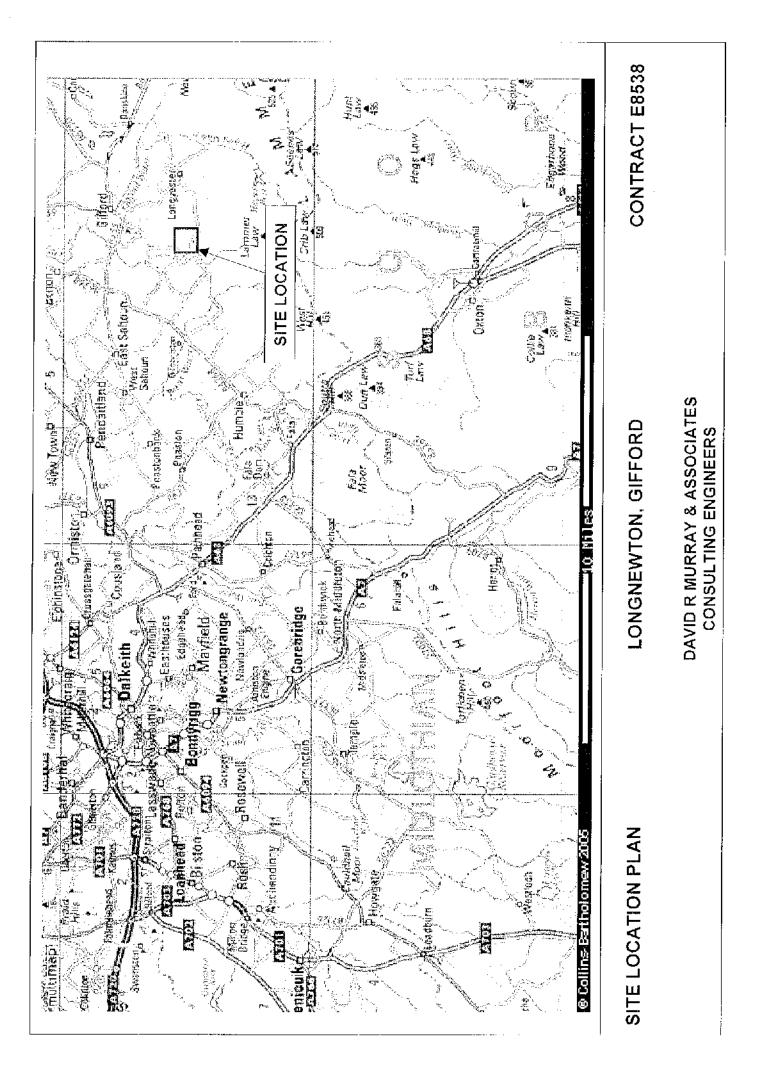
E8538/KC/NJH

APRIL 2008

# APPENDIX A

# SEFE LOCATION PLAN

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# APPENDIX B

# ENVIROCHECK REPORT



# Envirocheck<sup>®</sup>Report: Datasheet

# Order Details:

Order Number: 23871877..1.1 Customer Reference: E8538 National Grid Reference: 351530, 664780 Slice: A Site Area (Ha): 0.81 Search Buffer (m): 1000

## Site Details:

Longnewton Farmhouse Haddington EH41 4JW

# **Client Details:**

Mr N Henderson David R Murray & Associates 150 St John's Road Edinburgh EH12 8AY





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#### Introduction

The Environment Act 1995 has made site servalivity a key issue, as the legislation paye as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landy ands Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency, it also incorporates data from Natura' England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datast cet is produced by querying the Landmark datacase to a distance defined by the client from a site boundary provided by the client

In the attached datasticol the National Grid References (NCRs) are rounded to the nearest 10m in accordance with Londmark's agreements with a number of Data Suppliers.

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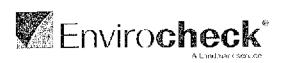
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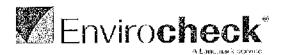
#### Report Version v31.0



# Summary

Data Type	Page Number	On Site	<b>0 to 250</b> m	251 to 500m	501 to 1000m ('up to 2000m
Agency & Hydrological					
Contaminated Land Register Entres and Notices	<u> </u>				
Discharge Consents	pg 1		з		7
Enforcement and Prohibition Notices					<u>.                                    </u>
Integrated Pollution Controls					
Integrated Perlution Prevention And Control					. · . <u></u>
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements	·			<u> </u>	
Nearest Surface Water Feature	pg 3		Yes		
Poliution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes			·		
Prosecutions Relating to Controlled Waters			!		
Registered Radioactive Substances					
River Quality					: 
Hiver Quality Biology Sampling Points	   		   		
River Quality Chemislay Sampling Points			į		· ·
Substantiater: Pollution Incident Register			<u> </u>		 
Water Abstractions	pg 3.		l		1 (*4)
Water Industry Act Heforrals					
Groundwater Vulnerability	pg 4	Yes	n/a	n/a	n/a
Source Protection Zones					
River Flood Data (Scotland)				п/а	n/a
Waste					
BGS Recorded Landill Sites		· · · — ·			·
Integrated Pollution Control Begistered Waste Sites		· · · · ·	· · · · · · · · ·		
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)		·			
Local Anthonity Recorded Landhill Silos					·
Registered Landfill Sites				 	
Registered Waste Transfer Sites					· ·
Registered Waste Treatment or Disposal Sites			<sub>.</sub>	 	
Hazardous Substances					
Centre! of Major Accident Hazards Sites (COMAH)	<u>.</u>				
Explosive Silos	:			 	
Notification of Installations Handling Hazardous Substances (NIHHS)	: 			   <u> </u>	L
Planning Hazardous Substance Cousents	1			<u> </u>	
Planning Hazardous Substance Enforcements				i i	

Order Number: 20871877\_1\_1 Date: 19 Dec 2007



# Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m
Geological					
BGS Recorded Mineral Sites	····				
BGS 1:625,000 Solid Geology	pg 6	Yes	n/a	n/a	n/a
Brine Compensation Areas			n/a	n/a	n/a
Coal Mining Affected Areas			r/a	_ n/a	n/a
Mining Instalsility			r/a	л/а	n/a
Natural and Mining Cavilies					
Potential for Collapsible Ground Stability Hazards				n/a	r/a
Polential for Compressible Ground Stability Hazards			Yes	n/a	p/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 6	Yes	Yes	n/a	n/a
Potential for Bunning Sand Ground Stability Hazards		Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 6	Yes		n/a	n/a
Radon Potential - Hadon Affected Areas			n/a	n/a	n <i>t</i> a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Shallow Mining Hazards	pg 7	Yes		n/a	nta
Industrial Land Use					
Contemporary Trade Directory Entries					
Fuel Station Entries					
Sensitive Land Use					
Areas of Adopted Green Bolt				·····	
Areas of Unadopted Green Belt				•	
Environmentally Sensitive Areas					
Forest Parks				<u> </u>	
Local Nature Reserves					
Marine Nature Reserves			<u> </u>		
National Nature Reserves					
National Parks					
National Scenic Areas		<u> </u>			·
Nitrate Sensifive Areas					
Nitrate Vulnerable Zones	pg 8	1			
Ramsar Siles					
Sites of Special Scientific Interest					
Special Areas of Conscrvation					
Special Protection Areas					



# Agency & Hydrological

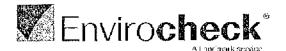
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1         Optimizing the method of the soft and the		Discharge Consent	5				
Pickany Type:         Biol Staght - Heare Gal ad Lachter,         (041)         64889           Lachter,         Biol Staght - Heare Gal ad Lachter,         (041)         64889           Lachter,         Stall Staght - Heare Start - Start Region Heare Anne,         (141)         (141)           Ellichter, Bart,         Stall Staght - Start Heare Anne,         (141)         (141)           Ellichter, Bart,         Stall Staght - Start Heare Anne,         (141)         (141)           Ellichter, Bart,         Stall Staght - Start Heare Anne,         (141)         (141)           Ellichter, Bart,         Stall Staght - Start Heare Anne,         (141)         (141)           Ellichter, Bart,         Stall Start Heare Anne,         (141)         (141)         (141)           2         Operator, Mark Start,         Start Heare Anne,         (141)         (141)         (141)           2         Operator, Mark Start,         Start Heare Anne,         (141)         (141)         (141)         (141)           2         Operator,         Start Heare Anne,         Start Heare Anne,         (171)         (141)         (141)           2         Operator,         Start Heare Anne,         Start Heare Anne,         (171)         (171)         (171)           2         <	1	Operator	Whiteford, W H		79	1	
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Belowine L         WinefESGOS           Permit Vessore L         Hot Supplied           Beckels Date         Not Supplied           Declement Date         Not Supplied           Decl							
Permit Vocanier       1         Betrick Date:       Not Supplied         Permit Vocanier       Status Internet 1900         Dechange Date:       Not Supplied         Perceivery Mater       Supplied         Perceivery Mater       Not Supplied         Perceivery Mater       Not Supplied				i			
bauez Dale.     1251. Initiality 1393       Records Table:     Not Septicify       Dechange Type:     Not Septicify       Records Table:     Not Septicify							
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Discharging         Not Supplied           Reviewing Water         Reviewing Water <t< td=""><td></td><td></td><td>Not Supplied Sontic cank</td><td></td><td></td><td></td><td></td></t<>			Not Supplied Sontic cank				
Environment:       Not Supplied         Receiving Value       Not Supplied         Status:       Not Supplied         Vironary Conserts:       A1333/         2       Operation       Watchent, Weiking J.         2.       Operation       Nationary Conserts:         3.       Operation       Nationary Conserts:         4.       Operation       Nationary Conserts:         5.       Status:       Not Supplied         6.       Not Supplied       (V)         7.       Status:       Not Supplied         7.       Not Supplied       (V)         8.       Status:       Not Supplied         9.       Not Supplied       (V)							
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Positional Accuracy:       Location by exception: 10 within 100m         2       Operation:       An 1997 V         3       Operation:       Non-Section:         4       Operation:       Non-Section:         5       Operation:       Non-Section:         6       Section:       Non-Section:         7       Operation:       Non-Section:         8       Section:       Non-Section:         9       Non-Section:       Non-Section:         1       Elsevent Office:       Non-Section:         2       Operation:       Non-Section:         3       Operation:       Non-Section:         4       Operation:       Non-Section:         5       Operation:       Non-Section:         6       Operation:       Non-Section:         7       Operation:       Non-Section:		Receiving Water					
Discharge Consonts         Watchard, Weismin J         A139W         153         1         351820           2         Operator Proprist vync         Not conf, Weismin J         A139W         103         1         351820           2         Operator         Long weiss         Bioline Tast Long weiss         Bioline Tas		Status:	Not Supplied	1			
2     Operator Property vymore Location: Authory Socialistic Environment: Frankfullian Authory Socialistic Environment: Frankfullian Retention Wprefield     1133     1133     1133     1133       Between Areas Peterini Version: Between Environment Discharge Consense Authory Socialistic Environment Provident Areas Provident Areas Providen		Positional Accuracy:	Located by supplier to within 10010		· ·	······	<u> </u>
2     Operation     (V2)     1     364700       Production     Calcine from Compression Galanti Front J offiain     (V2)     1     364700       Calcine from Compression Galanti Front J offiain     (V2)     1     364700       Calcine from Compression Galanti Front J offiain     (V2)     1     364700       Calcine from Compression Galanti Front J offiain     1     1     3       Permit Version I     Not Supplied     1     3       Didating Procession Galanti Front J offiain     1     3     1       Product The Not Supplied     1     3     1     3       Product Access Rol Load     Not Supplied     1     3     3       Cystation     Not Supplied     1     3     3       Product Access Rol Load     Not Supplied     1     3       Product Product Access Rol Load     1     3     3       Cystation     Watchood Million J     1     3       Product Product From Colland Front Lobian     1     3     3       Cystation     Watchood From Colland Front Million J     1     3       Product Product From Role Colland Front Million J     1     3     3       Cystation Three Million Role Colland     1     3     3       Product Product From Role Colland     <		Discharge Consent	8				
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Addinary     Stabilish Environment Protection Agency, East Region       Catchene Aracs     Not Supplied       Reference     Wpol/5029       Permit Version     I       Elbourse Labor     Not Supplied       Rescalable     Not Supplied		Property type:		(W)			6047C0
Catchmich Aros:       Nol 54, public d         Reference:       VPUES09         Hermit Varsion:       I         Eliscaet Date:       Not Supplied         Essued Date:       Not Supplied         Essued Date:       Not Supplied         Essued Date:       Not Supplied         Discharge Type:       Septic Intri.         Discharge Type:       Not Supplied         Previous Trans.       Not Supplied         Previous Marker       Whiteford, William J         Not Supplied       Not Supplied         Property Type:       Not Supplied         Not Supplied       South Harviermonst Protoclion Agency, East Region         Authomy       South Harviermonst Protoclion Agency, East Region         Christian Commerce       WaterScale         Permit Water       Not Supplied         Permit Water       Not Supplied         Discharge Consents       1         Generation:       Not Supplied         Discharge Consents       1				1			
Reference     WpollES28       Permit Version:     Net Supplied       Elicouse tate:     Net Supplied       Bischarge Concents:     Arigney       2     Operator:       VeryElicouse     Net Supplied       Elicouse:     Net Supplied							1
Fermit Version:     1       Elicous Tatte:     Nat Supplied       Essued Date:     14h July 1967       Reveals Tatte:     Nat Supplied       Discharge Type:     Septie Lank       Discharge Type:     Nat Supplied       Previour Tatte:     Nat Supplied       Brand Accurreg:     Catabase       Discharge Type:     Nat Supplied       Previour Tatte:     Nat Supplied       Operator:     Version (Marcure)       Discharge Consonts     (No)       Coparator:     Version (Marcure)       Discharge Consonts     (No)       Coparator:     Version (Marcure)       Discharge Consonts     (No)       Catchment Area:     Kat Supplied       Location:     Leagnewide Catabase       Catchment Area:     Kat Supplied       Discharge Consonts     (No)       Discharge Consonts     Septies       Parmit Version:     Leagnewide Weils       Discharge Type:     Nat Supplied       Elicourie:     Hill Supplied       Discharge Type:     Nat Supplied       Elicourie:     Hill Supplied       Discharge Type:     Nat Supplied       Discharge Type:     Nat Supplied       Discharge Type:     Nat Supplied       Discharge Type:     Nat Supplied <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Issued Data:     14th July 1967       BessetData:     Not Supplied       Discharge Type:     Septic tank       Discharge Type:     Not Supplied       Bastarge Type:     Not Supplied       Discharge Concents:     Not Supplied       Constant:     Location by supplied to within 100m       Discharge Concents:     Not Supplied       Constant:     Longinowith Called East Lolinon       Location:     Longinowith Called East Lolinon       Calchment Area:     Not Supplied       Bending Date:     Nat Supplied       Calchment Area:     Nat Supplied       Eastarge Date:     Nat Supplied       Eastarge Date:     Nat Supplied       Busicarge Consents:     Nat Supplied       Busicarge Date:							
Boundation Bare:         Not Supplied           Didetary:         Not Supplied           Breaching Water:         Not Supplied           Breaching Water:         Not Supplied           Breaching Water:         Not Supplied           Positional Accuracy:         Located by supplie: to within 160m           Breaching Water:         Not Supplied           Browner:         WebStord, Withian J           Positional Accuracy:         Located by supplie: to within 160m           Browner:         Not Supplied           Positional Accuracy:         Located by supplie: to within 160m           Position:         Lorginewing Reference:           Withold Free Nat Supplied         Not Supplied           Cartering Mater:         Nat Supplied           Position:         Lorginewing Procession Supplied           Beckense:         Withold State           Position:         Nat Supplied           Discharge Consents:         Nat Supplied           Beckense:         Nat Supplied           Discharge Nation:         Nat Supplied           Beckense:         Nat Supplied           Discharge Consents:         Nat Supplied           Beckense:         Nat Supplied           Becharge Consents:         Not Supplied				i			
Dictarge Type:         Septic limit           Dictarge Type:         Not Supplied           Protion math         Not Supplied           Status:         Not Supplied           Positional Accuracy:         Leadsd by supplied           Discharge Consents:         An Supplied           Operator:         Not Supplied           Accuracy:         Locatist by supplied           Accuracy:         Not Supplied           Operator:         Not Supplied           Account of the supplied         At 30WW           Account of the supplied         (NW)           Calcinence:         Not Supplied           Discharge Consents:         Not Supplied           Discharge Type:         Not Supplied           Discharge Type:         Not Supplied           Discharge Type:         Not Supplied           Discharge Type:         Not Supplied           Discharge Consents         1           Discharge Consents         Not Supplied           Discharge Consents         Not Supplied           Version:         Not Supplied           Discharge Consents         1           4         Operator:         Not Supplied           Discharge Consents         1           <				1			
Dick angle     Not Supplied       Function contell     Not Supplied       Becolving Water:     Not Supplied       Positional Accuracy:     Lectord by supplied       Discharge Consents:     Argew       3     Operation:       20     Operation:       21     Operation:       22     Not Supplied       23     Operation:       24     Operation:       25     Operation:       26     1       26     1       26     1       26     1       26     1       26     1       26     1       27     Not Supplied       28     Operator:       29     Not Supplied       20     Not Supplied       20     Section:       20     Not Supplied       20     Status:       20     Not Supplied       20     Not Supplied       21     Scator Mathematic       22     Not Supplied       23     Operator:       24     Operator:       25     Not Supplied       26     Not Supplied       26     Not Supplied       20     Operator:       21			Sentic tank				
Fivier richt:       Not Surplic:1         Brecking Wale:       Not Surplic:1         Status:       Not Surplic:1         Discharge Consents:       0         2       Operator:       Virbitord, William J         3       Operator:       Virbitord, William J         1       Operator:       Virbitord, William J         2       Operator:       Virbitord, William J         1       Construct       Lengnesetin Giffert End Lubitori         1       Caleinmen Ana:       Net Supplied         1       Caleinmen Ana:       Net Supplied         1       Elevine:       Net Supplied         2       Supplied       Net Supplied         2       Elevine:       Net Supplied         3       Discharge Consents       Net Supplied         4       Operator:       Holish Ball         2       Operator:       Net Supplied         2       Operator:       Net Sup				i			
Status:         Not Supplied           Positional Accuracy:         Lecaded by supplie: to within 100m           Discharge Consents:         Ari3NW           3         Operator:         Writeford, Wiltern J           Proparty Type:         Net Supplied           1         Loganewich:         (NW)           2         Operator:         Writeford, Wiltern J           1         Loganewich:         (NW)           1         Loganewich:         (NW)           1         Solution:         Longewich:           1         Solution:         Longewich:           1         Solution:         Not Supplied           1         Solution:         Not Supplied           1         Effective Date:         Not Supplied           1         Effective Date:         Not Supplied           1         Solution:         Solution:           1         Enviconently:         Solution:           1         Solution:         Not Supplied           1         Solution:         Not Supplied           1         Solution:         Not Supplied           2         Not Supplied         Not Supplied           1         Solution:         Not Supplie							İ
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Discharge Consents     Art3NW     206     1     251-01       3     Operation     Writhford, Wilkaur J     Art3NW     206     1     251-01       9     Operation     Longnewten Gilford East Lolinon     (NW)     206     1     251-01       1     Castronic     Longnewten Gilford East Lolinon     (NW)     206     1     251-01       1     Castronic     Longnewten Gilford East Lolinon     (NW)     206     1     256-01       1     Castronic     Wigers     Not Supplied     206     1     251-01       1     Revised East     Not Supplied     206     1     256-001       1     Castronic 1     1     1     206     1     256-001       1     Castronic 1     1     1     206     1     256-001       1     Castronic 1     1     1     206     1     251-01       1     Castronic 1     1     206     1     251-01       2     Supplied     1     206     1     251-01       1     Castronic 1     1     206     1     251-01       1     Castronic 1     Not Supplied     1     251-01     251-01       2     Statues     Not Supplied<			• •				
3     Operation     Wetteford, William J     A. SNW     206     1     351-01       Property Type:     Net Surplied     Longineven Gifford Excl Lothiam     (NW)     965000       Authority:     Soutish Evaluation     (NW)     965000     965000       Catchment Areas:     Not Surplied     965000     965000       Deference:     Wetel:///////////////////////////////////	;	·		_i 1			
3       Cylenator.       Antablob, Vision J.       565001         Progeny Type:       Net Surplied       (NW)       565001         Auffortity:       Solubal-twinnent Protection Agency, East Region       (NW)       565001         Auffortity:       Solubal-twinnent Protection Agency, East Region       (NW)       565001         Calchment Area:       Not Supplied       Increasing type:       Increasing type:       Increasing type:         Effective Date:       Net Supplied       Effective Date:       Net Supplied       Increasing type:       Increasing type:         Discharge       Not Supplied       Environment:       Environment:       Increasing type:       September Supplied         Bischarge Consents       Not Supplied       Status:       Not Supplied       Increasing type:       Setting type:       Setting type:         4       Operator:       Hnikik Rail       Not Supplied       (N)       664600         Location:       Net/Explicit       (N)       664600       664600         Perret/ Type:       Net/Supplied       (N)       664600       664600         Property Type:       Net/Supplied       (N)       664600       664600         Perret/Wersion:       1       Hinkity 196/       664600       (N)       <		Discharge Consent	5	1			0.51.01
Hogsly Type:     Not Supplied       Location:     Longnewton Gilford East Lollman       Authority:     Sociularis Hav rommen Protection Agency, East Region       Catchment Area:     Not Supplied       Destrence:     Wpork/55%       Permit Monitor:     1       Effective Date:     Not Supplied       Discharge     Not Supplied       Discharge     Not Supplied       Discharge     Not Supplied       Browing Water:     Not Supplied       Propity Type:     Not Supplied       Discharge     Loanded by supplier to within 100m       Discharge Consents     A::2612       4     Operator:       Howith Type:     Not Supplied       Authority:     Socatish Environment Protoction Agency, East Region       Catchment Auca:     Not Supplied       Permit Version:     1       Heiser Date:     Not Supplied       Heiser Date:     Not Supplied       Heiser Date:     Not Supplied       Heiser Date:     Not Supplied	3				206	1	
Autronity:       Soulbak Environment Protoction Agency, East Region         Calchment Area:       Not Supplied         Reference:       Wippel/ESA         Pernal Mersion:       1         Effective Date:       Not Supplied         Leaded halo:       14th July 1967         Revealide Date:       Not Supplied         Discharge       Not Supplied         Discharge       Not Supplied         Browing: Wate:       Not Supplied         Proving Wate:       Not Supplied to within 100m         Position:       Hericking         Operation:       Not Supplied to within 100m         Position:       Not Supplied to within 100m         Discharge Consents:       Not Supplied to within 100m         0       Descharge Consents         4       Operation:       Net Supplied Agency, East Region         Authonity:       Socials Environment Protoction Agency, East Region         Catchment Area:       Not Supplied         Location:       Newpark Station Mid othian         Authonity:       Socials Environment Protoction Agency, East Region         Catchment Area:       Not Supplied         Location:       Net Supplied         Estarge Type:       Supplied         Estarge Type:<				((446)			00004/1
Catchment Area:       Not Supplied         Deference:       WpoH2528         Pennit Minition:       1         Effective Date:       Not Supplied         Exactive Date:       Not Supplied         Declamps Type:       Septic tank         Discharge       Not Supplied         Discharge       Not Supplied         Discharge       Not Supplied         Environment:       Not Supplied         Browing Wate:       Not Supplied         Status:       Not Supplied         Operator:       Hnith Pail         Property Type:       Not Supplied Note:         Operator:       Hnith Pail         Property Type:       Not Supplied Note:         I.coalion:       Newsark Station Mid offian         Authority:       Social Protection Agency, East Region         Catchment Accu:       Not Supplied         Heterence:       Wpo/E/2/10         Predice Date:       Not Supplied         Heterence:       Mpo/E/2/10         Provious:       1         Heterence:       Mpo/E/2/10         Provious:       1         Heterence:       Mpo/E/2/10         Provious:       Not Supplied         Essue: <td></td> <td></td> <td>Congrewich Calibrit East Contain Scrubsh Eastronnes: Protection Adeacy (Fast Begiot)</td> <td></td> <td></td> <td></td> <td></td>			Congrewich Calibrit East Contain Scrubsh Eastronnes: Protection Adeacy (Fast Begiot)				
Reference:       Wpo/E/558         Permit Mostion:       1         Effective Date:       Net Supplied         Exace/Date:       Net Supplied         Discharge       Net Supplied         Discharge       Net Supplied         Environment:       Net Supplied         Revocation Date:       Net Supplied         Discharge       Net Supplied         Status:       Not Supplied         Positional Accumes:       Located by supplier to within 100m         Discharge Consents       Art 20E         4       Operation:         Properly Type:       Net Supplied         Location:       Not Supplied         Votation:       Not Supplied         Properly Type:       Net Supplied         Properly Type:       Section Fraviorement Production Agency, East Region         Authority:       Soctable Environment Production Agency, East Region         Authority:       Soctable Environment Production Agency, East Region         Catchment Acad:       Net Supplied         Reference:       Wpo/E/2/0         Permit Version:       1         Herein Version:       1         Herein Version:       1         Herevocation Date:       Net Supplied     <							
Effective Date:       Nat Supplied         Lessed Date:       14th July 1967         Revocation Date:       Nat Supplied         Discharge Type:       Septic tank         Discharge Consents       Not Supplied         Positional Accuracy:       Located by supplier to within 100m         Discharge Consents       A12502         4       Operator:       Hnitsh Rail         Property Type:       Net Supplied         Location:       Net Supplied         Monoiming:       Sociation Mid obtian         Authority:       Sociation Mid obtian			Wpa/E/528				
Lauad Date:       14th July 1967         Revocation Date:       Nat Supplied         Discharge Nat Supplied       Discharge Nat Supplied         Environment:       Not Supplied         Hoodwing: Wate:       Not Supplied         Discharge Consents       Not Supplied         Ø       Operator:         Discharge Consents       (W)         4       Operator:         Property Type:       Net Supplied         Property Type:       Net Supplied         Acceller:       Hritish Rail         Acceller:       Net Supplied         Caternet Asset       (W)         Caternet Asset       (W)         Environment Asset       (W)         Active:       Net Supplied         Heiterence:       Wport2040         Property Type:       Net Supplied         Heiterence:       Wport2040         Property Otto:       Not Supplied         Heiterence:       Wport2040         Property Type:       Net Supplied         Heiterence:       Not Supplied         Laster Date:       Net Supplied         Heiterence:       Not Supplied         Laster Date:       Not Supplied         Envionmant:							
Bevocation Date:       Not Supplied         Discharge       Not Supplied         Discharge       Not Supplied         Environment:       Not Supplied         Historium       Located by supplier to within 100m         Discharge Consents       Located by supplied         Image: Status:       Not Supplied         Discharge Consents       A:2SE         Operator:       Hritish Rail         Property Type:       Net Supplied         NoteWord:       Net Supplied         Authority:       Section Agency: East Region         Catherent Arace:       Net Supplied         Authority:       Sectish Environment Protection Agency: East Region         Catherent Arace:       Net Supplied         Beforence:       Wpc///2040         Permit Version:       1         Efficient Arace:       Net Supplied         Beterence:       Wpc////2040         Permit Version:       1         Efficience Date:       Net Supplied         Bischarge Type:       Sectis Invironment:         Receiving Wate:       Net Supplied         Discharge Type:       Sectis Invironment:         Receiving Wate:       Net Supplied         Bistus:       Net Supplied							
Discharge Type:       Septic tank         Discharge       Not Supplied         Environment:       Hocking Wate:         Hocking Wate:       Not Supplied         Proteining Wate:       Not Supplied         Discharge Consents       At 25E         Joentation:       Hitish Bail         Property Type:       Not Supplied         Property Type:       Not Supplied         Location:       Net Supplied         Property Type:       Not Supplied         Location:       Network Station Mid othian         Authority:       Sectish Environment Protection Agency, East Region         Catchment Arac:       Not Supplied         Reference:       Wpo/E/040         Permit Version:       1         Efficive Date:       Not Supplied         Issued Date:       14th July 1967         Hevocation Date:       Not Supplied         Discharge Type:       Not Supplied         Discharge       Not Supplied         Discharge Type:       Not Supplied         Discharge Type:       Not Supplied         Bischarge Type:       Not Supplied         Discharge Type:       Not Supplied         Discharge Type:       Not Supplied <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Discharge       Net Supplied         Environment:       Net Supplied         Hordwing: Wate:       Net Supplied         Status:       Not Supplied         Positional Accuracy:       Located by supplier to within 100m         Discharge Consents       A:2SE         4       Operator:       Hritish Fail         Property Type:       Net Supplied         Location:       Newpark Station Midlothian         Authority:       Sectish Environment Protection Agency, East Region         Catchment Auco:       Net Supplied         Heferenco:       Wpo/E/340         Permit Versiou:       1         Historie:       Net Supplied         Issued Date:       14th July 1967         Hevocation:       Net Supplied         Discharge Type:       Net Supplied         Environment:       Net Supplied         Discharge Type:       Net Supplied         Environment:       Net Supplied         Environment:       Net Supplied         Environment:       Net Supplied         Environment:       Net Supplied         Status:       Net Supplied		Discharge Type:	Septic tank				
Environment:       Receiving Water:       Not Supplied         Receiving Water:       Not Supplied         Status:       Not Supplied         Positional Accuracy:       Located by supplier to within 100m         Discharge Consents       A:2SE         4       Operator:       Hnitsh Rafil         Property Type:       Net Supplied         A:2SE       512         1       351000         664600       (W)         Catchinent Area:       Net Supplied         Reference:       Water:         Water:       Not Supplied         Heference:       Water:         Permit Version:       1         Heference:       Water:         Not Supplied       Itel Provide Accurate Accura		Discharge	Not Supplied	1	1		
Status:       Not Supplied         Positional Accuracy:       Located by supplier to within 100m         Discharge Consents       A:2SE       512       1       381000         0 Operator:       Hritish Raft       A:2SE       512       1       381000         Property Type:       Net Supplied       (W)       664600         Location:       Newpark Station Mid othian       (W)       664600         Arthority:       Sectish Environment Protection Agency, East Region       (W)       664600         Catchment Area:       Net Supplied       664600       664600         Permit Wersion:       1       Ffective Date:       Not Supplied       664600         Issued Date:       Not Supplied       140, ukg 1067       140, ukg 1067       140, ukg 1067         Hevocation Date:       Not Supplied       140, ukg 1067       140, ukg 1067       140, ukg 1067         Dacharge       Not Supplied       140, ukg 1067       140, ukg 1067       140, ukg 1067       140, ukg 1067         Bacharge       Not Supplied       Not Supplied       140, ukg 1067       140, ukg 1067       140, ukg 1067         Bacharge       Not Supplied       Not Supplied       140, ukg 1067       140, ukg 1067       140, ukg 1067       140, ukg 1067			Not Supplied				İ
Positional Accuracy:       Located by supplier to within 100m         Discharge Consents       Arastic         4       Operation:       Hnitsh Rafi         4       Operation:       Net Supplied         1       Discharge Consents       (W)         4       Operation:       Net Supplied         1       Discharge Consents       (W)         4       Operation:       Net Supplied         1       Discharge Consents       (W)         1       Station Mid offnian       (W)         1       Arastic Property Type:       Net Supplied         1       Catchment Aradi:       Net Supplied         1       Reference:       Wpo/E/340         1       High Protection Agency, East Region       1         1       Heference:       Wpo/E/340         1       Heference:       Wpo/E/340         1       High Protection Agency, East Region       1         1       Heference:       Net Supplied         1       Heference:       Net Supplied         1       Heference:       Net Supplied         1       Heference:       Net Supplied         1       Statue:       Net Supplied         1 <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td>				1			
Discharge Consents     A:2SE     512     1     331000       4     Operator:     British Rail     (W)     664600       Property Type:     Net Supplied     (W)     664600       Location:     Newpark Station Midlothian     (W)     664600       Arthority:     Socitish Environment Protection Agency, East Region     (W)     664600       Catchment Area:     Net Supplied     664600       Reference:     Wpc/E/340     (W)     664600       Permit Version:     1     1     1       Effective Date:     Not Supplied     1     1       Herocation Date:     Not Supplied     1     1       Escharge Type:     Septic bank     1     1       Decharge     Not Supplied     1     1       Environment:     Receiving Water:     Not Supplied     1       Environment:     Not Supplied     1     1						]	
4     Operator:     British Bail     A:2SE     512     1     331000       Property Type:     Net Supplied     (W)     664600       Location:     Newpark Station Mid/othian     664600       Authority:     Sectish Environment Protection Agency, East Region     (W)     664600       Catchment Area:     Net Supplied     664600       Permit Version:     1     664600       Issued Date:     Not Supplied     664600       Environment:     Not Supplied     664600       Dath args:     Not Supplied     664600       Environment:     664600     664600       Environment:     664600     664600       Environment:     664600     664600			· · · · · · · · · · · · · · · · · · ·				
4     Operator:     Finish Pain       Property Type:     Net Supplied       Location:     Newpark Station MidPothian       Authority:     Sectish Environment Protection Agency, East Region       Catchment Arus:     Net Supplied       Reference:     Wpc/E/340       Permit Version:     1       Pfscrive Date:     Net Supplied       Issued Date:     14th July 1967       Hervocation Date:     Net Supplied       Discharge Type:     Septie tank       Discharge     Net Supplied       Environment:     Receiving Water:       Receiving Water:     Net Supplied				6:20JT	512	1	351000
Hopfany Type:       Newpark Station Mid/ofbian         Authority:       Socitish Environment Protection Agency, East Region         Catchment Area:       Net Supplied         Reference:       Wpc/E/340         Permit Version:       1         Heference:       Not Supplied         Issued Date:       14th July 1967         Reversion:       1         Effective Date:       Not Supplied         Date:       14th July 1967         Hevocation:       1         Effective:       Not Supplied         Escharge:       Not Supplied         Environment:       Not Supplied         Environment:       Not Supplied         Status:       Not Supplied	4						
Authority:       Sectish Environment Protection Agency. East Region         Catchment Area:       Not Supplied         Reference:       Wpc/E/340         Permit Version:       1         Effective Date:       Not Supplied         Issued Date:       14th July 1967         Revocation Date:       Not Supplied         Discharge Type:       Septie bank         Discharge:       Not Supplied         Environment:       Receiving Water:         Receiving Water:       Not Supplied         Status:       Not Supplied							
Catchment Area:       Not Supplied         Reference:       Wpo/E/240         Permit Version:       1         Effective Date:       Not Supplied         Issued Date:       14th July 1967         Hevocation Date:       Not Supplied         Discharge Type:       Septic bank         Dacharge:       Not Supplied         Environment:       Receiving Water:         Receiving Water:       Not Supplied						•	
Permit Version:       1         Effective Date:       Not Supplied         Issued Date:       14th July 1967         Hevolation Date:       Not Supplied         Discharge Type:       Septie bank         Dacharge       Not Supplied         Environment:       Freceiving Water:         Not Supplied       Status:		Catchment Area:	Not Supplied				
Effective Date:       Not Supplied         Issued Date:       14th July 1967         Revolation Date:       Not Supplied         Discharge Type:       Septic bank         Discharge:       Not Supplied         Environment:       Receiving Water:         Not Supplied       Status:	ł				•		
Issued Date: 14th July 1967 Hevocation Date: Not Supplied Discharge Type: Septic bank Dacharge: Not Supplied Environment: Receiving Water: Not Supplied Status: Not Supplied	ţ						
Hevocatica Date: Not Supplied Discharge Type: Septie brok Discharge: Not Supplied Environment: Receiving Water: Not Supplied Status: Not Supplied							
Dacharda Not Supplied Environment: Receiving Water: Not Supplied Status: Not Supplied	ľ	Revocation Date:	Net Supplied				
Environment: Receiving Water: Not Supplied Status: Not Supplied							
Receiving Water: Not Supplied Status: Not Supplied			NotSupplied				
Status: Not Supplied			Not Supplied				
		Positional Accuracy:	Located by supplier to within 100m				



# Agency & Hydrological

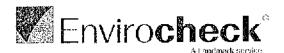
Map ID		Details	Quadrant Helerence (Compass Direction)	Estimated Distance From Site	Contact	NGR
ţ	Discharge Consent Operation Property Type: Lecation: Authonty: Catchment Area: Reference: Permit Version: Effective Date tesued Date: Discharge Type: Discharge Envenment.	Truquair William A Not Supplied Kidfaw Golord East Lotaian Scottish Cavironment Protection Agency East Region Not Supplied Vipc/E/573 1 Not Supplied Supplied Supplied Supplied Supplied Not Supplied	A/NE (SW)	594	ł	351100 861300
	Receiving Water: Status: Positional Accuracy: Discharge Consent	Not Supplied Not Supplied Located by supplier to within 100m	 			
6	Operator Property Type: Locaten: Authority: Catchrnent Aras: Reference: Permit Version Effective Date: Isened Date: Bischarge Type: Discharge Environment: Helenving Water: Status: Pesitional Accuracy:	Rogan, Rev Dr R H Nol Supplieri Mid Latch Gifford East Lothian Scattish Environment Protection Agency, East Region Not Supplied Wpc/E/3380 1 Not Supplied Septied Task Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Located by supplier to within 100m	 Λ14SE (⊢)	718	1	352300
6		Rogan, William H Not Supplied West Latch Scottish Environment Protection Agency, Hast Region Not Supplied 23th October 1974 Not Supplied Septic tank Not Supplied Not Supplied Not Supplied Located by supplier to within 100m	 A14SE. (E).	719		352000
7	Discharge Consent Operator: Properly Type: Encation: Authority: Catchmont Area: Reference: Permit Version: Effective Date: Receive Date: Recocation Date: Discharge Environment: Recoiving Water: Status: Pesilional Accordor	s Mointosh Reid, A K Not Supplied Newtonhall Farm Gillord Scottish Environment Protection Agency, East Region- Not Supplied Wpc/F/1090 1 Not Supplied 27th July 1970 Not Supplied Soptie Tark Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Tocated by supplier to within 100m	 A19NW (N트)	753	1	35 : 900 665500

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# Agency & Hydrological

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consent Operator: Property Type: Location: Authority. Catchment Area: Hiclement Area: Hiclement Area: Hiclement Area: Berview Date Issued Date: Bisced Date: Discharge Type: Discharge Type: Dischar	s Scotl, P.R Not Suppled West Catch Form Near Gifford East Lothian Scott sh Environment Protection Agency, East Region Not Suppled Wpc/E/4076 I Not Suppled Tath February 1983 Not Suppled Septe tank Not Suppled Not Suppled Not Suppled Not Suppled Located by supplier to within 100m	A14SF (C)	818	I	352400 064700
	· · ·····	Robertson Brolhers Not Supplied SI Martins Gate Workshop Haddioglon Scallish Environment Protection Agency, East Region Tyne (Soctland) Wpc/E/6647 1 Not Supplied 22nd March 1594 Not Supplied Discharge Of Other Malter-Surface Water Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied	ASSE (S)	878		351850 663900
	Nearest Surface Wa		A1SNW (NW) _	146		361345 664872
10	Water Abstractions Operator: Licence Numbar: Permit Version: Location: Authority: Abstraction Type: Scarce, Daily Rate (m3): Yearly Rate (m3): Details: Acthorized Start Authorized End: Permit Start Date: Permit End Date:	East Scotland Wate: Anthodiy 2005 Not Supplied Kidlaw Intake Scottish Executive, Agriculture, Environment and Fisheries Department Public Water Supply Not Supplied Feeder 200 73000 Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied	A/SE (SW)	747	2	351100 664100
	Water Abstractions Operation: Licence Number: Permit Version: Focation: Authority: Abstraction Type: Source: Daily Pate (m3): Details: Authorised Start Authorised Start Authorised Start Permit Start Date Permit Start Date Permit End Date: Pesitional Accuracy.	East Scotland Water Authodity 2011 Not Supplied Witches Knowe, Lothian Scottish Executive, Agdotisture, Environment and Fisheries Department Public Water Supply Not Supplied Compensation Reservolr Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied Not Supplied	A3NE (S)	11!3	2	351600 683600



# Agency & Hydrological

	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Silte	Contact	NGR
	<u></u> 영상법이 이번 <u>경에서 이</u> 성장은 <u> 이</u> 번에 <u>지 (</u> )는 것이		<u></u>	<u></u>	<u></u>
Water Abstractions		AC-5031	1221	2	351400
Operator:	Unknown Operator Unknown Licence Number	ASNW (S)	· 1 <u>~~</u> 1	~	663500
Licence Number: Permit Version:	Not Supplied	. (-)			
Location:	Lammedoch Beserveir, Lothian				
Authority:	Scotlish Executive, Agriculture, Environment and Fisheries Department				
Abstraction: Abstraction Type:	Public Water Supply Not Supplied				
Seurce:	Unknown				
Daily Rate (m3):	Not Supplied				
Yearly Hate (:63): Dotails:	Not Supplied Not Supplied				
Authorised Start	Not Supplied				
Authorised End:	Not Supplied	;			
Permit Start Dato: Permit End Dato:	Not Supplied Not Supplied				
	Encated by supplier to within 100m				
· · · · · · · · · · · · · · · · · · ·					
Water Abstractions	Land Construed Western And/op/its	A3SW	1075	2	351500
Operator: Licence Number:	Erist Scotland Water Authority 2007	(S)	1010	-	063400
Permit Version:	Not Supplied	• /			
Location:	Fammedoch Reservoir				
Authority: Abstraction:	Scottish Executive, Agriculture, Environment and Fisherics Department Public Water Supply				
Abstraction: Abstraction Type:	Not Supplied				
Soumo:	Reservoir/Pond				
Daily hate (mS):	200 73000				
Yearly Hate (m3): Details:	Not Sapplindi				
Authorised Stad:	Not Supplied				
Authorised End:	Not Supplied				
Permit Start Date: Permit End Date:	Not Sapplied Not Supplied				
Polational Accuracy:	Located by supplier to within 100m				
Water Abstractions	· · · · · · · · · · · · · · · · · · ·				
Cperator:	Unknown Operator	(S)	1724	2	35170
Licence Number:	Unknown Licence Nember				660000
Permit Version:	Not Supplied				
Location:	Kidlaw Intake, Lothian Scotlish Executive, Agriculture, Environment and Fisherics Department	:			
Authority: Abstraction:	Public Water Supply				
Abstraction Type:	Not Supplied				
Source:	Unknown				
Daily Nate (m3): Yearly Eate (m3):	Not Supplied Not Supplied				
Details:	Not Supplied				
Authorised Start:	Not Supplied				
Authorised End: Permit Start Date:	Not Supplied Not Supplied	:			
Permit End Date:	Not Support				
Positional Accuracy:	Located by supplier to within 100m	<u> </u>			
Groundwater Vulne	rability	ļ			
Geological	Major or Highly Pormeable Aquifer - Highly permuable shota usually with a	Atose	0	я	351573 664763
Classification:	known or probable presence of significant fracturing Soils of Low Leaching Potential - Soils in which pollutants are unlikely to	(E)			06476.
Soil Classification:	penetrate the soil layer because water movement is largely horizontal or they				
	have large ability to attenuate duruce pollutants				
Map Sheet:	Map of Scotland				
Scale:	1:625,000	·			
Groundwater Vulne		41005		2	176-41 ×
Ceological	Major or Highly Permeable Aquiler - Highly permeable strate usually with a known or probable presence of significant tractaring	A13SE (E)	0	3	35157 664763
Classification: Soil Classification:	Soils of High Leaching Potential - Soils with little ability to attenuate diffuse	(-)			
Sen Gracomoditivati	source pollutants and in which non-absorbed diffuse source pollutants and				
	liquid discharges will perectale rapidly				
Map Shoet: Scale:	Map of Scotland 1:625,000				
Drift Deposits	and the state of the state of the state of the state of the state of the state of the state of the state of the	1 4 1 1 1	0	з	35153(
Drift Deposit:	Low permentuity drift deposite which include till, head, peak, lacustring deposite, clay-with-flinte and brick earths	At3NE (E)	U	5 .	66178
Map Sheet:	Repotes, day-with-times and brick earlies.			1	
Scale:	1.625,000				
River Flood Data (S	colland)				
		1			

Date: 19-Dec-2007



# Waste

Map ID		Detáils	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority La	ndfill Coverage				
Ē	Name:	Eas: Lothian Council - Has supplied fandfill data		0	6	351431 661503



# Geological

	Details	Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
BGS 1:625,000 Solid Geology					İ
Description: Ashgill and Ca	racioc	A13NW (NW)	0	4	35149 65183
Coal Mining Affected Areas					
In an area which may not be affected	······································	· · · · · · · · · · · · · · · · · · ·			
Potential for Collapsible Ground	Stability Hazards				
No Hazard Potential for Compressible Grour	d Stability Hugards	· · · · · · · · ·			+ . —
Hazard Potential: No Howard		A10NW	Ō	1	35142
Source: British Geolog	cal Survey, National Goose and Information Service	(W)		<u> </u>	66480
Potential for Compressible Groun	d Stability Hazards	A13NW	46	4	35142
<ul> <li>Hazard Potential: Moderate</li> <li>Source Dritish Geolog</li> </ul>	cal Survey, National Geoscience Information Service	(W)			66486
Potential for Compressible Grour	d Stability Hazards				1
Hazard Fotontial: Moderate	cal Survey, National Geoscience Information Service	A13SE · (E)	216	4	9518 60470
				-	
Potential for Ground Dissolution	otaonny maanke				
Potential for Landslide Ground S	ability Hazards			1	
Bazard Potential: Monté ou		A13NE	0	4	35152 66500
	cal Survey, National Geoscience Information Service			· · · ·	
Potential for Landslide Ground S	ability Hazards	A13NE	164	4	35162
Hazard Potential: Very Low Source: British Goolog	cal Survey. National Geoscience Information Service	(N)			66500
Potential for Landslide Ground S	ability flazards				
Hazard Potentia' Low	nal Survey, National Geoscience Information Service	A13SW (SW)	189	4	3513. 66460
Source: British Geolog Potential for Landslide Ground S			- · · ·	ĺ	· ·
Hozard Pritentiai: Low		A13SW	244	4	3513
Source: British Geolog	cal Survey, National Geoscience Information Service			· · · ·	66453
Potential for Running Sand Grou	nd Stability Hazards	AI3SE	σ	1	35153
Hazard Potential: Low Source: British Geolog	cal Survey, National Geoscience Information Service	(S)			6647
Potential for Dunning Saud Grou					
Hazard Polential: Vervii ow		A13SE (S)	0	Ζ.	; 2515: 66477
	ical Survey, National Geoscience Information Service	(3)	<u> </u>	+	
Potential for Running Sand Grou Hazard Potential: Low	na Stability Hazards	A1360	10	4	3515
Source: British Geolog	cal Survey, National Geoscience Information Service	(SE)		i	66475
Potential for Bunning Sand Grou	ed Stability Hazards			А	2510
i lazard Potential: Low Source: British Geolog	ical Survey, National Geoscience Information Service	A IBNW (W)	155	4	- 3513: 6648
Potential for Running Sand Grou			<u>+</u>	· · ·	: 1
Hazard Potential: No Hazard		A135W	214	4	5514: 66453
· · · · · · · · · · · · · · · · · · ·	ical Survey, National Cooscience Information Service	(5)	· ··· -	:	0.0463
Potential for Hunning Sand Grou	nd Stability Hazards	ATOSE	216	4	35180
Hazard Potential: Low Source: British Goolog	ical Survey, National Geoseence Information Service	(E)		! 	6647
Potential for Shrinking or Swellin	g Clay Ground Stability Hazards		•		
Pazard Potential: Very Few Services Potential: Points Cooled	ical Survey, National Geoscience Information Service	A13SE (S)	0	-1	35453 6647
Source:British Goolog Potential for Shrinking or Swellin	·	·			† • •
: Hastard Potential No Hazard		A13SE	0	4	35162
Source: British Geolog	roat Survey, National Geoscience Information Service	<u>(S)</u>			66677
Potential for Shrinking or Swellin	g Clay Ground Stability Hazards	A15SE	10	4	Sti 151
<ul> <li>Havam Potentiai: No Hazard</li> <li>Source: British Geolog</li> </ul>	ical Survey, National Geoscience Information Service	(SE)	1		6647
Potential for Shrinking or Swellin	······································				
Havard Petential No Pazard		A 13NW	lə5	1	0513) 6649
_ [	ical Survey, National Geoscience Information Service	(W)	·	. <b>!</b>	
Radon Potential - Radon Affecte	l Areas	1			

Order Number: 23871877\_1 | Date: 19-Dec 2007

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A Landmark Information Group Service



# Geological

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Mup ID		Details	Ouadrant Helerence (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Polential - R	adon Protection Measures				
	No Data Availabie					
:	Shallow Mining Haz	ards				
	Hisk Source:	Low Hiftish Geological Survey, National Geoscience Information Service	A13SE (SE)	0	4	851576 654699

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# Sensitive Land Use

Map /		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact NGR	
11	Nitrate Vulnerable Name: Description: Source:	Zones Lectuar / Bartlers Groundwater Scottish Executive, Geographic Information Service	(S)	:1	+ 052276 662577	



Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
East Lothian Council	August 2007	Annual Heding Update
Scotlish Borders Council	November 2007	Annual Bolling Update
Discharge Consents Scottish Environment Protection Agency - East Region	June 2001	Variable
Enforcement and Prohibition Notices Sootlish Environment Protection Agency - East Region	.luty 2006	As notified
Integrated Pollution Controls Scottish Environment Protection Agency - Head Office	February 1998	Variable
Scottish Environment Protection Agency - East Region	March 2002	Variable
Local Authority Pollution Prevention and Controls Scottish Environment Protection Agency - East Region	March 2002	Variable
Nearest Surface Walter Feature Ordnance Survey	October 2007	Ouarteriy
Prosecutions Relating to Authorised Processes Scottish Environment Protection Agency - East Region	March 2007	As notified
Prosecutions Relating to Controlled Waters Scotlish Environment Protection Agency - East Region	March 2007	As notified
Registered Radioactive Substances Scottish Environment Protection Agency - East Region	April 1996	Variable
Scollish Environment Protection Agency - Head Office	January 1998	Variable
River Quality Scottish Environment Protection Agency - Head Office	December 1990	Not Applicable
Water Abstractions Scottish Executive - Agriculture, Environment and Historics Department	December 1997	Not Applicable
Water Industry Act Referrals Scottish Environment Protection Agency - East Region	April 1996	Variable
Groundwater Vulnerability Subtish Environment Protection Agency - Head Office	December 1995	Not Applicable
Drift Deposits Scottish Environment Protection Agency - Liead Office	December 1995	Not Applicable

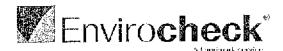


A Landmank server	<del></del>	The formation of the second
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1998	Net Applicable
ntegrated Pollution Control Registered Waste Sites Soutish Environment Protection Agency - Head Office Sootish Environment Protection Agency - East Region	January 1998 March 2002	Variable Variable
ocal Authority Landfill Coverage east Lothian Council Scottish Borders Council	May 2000 May 2000	Not Applicable
Local Authority Recorded Landfill Sites East Lothian Council Scottish Borders Council	May 2000 May 2000	Not Applicable Not Applicable
Registered Landfill Sites Scottish Environment Protection Agency - East Region Scottish Environment Protection Agency - East Region - Perth Office	December 2005 December 2005	Not Applicable Not Applicable
Registered Waste Transfer Sites Scotlish Environment Protection Agency - East Region Scotlish Environment Protection Agency - East Region - Porth Office	December 2005 December 2005	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Scottish Environment Protection Agency - East Region Scottish Environment Protection Agency - East Region - Parth Office	December 2005 December 2005	Not Applicable Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safely Executive	October 2007	Di-Annualiy
Explosive Sites Health and Sately Executive	August 2007	Bi Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements East Lotnian Council - Planning Department Scottish Borders Council - Planning Department	February 2007 September 2007	Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents East Lothian Council - Planning Department Scottish Borders Council - Planning Department	February 2007 September 2007	Annual Rolling Update Annual Rolling Update

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Geological	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	Cetober 2007	Bi-Annually
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	January 2006	As notified
Mining Instability Ove Arup & Parlners	Celabor 2000	Not Applicable
Natural and Mining Cavities Pelor Brott Associates	December 2005	Variable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	November 2006	Annualiy
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	November 2006	Annualiy
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	November 2006	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	Aprīl 2007	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	November 2006	Annuaily
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	November 2006	Annually
Shallow Mining Hazards British Geological Survey - National Geoscience Information Service Industrial Land Use	August 2002	Not Applicable
Contemporary Trade Directory Entries Thomson Directories	August 2007	Quarteriy
Fuel Station Entries Catalist Ltd - (Fuel Station Data)	October 2007	Quarterly



Sensitive Land Use	Version	Update Cycle
Environmentally Sensitive Areas Scottish Executive Geographic Information Service	November 2007	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves East Lothian Council	November 2007	Bi Annually
Marine Nature Beserves Scottish Natural Heritage	November 2007	Bi-Annually
National Nature Reserves Scottish Natural Heritage	November 2007	Bi-Annually
National Parks Scottish Natural Heritage	Novembor 2007	Br-Annually
National Scenic Areas Scottish Natural Heritage	November 2007	Bi-Annually
Nitrate Vuinerable Zoncs Scotlich Executive - Geographic Information Service	May 2007	Annualty
Ramsar Sites Scottish Natural Heritage	Novembor 2007	Bi Annually
Siles of Special Scientific Interest Scotlish Natural Heritage	November 2007	Bi-Annually
Special Areas of Conservation Scottish Natural Heritage	November 2007	Bi-Annually
Special Protection Areas Scottish Natural Heritage	November 2007	Bi-Annually

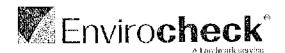


# **Data Suppliers**

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Const Contraince Survey*
Environment Agency	Agency
Scottish Environment Protection Agency	
The Coal Authority	COAL AUTTORITY
Brilish Geological Survey	British Geological Survey
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology
Countryside Council for Wales	CYNGOR CEEN GWEAD CYMRU COUNTRYSIDE COUNCIL FOR WALFS
Scottish Natural Heritage	SCOTTISH NATURAL HEHITACL UMASA
Natural England	EN GLANIK
Health Protection Agency	
Ove Arup	ARUP
Poter Brett Associates	place

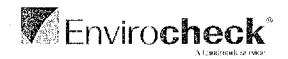
Date: 19-Dec-2007



# **Useful Contacts**

Contact	Name and Address	Contact Details
<u>1</u>	Scottish Environment Protection Agency - East Region Clearwater House, Herlot Watt Research Park, Avenue North, Riccarton, Edinburgh, Midtothian, EH14 4AP	Telephone: 0131 449 7296 Fax: 0131 449 7277
2	Scottish Executive - Agriculture, Environment and Fisheries Department Pentland House, 47 Robb's Loan, EDINBURGH, Midlothian, EH14 11Y	Telephone: 0131 2446255 Fax: 0131 2146256
3	Scottish Environment Protection Agency - Head Office Erskine Court, The Castle Business Park, Stirling, Stirlingshire, FK3 4TR	Telephone: 01/86 457700 Fax: 01786 446885
4	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12566	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Websile: www.bgs.ac.uk
5	Scottish Executive - Geographic Information Service Area 1J88, Victoria Quay, Edinburgh, EH6 6QQ	Telephone: 0131 5568400 Fax: 0131 2448240 Email: ceu@scotland:gov.uk Website: www.scotland:gov.uk
6	East Lothian Council Council Buildings, Court Street, Haddington, Fast Lothian, EH41 3HD	Telephone: 0162 082 7827 Fax: 0162 082 7868 Website: www.castlothian.gov.uk
-	Health Protection Agency Chilton, Didcot, Cafordshire, OX11 0RQ	Telephone: 01235 831600 Fax: 01235 833891 Website: www.hpa.org.tik
	Landmark Information Group Limited The Smith Centro, Heriley On Thames, Oxfordshire, RG9 6AB	Telephone: 0870 850 6670 Fax: 0870 850 6671   Email: customerservices@landmarkinfo.co.uk   Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / SEPA have a charging policy in place for originates



# Envirocheck<sup>®</sup>Report: BGS Boreholes Datasheet

## **Order Details:**

Order Number: 23871877\_1\_1

Customer Reference: E8538

National Grid Reference: 351530, 664780

Slice: A

Site Area (Ha): 0.81 Borehole Search Buffer (m): 1000

## Site Details:

Longnewton Farmhouse Haddington EH41 4JW

## **Client Details:**

Mr N Henderson David R Murray & Associates 150 St John's Road Edinburgh El 112 8AY



Order Number: 23871877\_1\_1 Date: 19-Dec-2007

Dec-2007 rp



# **BGS Boreholes Summary**

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
BGS Bareholes	pg. 1	None	1	1	2

#### Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the

 Full multiplies of contamination, as it does the potential sources of contamination
 For this reason, Landreuk's Site Sensitivity maps and Patasiona(s) place gent engineers on statutory data provided by the Environment Agency and the Seatish
 For romment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights
 bydrogeological features required by environmental and geotechnical consultants. If does not include any information concerning past uses of land. The datasheet is produced by goerying the Landmark database to a distance detroid by the climit from a site boundary provided by the client

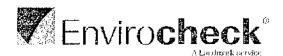
In the attached datasheet the National Grid Beferences (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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A copy of the BQS Berenete Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Report Version v31.0



# **BGS Boreholes Detail**

Map 1D		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Boreholes					
12	BGS Reference: Drilled Length (m): Barehole Name:	Nt56sw8 3 Long Newton, Pb	A10NE (NE)	101	4	351670 664850
	BGS Boreholes					
13	BGS Reference: Drilled Length (m): Barehale Namit	NB6aw1 i 1 Kislaw Bern, Yester, E	A18SW (N)	456	1	351430 635290
[	BGS Boreholes					
14	BGS Reference: Drilled Length (m): Borehole Name:	NBSnw3 3:0 Skodebush, Ynster B	A12NF (NW)	986	4	350910 665610
	BGS Boreholes					
15	BGS Reference: Drilled Length (m): Borchold Name:	NIS6aw17 6.5 A68 Scutra Scuth: Oxton Improvement 9	A12NW (W)	903	۷	250524 665098



# **Data Currency and Contact Details**

BGS Boreholes	Version	Update Cycle
BGS Borcholes Dritish Geological Survey - National Geoscience Information Service	October 2007	Quanerly
Contact Dctails	Conta	act Logo
4 British Geological Survey - Enquiry Service	British	·····
British Geological Survey, Kingsley Dunham Centre, Keyworth, Nettingham.	(865) Geolog	ical Survey
Nottinghamshire, NGT2 5GG Telephone: 0115 936 3143 Fax: 0135 936 3276		ical Survey vironment research council
Nottinghamshire, NG12 5GG Telephone: 0115 936 3143		•
Nottinghamshire, NGT2/5GG Telephone: 0115/936/3143 Fax: 0115/936/3276 Email: enquiries@bgs.ac.uk		•
Nottinghamshire, NGT2 5GG Telephone: 0115 936 3143 Eax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk		VIRONMENT RESEARCH COUNCIL
Notlinghamshire, NG12 3GG Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk Website: www.bgs.ac.uk		NIRONMENT RESEARCH COUNCIL
Notlinghamshire, NG12/3GG Telephone: 0115/936/3143 Fax: 0115/936/3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk - Landmark Information Group Limited The Smith Centre, Hentey On Thames, Oxfordshire, RG9/6AB		VIRONMENT RESEARCH COUNCIL



# Agency and Hydrological

## Groundwater Vulnerability - Slice A

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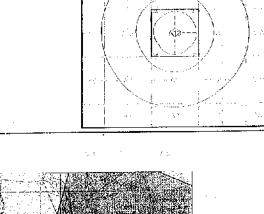
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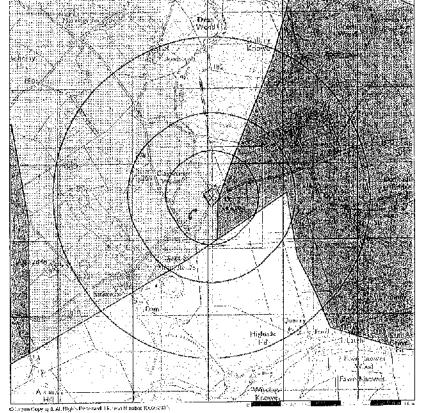
Order Number: Customer Ref: National Grid Reference: Slice: Site Area (Ha): Search Huffer (m):

23871877, 1.,1 F8538 351530, 664780 A 0.81 1000

#### Site Details

Longnewton Farmhouse, Haddington, EH41 4JW





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# Agency and Hydrological

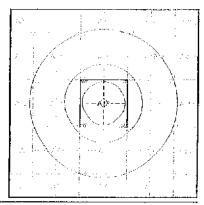
#### Source Protection Zones - Slice A

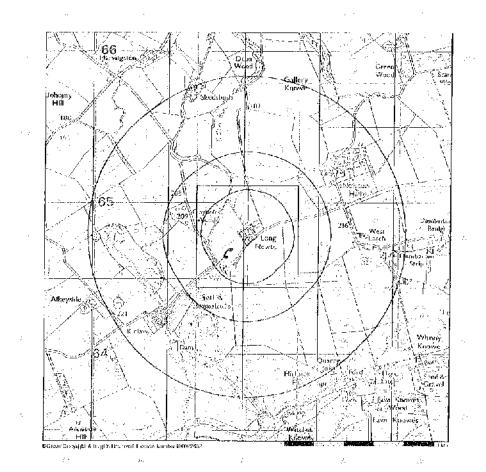
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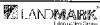
#### Site Details

Longnewton Farmhouse, Haddington, EH41 4JW





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Roud Used as a Public Path	E Map ID	2 Final of Special Interest
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<ul> <li>National Trail of Long Distance Route</li> </ul>		
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#### **Order Details**

Order Number: Customer Ref: National Grid Reference: 351530, 664/80 Slice: Site Area (Ha): Search Buffer (m):

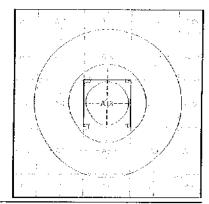
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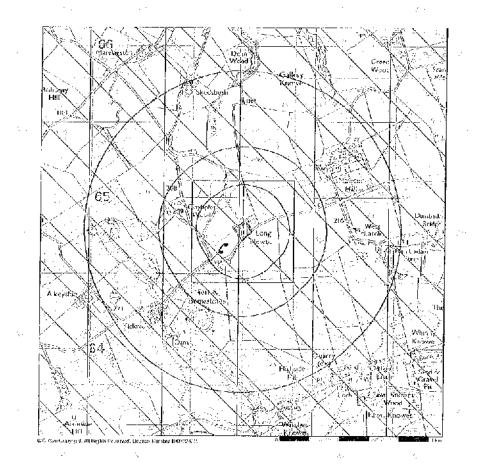
#### Site Details

Longnewton Farmhouse, Haddington, EH41 4JW

## Sensitive Land Uses

#### Sensitive Land Uses - Slice A

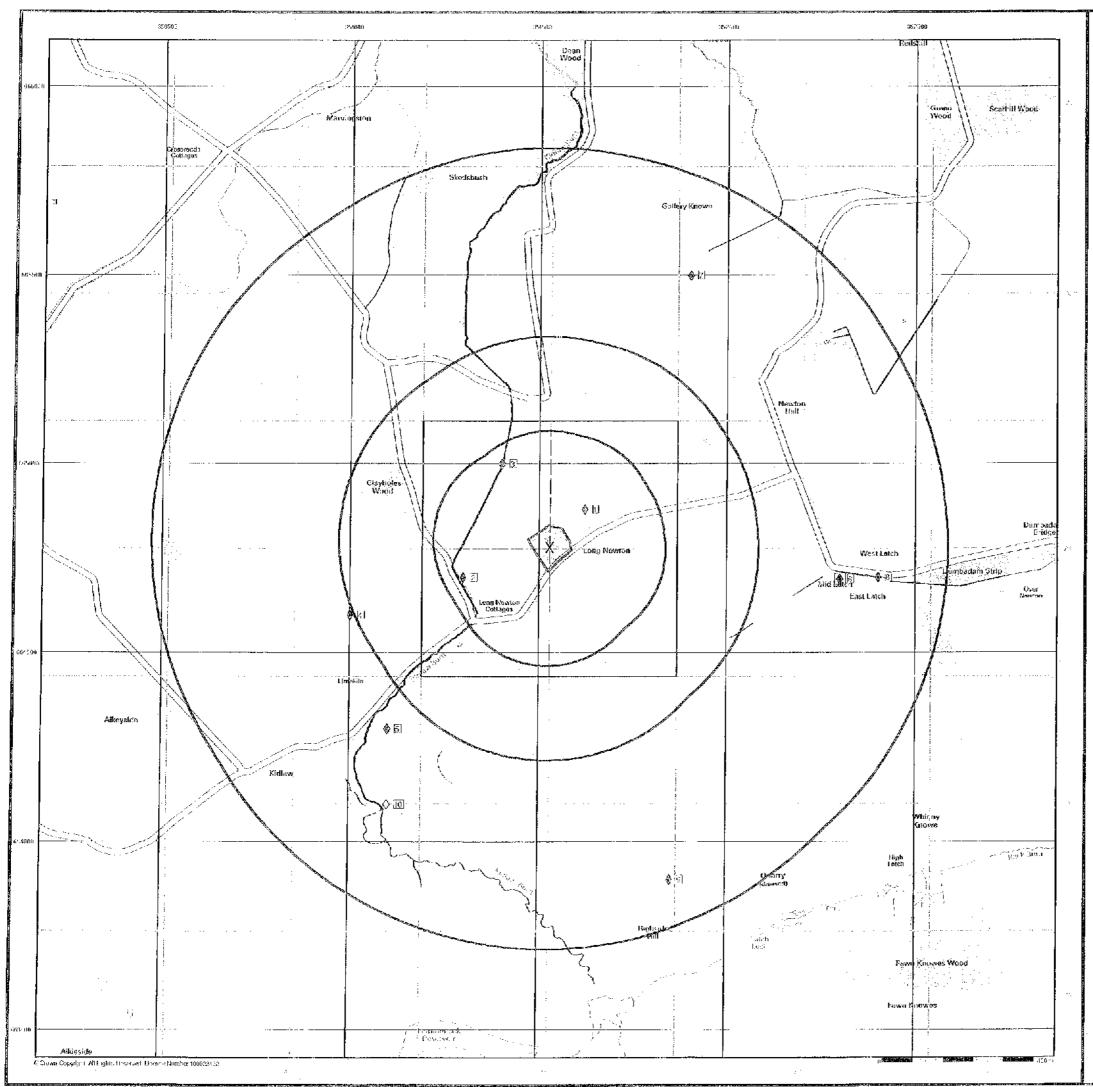




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#### General

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#### Industrial Land Use

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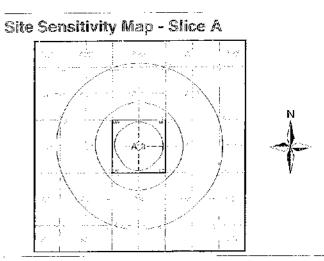
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#### **Hazardous Substances**

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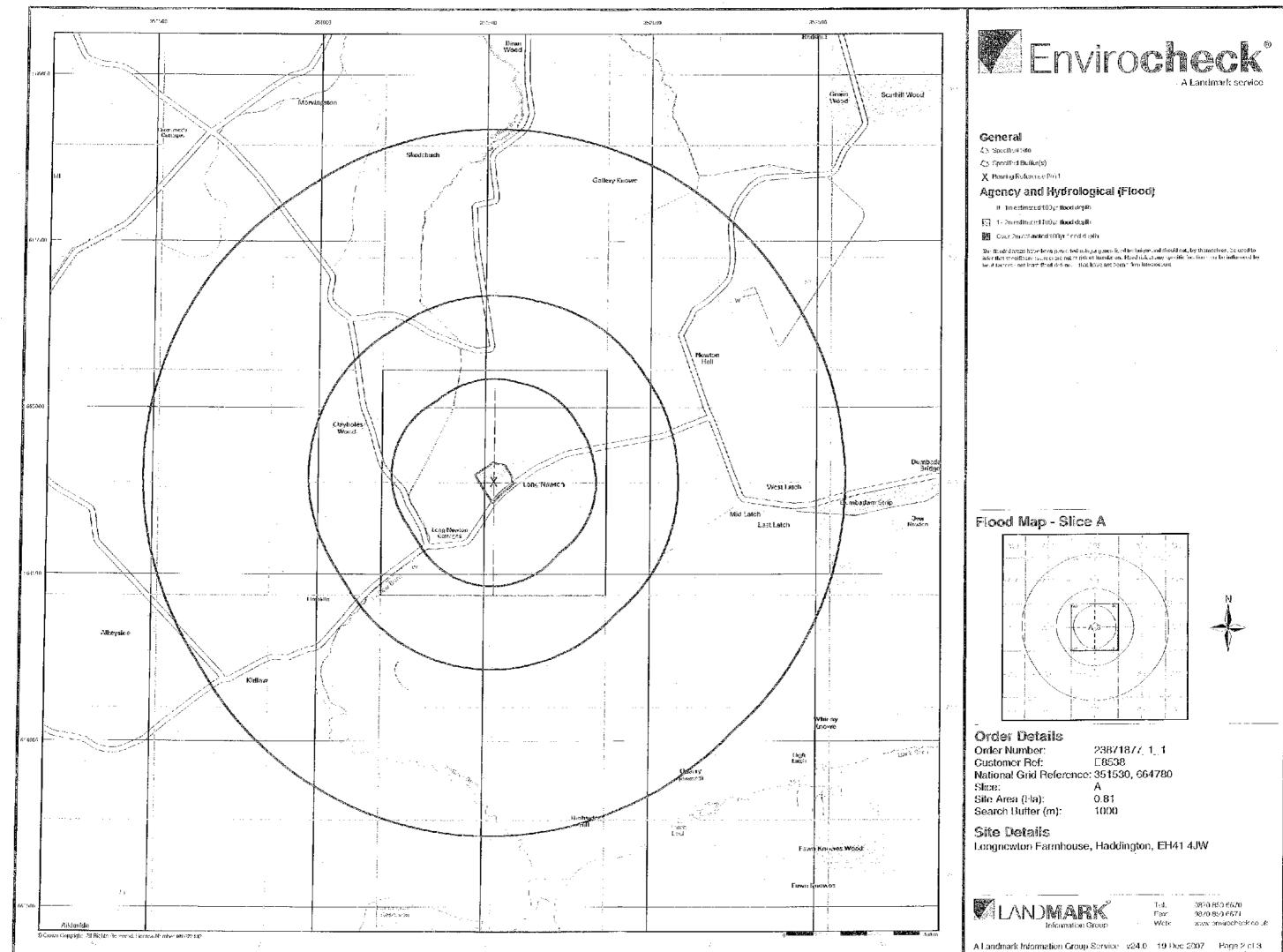
Order Details

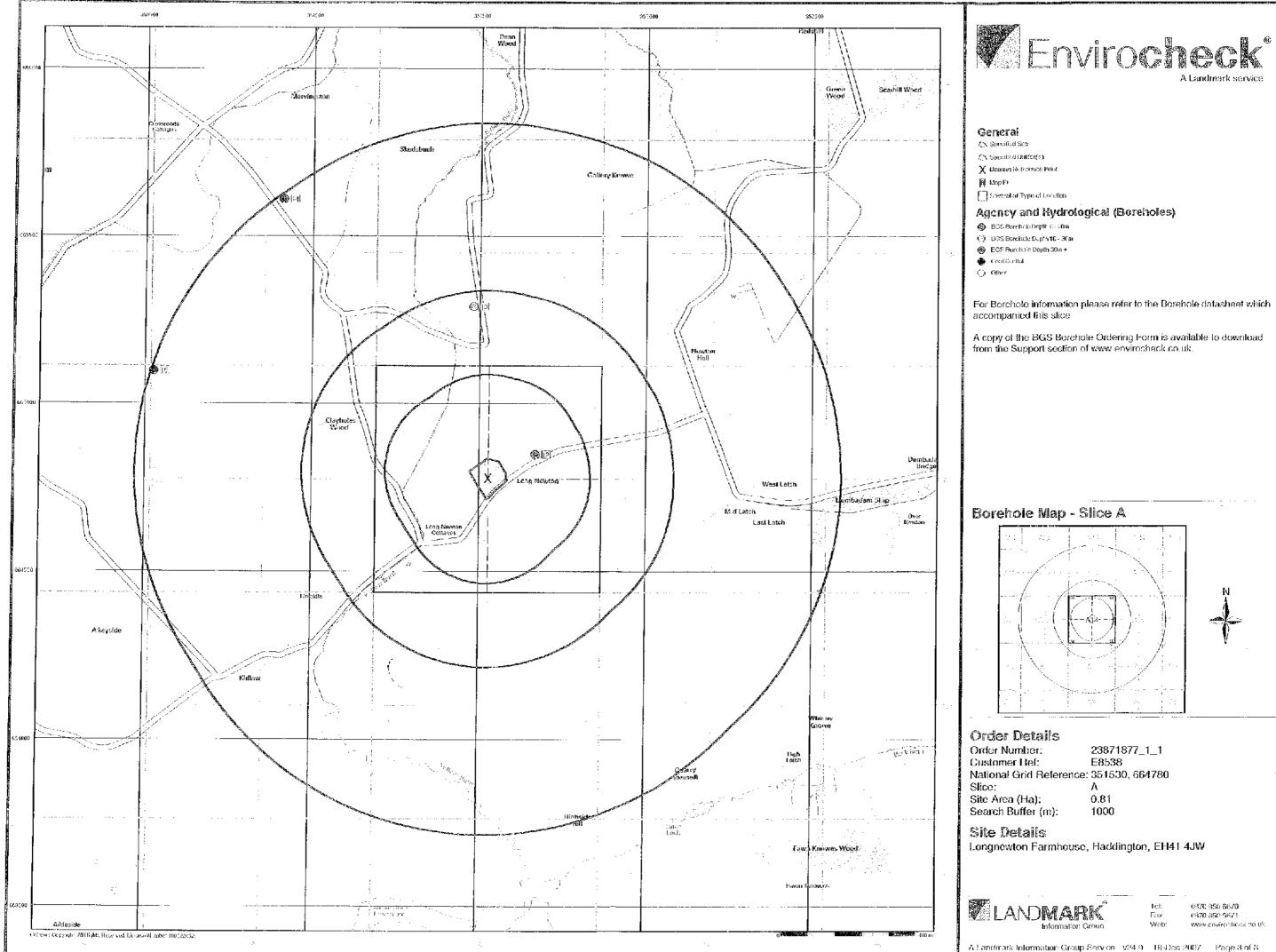
Order Number:	23871877 1 1
Customer Ref:	E8538
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Slice:	A
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Search Buffer (m):	1000

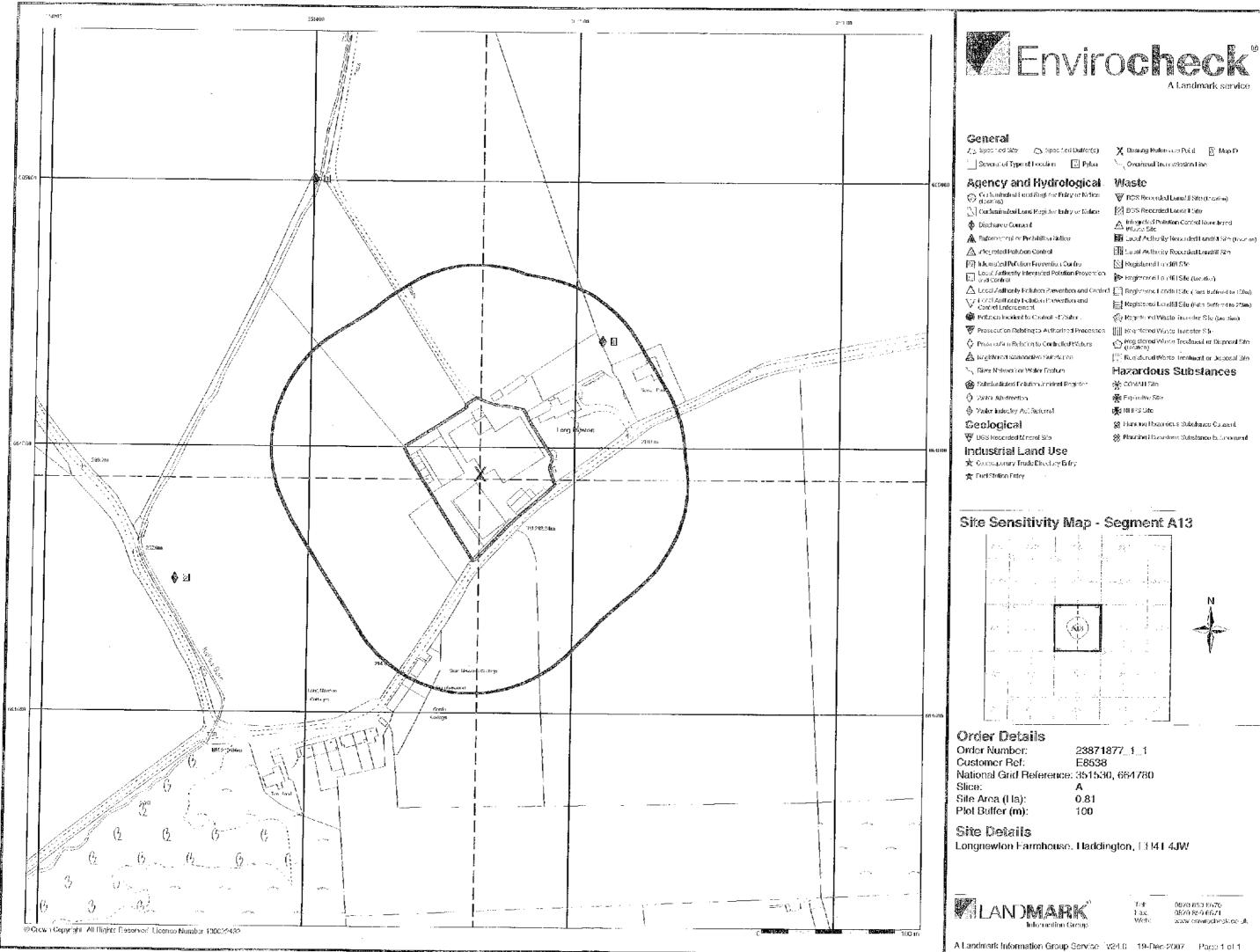
#### Site Details

Longoewton Farmhouse, Haddington, EH41 4JW









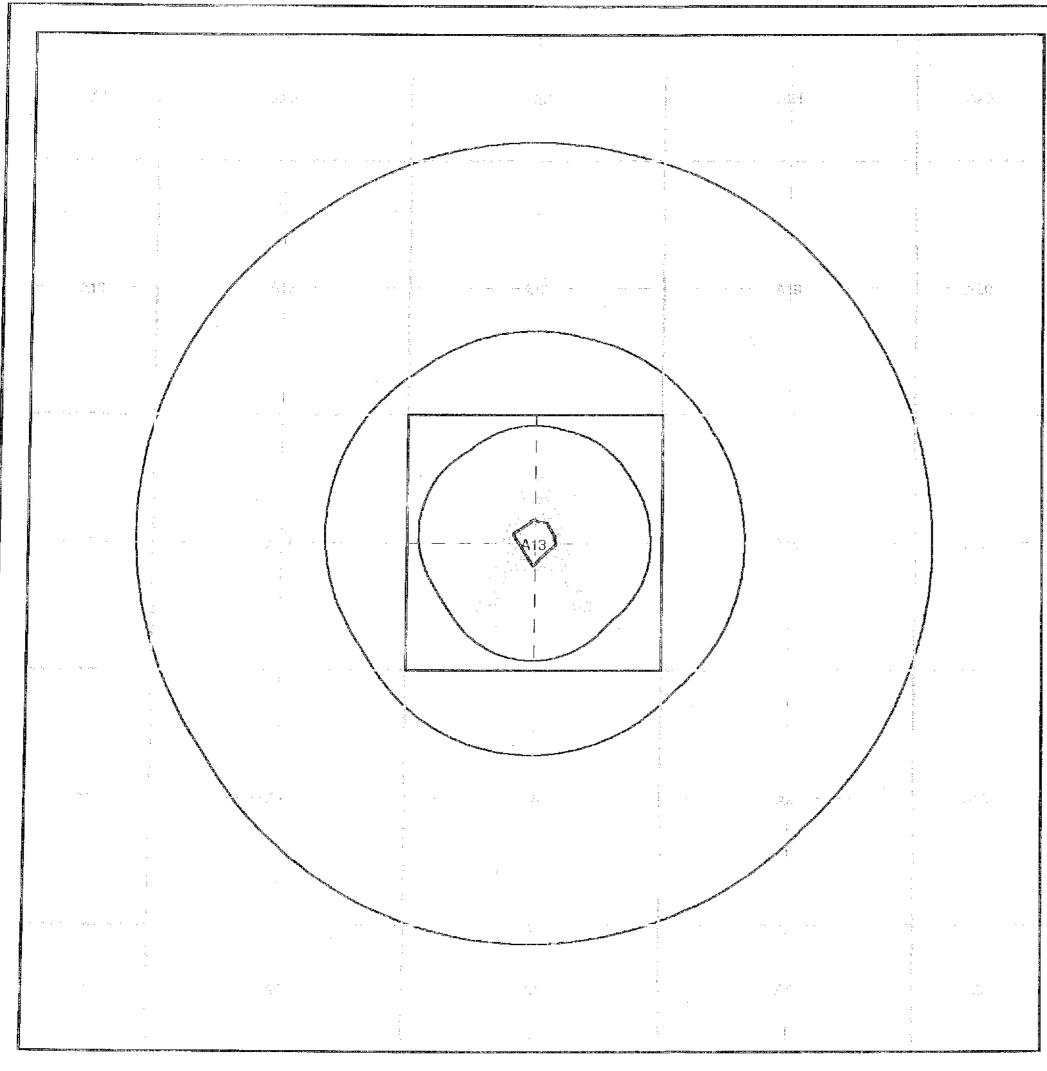




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Customer Ref:	E8538
National Grid Reference:	351530, 664780
Slice:	Α
Site Area (Ha):	0.81
Plot Buffer (m);	100

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#### Index Map

For ease of identification, your sile and bolic: have been split into Slices, Segments and Quedrants. These are illustrated on the Index Map opposite and explained further below

#### Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your sile and buffer. A large sile and buker may be made up of several slices. (represented by a rod outline), that are referenced by letters of the alphabet, starting from the bottem left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and hutter

#### Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand comer within each slice.

#### Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a guadrant reference of A7NW. will be in Stice A, Segment 7 and the NW Quadrant

A selection of organisations who provide data within this report.



Scottish fravi onmonf frequency Agency



Envirocheck reports are compiled from 105 different sources of data.

**Client Details** Mr N Henderson, David R Murray & Associates, 150 St John's Road, Edinburgh, EH12 8AY

Order Details Order Number: 23871877 1 1 Customer Ref: E8538 National Grid Reference: 351530, 664780 Site Area (Ha): 0.81 Search Buffer (m): 1000

Site Details Longnewton Farmhouse, Haddington, EH41 4JW



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- any nerson who acts for You in a protessional or commercial capualty, and
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Accordingly Fandmark shall have the same duties and obligations to these persons in respect of the Stavions - b as it has to Yea.

Each of those persons referred to in clause 3 L, diral have the benefit and the hurden of Your righte and obligations under these Terrier. The limitations of Landmark's liability. rising out in datage 6 shall apply to all users of the Service r crustion in aggregate and Landmark shall not be liable to any other person.

- All parties given access to the Services agree that they will treat as stratly private and confidential flip Services and all nformation which they obtain from the Services and sha restrict any disclosure to employees or protessional advictors to enable the relevant party to conduct its internal pusiness. The requirement in this clause to treat the Services as considential shall include a requirement to maintain acceptate security measures to safeguard the Services from unauthorized screeks use or copying. Each recipient of the Services agained (and agrees it will consects employees, agents or contractors who may from time to this, have access to the Services to agree) it will not, except as permitted herein or by separate agreement with Landmark)-
- effect or attempt to effect any motification, memory of change to the Service iner parmit any other person to do so; or
- expy, use, markat lassell, distubute, merge, alter, ade to cricking on any redistribution, reproduction translation, publication, reduction to any electropic modum or machine readable form or commercially exploit or in any other way deal with or utilise or (event as expressly negrified by anglicable law) reverse encineer, decompile or disactemble the Services, Center or Website; or -
- iii merove, after or in any way change any trademark or proprietary marking in any element of the Services and You shall acknowledge the ownership of the Content, where such Contem is incorporated or used into Your. own cocuments, reports, systems or convicos whether or not these are subplied to any third early.
- iv create any product which is derived directly or indirudly from the data contained in the Service The inapping contained in any Services is protected by Crown Copyright and must not be used for any purpose outside the context of the Cervices or as spraifically provided by these Terms.

You are permitted to not in five copies of any deport, but are not authorized in rescell the Report, any part thereof or any dopy thereof unless you are an Authorised Reserver Further copies may not be made in whole or in part without the prior written permission of Landmark who shall ne entitled to make a charge for each additional copy Charges

VAT at the provailing rate shall be powahin in addition for the Landmark Fees You shall pay any allier applicable indirect taxes related to Your use of the Services An individual or a monthly involce showing all Orders created by You will be generated subject to these Terms You will pay the Eandmark Fees at the rates set out in Londmark's onits Authorised Bose/jer's revolute The Landmark Lees are payable in full within 30 days without deduction, counterclaim or set all. You auknowledge that Rimalis of the easier as with respect to the payment of such invitions. Landmark reserve the right to among the Landmark has from time to time and the Services will be charged at the Landmark Lee applicable at the date on

which the Service is ordered. We may charge interest on late payment at a rate equal to

3% per annum above the base leading rate of National Wostminister Bank pld

Landmand on its Authorised Reselter shall not be obliged to involge any party other than You for the provision of Services, but where Landmark or its Authorised Reseller does so invoice any third party of Your rooks? and such invoice is not accepted or requires unpaid, Lancmark or its  $\Lambda$  theread  $R_0$  allor shall have the option at any time to cancel sight invoice and invoice You direct for such Services. Where Your order comprises a number of Services or severable elements within any one or mole Services, any failure by Landmark or its Authoricod Resulter to provide an elemant or elements of the Services

shall not projudice LandmarR's crits Authorised Break tals ability to require payment in respect of the Services delivered to Yeu.

#### Termination

- Londmark may suspend on terrainate Your rights under these Terms without any liability to You with immediate effect, if all any limes-
- You tail to make any payment due in schordaring with clause 4; Wennenested whrench proprimit or Gause to be
- committed any males of broach of those fleer s; or
- iii You connuit a breach and You fail to remedy the basis within 7 days of receipt of a written optice to do so; additionally, whout projudice to the foregoing, Landmark may remode the broach and recover the costs thereof from You
- Your rights are terminated under this clause and You. have made and dvalue navinent We will refund You a reasonable proportion of the balance as determined by Us. in relation to the value of Services previously purchased Landauak resorves the sight to refuse in supply any or all
- Services to You without notice or record Liability
- We provide warrapties and accept liability only lothe extent states in this able > 6 and claus ≥ 7 Nothing in three Terms excludes either party's liability for
- death or presentation, and each of the party account for or will defait, and the ran allocar of this clause S is subject to this provision and Your statisticary rights As mest of the information compinent in the Seuvices (s
- provided to Landmark by others, I undanark cannot control its accuracy or completeness, consult within the scope of Landmark's Services to check the information on the drama Appondingly, Landmark will only be liable to You for any loss or damage caused by its negligence or willful default and subject to clause 6.5 below mitting i audmark. nor any person providing information containest in any Services shall in ony ciman stands be hable for any inaccuracies, faults or onissions, a the Services, nor shall Landmork have any lability if the Services are used
- otherwise then in accordance with these Terms. Save as produced by law, Lendmark shall not be liable for any indirect cheensed iential less, downige or expenses (including loss of profits, loss of could dts, but mass of goodwill) howseever and rig out of any problem, event estion or default by Lar drug k.
- n any event, and notwithstanding anything contained in these Tomes, Landmark's liability in contract, for (including negligence or breach of statutory outy) or otherwise howspower arising by mason or in commonion will his Contract (except in relation to death or personal injury). shall be limited to an aggregate amount act excepting 21 raillion if the composite is in relation to a Report on residential property and an aggregate amount fol exerciding £10 million in respect of any other Report or
- Service, purchased from Landmark Landmark will not be liable for any derect, failure or omission relating to Services that is and noticed to andmark within six months of the data of the issue becoming apportant and in any event, within twelve years of the date of the Service.

You acknowledge that:

- Subject to clause 5.6 below You shall have 1 b claim or j roccurse against any Third Party Content supplier nor any of our other Sepolices. Yes will not in any way hold us responsible for any selection or retention of, or the acts of omissions of third Party Content suppliers or other Suppliers (including those with whom We have custracted to operate various aspects or parts of the Service) in connection with the Sarvices (for the avaidance of dot bU andmark is not a Third Party Content supplier). Fundmark does not promise that the supply of the Sorvices will be uninterrupted crienter from or provide any pertrouter facilities or functions, or that the Challent will always be complete, accurate, precise, face from defects of any other fond, computer acused, software looks or other similar borth withough Landmark will use reasonable affortis to correct any inaccuracies within a masonable up tod of them. becoming those to us,
- ii I ant/wark's only chilgation is to everyise reasonable skill and cars in providing, environmental property ask information to persons acting in a professional or commercial capacity who are skilled in the use of property and environmental information and You tereby zeknowledge that You are such a person;
- no physical inspection of the Property Site reported of is confistional as part of any Services offered by Lundrus k and Landmark so not warrant this off-land. uses of reatures whether pest of euronit will bu termitied in the Services. The Services do not include any information relating to the actual state or condition of any Property Site nor should they be used or taken sincleate or exclude actual timess or unliness of a Property Site for any particular purpose nor striptifil be relied upon for determining saleability or value or used as a substitute for any physical investigation or nspection - Eancmark reportaniend's that You unspect and take other advice in role) on to fact Property Site and uptirely exclusively on the Services.
- Subject to clause 6.6 below. Landmark the Loct his responsible for error or corruption in the Se vicus resulting from inaccuracy or omission in primary or secondary information and data, inaccurate processing of information and data by third parties.

computer mailunction or compation of data whillship the course of conversion, geo unding, processing by computer or electronic means, or in the course of transmission by te apliane or all, a communication link, or printing

- 1 and bark will not be held liable in any way if a Report on residential property is used for communical property or more than the one residered of property for which it was ordered
- vi the Services Eave not been prepared to meet Your or anyone clar/s individual requirements; that You accume the entire risk as to the suitability of the Services and waive any claim of doir model rehance upon the same; and You continue You are solidly reponsible for the selection or emission of any specific part of the Content;
- Viii Londmark of or no warranty for the performance of any linked memory service not operated by Londmark.
- You will on using the Services make o miclionable inspection of any results to unlisfy Yourself that there are no defects or failures. In the event that there is a material defect You will coldy us in writing of such datect within seven days of de discovery: ix Any support or assistance provided to You in
- immostion with these Terms is at Your risk;
- All hability for any insurance products purchased by Yeu rests colely with the insurer 1 and nork duos not endorse any particular product or Insurial and no information contained within the Services should be deemed to imply otherwise - You address buge final if You Order any such insurance Landmark will deem such as Your contract. To forward a copy of the Report to the instituting Whene such policy is purchased all liability remains with the insurers and You are entirely responsible for ensuring that the insurance policy offered is spitzple for Your neer's and should seek independent advice. Longroadk does not guarantee that an use anso policy will be available on a reparty Site. All decisions with regard to the refer of insurance policies for any premises will be ready solely at the discretion of the insurers and I and mark adopts no ability in this regard. The provision of a Report does not constitute any indication by Landmark that insurance will se available on tim properly

Protessional ephiloris contained in Beports are provided to Landmark by third parties, and such third postion are soldly able for the opinion provided. For the avaidance of doubt. those parties providing assessments or protocol (a) opinions on Landmark products include BES H6 & Without in Association I imited, and any issues with regard to the provision of such opinion sport dibe taken up with the relevant II indipany. If Landmark provides Yest with any additional creation

obtained from a third party, including but not limited to any interpretation or conclusion, risk assessment or environmental report or preschiparried out in relation to a Report on Your Property S<sup>2</sup>.5 subject to clause 6 o below Landmark will not be liable in any way for any information contained liner an or any issues arising out of the provision of these additional services to You Landmark will be deemed to have acted as an agent in mose dimumstances. and the supply of these additional convices will be governed by the terms and conditions of those Third Part as.

In any event no possos mhy rely on a Service more than 12 months of or its original date.

- If You wish to vary any timitation of liability as set cut is these terms. You must request such variation prior to ordening the Service. Londmark shall use its reasonable ondeavours to garee such variation but shall not be epliged to do no
- Tame shall not he of the casones with respect to the rovision of the Services
- Ordnance Survey have undertaken a positional occurricy. in procement programme which may result in discorpancies between the positioning of features used in datasets in the Services and the updated Ordnance Survey mapping. Subject to datase 6 o below, Londmark and its Suppliers exclude all and any liability incurred as a result of the implementation of such positional accuracy

interroretting programme. Where Landmark provides its own risk anargament in consector with any Hoport, Landonik shell pany out such assessment with all reasonable ck mand care but shall have no fishibly for any such tick assessment conclusion. which is provided for information only, save where Fandmark conducture the same neg igently, in which case the provisions of clause 6 shall apply. Notwithstanding the ision of any such risk assessment crubiusion you should carefully examine the remainder of the Report and should not take or refrain treen taking any action based solely on the basis of the usk assessment. For the systement of doubl, the provisions of this clouse 6h apply adely to rick assessments conducted by Landmark, and the provision of any other risk assessment by a hird party shall be governed by each third party's lound in coordance with the provisions of clause 5: above Fandmark obtains much of the information contained is its Report from third using standmark will not seeeplicely lightly to You for any negligibilit of incorrect entry, or more a compliant at the lithird Party Content supplied to Landmark, but Landmark's Supplies, may be liable for such negligent or incorrect entries, or errors or corruptions subject to the terms and candilions on which they supply the Third Pasty Content to Landmark Contribution

Save where expressly provided this clause 7 shall coply

Landmark Information Group Limited, 7 Abbey Court, Eagle Way, Exeter, EX2 7HY Email: info@landmarkinfo.co.uk

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LANDMARK TERMS AND CONDITIONS

sololy to Environsearch Residential Reports (regardless of the result of such Report). Nothing in this classe 7 shall opmate to evends or vary the provisions of plause 6 Landmark are prepared to offer, at the really expression and without any admission or interacce of hability a contribution towards the doals of any remediation we

- equired under a Notice (as demod below) on the terms of this clause 7 ("are Contribution")
- In this event that a tion rediation. Notice is shawed on the runst Purchasser or Tirgt Purchaser's Funder of a Property. Sita under Part P(A) of the Environmental Protection Act 1990 ("the Notice") Landn ark will contribute to the cost of such white yes uitiger the Hirst Purchaser of First Purchases's Lender (but not bosh) are required to cataly out ranifer the Notice subject to the previsions of this clause /
- the Contribution shall may apply to contamination or a onliution indicent scene or having occurred prior to

and on the following terms

the date of the Bound:

priminans or otherwise

Degulatory Author (v.)

Heport.

damades.

shoes

Act of Terrorism

comoletion of such sale

the to owing:

- the Contribution shall only apply where the Property Stellis a single residential dwelling house or a single residential flat within a block of flats. For the avoidance of could, this obligation does not apply to ary commercial property, not to any Property Stable being drawfunded or redeveloped whether for residential
- the Contribution is strictly limited to the next of works at the Property Site and at no other site the Contribution will not be paid in respect of any of
- Radipective contermination of whatshoved nat directly or indirectly caused by crear tribuled to pr-adising from coniging raciations or contamination by radio activity from any nuclear fuel or treat any nuclear. waste from the conduction of nuclear and or the radicactive toxic explosive or must hazardous properties of any explosive nuclear assombly or
- endesr component thricol Asbestes arbing out of orirelated in any way to
- ashes as a laborator-containing materials on or in-structures or services serving the structures. Naturally occurring materials arising from the
- presence or required removal of naturally ecourring materials except in circumstances where such materials are present in concentrations which are in
- excess of monitratural concentration Parintional con-compliance arising from the intentional
- disregard of entanowing whith or deliberate pencompliance by any owner or eccipier of the Propenty
- Site with any statute, regulation, indemostrative complaint, notice of violation, orneace letter of any
- Any condition which is known or ought reasonably to howe be an known to the First Durchason on the First Purchaser's Lender prior to the purchase of the
- Any condition which is canced by acts of war or an
- Any property belonging to earn the oustedy or control of the Siret Producer which does not form a fixed part. of the Property Site of the structure
- Any finus liquidated damages punitive or excitplacy.
- Any booily injury including without limitst on, death hess or disease meated ujury anguish or nervous.
- Any tinancial least in respect of any loss of any remail. well meaning assayings of publicess of any son assumptial indirect or comemic less damage of
- expanse including the cost of ront of temporary premiers or business interruption
- Any losses incurred to owing a material change in use of, alteration or down opment of the Property Site The maximum sum that shall be contributed by Landroutk
- in respect of any Contribution shall be limited to 960.000. In the event that more than one Beport is purchased on the Preperty Site the Contribution will only be payable under the first Hopert pirchased by or on Joha I of any First
- Purchaser or First Purchaner's Lencer and no Contribution will be made in respect of subsectiont Reports purchased by or on behalf of such East Purchaser. First Purchaser's Lender or any derson contexted to stem
- Londmark shall only pay a Contribution where the Notice is served within 35 months of the data of the Baport Any rights to a Contribution industrials Clause 7 are not assignable in the event of a safe of the Property Site and Landmark will and make any Contribution after the date of
- In the event the birst Purchaser or Find Purchaser's Lende. wishes to claim any Contribution, if shall notify frandmark is writing within 3 months of the risk sol the Notice The First Furchaser or First Furnicisan's Lender (as applicable)
- shall comply with all reasonable requirements of I andmark with regard to the commission and conduct of the remotinition works to be carried out under the Nolize and in the over the First Purchaser or First Purchase's
- ander (as applicable) doos no ido so, inclueing where: limitation, obtaining I andmask's prior written consent to any estimates for such works or complying with any other reasonable regional by Landmark. Landmark shall not be
- required to pay any Contribution. Netwithstanding the provinced of the Contribution by Londmark the Hirst Purchasen or First Purchasers I ender as applicable shall
- take all reasonable steps to mitigate any costs incurred in connection with the conduct of works required under the

items of any Notice. In the event that the First Purchaser or First Purchash 5 Lender receives any communication from a ctaturory athority to the effect that there is an intent to some notice received under Partit(A) of the Environmental Protoction Act 1990 they will advise Lanemark within maximum paned of two months from montplicities de communication. This clause 7h and the service of a g notice under it shad not affect for: provisions of 6 atand  $\mathbf{q}_i$  and any such contributions, over if  $\mathbf{q} \mathbf{d} \mathbf{v} \mathbf{s} \in \{0\}$ Landmark with not operate as notice under clause 75 Londmark released the richt at any time price to ble Contribution being made in accordance will- dauge (+ -)

Version 5.64.28 7. 201

- allove, to witadraw the offer of povincial of Contribet whoul further notice Events Beyond Our Control
- You acknowledge that Lundma k shall not be liable  $\tau = V$ delay, interruption or facare in the provision of the 9 which measured or contributed to by any circ in the material which is obtaide our reasonable control including but of mited to, lack of power, telecommunicatio estailument ove toad, computer malfunction, indoputate processing of data, or deduce in receiving, lunding or checking cate, portuption of data whilst in the course of portvors or noting, processing by computer in the course of obentratinication, or prototo (
- Severability
- If any provision of those Terms are found by either a long or other competent authority to be which invalid, illegit or unconforceable, too; provision shall be deemed to 0.3. deleted from these Terms and never to have formanily of h these Terms and the remaining provisions that be 3, and full force and official.
- 10 Governing Law

- 31

- Tareactomic shall be poveried by and constraint in accordance with English, aw and each party agree irrevocably sportil to the evolusive junidiction of C is English courts if any displate prices out of primeon in the with this accordent (a "Dispute") the partros uncoorder that, bi or to the comin encome at of Court proceedings they will ann't to have the Gapato resolved amicable by use of an alternative dispute repolation procedure assoptable to both parties with the adsistance of the Contractor Dispute Posselution (CHDR) if required by written notice initiating that precedure. If the displicit is a not been resolved to the validuation or either party should 60 days of initiation of the procedure or if either party ic is or refuses to publicipate in or withcraws from participat in the procedure then either party may refer the Dispula O. the Coul-
- 11 General; Complaints
- candmark may assign its rights and philipations the Liese Terms without prior net ce or a systmitation Landmark may autoerine or allow our contractors and
- other third parties to provide to Landmark anofor to Vea-services represently or related to the Services and to erform Landmark's colligations and exercise Landmark's rights under these forms, which may include collection
- bayment on Landmark's benafit No waiver on Landmark's part to exercise, and no delay if exemising, pay right, anwar or provision herounder circli operate as a waiwar lineacol, nor shall any single or practice exercise of any right, power or provision hereunder prediate the exercise of that or any other right, power ovision
- Unices cherwise stated in these Torms, all unices into You to Landmark must be in writing buil sont to the Landmark registered offling (or in the case of an Authority Reseller, to its registrated office address) and subject peragraphic linerow r. That desired Landmark to You Let be displayed on our Websites from time to fime
- Any complaints in relation to the Services should, in the find instance, be in writing addressed to the Customer Service Support Manager at the Landriverk registered office. Laudmark or in agains will respond to any such complaints in writing matious as practicably possible
- A person who is not a party to any contract made one-used to these Tora a shall have no aght under the Grahad (Right of Hard Parties) Act 1999 to enforce any terms of such contract and Landmark shall not he liable to any such that party in respect of any Services supplied
- Landmark's Privacy Policy as displayed on the Website poverns the use maile of any information. You supply to Landmark

# Historical Mapping Legends

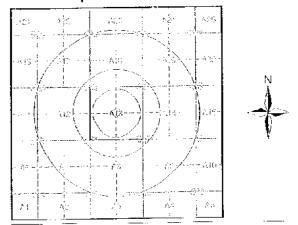
Ordnance Survey County Series and Ordnance Survey Plan 1:10,560	Ordnance Survey Plan 1:10,000	1:10,000 Raster Mapping
Gravel Sand Other Pit Pits	്ന് Chalk Pit. Clay Fit പ്രപ്പുക്ക് Gravel Pit പ്പ്പുക്ക് of Quary ട്രോക്ക് Gravel Pit	Gravel Pit (SERS) Refuse tip or stag heap
Crohard Chingle Orchard	Sand Pit Disused Pit	Rock (seattered)
Mars Mars	Refuse or Lake, Loch or Pond	ີ່ຈັງ Boulders ີ Boulders ຈັງຈັງຈັດ Boulders ໃນ (scattered)
allow the first and the second s	Dunos 🆧 🦕 Boulders	Shingle Mud
Mixed Wood Deciduous Brushwood	本 本 Conferous	Sand Sand Sand Pit
		THINK Slopes DETERMO Top of cliff
	ு இ Orchard இத_ Scrub இது Coppice	General defail Undergroup/ General defail defail
Fir Furze Rough Pasture	if fi Bracken soutton Healh Grassland Grassland	— — — — Overhead detail — — — — Nacrow gatø tailway
Anow denotes <u>A</u> Trigonometrical flow of water Station		Multi-frackSingle frack railway railway
- Site of Antiquities - Bonen Mark	Direction of Flow of Water Building	County boundary Civii, parish Civii, parish (England only) boundary boundary
Pump, Guide Post, Vvell, Spring, Signal Post Roundary Post	Sand	District, Unitary, <u>Metropolitan,</u> London Borough boundary
• <b>285</b> Sulface Level	Pylon El⊝obic:ty	Area of wooded Non conifer vegetation
Skeiched Instrumental Contour	Transmission Transmission Transmission Pole Line	
Farred Farced		<ul> <li>Nun coniferous</li> <li>trees (scattered)</li> </ul>
Main Roads Minor Roads Burgers	Cutting Embankment Standard Gauge Standard Gauge	Coniferous Positioned
Sunkon Road	Road "TET Roard // Level Foot Single Track	A Orchard     A Orchard
Road over Railway over Railway River	Siding, Tramway or Mineral Line	n Rough ™ Neath ∞ Grasslan5 ™
Railway over Level Crossin	Geographical County	oo⊶ Scrub - 2∰∞ Marsh, Sali oo Marsh or R
Road over Road over Road over River or Canal Stream	Administrative County, County Horough or County of City Monicipal Borough, Urban or Rural District,	- Water feature Elow arrow
Road over Stream	Burgh or District Council Burgh or District Council Borcugh, Burgh or County Constituency Shown rolg when not minrifted with other boundaries	Mean high Mean low Mean low water (springs) water (springs)
County Boundary (Geographical)	Civil Parish Shown attended when coincidence of trenderies occurs	Telephone line     Electricity       (where shown)     (with poles)
County & Civil Parish Boundary	BP, BS Boundary Post or Stone Pol Star Police Station	ر Bench mark Triangulatio هه اعت هه (where shown) station
+       +       +       Administrative County & Civil Parish Boundary	Ch         Church         PO         Post Office           CH         Club House         PC         Public Convenience           F F Sta         Fire Engine Station         PH         Public House	Foint feature Pylon, flare (e.g. Guid- Post ⊠ or lighting t
-	FB Foot Bridge SB Signal Box Fn Fountain Spr Spring	or Mile Stone)  • [• Site of (antiquity) Glassbous
Co Burgh Bdy County Burgh Boundary (Scotland)	GP Guide Post TCB Telephone Call Box	I contraction of the party of t



## Ordnance Survey mapping included:

Mapping Type		Scale	Date	Pg
Haridingtonshire		1:10,560	1854 - 1855	2
Haddingtonshire		1:10,560	1908	3
Ordurance Survey Plan		1:10,560	1957	1
Ordnance Survey Plan		1:10,560	1970	5
Ordnance Survey Plan		1:10,000	1970 - 1982	6
10K Raster Mapping	· · ·	1:10,000	1999	7
10K Raster Mapping		1:10,000	2007	6

## Historical Map - Slice A



#### **Order Details**

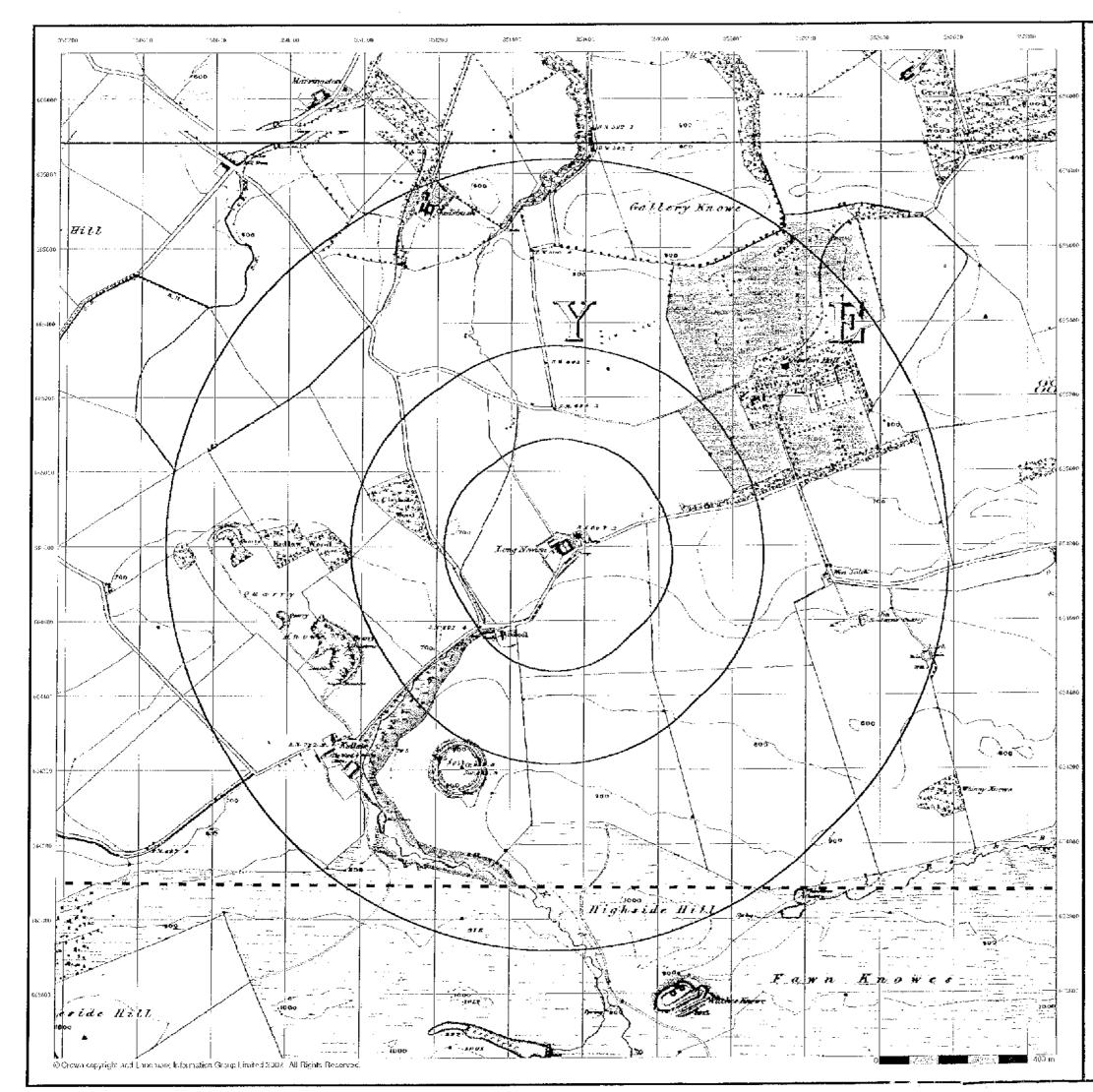
Order Number:23871877\_1 ICustomer Ref:F8538National Grid Reference:35 (530, 664780)Slice:ASite Area (Ha):0.81Search Buffer (m):1000

#### Site Details

Longnewton Farmhouse, Haddington, FH41 4JW



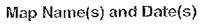
Tel: Lax: Web 0870 850 6670 0870 850 6671 www.eqvirocheck.co.uk

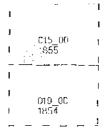


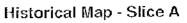
Enviro**check** 

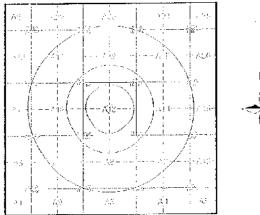
# Haddingtonshire Published 1854 - 1855 Source map scale - 1:10,560

The balancel maps shown were reproduced from maps predominantly hold at the scale adopted for England. Wakes and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas: these maps were used to update the 1:10,660 maps. The published date given themiote is often some years later than the surveyed date. Before 1938, all 0.51 maps were based on the Cassari Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuraces in oddying mass. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,080 mapping from a surpher of sources. The maps appear unfinished fieldly overprinted with the National Ord to 1970, the list 1:10,000 maps were produced using the Transverse Mercator Projection The revision process continued until recently, with new editor's appearing were informed with a field of the transverse Mercator Projection.









#### **Order Details**

Order Number:	23871877_1_1
Customer Ref:	E8538
National Grid Reference:	351530, 664780
Slice:	Α
Site Area (Ha):	0.81
Search Buffer (m):	1000

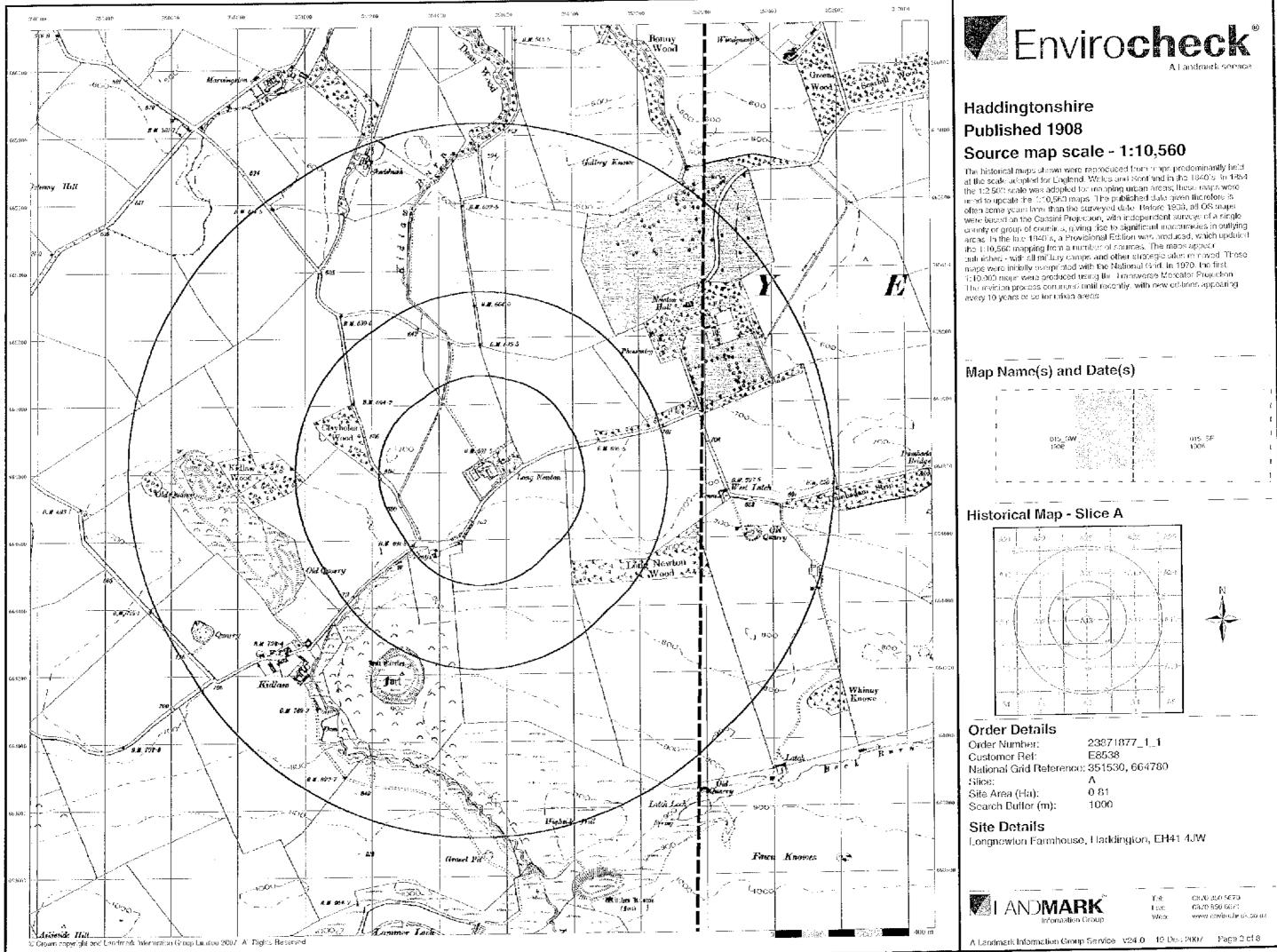
#### Site Details

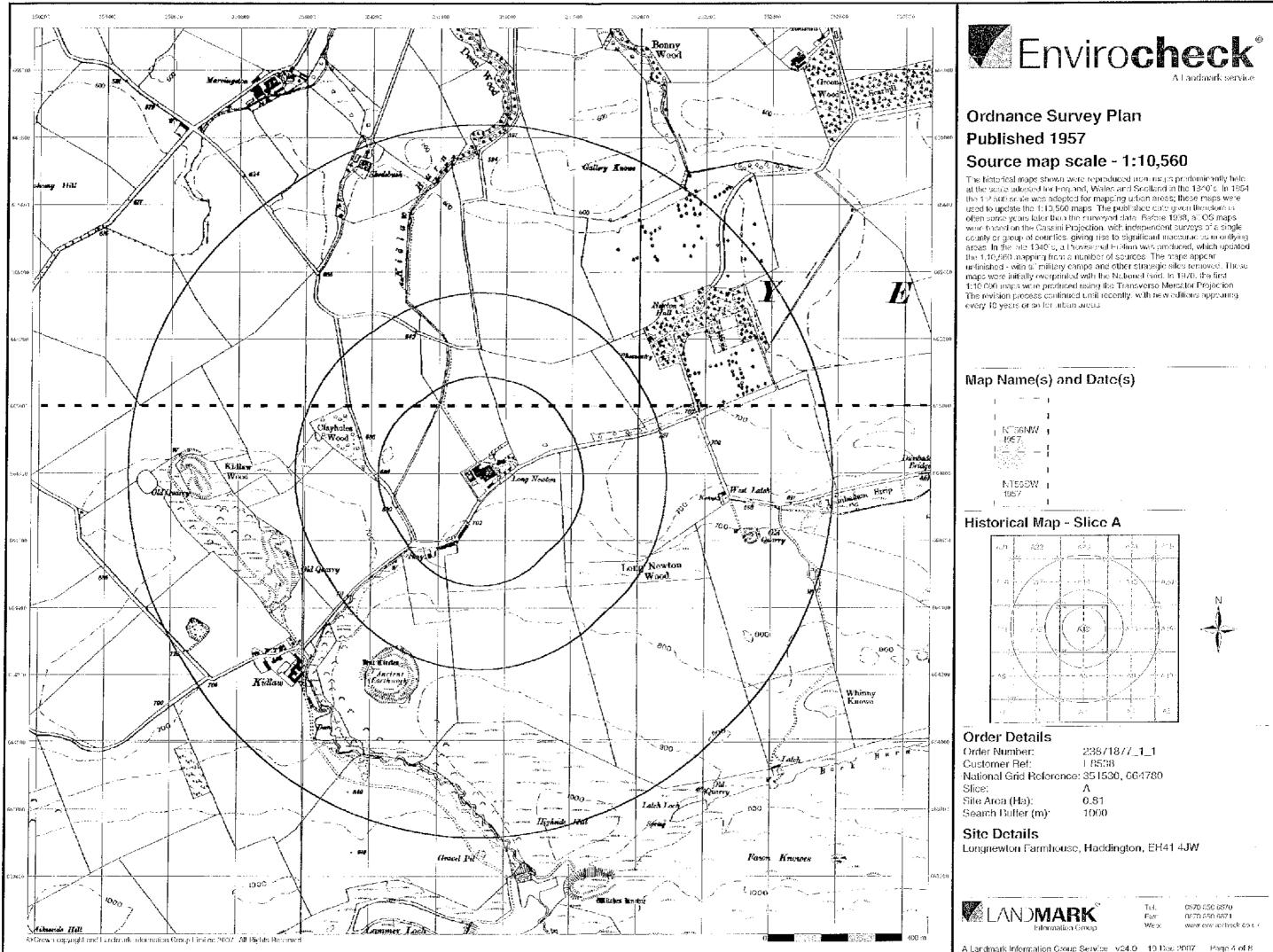
Longnewton Farmhouse, Haddington, EH41 4JW

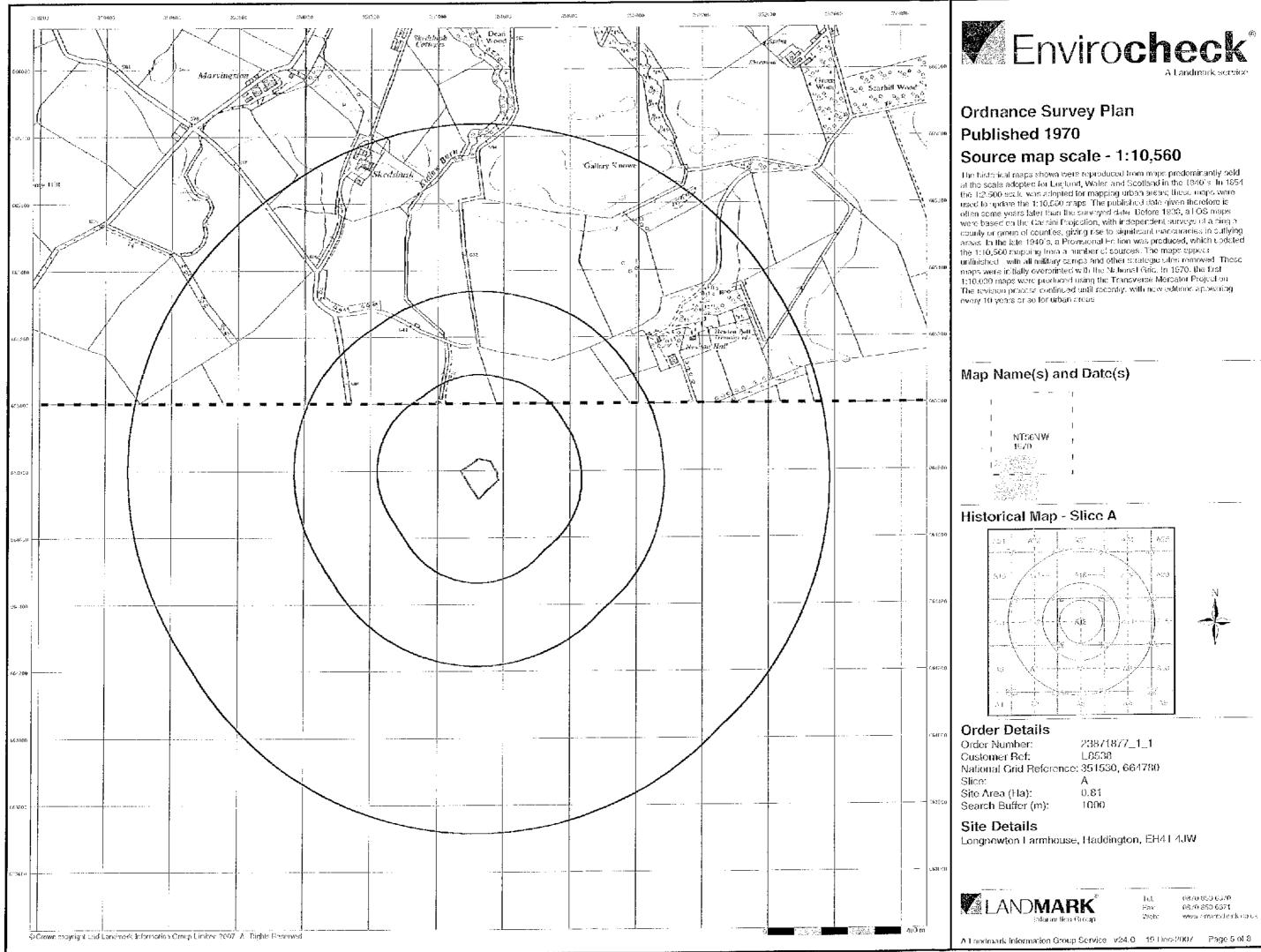


Teh Lax: Web:

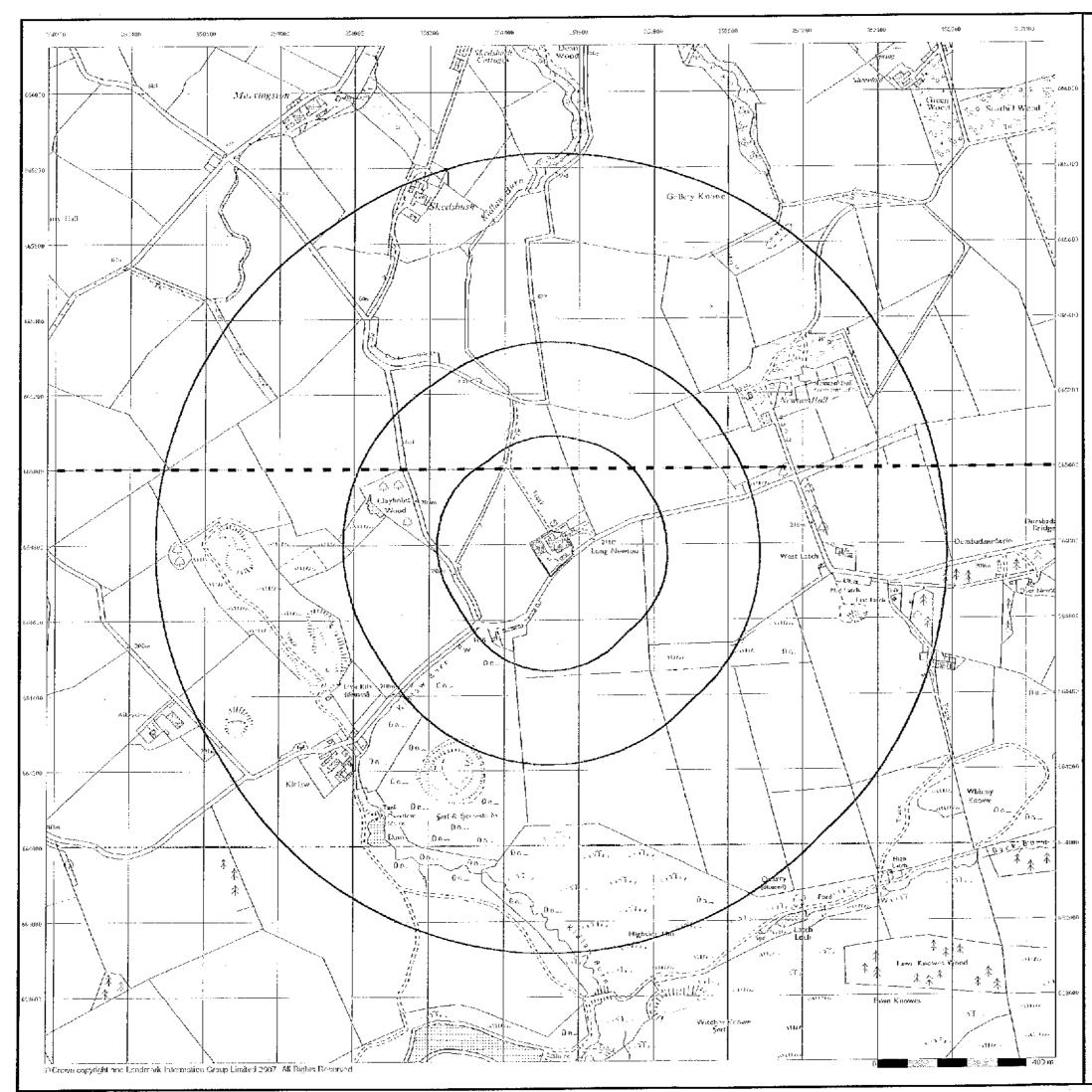
-0370-850-6670 -0370-850-667**1** -www.coviracteok.co.uk













# Envirocheck A Landmark service

# **Ordnance Survey Plan** Published 1970 - 1982 Source map scale - 1:10,000

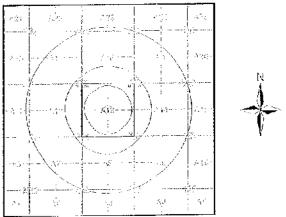
The historical maps shown were reproduced, from maps predominantly held at the scale adopted for England. Wates and Scotland in the 1840's In 1854 at the scale adopted to England. Wates and Scotland in the 1840 s. In 1854 the 1:2.500 state was acopted for mapping uban ureas, these maps were perinter update the 1:10,500 maps. The publicited date given therefore is often some years taker than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10.560 mapping from a number of sources. The maps appear unbacked – with all military samps and offer strategic sites removed. These maps in the late investigated with the National Grid. In 1970, the link maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercafor Projection The invision process continued until recently with new editions appearing every 10 years or so for urban areas.

# Map Name(s) and Date(s)

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ŧ ENT56NW | 1970 \_ \_ \_ \_ . 2 1 I NTSGSW I :932 

### Historical Map - Slice A



### **Order Details**

Order Number:	23871877_1_1
Customer Ref:	1-8538
National Grid Reference:	351530, 664780
Slice:	Λ
Site Area (Ha):	0.81
Search Buffer (m):	1000

#### Site Details

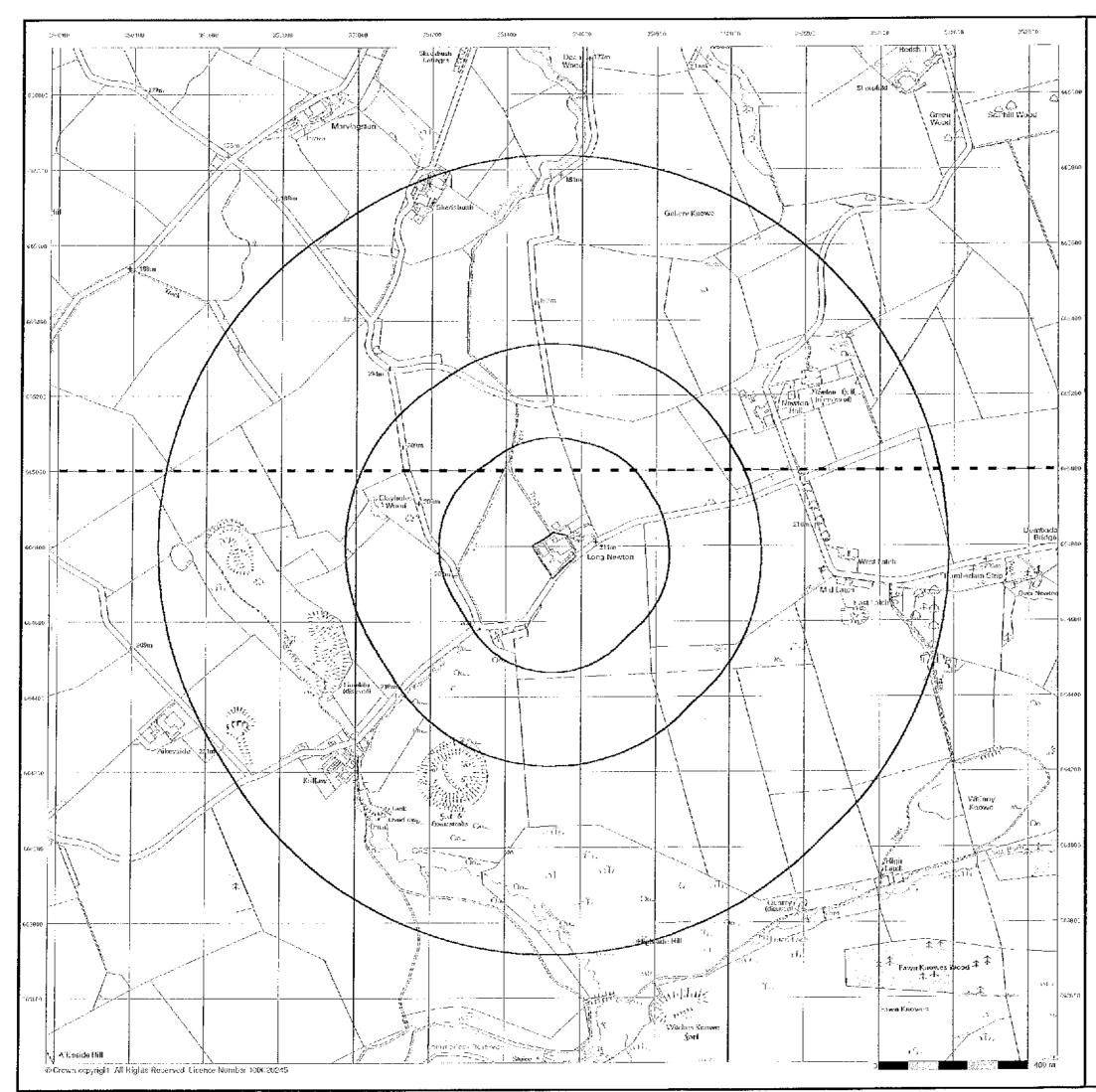
Longnewton Farmhouse, Haddington, L1141-4JW



iel: Hax. 20 etc

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# **Envirocheck**°

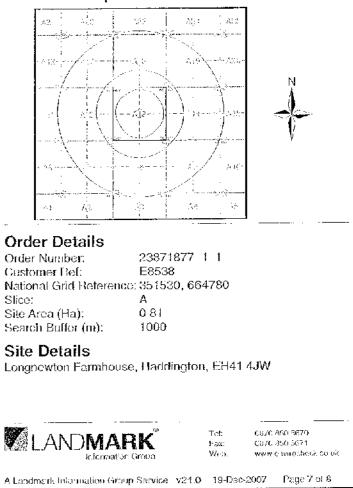
# **10K Raster Mapping** Published 1999 Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey s 1.16,000 cc.our raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly dealed drowing buildings, tences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Residency information depiction includes county, unkey authority, district, sivil patish and constituency.

## Map Name(s) and Date(s)

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## Historical Map - Slice A



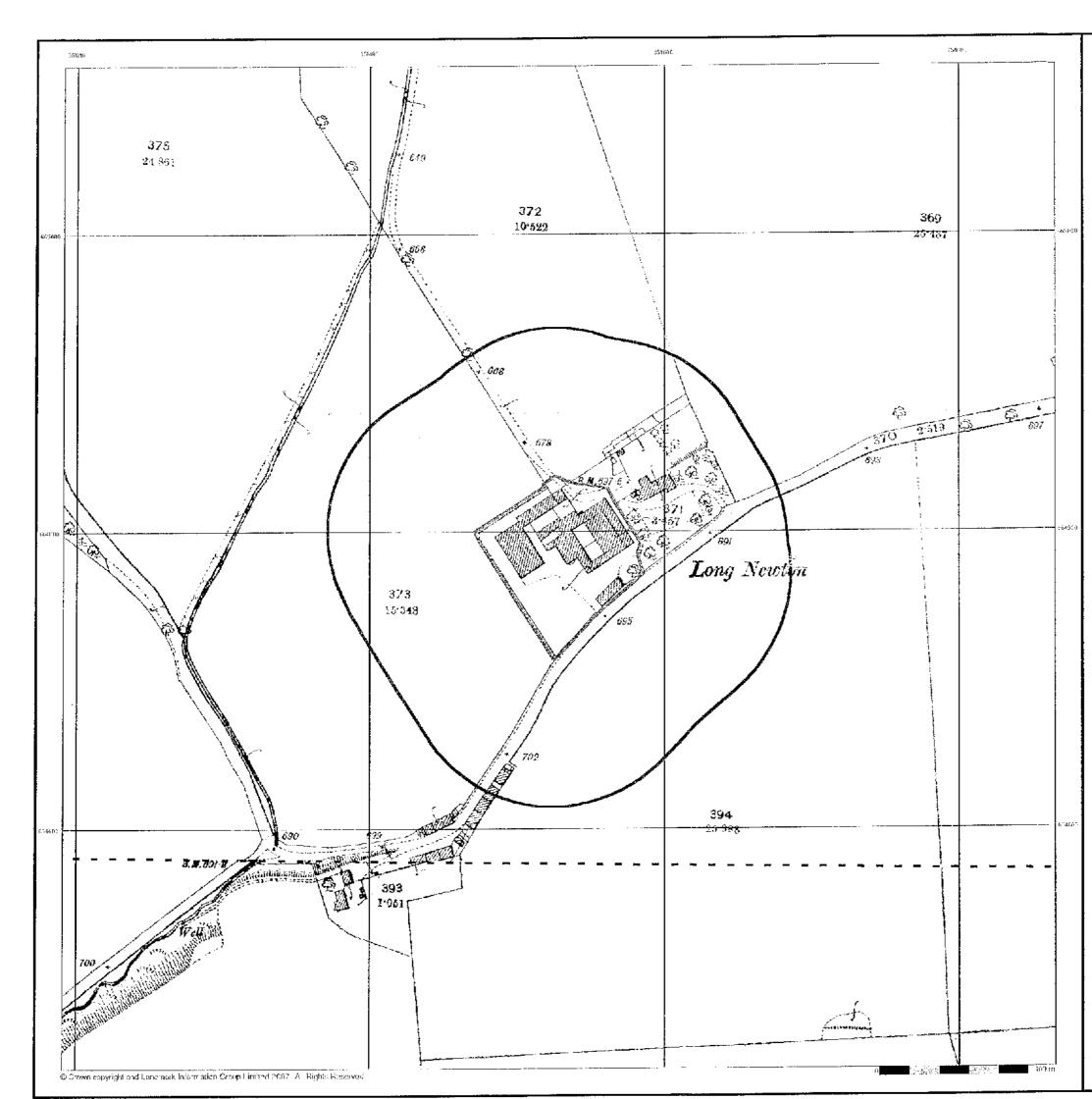
	Enviro <b>check</b>		
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500	Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250	Large-Scale National Grid Data 1:2,500 and 1:1,250	A Landmark service Ordnance Survey mapping included:
Quarry Gravel Dit Sand Dit Clay Pit Shingle Refuse Heap Sloping Masonry Hat Rock	inactive Quarry, er Chalk Pit or Clay Pit Clay Pit Rock Bouklers	Cliff Cliff Rock (scattered)	Mapping TypeScaleDatePgHaddingtonshire1:2,50018942Haddingtonshire1:2,50019073Ordnance Survey Plan1:2,50019674Large-Scale National Grid Data1:2,50019945
<u>المعادمة المحمد الم محمد المحمد br/></u>	Slopes Top Cliff Top	Image: Constraint of the second se	
Rough Pasture Furze Wood	Reofed Building Glazed Roof Building Lop Creepergram Sloping	(Surveyed) (Surveyed) (Surveyed) (Surveyed)	
Mixed Wood Brushwood Orchard	Stoping     Stoping       Masonry     Archway       Non-Coniferous tree     Coniferous Tree       (aurveyed)     tourveyed)	Coppice, Scrub 2 <sup>™</sup> Bracken tree Scrub 2 <sup>™</sup> Bracken tree Scrub 2 <sup>™</sup> Bracken Marsh, Saltings	
Cerry Waterfall Cook	の Orchard A South The Receiver	Grassland Mus Heath Culverf	
A     Trig Station     507 △     Allitude at Ing Station       E.M 325 9 △     Bench Mark     542 →     Surface Level       Arrow denotes flow of water     •ĝ     Antiquities (site of)	Coppice, Coppice, Serus Coppice, Saltings Reads Covert Rough Grassland	Direction     Direction     Original     Direction     Ofwater flow     Station     Ofwater flow     Station     Ofwater flow     Ofwater	Historical Map - Segment A13
Cutting Embankment	Direction The Bench of Water Flow The Mark Of Water Flow Triangulation Cave Cave Cave Cave Cave Cave Cave Cave	Roofed Building Seed Civil parish/community boundary	N - 2.16
Railway crossing Road	County Boundary (Geographical) County & Civil Parish Boundary Civil Parish Boundary Civil Parish Boundary Civil Parish Boundary LBBdy LBBdy London Borough Boundary	District boundary     End District boundary     Gounty boundary     Boundary post/stone     Boundary mereing symbol (nofer these     always appear in opposed pairs or groups     of three)	
Railway crossing Road over Road over River or Canal single stream River or Canal County Boundary (Geographical) County & Civil Parish Boundary	Symbol marking point where boundary       Symbol marking point where boundary       marking changes       Bit     BeerHouse       BP, BS     Boundary Post or Stone       PO     Post Office	Bks     Barracks     P     Pillar, Pole or Post       Bby     Battery     PO     Post Office       Cemy     Cemetery     PC     Public Convenience       Chy     Chimney     Pp     Pump       Cis     Cistern     Ppg Sta     Pumping Staflon	Order Details Order Number: 23871877_1_1 Customer Ref: E8538 National Grid Reference: 351530, 664780
<ul> <li>Administrative County &amp; Civil Parish Boundary</li> <li>Co. Boro Bdy</li> <li>County Borough Boundary (England)</li> <li>County Burgh Boundary (Scotland)</li> <li>Co Burgh Bdy</li> </ul>	Crit C     Capitan, Crano     PC     Public Convenience       Chy     Chienney     PH     Public House       D Fn     Drinking Fountain     Pp     Pullap       ELP     Electricity Pillar or Post     SE, S Fr     Signal Rox or Bridge       FAP     Fire Alarm Pillar     SP, SL     Signal Post or Light	CIS     Eistern     Fpg. Sta     Finiping Statistic       Dismitd Riy     Dismitd Riy     Dismitd Riy     PW     Place of Worship       El Gen Sta     Efectricity Generating     Sewage Ppg Sta     Sewage       Station     Primping Statistic     Primping Statistic       El P     Electricity Pole, Pillar     SR, S Br     Signal Box or Bridge       El Sub Shr     Flectricity Sub Station     SP, SI     Signal Post or Light	Slice: A Site Area (Fla): 0.81 Search Duffer (m): 100 Site Details
BP is SBoundary Postor StoneDC 0Police Call BoxB.RBridle RoadPPumpF.PElectricity PytonS PSignal PostF.BFoct BridgeS2SluiceF.PFoct BridgeS7SpringG.PGuide Postor BoardTrc.BTelephone Call BoxM.SMile StoneTr.TroughM.P.M.RMooring Postor RingB'Well	FB     Foot Bindge     Spr     Springt       GP     Guide Post     Tk     Tark or Track       H     Hydrant or Flydraulle     TG9     Telephone Call Box       LC     Level Crossing     TGP     Telephone Call Post       MH     Manholo     Tr     Trough       MP     Mile Post or Mooring Post     Wr PF, Wr T     Water Paint, Water Tap       MS     Mile Stone     W     Well       NTH     Norme?Tidal Limit     Wd Pp     Wind Pernp	FB     Filler Bed     Spr     Sprind       FB     Filler Bed     Spr     Sprind       Fn(D) Fn     Fountain J Drinking Pun     Fk     Tank or Track       Gas Gov     Gas Valve Compound     Tr     Frough       GVC     Gas Covernor     Wd Pp     Wind Pump       GP     Guide Post     Wr PL Wr T     Water Point, Water Tap       MH     Manhole     Wks     Works (buildfing or area)       MP, MS     Mile Post or Mile Stone     W     Well	Longnewton Farmhouse, Haddington, I-H41 4JW Tel: 0570 850-0670 Fax: 0670 950 4671 Web: 0670 050 050 050 050 050 050 050 050 050 0

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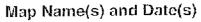
A Londmark Information Group Service - v24.0 - 19-Dec-2007 - Page 1 ol 5

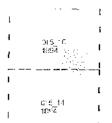




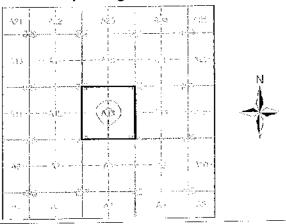
# Haddingtonshire Published 1894 Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England. Wates and Scotland in the 1840's. In 1854 the 1.2,500 scale was adopted for mapping urban areas and by 1996 it devered the whole of what were considered to be the outivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1998, all OS maps were based on the Cassini Projection, with independent surveys of a single county of group of countins, giving rise to sign light in accuracies in outly of areas





## Historical Map - Segment A13



#### **Order Details**

Order Number:	23871877
Customer Ref:	E8538
National Grid Reference:	351530, 664780
Slice:	٨
Site Area (Ha):	0.81
Search Builter (m):	100

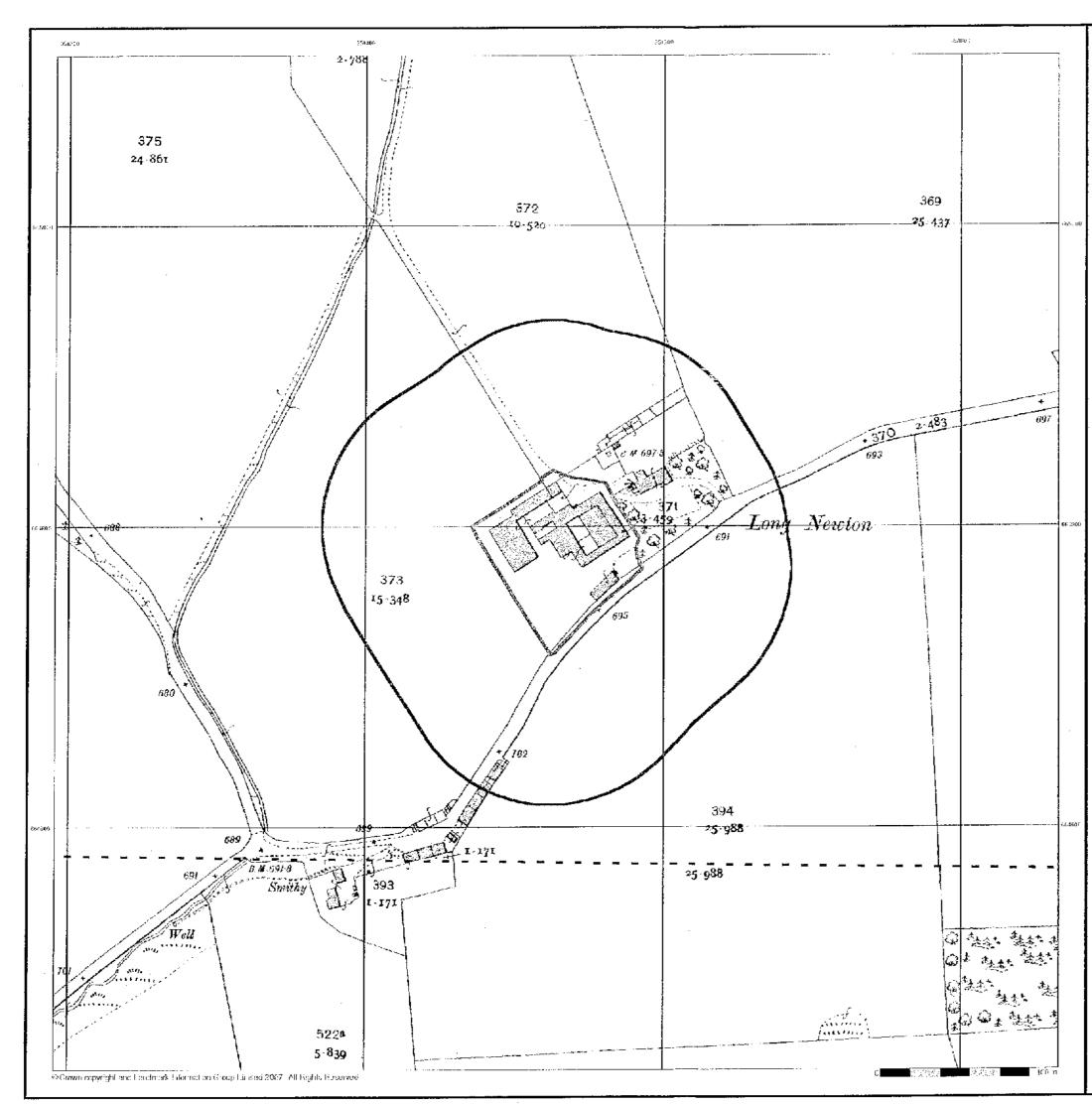
#### Site Details

Longnewton Farmhouse, Haddington, EH41 4JW



Tel. Fax: Web:

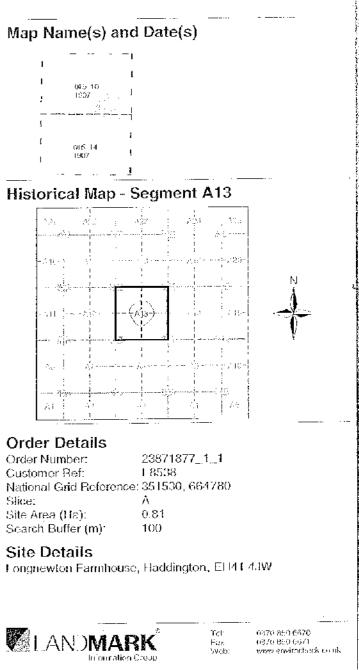
0370 853 6670 0370 863 6671 www.snyrochock.co.uk



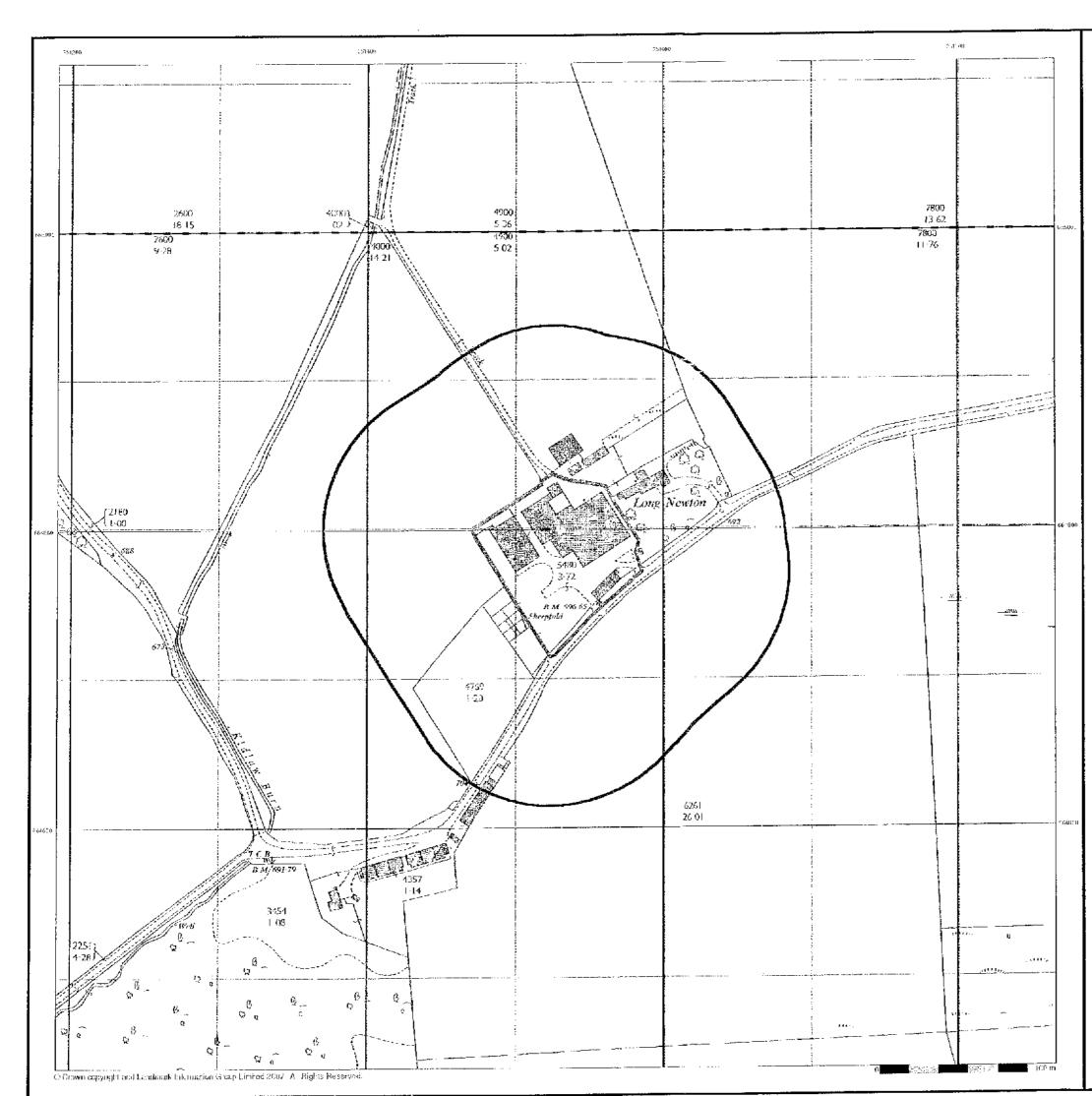
Envirocheck

# Haddingtonshire Published 1907 Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England. Wales and Scotland in the 1840's In 1851 the 1:2.500 scale was adopted for mapping urban areas and by 1896 if covered the whole of what were considered to be the outlivated parts of Great Britain. The published date given below is often some years later than the surveyed onto. Before 1938, all OS maps were based on the Cassini Frojection, with independent surveys of a single county or group of coepties, giving rise to significant maximum as in outlying areas.



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# Ordnance Survey Plan Published 1967 Source map scale - 1:2,500

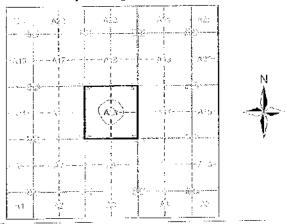
The historical maps shown were reproduced from maps proclaminantly hold at the scale adopted for England, Wales and Scotlaum in the 1840's. In 1954 the 1.2,500 scale was adopted for mapping orban areas and by 1896 it covered the whele of what write considered to be the cultivated parts of covered the whole of what white considered to be the cultivated parts of Creat Srillari. The published date given below is often share years later than the surveyed date. Botore 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties. giving rise to equificant inaccuracies in outlying areas

## Map Name(s) and Date(s)

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## Historical Map - Segment A13



#### **Order Details**

23871877 1 1 Order Number: Customer Ref: E8538 National Grid Reference: 351530, 664780 Slice: А 0.81 Sife Area (Ha): Search Butter (m): 100

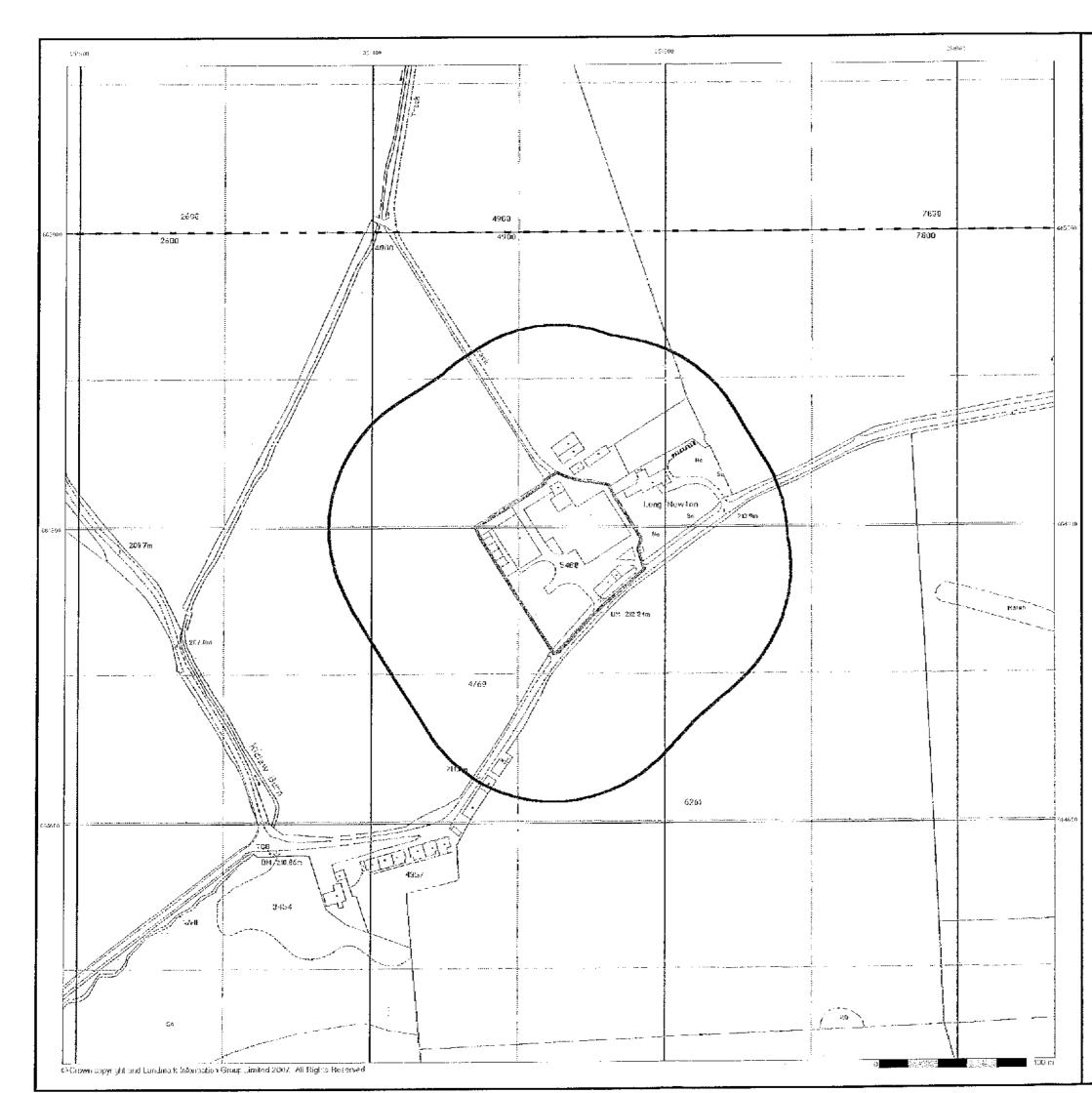
#### Site Details

Longnewton Farmhouse, Haddington, EH41 4JW



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### Large-Scale National Grid Data Published 1994 Source map scale - 1:2,500

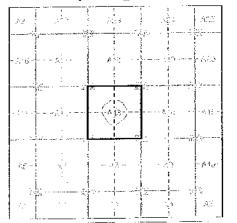
Large Scale National Grid Data' supersided Silk cards (Ordnance Survey's 'Survey of Information on Marci ilm') in 1992, and continued to be preduced until 1999. These in ans write the fore-runners of digital mapping and so provide dria led information on houses and roads it int fond to show loss topographic features such as vogetation. These maps were produced at both 1;2,500 and 1;1,250 profes.

### Map Name(s) and Date(s)

1 NT5165 1994 a na shekara na shekara na shekara na shekara na shekara na shekara na shekara na shekara na shekara na shekar 1 NT5164 % 1994

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#### Historical Map - Segment A13



#### **Order Details**

Order Number: 23871877\_1\_1 E8538 Customer Ref: National Grid Reference: 351530, 664780 Slice: A Site Area (Ha): Search Buffer (m): 0.81 100

#### Site Details

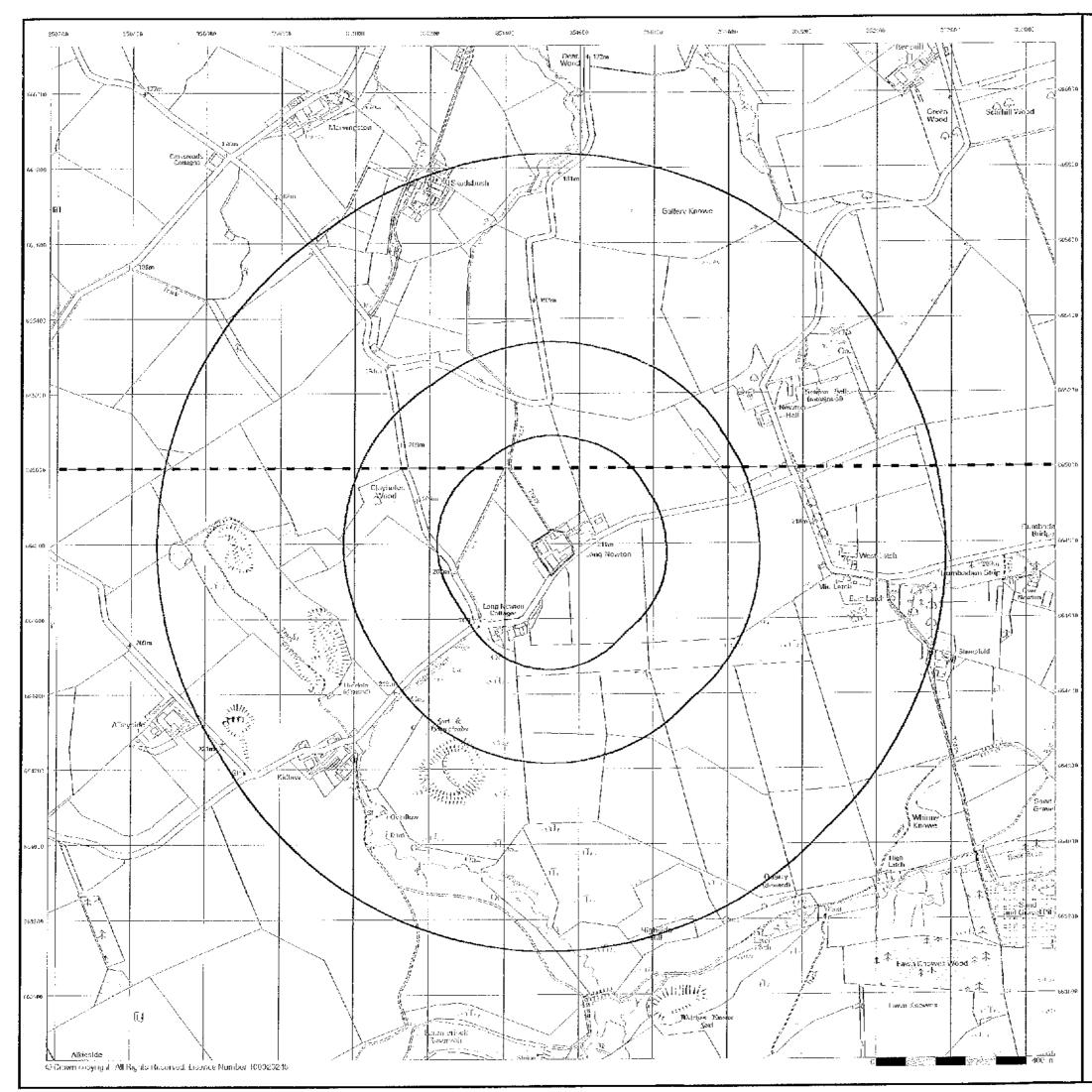
Longnewton Farmhouse, Haddington, EH41 4JW



Tel: Pax: Web:

0870 850 8670 6070 850 9671 www.chvirucheck.co.tik

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# Enviro**check**°

### 10K Raster Mapping Published 2007 Source map scale - 1:10,000

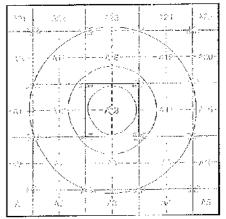
the historical maps shown were produced from the Ordnance Survey's 1:16,000 colour racker incidence. These maps are derived from 4 andplan which replaced the old 1:10,000 maps originally published in 1970. The cata is highly detailed showing buildings, isneed and field boundaries as well as attroade, tracks and paths. Finad names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, eivil pointh and constituency.

### Map Name(s) and Date(s)

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#### Historical Map - Slice A



#### **Order Details**

Order Number:	23871877_1_1_1
Customer Ref:	L8538
National Grid Reference:	351530, 664780
Slice:	A
Site Area (Ha):	0.81
Search Buffer (m):	1000

#### Site Details

Longnewton Farmhouse, Haddington, EH41 1JW



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A Landmark Information Group Service | v24.0 | 19 Dere2007 | Page 8 of 8

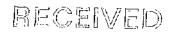
#### APPENDIX C

### BASIC GEOLOGICAL ASSESSMENT REPORT BY BRITISH GEOLOGICAL SURVEY

## CIU:CIUFS)

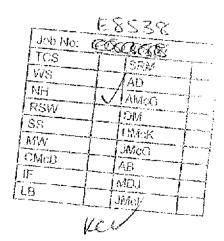


Geological Assessment - Basic



#### - 8 JAN 2008

David R Murray & Associates 150 St John's Road EDINBURGH EH12 8AY



### **Geological Assessment - Basic**

This report is designed for users carrying out preliminary site assessments or at people who have a general interest in the geology around their property.

The report, prepared by BGS geologists, is based on analysis of records and maps held in the National Geoscience Data Centre (NGDC), and describes the rock types that might be encountered at the surface or at 'rockhead' beneath a site (meaning the rocks lying directly beneath the soil layer). It also briefly considers mining and quarrying hazard, and contains a listing of the key geoscience data sets held in the NGDC for the area around the site.

The report <u>does not</u>, however, consider *natural* geological hazards (in particular natural subsidence and radon), or hydrogeology at the site (these are described in the Standard or Detailed Geological Assessment reports, available separately).

Note that for some sites, the latest available records may be quite historical in nature, and while every effort is made to place the analysis in a modern geological context, it is possible in some cases that the detailed geology at a site may differ from that described.

#### Client's Reference: E8538/SMcG/ACM

MH Reference: EE07\_0876

Site address: LONG NEWTON FARMHOUSE HADDINGTON



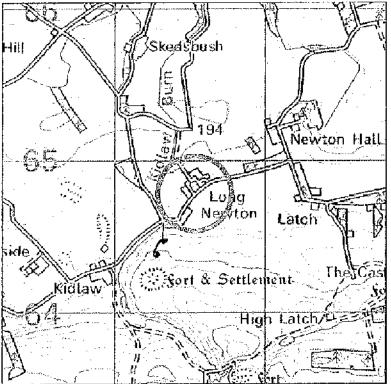


Geological Assessment - Basic

#### Section 1: Location details

Area centred at: 351537,664781 Radius of site area: 250 metres

This report is based on the above location details. However, where the client has submitted a site plan, it is used for the assessment in Section 2.



Scale: 1:25000 (1cm = 250m)



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Geological Assessment - Basic



#### Section 2: Description of the Geology for the site

#### **Artificial Deposits**

We have no records of any significant (thick or extensive) deposits of man made ground at the site. However, some made ground associated with former development may be present at the surface.

#### Superficial Deposits

The natural superficial (drift) deposits are expected to consist of poorly consolidated, glaciofluvial sands and gravels at the surface over most of the site with underlying glacial till. The glacial till is typically a firm to very stiff, silty or sandy day containing rock clasts of pebble to boulder size and irregular bands and lenses of sand and gravel.

#### **Rockhead Depth**

The depth to rockhead (bedrock) is not known but it may not in general exceed 5 metres.

#### Bedrock

A large SW to NE trending fault, known as the Lammermuir Fault, is expected to outcrop (infersect rockhead) beneath the northern edge of the site. The solid rocks on the south side of the fault, and underlying most of the site, belong to the Ordovician and are expected to consist mainly of greywackes and shales. The greywackes are usually medium- to thick bedded, hard sandstones and the shales are generally thin to medium bedded, laminated siltstones and mudstones. The strata are likely to be highly inclined, with steep dips of up to 70 or more degrees, mostly towards the northwest.

The solid rocks on the north side of the fault are expected to belong to the Lower Carboniferous and to consist mainly of interbedded sandstones, siltstones and mudstones. These strata are thought to dip generally towards the north or northeast. The Lammermuir Fault may be represented at rockhead by a zone of fractured and disturbed strata.

#### Mining and Quarrying History

A search of our mine plan catalogues and data revealed no records of any former mining beneath or adjacent to the site. The presence of undocumented mine workings at this location is unlikely. We have no records of any former mine shafts or entrances (adits) on or adjacent to the site.

We have no record of any former quarrying on or close to the site.

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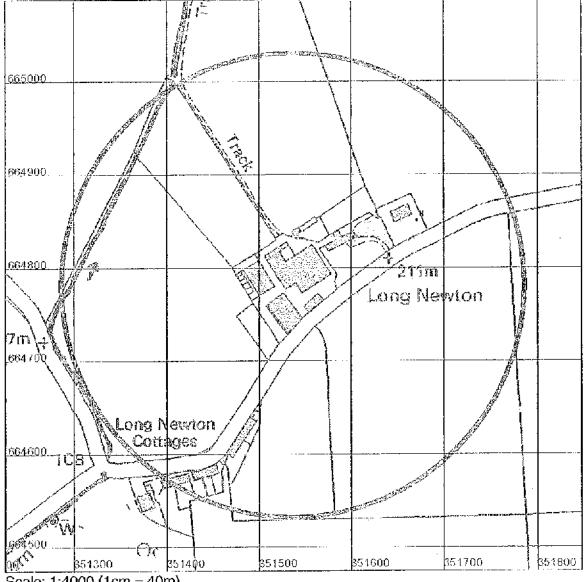
Geological Assessment - Basic



#### Section 3: List of geological data available in search area

This section lists the principal data sets held in the National Geoscience Data Centre that are relevant to the search area. Descriptions of the data sets and how to obtain copies of records from them are given in Sections 4 and 5. Users with access to computing facilities can make their own index searches using the BGS Internet Geoscience Data Index, accessible through the BGS website at www.bgs.ac.uk

#### **Borehole location map**



Scale: 1:4000 (1cm = 40m)





#### Geological Assessment - Basic

#### Borehole records

(A blank Length field indicates the borehole is confidential or no depth has been recorded digitally.)

Total number of records: 1

The 'Office' column shows the office at which the records are held and from where copies can be obtained (see contact details later in the report). KW=Keyworth, MH & MW-Murchison House, WL=Wallingford, EX=Exeter

Regno	Grid_reference	Name	Length	Office	SIR
NE56SW8	NT 51670 64850	LONG NEWTON PB	3.00	MH	

#### There are no Water Well Records in the selected area

National Grid geological maps (1:10,000 and 1:10,560 scale) Total number of records: 1

Map	Туре	Survey	Published
NT56SW	Solid and Drift	1969	

#### County Series geological maps (1:10,560 scale)

Total number of records: 2

Мар	Турс	Published
Haddingtonshire15FS	С	
Haddingtonshire158W	CS	

New Series medium scale geological maps (1:50,000 and 1:63360 scale) Total number of records: 2

Sheet	Title	Туре	Survey	Published	Revision
33W	Haddington	Ð		1978	
33W	Haddington	S		1983	

#### Geological Memoirs

Total number of records: 1

Title	Date
Haddington district	1985

There are no records for Technical reports in the selected area

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#### Geological Assessment - Basic



#### Section 4: Descriptions of BGS databases

Note that this report is not a definitive listing of all data held in BGS.

#### Borehole Records and Water Wells

Records of boreholes, shafts and wells from all forms of drilling and site investigation work. Some 900,000 records dating back over 200 years and ranging from one to several thousand metres deep. Currently some 50,000 new records are being added to the collection cach year.

A small percentage of the borchole records are held commercial-in-confidence for various reasons and cannot be released without the written permission of the originator. If any of the records you need are listed as confidential apply in the normal way. BGS Enquiry Service staff will release the data where this is possible or provide you with the information needed to contact the originator.

Where records are held in more than one office, the contents may differ. Enquiries principally requiring water related information should confact the Wallingford or Edinburgh office.

#### Geological maps

- National Grid maps (1:10,000 and 1:10560 scale) Since the 1960s the standard large-scale
  map for recording geological information has been the Ordnance Survey (OS) quarter sheet
  covering a 5km square area. The maps are supplied in different formats depending on their age
  and the method of reproduction used. Only the latest most up-to-date version is listed.
- County Series map sheets (1:10,560 scale) Maps produced on OS County Series sheets between approximately 1860 and 1960. The list indicates distinct examples of maps from separate surveys or revisions. It is advisable to discuss your requirements before ordering or travelling to view these maps.
- New Series medium scale maps (1:50,000 and 1:63360 scale) Maps at either scale covering the OS New Series one-inch map sheet areas used by BGS. Please note that the sheet numbering is not the same as used for current OS 4:50,000 topographic maps.

While there may be information relevant to your enquiry on older maps, you will generally want the latest cdition, and National Grid maps will be preferred to County Series maps, and New Series to Old Series.

#### Memoirs

Explanatory sheet memoirs describing the geology of the areas covered by either the medium scale (1:50,000 and 1:63,360) map series.

#### Technical reports

The open file reports listed are mainly from the Onshore Geology Series. These include descriptions of the geology for the National Grid series geological sheets. Please note that the location details in the database are not yet complete so it is possible that not all the relevant reports available will be listed.

#### Section 5: How to obtain data and how much it will cost

#### Borehole Records -- contact BGS Enquiry Service (see end of section)

Copies of borehole records can be supplied (order form enclosed) at the flat rate of £13 (+VAT) per log with a minimum charge £26 (+VAT) Normal first class postage within the UK is included. Next day recorded delivery or express parcel dispatch is available on request and charged at cost. Copies of documents can be forwarded by facsimile transmission at an additional charge of £0.50 (+VAT) per A4 sheet. Records with additional detailed geological information derived from BGS examination of borehole material may be charged at the current 'value-added' rate. If you have a need for data with particular geological characteristics, then please contact the enquiries office to discuss your requirements (additional charges may apply).

Alternatively you can make an appointment to visit the relevant enquiry office and examine the records

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Geological Assessment - Basic

yourself. The Commercial User Ticket (see below) covers inspection of the borehole logs and includes access to a set of relevant documents for one unit area (typically a 5 km x 5 km area). A further charge of  $\pm$ 19 (+ VAT) is due for each additional set examined. Data can be freely extracted from the records but any copies requested will be charged as above.

#### Water wells -- contact BGS Enquiry Service

Copies of records can be supplied (order form enclosed) at the flat rate of  $\pounds13$  (+VAT) per log with a minimum charge  $\pounds26$  (+VAT). Normal first class postage within the UK is included. Next day recorded delivery or express parcel dispatch is available on request and charged at cost. Copies of documents can be forwarded by facsimile transmission at an additional charge of  $\pounds0.50$  (+VAT) per A4 sheet.

If you have a need for data with particular hydrogeological characteristics, then please contact the relevant enquiries office (England and Wales =:Wallingford, Scotland-Edinburgh) to discuss your requirements (additional charges may apply). Alternatively you can make an appointment to visit the relevant enquiry office and examine the records yourself.

Records for Scotland are held with the borehole records at our Edinburgh office the above Borehole Record charges cover them and apply.

#### BGS Memoirs, maps and open file reports - contact BGS Sales (details below)

BGS Momoirs, maps and open file reports relevant to your area can be examined in the appropriate BGS Library. Copies can be ordered from our main Sales Desk: Sales Desk, British Geological Survey, Keyworth, Nottingham NG12 5GG Tel: 0115 936 3241, Fax: 0115 936 3488, E-mail: sales@bgs.ac.uk.

Sales Desks are also located in Edinburgh; Tel: 0131 650 0358, Fax: 0131 667 2785, E-mail: scotsales@bgs.ac.uk, and London; Tel: 020 7589 4090, Fax: 020 7584 8270, E-mail: bgslondon@bgs.ac.uk. BOS London also maintains a reference collection of all BGS publications.

#### Commercial User Ticket - contact BGS Enquiry Service

A combined day ticket for commercial visitors to the National Geological Data Centre and the Library is  $\Omega$  (+VA1) and there is a  $\Omega$  (+VAT) day ticket for visitors who only wish to use the Library. Frequent visitors can purchase an annual subscription at  $\Omega$  (+VAT) for access to the NGDC and the Library or  $\Omega$  (+VAT) for use of the Library only. Further details can be provided on request.

#### **BGS ENQUIRY SERVICE Contact Details:**

#### Keyworth (KW) Office

For Borchole and other records (excluding water well records & hydrogeological data) in England & Wales (excluding Northern England, and Devon & Comwall): Records & Data Enquiries Kingsley Dunham Centre Keyworth Nottingham NG12 5GG Tel: 0115 9363143 Fax: 01159 363276

#### Murchison House (MH or MW) Office:

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Geological Assessment - Basic

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### APPENDIX D

### REPORT ON GROUND INVESTIGATION BY SKF LIMITED

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### GROUND INVESTIGATION REPORT



### SITE: LONGNEWTON, HADDINGTON

DATE: 05/04/2008

- CLIENT: GAP Developments Ltd 3 Walker Street Edinburgh EH3 7JY
- ENGINEER: David R Murray & Associates 150 St Johns Road Edinburgh EH12 8AY

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#### CONTENTS

10	INTRODUCTION
2.0	DESCRIPTION OF THE SITE
3 0	FIELDWORK
4 0	LABORATORY WORK
5.0	REFERENCES
APPLNDIX 1.0	LOCATION PEAN
APPENDIX 2.0	EXPLORATORY HOLE LOGS
APPENDIX 3.0	LABORATORY TEST RESULTS

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#### 1.0 INTRODUCTION

The contents of this report relate to a ground investigation carried out at Longnewton, Haddington

The purpose of the investigation was to determine the contamination status of the site as well as providing a general overview of the sequence of strata and soil conditions beneath the site of the proposed development.

The report was commissioned by the Engineer, David R Murray Associates, 150 St Johns Road, Edinburgh, EH12 8AY on behalf of the Client, GAP Developments Ltd, 3 Walker Streei, Edinburgh, EH3 7JY

A brief factual report was requested by the Engineer

#### 2.0 DESCRIPTION OF THE SITE

The site is located both within and surrounding the existing I ongnewton Farm steading near Haddington. The farm which is currently operational is bounded by agricultural land to the north and west while a rural access road bound the south of the site. Longnewton House lies to the east of the site. The majority of the site is currently occupied by farm outbuildings in various states of repair. Several disused stone outbuildings and large corrugated metal clad sheds occupy the site which is predominantly covered by hardcore. A section of tarmac access road runs along the eastern boundary of the site and provides access to Longnewton House.

#### 3.0 FIELDWORK

#### 3.1 Areas of Investigation

All exploratory holes were positioned by SKF Ltd in conjunction with the Engineer in order to provide a uniform spread across the site whilst at the same time targeting areas likely to be renovated and developed

The positions of all exploratory holes are displayed on the location plan provided by the Engineer and contained in Appendix 1.0 of this report



#### 3.2 Continuous Percussion Boring By Competitor 130

Five number boreholes, BH01 to BH05 were sunk by a two man crew using a Competitor 130 continuous percussion soils boring rig. Regular disturbed soil samples were recovered from each stratum encountered. In apparently cohesive strata, open-drive "undisturbed" soil samples were attempted. Standard Penetration Tests (S.P.T.) were carried out in predominantly granular strata. Samples were also recovered in appropriate containers for chemical testing.

#### 3.3 Trial Pitting

Seven number trial pits, HP01 to HP07, were excavated to expose the foundations of existing farm outbuildings. These pits were excavated by hand and logged by SKF's Engineer. Two number shallow pits were also excavated close to a silage store to recover samples for chemical analysis.

#### 3.4 Standpipe Installations

On the instruction of the Engineer, 50mm diameter standpipes were installed in three number boreholes, BH01, BH04 and BH05, to allow monitoring of gas and groundwater levels

Details of the installations are displayed on the appropriate borehole logs in Appendix 2.0 of this report

All other boreholes were backfilled with arisings on completion.

#### 3.5 Exploratory Hole Logs / Photographs

All exploratory hole logs are contained in Appendix 2.0 of this report. All strata encountered were described on site by SKF's Engineer using guidelines detailed in BS 5930 : 1999.

All hand excavated trial pits were photographed using a digital camera. These photographs are presented on CD and are contained in Appendix 2.0 of this report.

#### 3.6 Insitu and Field Testing

#### 3.6.1 Standard Penetration Tests



Standard Penetration Tests (SPT), using a split barrel sampler or cone as appropriate, were performed at regular depths in prodominantly granular soils. The results of these tests have been used to assess the relative density of cohesionless soils in accordance with BS 5930: 1999 "Site investigations<sup>7</sup>" Clause 41.3.2:-

RELATIVE DENSITY	SPT (N) VALUE
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	> 50

Where granular soils were encountered and no SPT data is available the soil density has been estimated by SKF's Engineer. The results of the standard penetration tests are displayed on the borehole logs contained in Appendix 2.0 of this report.

#### 3.7 Groundwater Observations

In the course of drilling each borehole, the incidence of groundwater was noted by the driller. Any ingress of water during trial pitting operations was recorded by SKE's Engineer. All groundwater observations are detailed in the exploratory logs in Appendix 2.0 of this report

#### 3.8 Fieldwork Period

Fieldwork was carried out on the 17<sup>th</sup> January 2008 and 30<sup>th</sup> January 2008 generally in accordance with BS 5930 <sup>-</sup> 1999 "Site investigations"

#### 4.0 LABORATORY WORK

#### 4.1 Soil

All soil samples were described during the fieldwork by SKF's Engineer using guidelines detailed in BS 5930 1999

A programme of laboratory testing proposed by the Engineer was carried out on selected soil samples. All testing was undertaken in accordance with BS.1377 : 1990 "Methods of test for soils for civil engineering purposes" and other current, relevant standards as appropriate References and methods for each test are detailed on the appropriate results sheets



The final descriptions appearing on the borehole logs are based on visual examination in conjunction with the available laboratory and in-situ test data.

#### 4.1.1 Soil Classification Tests

The following soil classification tests were carried out

- Ihree number Moisture Content Determination.
- Five number Particle Size Distribution tests including five number
   Sedimentation tests
- Two number Atterberg Limits test.

#### 4.1.2 Soil Strength Tests

The following soil strength tests were carried out.

 One number Immediate Undrained Triaxial Compression Strength test, performed using multi-stage testing techniques on an 86mm diameter undisturbed sample

#### 4.1.3 Soil Compressibility Tests

The following soil compressibility tests were carried out

One number Ocdometer One Dimensional Consolidation test

#### 4.1.4 Soil Compaction-Related Tests

The following soil compaction-related tests were carried out.

One number California Bearing Ratio (CBR) test.

#### 4.1.5 Soil Chemical / Contamination Tests

The following chemical tests were carried out:

• Thirteen number chemical analysis for: As, Total Cr, Hg, Ni, Zn, Pb, B, Cu, Se, Cd, pH, Water soluble S04, Phenols, Total Cyanides and Sulphide



- Four number TOC
- Two number OCP.

#### Three number speciated TPH.

- Three number Asbestos screen.
- Six number Leachates (As, Cd, Cr, Hg, Pb, Se, Ni, Cu, Zn & Water hardness)

#### 4.1.6 Water Chemical / Contamination Tests

The following chemical tests were carried out:

- Two number chemical analysis for. As, Total Cr, Hg, Ni. Zn, Pb, B, Cu, Se,
   Cd, pH, Water soluble S04, Phenols, Total Cyanides and Sulphide
- Two number tests for Water hardness
- Two number VOC (USEPA).
- Two number VOC.

#### 5.0 REFERENCES

- 1 BS.5930:1999 Code of practice for site investigations; British Standards Institution, London
- 2. BS 1377:1990 Methods of test for Soils for civil engineering purposes (Parts 1-9); British Standards Institution, London

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APPENDIX 1.0 LOCATION PLAN

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APPENDIX 2.0 EXPLORATORY HOLE LOGS



SKF Ltd, Unit 10, Haylie Neuk, Largs, Ayrshire, KA30 8JD TEL: 01475 672409 or 07795 493892 FAX: 01475 672409

#### BOREHOLE NO. BH01

#### Contract: LONGNEWTON, HADDINGTON

Contract No: 0535

Status: FINAL

#### Client: DAVID R MURRAY & ASSOCIATES

Boring Diameter: 115mm

Co-ordinates E

Date: 17/01/2008

- 115mm 004
- Equipment: COMPETITOR 130

TOR 130	N
<u> </u>	

Description of Strafa	Legend	Depth	Level	Sampling	SP1 Blows U Blows Hand Vane	Pipe
Ground Surface						8
MADE CROUND: Loose' brown sandy fine to coarse angular grave! with occasional cobbles		0.30				
Soft to firm brown sandy slightly gravelly CLAY with occasional cobbles. Gravel fine to coarse and angular to sub rounded		9.70		J0 50		
Loose becoming modium dense light grovish brown and brown silty fine to coarse SAND. From 1.80m becoming modium dense with traces of gravel and occesional pockets of stiff sandy gravelly clay.				11.00 1927 1.00-1.45 1168 1.00-2.00	1.2.2.2.1.2 112	
				1.2.00 SPT 2:06-2.45 U66 2:07-3.00	5.6,5376 1/4	
Recovered as reddish brown sandy angular gravel of SILTSTONE. Slightly clayey at top. Presumed weathered		2 50	       			
bedrock				U 5 00 OF1 3 00-2 45	12.9.10 10.12 8	
	2 X X 2 4 2 X 1 7 0 4 0 2 2 2 2 4 7 X 2 2 4 7 X 2 2 4 7 X 2 2 4 7 X 2	0.05		SPT 3 50 3 30	12 15 14 41	
Water Strikes Dota				SYME	BOLS KEY	<u> </u>
Itrike:     0.30     Flow.     Casing:     2.00       Inspection 11it:     0.50 x 0.50 x 1.00       Irreaking Out / Coring:       Installation:       Standpipe 50mm diameter installed to 2.80m	Final Dep	<u>din. 3.80</u>	B D J V W	BULK - UNDISTURBED - SMALL DISTUR B - JAR - VIAL - WATER	NR - NO RECOVER - ESTIMÁTED DU D	/ ASHY
lotes: ogged by: SKE Checked by: SKE				ALL DIM::N	SIGNS ARE IN MERRES	



SKF Ltd, Unit 10. Haylie Neak, Largs, Ayrshire, KA30 8JD TEL: 01475 672409 or 07795 493692 FAX: 01475 672409

#### BOREHOLE NO. BH02

#### Contract: LONGNEWTON, HADDINGTON

Contract No: 0535

Status: FINAL

Sampling

1950

11.00

1200

SP1 2 C0-2 45

SPT 2 50-2 85

SPT 1 00-1 45

U86 4 00-2 0C

#### Client: DAVID R MURRAY & ASSOCIATES

Description of Strata

MADE GROUND: Loose\* brown sandy fine to coarse angular

POSSIBLE MADE GROUND: Loose\* brown and orange brown

Firm to stiff and stiff reddish brown sandy gravelly CLAY with

Recovered as reddish brown and red sandy angular gravel of

SANDSTONE Slightly clayey at top. Presumed weathered

Water Strikes

Notes: Borehole backfilled on completion.

Inspection Pit:  $0.50 \times 0.50 \times 1.00$ 

Breaking Out / Coring:

Strike, 0.00

Installation:

Logged by: SKF

Flow: Slow

gravel with occasional cobbies. Occasional roots and rough

sandy line to coarse angular to sub rounded gravel with

occasional bands of very clayey sand and gravel

Boring Diameter: 115mm

Legend Depth Level

0.20

0.60

1.80

2.85

Date: 17/01/2008

Ground Surface

occasional cobbles.

grass at top.

hedrock

Equipment: COMPETITOR 130

\_\_\_\_\_ ÷

<u>\_</u> x...

×-1 ×-1

Details

Final Depth: 2.65

Casing: 2.00

Checked by: SKF

SPT Blows

**U** Blows

Hand Vane

0,0,0 0 2 2

14.22 26.18 21 18

29-40

SYMBOLS KEY

ALL DIMENSIONS ARE IN METRES.

NR - NO RECOMERY - ESTIMATED DENSITY

- BOLK UNDISTURBED

WATER

SMALL DISTURE: D -JAR -MAL

З

U D J V

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132

Pipe



SKF I Id, Unit 10, Haylie Neuk, Largs, Ayrshire, KA30 0JD TEL: 01475 672409 or 07795 493892 FAX: 01475 672409

#### BOREHOLE NO. BH03

#### Contract: LONGNEWTON, HADDINGTON

Contract No: 0535

Status: FINAL

#### Client: DAVID R MURRAY & ASSOCIATES

Boring Diameter: 115mm

Co ordinates E

Ν

SPT Blows

Date: 17/01/2008

Equipment: COMPETITOR 130

	····			-
-			· · ·	
	Legend Depth	Level	Sampling	

Description of Strata	Legend	Depth	Level	Sampling	U Blows Hand Vane	Pipe
Convert Cuttons	~				}	
Ground Surface MADE GROUND: Dense* brown slightly sitty sandy angular and sub angular gravel with occasional obbiles. Occasional fragments of clay file, brick and concrete		0.60		J 0 50		
MADE GROUND: Dense* brown and reddish brown clayey sandy gravel. Occasional dark brown pockets with occasional fragments of brick. Traces of roots. Gravel fine to coarse and angular to sub rounded. Medium dense reddish brown silfy SAND and CRAVEL. Locally		<u>050</u> .		) 1 00 SPT 1 00-1 45 Q05 1 00-2 00	25 8.8 5 5 5 122	
light grey. Gravel line to coarse and angular and sub angular Occasional pockets of still sandy gravelly clay at depth. At 2.80 hard obstruction, possible sandstone bedrock	× × × × × × × × × × × × × × × × × × ×	- - - - - -		1 2 C0 SITT 2 CD-2 46	622343	
		: : : :		(168(3) 2 10 2 80 SPT 2 80-2 82	1.3 89/20mm	
		2.32				
		1	1_	l		_
Water Strikes Dela				SYM	BOLS KEY	
Strike: Dry     Flow:     Casing, 2.00       Inspection Pit. 0.50 x 0.50 x 1.00       Breaking Out / Coring:	Final D <u>e</u> j	oth: 2.82	—н U J J	BULK - UNDISTUREED - CMALL DISTURE - JAR	NR - NO REGOVER) * ESTIMATED DI ED	í INSITY
Installation: Notes: Borchole backfilled on completion			N N			
Logged by: SKF Checked by: SKF				ALL DIMU	NSIONS ARE IN MITTRES	



SKF Ltd, Unit 10, Haylie Neuk, Largs, Ayrshire, KA30 8JD TEL: 01475 672409 or 07795 493892 FAX: 01475 672409

**BOREHOLE NO. BH04** 

#### Contract: LONGNEWTON, HADDINGTON

Contract No: 0535

Status: FINAL

#### Glient: DAVID R MURRAY & ASSOCIATES

**Description of Strata** 

Boring Diameter: 115mm

Co-ordinates E

Pipe

#### Date: 17/01/2008

Equipment: COMPETITOR 130

ж	enf: CO	MPET	TTOR	130	N
	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane

· · · · · · · · · · · · · · · · · · ·			<u> </u>	
Ground Surface				
MADE GROUND: Topsoil / toif and roots with occasional fragments of clay file.	0.30			
Loose brown silty slightly gravely fine to coarse SAND. Gravel fine to coarse and angular to sub rounded. Slightly dayby at depth		J 0 53		
	м да м да м да м да м да м да м да м да	3 1 00 Set 1 00-1 45 U05 3 00-2 00	1 2,2 3 <b>3</b> 2 104	
	× × 160			
Loose* becoming medium dense reddish brown slightly clayey gravelly fine to coarse SAND. Cravet fine to coarse and angular and sub angular.		3 2 06 SET 2 00-2 15 106 2 00-3 00	3 3,2 5,10 9 129	
Recovered as reddish brown sandy angular gravel of SANDSTONE. Slightly clayey at top. Crumbles into sand Presumed weathered bedrock				
	3.15	0.200 Sim 3.00-5 16	28 31	
			i i	
Water Strikes Deta		SY	MBOLS KEY	
Strike, 0,80 Flow: Slow Casing: 2.00	Final Depth: 3.15	B - BULK U UNDISTORBED	NR - NO RECOV	ERY DENSITY
inspection Pit: 0 50 x 0 50 x 1 00 Breaking Out / Coring:		D - SMALL DISTUR		
Installation: Standpipe 50mm diameter installed to 2 80m		J – J¥ak V – MAI		
Notes:		W WALER		
Loggod by: SKF Checked by: SKF			ENSIONS ARE IN ME (I	et S



*SKF Ltd*, Unit 10, Haylie Neek, Largs, Ayrshire, KA30 8JD TFI : 01475 672409 or 07795 493892 FAX: 01475 672409

BOREHOLE NO. BH05

#### Contract: LONGNEWTON, HADDINGTON

Contract No: 0535

Status: FINAL

#### Client: DAVID R MURRAY & ASSOCIATES

Boring Diameter: 115mm

Co-ordinates E

N

#### Date: 17/01/2008

Equipment: COMPETITOR 130

Description of Strata	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface						<b>N</b> 101
MADE GROUND: Topsoil / tur: and roots with occasional fragments of clay tile		0.30				
Loose becoming medium dense reddish brown silty gravelly fine to coarse SAND. Gravel fine to coarse and angular to sub rounded. Occasional sandstone cobbles. More clayey at depth From 1.80m locally stiff sandy gravelly clay	2 Z 2 X 2 X			J-0.30		
	v v		1	U 1 00 SP 1 1 00 1 15 U86 1 00 2 00	8,5,6 4 2,3 122	
		2.10		J 2 C0 SPT 2 C0 2 45	10770.104418	
Recovered as reddish brown and red sandy angular gravel of SANDSTONF. Slightly clayey at top. Crumbles into sand Presumed weathered bedrook		2.65		SP1 230-265	21 86	
			A-111			
			2			
Water Strikes Deta		] 	<u> </u>	SYME	BOIS KEY	
Strike: 0.80     Flow: Stow     Casing: 2.00       Inspection Pif: 0.50 x 0.50 x 1.00       Breaking Out / Coung.       Installation: Standpipe 50mm diameter installed to 2.00m	Final Dep	oth: 2.60	i   B   U   D   J   V   W	- RULK - UNDISTURBED - SMALL DISTURBE - JAR - VIA - WATER	NR NO RECOVERY * ES GMALED DE! U	\SH¥
Notes: Logged by: SKF Checked by: SKF				ALL DIMN	SIGNS ARE IN MITLRAS	<u>`*</u> _

SKF	L	td
Grei ne Investigation	5. Sile	SUVAG

SKF-Ltd, Unit 10, Haylic Neuk, Largs, Ayrshire, KA30 %.#) TEL: 01475 672409 or 07795 493892 FAX: 01475 672409

TRIAL PIT NO. HP01

#### Contract: LONGNEWTON, HADDINGTON

Contract No: 0535

Status: FINAL

#### Client: DAVID R MURRAY & ASSOCIATES

Pit Dimensions: 0.40 X 0.40 Equipment: HAND DUG Co-ordinates E

Ν

Date: 30/01/2008

Description of Strat	3	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Grouad Surface							
MADE GROUND: Loose* brown very gravelly with occasional cobbles. Gravel fine to coars rounded	y fine to coarse sand e and angular to sub		0.45		D030		
					·		
Water Strikes	Details		l		SYMBOLS	KEY	
Strike: Dry Elow:	Casing: Final I	Depth: 0.4	45	3 - 601	K NR	NO RECOVERY	
Stability: Stable				<ol> <li>UMI</li> </ol>	DISTURBLD	LS HMATER DEN	SELY
Shoring: None Designment (Strady Mercel)				u - JAB V - VIA	1		
Backölling, Backfilled with arisings Notes: Foundation exposed.				W WA	TER		
Logged by: SKI	Checked by: SKF		·		ALL DIMENSIONS (	ARE IN METRES	



SKF Ltd, Unit 10, Haylie Neuk, Largs, Ayrshine, KA30 8JD TEL: 01475 672409 or 07795 493892 FAX: 01475 672409

TRIAL PIT NO. HP02

#### Contract: LONGNEWTON, HADDINGTON

Contract No: 0535

Status: FINAL

#### Client: DAVID R MURRAY & ASSOCIATES

Pit Dimensions: 0.50 X 0.40

Co-ordinates E

#### Date: 30/01/2008

Equipment: HAND DUG

Ν

Description of Strat	ta	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface							
MADE GROUND: Topsoil/roots.		XXX	0.10				
MADE GROUND: Loose' brown gravelly slig sand with fragments of day pipe, brick, roots Gravel fine to coarse and angular to sub rou gravelly and clayey at depth	and occasional cobbles		0.50		0030		
Soft to firm light brown mottled orange brown with occessional cobbles. Gravel fine to coars rounded.	n sandy gravetly CLAY er and angular to sub		0.80		D 0 50		
		<u>0 67</u>	<u>, , , , , , , , , , , , , , , , , , , </u>				
Water Strikes	Details	 			SYMBOLS	KEY	
Strike: 0.60 How. Moderate Stability: Stable Shoring: None Backfilled with arisings Notes: Unable to expose foundation due to wat	Casing: Final f	Depth: 0.6		D SM) J JAR V VIA	K NR - SISTURBED - * ALEDISTURBED -	NO RECOVERY ESTIMATE 20EN	SOY
Logged by: SKF	Checked by: SKI-						

SKF Ltd	
Crement Investigation & Sile Services	

SKF Ltd, Unit 10, Haylie Neuk, Largs, Ayrshire, KA30 8JD TEL: 01475 672409 or 07795 493892 FAX: 01475 672409

TRIAL PIT NO. HP03

#### Contract: LONGNEWTON, HADDINGTON

Contract No: 0535

Status: FINAL

#### Client: DAVID R MURRAY & ASSOCIATES

Pit Dimensions: 0.40 X 0.50

Co-ordinates E

Date: 30/01/2008

Equipment: HAND DUG

Ν

Т

Description of Strata	Legend	Depth	Lovel	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface	······		]			
MADE GROUND, Topsoil/roots with brick fragments		i i				
		Ì				
				D 0 20		
		0.34		D 0 35		
Loose* reddish brown sandy CRAVEL with occasional cobbles Gravel fine to coarse and angular to sub rounded.		0.40				
Gravel find to coarse and angular to sub rounded.		<u></u>	<u>⊢                                    </u>			
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Water Strikes Deta	ails			SYMBOL	S KEY	
Strike: Dry Flow: Casing	Final Depth: 0.	.40	в - в.		NO RECOVERY	
Stability: Stable			10 - U	MATERNS URBLD	- ESTIMATED DE	NSITY
Shoring: None		ŀ	AL L	ił -		
Backfilling: Backfilled with arisings		1	V VI W VV	AL ATER		
Notes: Foundation exposed.					S ARE IN METRES	
Logged by: SKF Checked by: SKF		]				



SKF Ltd, Unit 10, Haylie Neuk, Largs, Ayrahme, KA30 8JD TEL: 01475 672409 or 07795 493892 FAX: 01475 672409

#### TRIAL PIT NO. HP04

#### Contract: LONGNEWTON, HADDINGTON

Contract No: 0535

Status: FINAL

#### Client: DAVID R MURRAY & ASSOCIATES

Pit Dimensions: 0.70 X 0.50

Co-ordinates E

N

Date: 30/01/2008

Logged by: SKF

Equipment: HAND DUG

Description of Strata	Legend	Deptin	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface MADE GROUND: Loose* brown clayey slightly gravelly fine to coarse sand intermixed with fragments of clay pipe, roots/rootlets Occasional cobbles. More clayey at depth.				D020		
Soft to firm reddish brown sandy slightly gravelly CLAY with occasional cobbles and fine roots. Gravel fine to coarse and angular to sub rounded		0.58		D C 60		
Water Strikes     Details       Strike: Dry     How:     Casing:       Stability: Stable     Casing:     Final       Shoring: None     Backfilled with arisings     Notes; Foundation exposed	al Depth: 0.	80	1) - SM J - Al V - VM	OIS : URBILD * * IALL DISTURBED *	NO RECOVERY - ESTIMATED DEN	STY:

Checked by: SKF



SKF Ltd, Unit 10, Haylie Neuk, Laugs, Ayrshim, KA30 8JD TEL: 01475 672409 or 07795 193892 FAX: 01475 672409

#### TRIAL PIT NO. HP05

#### Contract: LONGNEWTON, HADDINGTON

Contract No: 0535

Status: FINAL

#### Client: DAVID R MURRAY & ASSOCIATES

Pit Dimensions: 0.50 X 0.40 Equipment: HAND DUG

Co-ordinates F

Date: 30/01/2008 Equipm	ent: HAND	DUG		N		
Description of Strata	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	
Ground Surface						
MADE GROUND: Topsoi./roots		0.10				
MADE GROUND. Loose * brown gravelly slightly clayey fine to coarse sand with fragments of clay pipe, rocts and occasional cobbles. Gravel fine to coarse and angular to sub rounded. Becomin more gravelly at depth	· 💥			D 0 20		
		ζ ζ ζ 0.70		D 0.50		
			•			
						ļ

Water Strikes	Detail	s j	SYMBOLS KEY
Strike: Dry Elow:	Casing:	Final Depth: 0.70	D BHIK NO RECOVERY
Stability: Stable			D CNDISTURBED * - LSTIMATED DENSITY
Shoring: None			D – SMALL DISTURBED J – JAR
Backülling, Sackfilled with arisings			V - VIAL W WATER
Notes: Foundation exposed			ALL DIMENSIONS ARE IN METRES
Logged by: SKU	Checked by: SKF		



SKF Ltd, Unit 10, Haylic Neuk, Largs, Ayrshire, KA30 8.0) TEL: 01475 672409 or 07795 493892 FAX: 01475 672409

### TRIAL PIT NO. HP06

#### Contract: LONGNEWTON, HADDINGTON

Contract No: 0535

Status: FINAL

#### Client: DAVID R MURRAY & ASSOCIATES

Pit Dimensions: 0.50 X 0.50 Equipment: HAND DUG Co-ordinates E

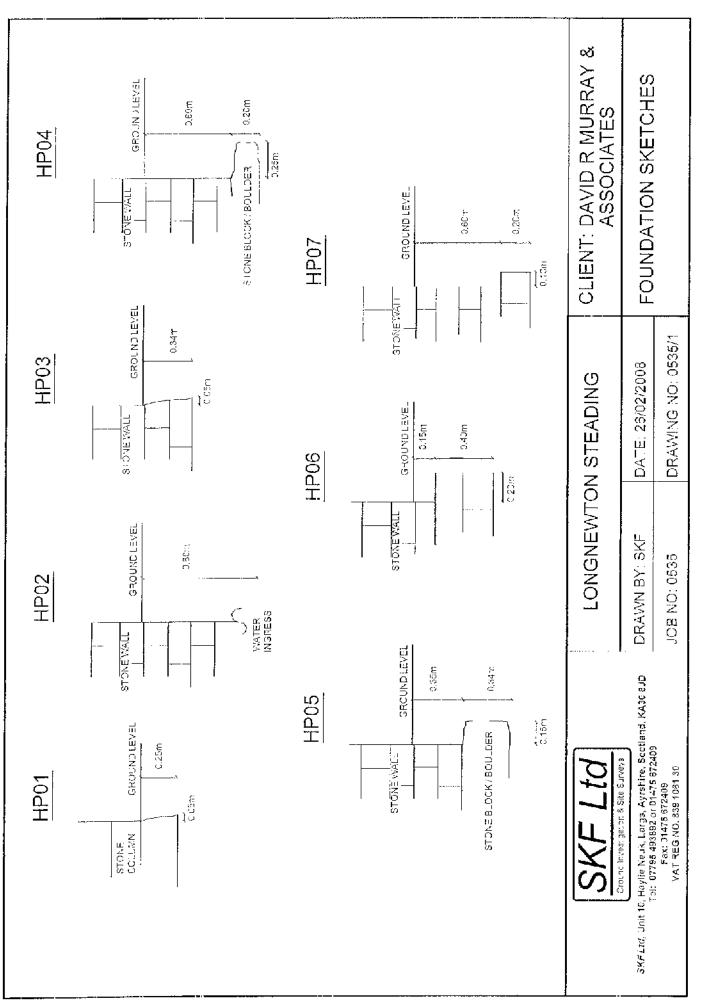
Ν

Date: 30/01/2008

.50 00-01010

Description of Strat	a	Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface				1			
MADE GROUND: Topsoil/roots with occasio	nat fragment of clay tile	XXXX		1			
		č×××	0.10				
MADE GROUND: Weak concrete (0.10-0.15			·	<u> </u>	D 0 20		
MADE GROUND. Loose * light brown very s to coarse angular to sub rounded gravel.			0.25	· ·	0.020		
MADE GROUND: Soft to firm brown slightly	sandy gravelly clay with	XXX			D 0 40		
occasional cobbles. Gravel fine to coarse an	gular to sub rounded				D 0 40		
			0.50	<b></b> ~	D 0 50		
Firm to stiff reddish brown slightly sandy gra occasional cobbles. Gravel fine to coarse an	velly CLAY with cular to sub-rounded			L			
· · · · · · · · · · · · · · · · · · ·			· 1	Ļ		L	ة <i>ب</i> الم
Water Strikes	Details	Dander Of	.		SYMBOLS	KEY	
Strike: Dry Flow:	Casing: Final	Depth: 0.9	100	в соц		- NO RECOVERY	ėr v
Stability: Stable			Ì	a - SM	DISTURBED *	ESTIMATED DEN	or Y
Shoring: None			ļ	.: JAF V VIA	{		
Backfilling: Backfilled with ansings				W WA			
Notes, Houndation exposed	Chooked by OKI		l		ALL DIMENSIONS	ARE IN METRES	
Logged by: SKF	Checked by: SKF		•				

SKF Ltd, Unit 10, Haylie Neuk, Largs, Ayrshire, KA30 8JD Cround Investigation & Sile Serveys				TRIAL PIT NO. HP07			
Contract: LONGNEWTON, HADDINGTON	VTON, HADDINGTON Contract No: 0535			Status: FINAL			
Client: DAVID R MURRAY & ASSOCIATES	Pit Dimer	sions: 0.5	0 X 0.	50	Co-ordinates E	E	
Date: 30/01/2008 Equipmen			DUG	N			
Description of Strata		Legend	Depth	Level	Sampling	SPT Blows U Blows Hand Vane	Pipe
Ground Surface							
MADE GROUND: Tarmac (GL - 0.05).							
MADE CROUND. Soft to firm brown sandy gravelly clay with fragments of tarmad at top. Gravel fine to coarse an sub rounded. At 0.40 thin band of soft light brown sandy clay	d angular to				D 0.20		
			0.55				ĺ
Soft to firm reddish brown sandy very gravelly CLAY with cobbles. Gravel fine to coarse and angular to sub rounde	i occasiona! :d				D 0 60		
			0.85				
				I[			
Water Strikes         Casing:           Strike: Dry         Flow:         Casing:	Details Casing: Final Depth. 0.85			SYMBOLS KEY			
Stability Flow. Casing. Final Deput. 0.05					ISTARSED 1	- NO RECOVERY ESTIMATED DENS	ЯЦY
Shoring: None				J JAR			
Backfilling: Backfilled with arisings Notes: Foundation exposed.				V VIAL W WAT			
Logged by: SKF Checked by: SKF				AUL DIMENSIONS ARE IN METRES			
Construction of the second second second second second second second second second second second second second			1	· ····			



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### APPENDIX 3.0 LABORATORY TEST RESULTS

# 🛞 ritchies

# NATURAL MOISTURE CONTENT

Longnewton

C/ient:

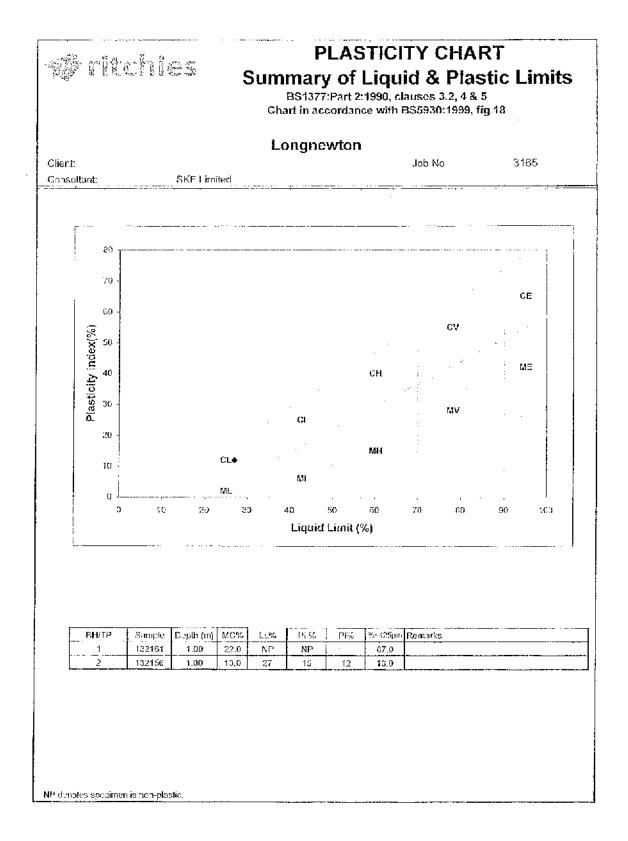
Consultant: SKF Limited

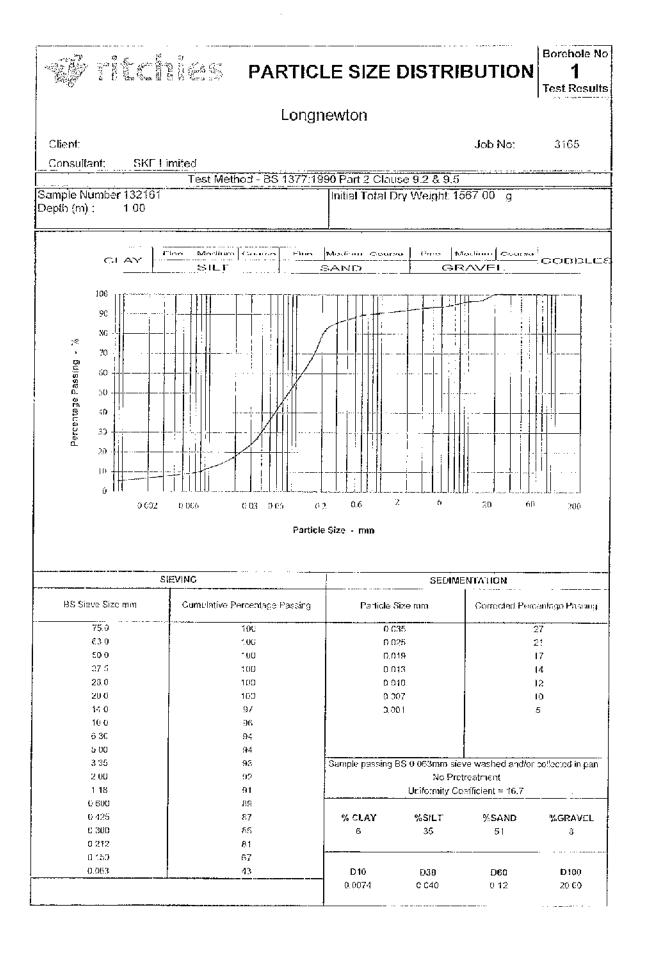
Job No:

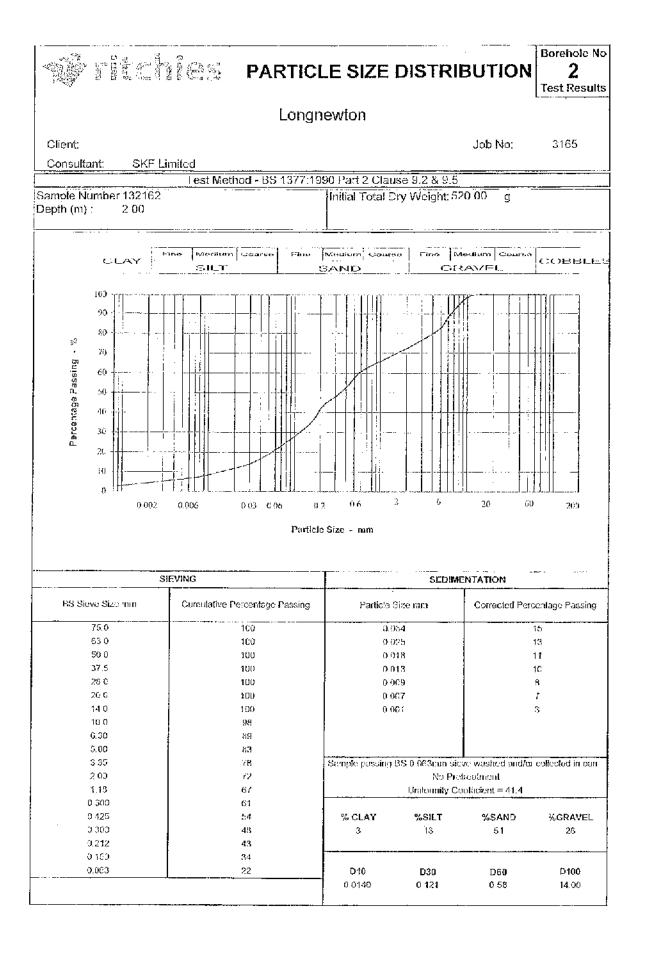
3165

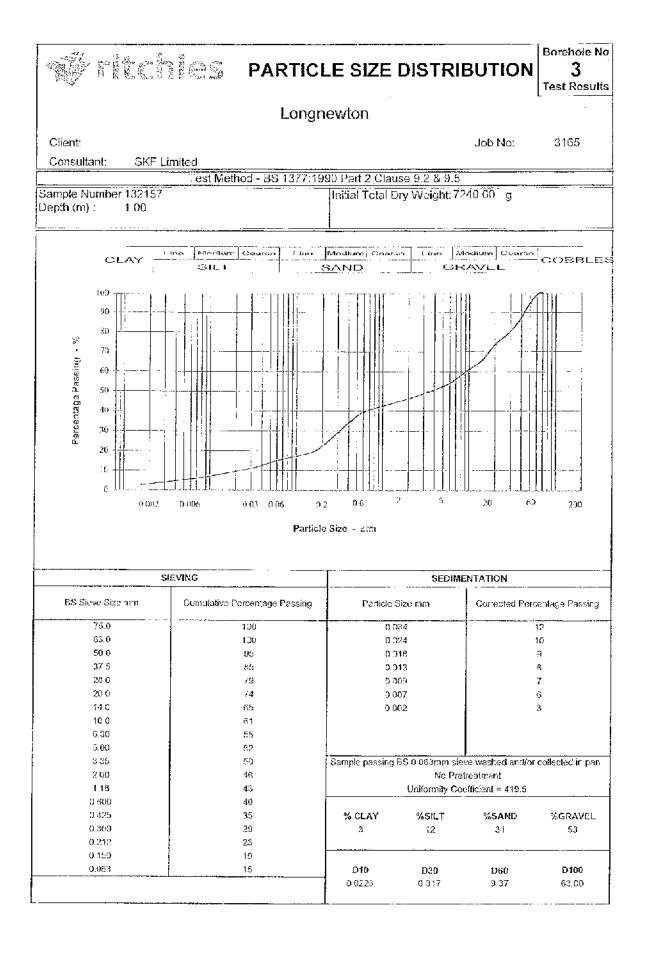
Test Method - BS 1377:1990:Part 2:Method 3.2

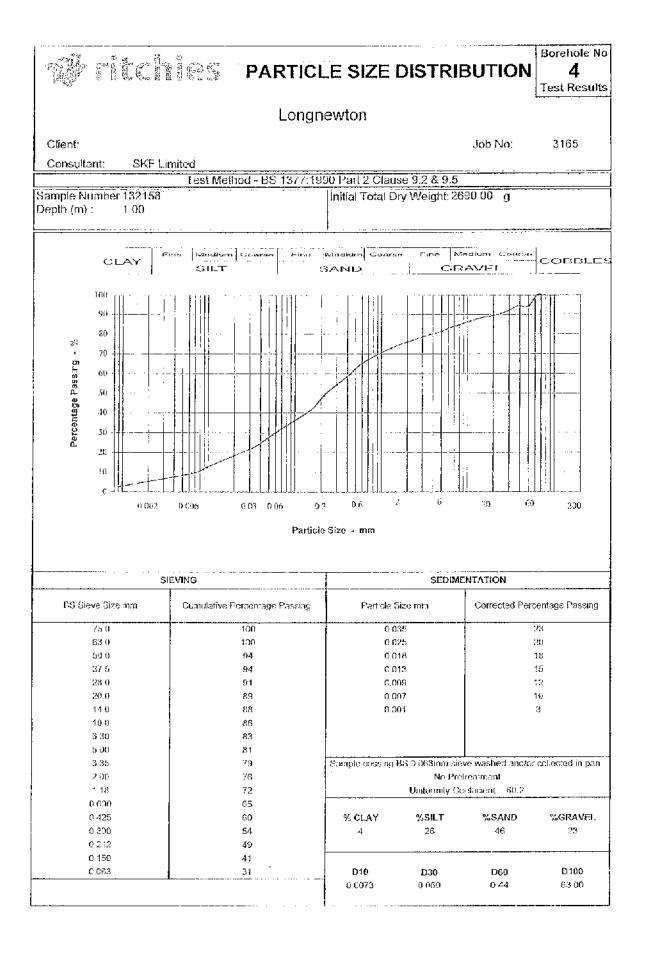
9	ample Identification		Moisture Content (%)
1	132161	1.00 m	22
2	132156	1.00 m	13
3	132157	1.00 m	15

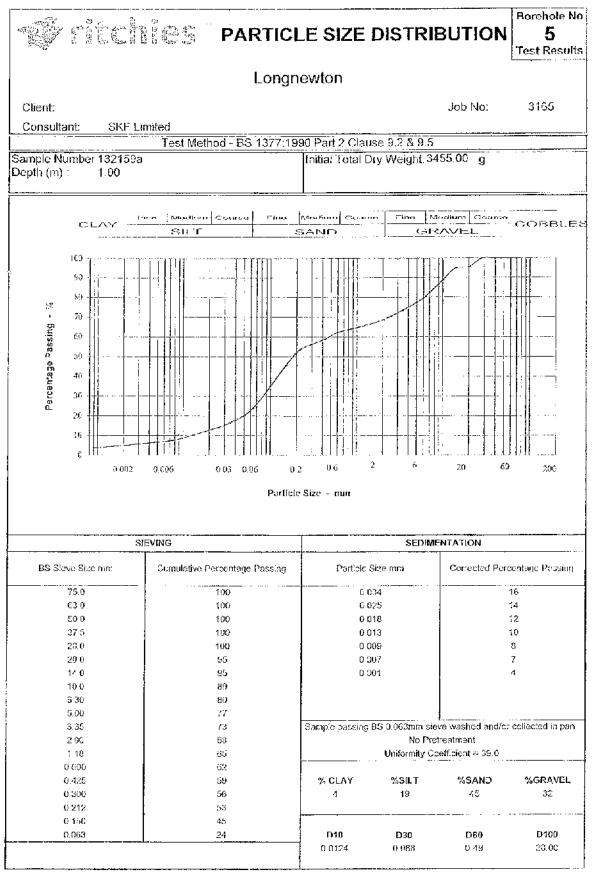












# W ritchies

# CALIFORNIA BEARING RATIO

### Longnewton

Job No:

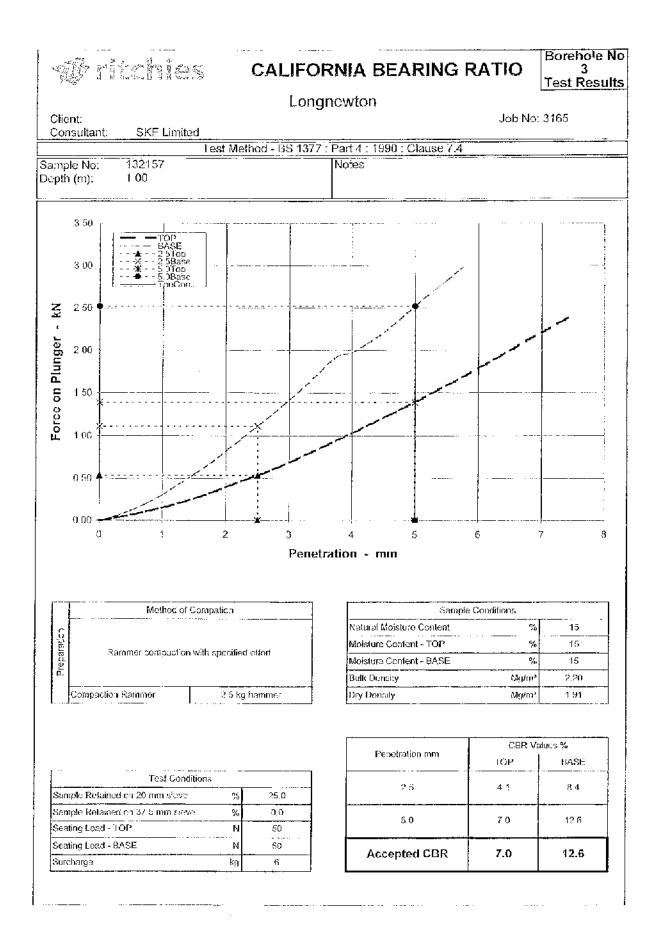
3165

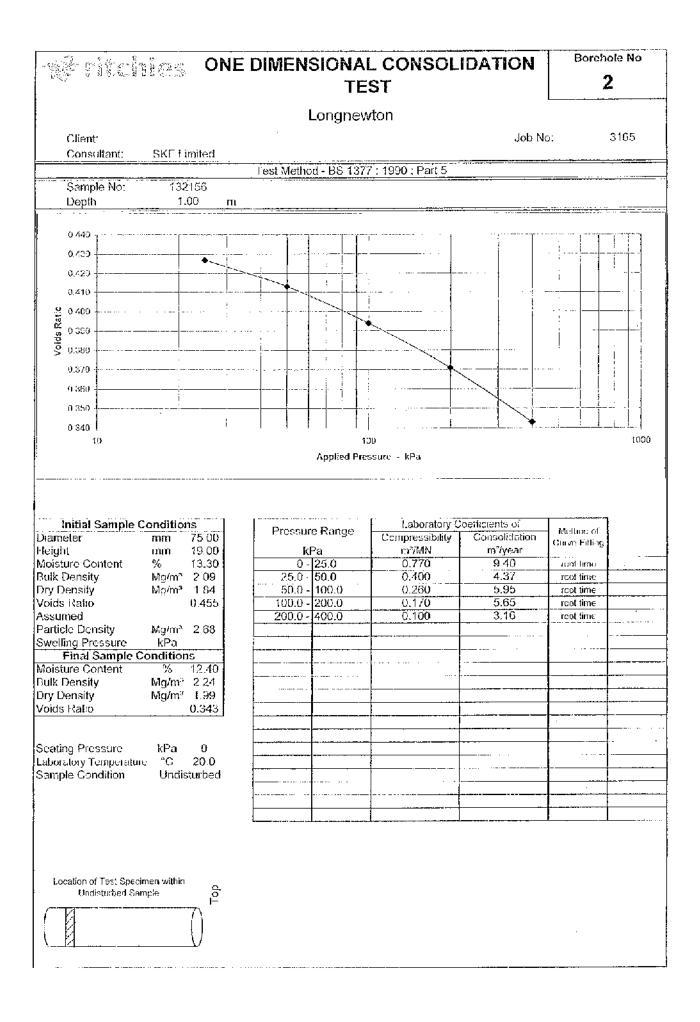
Consultant: SKF Limited

Client:

Test Method - BS 1377:1990:Part 4:Method 7

	Sample Identification	Moisture Contont	Density	Mg/m <sup>2</sup>		CBR %			
Sample Identification				(%)	Bulk	Dry	Тор	Base	Mean
 3 132157 1.00 m				15	22	101	?	128	10



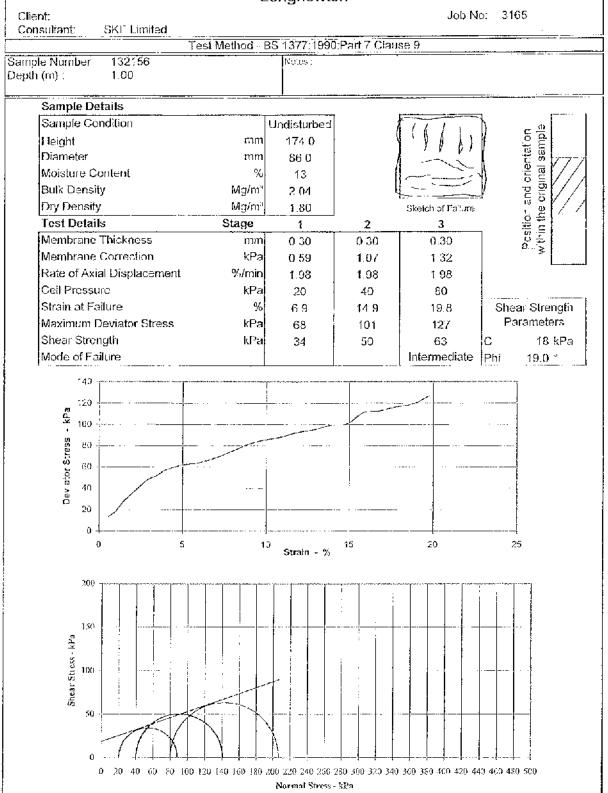


# 🞲 ritchies

### UNDRAINED MULTISTAGE TRIAXIAL COMPRESSION



Longnewton



#### **Certificate of Analysis**

and the second second second second second second second second second second second second second second second

Report Number:

125897-1

Date of Report:

11-Mar-2008

Client:

SKF, Unit 10 Haylie Neuk, Largs. Ayrshire, Scotland. KA30 8JD

Client Contact: Client Job Reference:	Mr Scott Farguhar
Client Site Reference:	Longnewton
Date Job Received at SAL:	29-Feb-2008
Date Analysis Started:	03-Mar-2008
Date Analysis Completed:	11 Mar 2008

The results reported relate to samples received at the laboratory.

Opinions and interpretations expressed herein are outside the scope of UKAS or MCERTS accreditation. This report should not be reproduced except in full without the written approval of the laberatory. Tests covered by this certificate were conducted in accordance with SAL SOPs.

Key to symbols used in this report: W: Analysis was sub-contracted and performed at another SAL Laboratory S: Analysis was sub-contracted N: Analysis is not UKAS accredited U: Analysis is UKAS accredited M: Analysis is MCERTS accredited

Report checked and authorised by:

Ms Kimberley Puschman Senior Project Manager



### Index to caveats used in this report

Value	Description
٨R	As Received
A40	Assisted dried < 40C

SAL Reference: 125 Project Site: Lon					
Soil Ana	lysed as Soi				
As Received					
			SAL Re	eference	125897 001
	Custome	r San	nple Ro	ference	S1 0.60M
			Test	Sample	AR
Determinand	Technique	LOD	Units	Symbol	·
Cyanide (Total)	Dist-ISE	1	mg/kg	U	2
Phenols (Total-Mono)	Colorimetry	1	mg/kg	IJ	<1
Sulphide	Colorimetry	10	mg/kg	N	<10

SAL Reference: 125 Project Site: Lon					
Froject one. Lon	Guewion				
Soil Ana	lysed as Soil				
Miscellaneous					
					40-007 004
	······································				125897 001
	Custome	r Sar			S1 0.60M
	· · · · · · · · · · · · · · · ·		Test	Sample	A40
Determinand	Technique	LOD	Units	Symbol	
Arsenic	ICP/OES (Sim)	2	mg/kg	U	19
Boron (water-soluble)	ICP/OES (Sim)	1	mg/kg		<1
Cadmium	ICP/OES (Sim)	1	mg/kg	U 1	<1
Chromium	ICP/OES (Sim)	1	mg/kg	U	37
Copper	ICP/OES (Sim)	1	mg/kg	υ	31
l ead	ICP/OES (Sim)	3	mg/kg	U	35
Mercury	tCP/OES (Sim)	1	mg/kg	υ	<1
Nickel	ICP/OLS (Sim)	1	mg/kg	U	37
Selenium	ICP/OES (Sim)	2	mg/kg	U	<2
Sulphate(2:1)	ICP/OLS (SIM)(Water Lxtract)	10	mg/l	U	<10
Zinc	ICP/OES (Sim)	1	mg/kg	U	110
pH	Probe			U	6.4
Total Organic Carbon	OX/IR	0.1	%	N	3.4

#### **Certificate of Analysis**

Report Number:

124241-1

21-Feb-2008

Date of Report:

Client:

SKF, Unit 10 Haylie Neuk, Largs, Ayrshire, Scotland. KA30 8JD

Client Contact:	Mr Scott Farquhar
Client Job Reference:	E8538
Client Site Reference:	Longnewton
Date Job Received at SAL:	11-Feb-2008
Date Analysis Started:	13-Feb-2008
Date Analysis Completed:	21-Feb-2008

The results reported relate to samples received at the laboratory

Opinions and interpretations expressed herein are outside the scope of UKAS or MCERTS accreditation. This report should not be reproduced except in full without the written approval of the laboratory. Tests covered by this certificate were conducted in accordance with SAL SOPs.

Key to symbols used in this report: W: Analysis was performed at another SAL Laboratory S: Analysis was sub-contracted N: Analysis is not UKAS accredited

U: Analysis is UKAS accredited

M: Analysis is MCERTS accredited

Report checked and authorised b s Kimberley Puschman cnior Project Manager



Produced by: Scientific Analysis Laboratories Ltd, 11 Law Place, Nerston Mains, East Kilbride, G74 4OL

### Index to caveats used in this report

Value	Description
ND	Not Detected
AR	As Received
10:1	Leachate
A40	Assisted dried < 40C

Notes:

Leachable Cadmium, Chromium, Copper and Zinc results are Non-UKAS accredited.

	nce: 124241								
	Site: Longne	wton							
Customer Refere	-								
Soil	Analyse	d as (	Soil						
As received									
									,
		\$	SAL Ro	ference	124241	124241	124241	124241	124241
		-		· · · · · · · · · · · · ·	001	002	003	004	005 BH3 J
	Custome	r San	nple Re	lerence	BH1 J 0.50M	BH2 J 0.50M	BH2 J 1.00M	BH3 J 0.50M	1.00M
			Toet	Sample	AR	AR	AR	AR	AR
			rest	Sample		<u></u>			1 7.11
Determinant	Technique	LOD	Units	Symbol					
Leachate	Grav			N	Extracted	-		Extracted	-
Preparation	1								
Asbestos (Screen	Visual			N	-	ND	-	ND	-
On <u>ly)</u>	<u> </u>	ļ						<u> </u>	
	Divior		<u> </u>		·		т	.1	! .1
Cyanide ( <u>Lotal)</u>	Dist-ISE	1	mg/kg	<u>U</u> U	<1 <1		<1	<1	<1
Phenols (Total-Mono)	Colorimetry	1	mg/kg	0	<1	< 1			1
Sulphide	Colorimetry	10	mg/kg	N	<10	<10	<10	<10	<10
	Site: Longnev	wton					· · · · · · · · · · · · · · · · · · ·		
Project S Customer Referer	Site: Longnev nce: F8538						<u>.</u>	<u> </u>	
Project S Customer Referer Soil	Site: Longnev		Soil						
Project S Customer Referer Soil	Site: Longnev nce: F8538		Soil						, , ,
Project S Customer Referer Soil	Site: Longnev nce: F8538	d as \$		ference	124241	124241	124241	124241	124241
Project S Customer Referer Soil	Site: Longnev nce: F8538	d as \$		ference	124241 006	124241 007	008	124241 009	124241 010
Project S Customer Referer Soil	Site: Longnev nce: F8538	d as \$	SAL Ro		006 BH4 J	007 BH5 J	008 HP2 D	009 HP4 D	010 HP5 D
Project S Customer Referer	Site: Longnev nce: F8538 Analyse	d as \$	SAL Ro	eference	006 BH4 J 0.50M	007 BH5 J 0.50M	008 HP2 D 0.30M	009 HP4 D 0.20M	010 HP5 D 0.20M
Project S Customer Referer Soil	Site: Longnev nce: F8538 Analyse	d as \$	SAL Ro		006 BH4 J	007 BH5 J	008 HP2 D	009 HP4 D	010 HP5 D
Project S Customer Referer Soil As received	Site: Longnev nce: F8538 Analyse Custome	d as S	SAL Ro nple Re Test	eference Sample	006 BH4 J 0.50M	007 BH5 J 0.50M	008 HP2 D 0.30M	009 HP4 D 0.20M	010 HP5 D 0.20M
Project S Customer Referer Soil As received Determinant	Site: Longnev nce: F8538 Analyse Custome	d as S	SAL Ro nple Re Test	eference Sample Symbol	006 BH4 J 0.50M	007 BH5 J 0.50M	008 HP2 D 0.30M	009 HP4 D 0.20M	010 HP5 D 0.20M
Project S Customer Referer Soil As received Determinant _cachate	Site: Longnev nce: F8538 Analyse Custome	d as S	SAL Ro nple Re Test	eference Sample	006 BH4 J 0.50M	007 BH5 J 0.50M AR	008 HP2 D 0.30M AR	009 HP4 D 0.20M	010 HP5 D 0.20M
Project S Customer Referer Soil As received Determinant .cachate Preparation	Site: Longnev nce: F8538 Analyse Custome	d as S	SAL Ro nple Re Test	eference Sample Symbol	006 BH4 J 0.50M	007 BH5 J 0.50M AR	008 HP2 D 0.30M AR	009 HP4 D 0.20M	010 HP5 D 0.20M
Project S Customer Referer Soil As received Determinant .cachate Preparation Asbestos (Screen	Site: Longnev nce: F8538 Analyser Custome Technique Grav	d as S	SAL Ro nple Re Test	eference Sample Symbol N	006 BH4 J 0.50M	007 BH5 J 0.50M AR	008 HP2 D 0.30M AR	009 HP4 D 0.20M	010 HP5 D 0.20M
Project S Customer Referer Soil As received Determinant Cachate Preparation Asbestos (Screen Dnly)	Site: Longnev nce: F8538 Analyse Custome Technique Grav Visual	d as S	SAL Ro nple Re Test Units	eference Sample Symbol N	006 BH4 J 0.50M AR	007 BH5 J 0.50M AR	008 HP2 D 0.30M AR	009 HP4 D 0.20M AR	010 HP5 D 0.20M AR
Project S Customer Referer Soil As received Determinant cachate Preparation Asbestos (Screen Dnly)	Site: Longnev nce: F8538 Analyser Custome Technique Grav Visual Dist-ISE	d as \$ r San	SAL Ro nple Re Test Units	eference Sample Symbol N N	006 BH4 J 0.50M AR	007 BH5 J 0.50M AR - -	008 HP2 D 0.30M AR	009 HP4 D 0.20M AR	010 HP5 D 0.20M AR - -
Project S Customer Referer Soil	Site: Longnev nce: F8538 Analyse Custome Technique Grav Visual	d as \$ r San	SAL Ro nple Re Test Units	eference Sample Symbol N	006 BH4 J 0.50M AR	007 BH5 J 0.50M AR	008 HP2 D 0.30M AR	009 HP4 D 0.20M AR	018 HP5 D 0.20M AR

SAL Reference:	124241					
Project Site:	Longnewton					
Customer Reference:	E8538					
Soîl	Analysed as	Soil				
As received						
			SAL Re	ference	124241 011	124241 012
	Customer	r San	npie Re	ference	HP6 D 0.40M	HP7 D 0.20M
			Test	Sample	AR	AR
Determinant	Technique		Units	Symbol		
Leachate Preparation	Grav			N	Fxtracted	-
Ashestos (Screen Only)	Visual			N	ND	
	District					<1
Cyanide (Total)	Dist-ISE	1	mg/kg	<u>U</u>	<1	· · · · · · · · · · · · · · · · · · ·
Phenols (Total-Mono)	Colorimetry	1	mg/kg		<1	<1
Sulphide	Colorimetry	10	mg/kg	<u>N</u>	<10	<10

# SAL Reference: 124241

Project Site: Longnewton Customer Reference: E8538

#### Analysed as Soil

Miscellaneous

Soil

	Custom	SAL Reference er Sample Reference			SAL Reference Customer Sample Reference			124241 001 BH1 J 0.50M	124241 002 BH2 J 0.50M	124241 003 BH2 J 1.00M	124241 004 BH3 J 0.50M	124241 005 BH3 J 1.00M
· · · · · · · · · · · · · · ·	·····	Test Sample				A40	A40	A40	A40			
Determinant	Technique	LOE	Units	Symbol								
Arsenic	ICP/OES (Sim)	2	mg/kg	U	21	25	27	23	52			
Boron (water-soluble)	ICP/OES (Sim)	1	mg/kg	U	<1	<1	<1	<1	<1			
Cadmium	ICP/OES (Sim)	1	mg/kg	υ	<1	<1	<1	i <1	<1			
 Chromium	ICP/OES (Sim)	1	mg/kg	U	23	29	32	37	37			
Copper	ICP/OES (Sim)	1	mg/kg	U I	18	29	33	32	44			
Lead	ICP/OES (Sim)	3	mg/kg	U	21	34	20	270	28			
Mercury	ICP/OES (Sim)	1	.mg/kg	U	<1	<1		<1	<1			
Nickel	ICP/OES (Sim)	1	mg/kg	U	21	35	60	46	54			
Selenium	ICP/OES (Sim)	- 2	mg/kg	IJ	<2	<2	<2	</td <td>&lt;2</td>	<2			
Sulphate(2:1)	ICP/OES (SIM)(Water Extract)	10	mg/l	U	58	12	<10	57	10			
Zinc	ICP/OES (Sim)	1	mg/kg	_ U	58	100	83	120	110			
oH	Probe	Τ		U	7.2	8.0	7.4	7.9	7.8			
Total Organic Carbon	OX/IR	0.1	%	N	1.1	- -	0.4	-	<u> </u>			

### SAL Reference: 124241 Project Site: Longnewton

Customer Reference: E8538

#### Analysed as Soil

#### Miscellaneous

Soil

			SAL Rei		124241 006	124241 007	124241 008	124241 009	124241 010
	Custom	er Sar	npie Rei	ference	BH4 J 0.50M	BH5 J 0.50M	HP2 D 0.30M	HP4 D 0.20M	HP5 D 0.20M
· · · · · · · · · · · · · · · · · · ·		Sample	A40	A40	A40	A40	A40		
Determinant	Technique		Units'S	Symbol					
Arsenic	ICP/OES (Sim)	2	mg/kg	U	30	8	20	18	15
Boron	ICP/OES (Sim)	1	mg/kg	U	<1	<1	<1	<1	<1
(water-soluble)			i						
Cadmium	CP/OES (Sim)	1	mg/kg	U	<1	<1	<1	<1	
Chromium	ICP/OES (Sim)	1	mg/kg	U	26	17	28	32	24
Copper	ICP/OES (Sim)	1	mg/kg	U	21	6	28	32	26
Lead	ICP/OES (Sim)	3	mg/kg	U	31	8	130	410	240
Mercury	ICP/OFS (Sim)	1	mg/kg	U	<1	<1	<1	<1	<1
Nickel	ICP/OES (Sim)	1	mg/kg	U	38	19	29	32	25
Selenium	ICP/OES (Sim)	2	mg/kg	U	<2	<2	<2	<2	<2
Sulphate(2:1)	ICP/OES (SIM)(Water Extract)	10	mg/l	U	<10	<10	11	<10	95
Zinc	ICP/OFS (Sim)	1	mg/kg	U	76	18	280	400	260
рН	Probe	T		U	7.8	7.5	7.3	6.6	6.9
Total Organic Carbon	OX/IR	01	%	N	-	0.3	-	-	-

SAL Reference	e: 124241					
Project Site	e: Longnewton					
Customer Reference	e: E8538					
A	Are hundre Call					
Soil	Analysed as Soil					
Miscellaneous						
			SAL B	eference	124241 0	1 124241 012
	Custome					M HP7 D 0.20M
<u> </u>	Odd.0			Sample		A40
				•	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Determinant	Technique	LOD	Units	Symbol	·······	······································
Arsenic	ICP/OES (Sim)	2	mg/kg	U	20	21
Boron (water-soluble)	ICP/OES (Sim)	1	mg/kg	U	<1	<1
Cadmium	ICP/OES (Sim)	1	mg/kg	U		
Chromium	ICP/OES (Sim)	1	mg/kg	<u> </u>	45	23
Copper	ICP/OES (Sim)	1	mg/kg		36	20
Lead	ICP/OES (Sim)	3	mg/kg		260	47
Mercury	ICP/OES (Sim)	1	]mg/kg		<1	<1
Nickel	ICP/OES (Sim)	1	_mg/kg	U	51	24
Selenium	ICP/OES (Sim)	2_	mg/kg		<2	<2
Sulphate(2:1)	ICP/OES (SIM)(Water Extract)	<b>1</b> 0	_ <u>mg/1</u>	U	<10	18
Zinc	ICP/OES (Sim)	1	mg/kg	U	210	62
	······································					
pН	Probe			U	6.4	7.8
Total Organic Carbon	OX/IR	0.1	%	<u>N</u>	-	

;

SAL Reference: 124241						
Project Site: Longnewton						
Customer Reference: E8538						
Soil Analysed as Soil						
Organochlorine insecticides						
					104041 001	124241 006
·····	 					BH4 J
	Custome	a San	ipie ne	aerence	0.50M	0.50M
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · ·		Test	Sample		A40
					1	
Determinant	Technique	1				
Aldrin	GC/MS		mg/kg		<0.01	< 0.01
Chlordane (sum of cis and trans isomers)	GC/MS		mg/kg		<0.01	<:0.01
DDD	GC/MS	· · · · · · · · · · · · · · · · · · ·	mg/kg	WU	<0.01	<:0.01
DDE	GC/MS	0.01	mg/kg	WU	<0.01	. <0.01
DDT	GC/MS	0.01	mg/kg	WU	<0.01	< 0.01
Dieldrin	GC/MS	0.01	mg/kg	WU	<0.01	; <0.01
Endosulphan	GC/MS	0.01	mg/kg	WU	<0.01	<0.01
Endrin	GC/MS	0.01	mg/kg	WU	<0.01	<0.01
Heptachlor	GC/MS	0.01	mg/kg	WU	<0.01	<0.01
Heplachlor epoxide	GC/MS	0.01	mg/kg	WU	<0.01	<0.01
Hexachlorobenzenc	GC/MS	0.01	mg/kg	WU	<0.01	<0.01
	(H <u>R)</u>				·	
Hexachlorocyclohexane (sum of alpha, beta and gamma)	GC/MS	0.01	mg/kg	WU	<0.01	<0.01

Soil Analysed as Soil Total Petroleum Hydrocarbons C8-C35 Aliphatic/Aromatic

······································				eference	124241 004	124241 006	124241 008
	Custome	er Sa	mple Re	eference	BH3 J 0.50M	BH4 J 0.50M	HP2 D 0.30M
			Test	Sample	AR	AR	AR
Determinant	Technique	LO	Units	Symbol			
Total Petroleum Hydrocarbons (C8-C10 aliphatic)	CC/FID	1	mg/kg	+ I ··	<1	<1	<1
Total Petroleum Hydrocarbons (C10-C12 aliphatic)	GC/FID	1	mg/kg	N	<1	<1	<1
Total Petroleum Hydrocarbons (C12-C16 aliphatic)	GC/FID	1	mg/kg	N	2	2	3
Total Petroleum Hydrocarbons (C16-C21 aliphatic)	GC/FID	1	mg/kg	N	6	5	<1
Total Petroleum Hydrocarbons (C21-C35 aliphatic)	GC/FID	1	mg/kg	N	2	1	2
Total Petroleum Hydrocarbons (C8-C10 aromatic)	GC/FID	1	mg/kg	N	<1	<1	<1
Total Petroleum Hydrocarbons (C10-C12 aromatic)	GC/FID	1	ˈ <mark>ˈmɡ/k</mark> g	N	<1	<1	<1
Total Petroleum Hydrocarbons (C12-C16 aromatic)	GC/FID	1	mg/kg	N	<1	<1	<1
Total Petroleum Hydrocarbons (C16-C21 aromatic)	GC/FID	i 1	ing/kg	N	1	1	2
Total Petroleum Hydrocarbons (C21-C35 aromatic)	GC/FID	1	mg/kg	N	<1	<1	<1

Project Site: Longnew Customer Reference: E8538 Leachate Analyse	d as Water						
Leachate Analyse							
Miscellaneous							
••••••••••••••••••••••••••••••••••••••		5	SAL Re	elerence	124241 001	124241 004	124241 011
······································	Custome	r Sam	ple Ro	eference	BH1 J 0.50M	BH3 J 0.50M	HP6 D 0.40M
······································	· · · · · · · · · · · · · · · · ·		Test	Sample	10:1	10:1	10:1
 Determinant	Technique	LOD	Units	Symbol			
Arsenic	ICP/OES (Hyd/Sim)	5	µg/l	IJ	6	<5	7
Cadmium	ICP/OES (Sim)	5	$\mu$ g/L	U	<5	<5	<5
Chromium	ICP/OES (Sim)	10	µg/I	υ	27	19	24
Copper	ICP/OES (Sim)	20	$\mu$ g/L	U	<20	<20	<20
Lead	ICP/OES	25	µg/L	N	<25	<25	<25
	(Sim)(Preconc.)			·		<u> </u>	
Mercury	ICP/OES (Sim/CV)	1	µg/I	U		<1	<1
Nickel	ICP/OES (Sim)	10	µg/l	U	15	<10	<10
Selenium	ICP/OES (Hyd/Sim)	5	μg/I	U			<5
Zinc	ICP/OES (Sim)	10	<u>µg/1</u>	U	49		<10
Total Hardness expressed as Calcium Carbonale	ICP/OES (Sim)	10	mg/I	N	10	43	26

#### **Certificate of Analysis**

Report Number:

124425-1

Date of Report:

25-Feb-2008

Client:

SKF, Unit 10 Haylie Neuk, Largs, Ayrshire, Scotland KA30 8JD

Client Contact: Client Job Reference: Client Site Reference: Mr Scott Farguhar 0535 Longnewton

Date Job Received at SAL: Date Analysis Started: Date Analysis Completed: 13-Feb-2008 14-Feb-2008 25-Feb-2008

The results reported relate to samples received at the laboratory.

Opinions and interpretations expressed borein are outside the scope of UKAS or MCERTS accreditation. This report should not be reproduced except in full without the written approval of the laboratory. Tests covered by this certificate were conducted in accordance with SAL SOPs.

Key to symbols used in this report: W: Analysis was performed at another SAL Laboratory S: Analysis was sub-contracted N: Analysis is not UKAS accredited U: Analysis is UKAS accredited M: Analysis is MCERTS accredited

Report checked and authorised by:

Ms Kimberley Puschman Senior Project Manager



### Index to caveats used in this report

Value	Description
AR	As Received
13	Results have been blank corrected.

Notes:

Leachable Cadmium, Chromium, Copper and Zinc results are Non-UKAS accredited.

SAL Reference:	124425						
Project Site:	Longnewion						
Customer Reference:	0535						
Water	Analysed as Water						
Metals							
<u> </u>	<u></u>		5	AL R	eference	124425 001	124425 002
		Custome	r Sam	ple Re	eference	BH1 W	BH4 W
				Test	Sample	AR	AR
Determinant		Technique		Units	Symbol		
Arsenic	······································	ICP/OES (Hyd/Sim)	5	µg/l	U	8	16
Boron		ICP/OES (Sim)	100	µg/l	N	140	100
Cadmium		ICP/OES (Sim)	5	µg/I	U	<5 <sup>-</sup>	<5
Chromium		ICP/OES (Sim)	10	µg/I	U	12	<10
Copper	······································	IC≑/OES (Sim)	20	µg/l	U	<20	<20
Lead		ICP/CES	- 25	μgΛ	N	<25	<25
		(Sim)(Preconc.)	i		İ		
Mercury		ICP/OES (Sim/CV)	1	µg/l	U	<1	<1
Nickel	· ·	ICP/OES (Sim)	10	µg/I_	U	14	64
Selenium		[CP/OES (Hyd/Sim)	5	µg/l	υ	<5	<5
Suiphate (Total)		ICP/OES (Sim)	10	' mg/l	U	27	11
Zinc		ICP/OES (Sim)	10	µg/l	; U	34	26
DH		Probe			U	6.8	7.1
Total Hardness express Carbonale	sed as Calcium	ICP/OES (Sim)	10	mg/I	N	480	300
CONTRACTOR CONTRACTOR			I		1. <u> </u>		L

SAL Refr	erence: 124	425				
Proje	ct Site: Lon	ignew	ton			
Customer Refe	erence: 053	35				
Water	Ana	alysed	as Wa	ater		
Miscellaneous						
·		s	SAL Re	ference	124425 001	1 124425 00
 	Customer		· ·			1 124425 00 BH4 W
 	Customer		ple Ro		BH1 W	
		r Sam	ple Ro Test	eference Sample	BH1 W AR	BH4 W
Determinant	Customer Technique	r Sam	ple Ro Test	eference Sample	BH1 W AR	BH4 W
Determinant Cyanide (Tolal)	Technique	r Sam	ple Ro Test Units	eference Sample	BH1 W AR	BH4 W

SAL R	eference: 124	4425				
Pro	ject Site: Lor	ngnev	vton			
Customer R	eference: 053	35				
Water	Ana	alyse	d as W	ator		
Phenols (Sp	eciated)					
		6	AL D	foronool	124426 001	124425 00
	Customer		•		124425 001 BH1 W	124425_00 BH4 W
	Customer		ple Re		·	<u></u>
Determinant		r Sam	ple Re Test	eference Sample	BH1 W	BH4 W
		r Sam	ple Re Test	eference Sample	BH1 W	BH4 W
Determinant Cresols Phonol	Technique	LOD	ple Re Test Units	eference Sample Symbol	BH1 W AR	BH4 W AR

#### Water Analysed as Water Semi-Volatile Organic Compounds (USEPA 625)

		S	SAL Ref	erence			124425 003
	Customer	Sam	ple Ref	erence	BH1 W	BH4 W	tab Blank
······································			Test S	Sample	AR	AR	AR
			TT	· ·			
Determinant	Technique						<10
1,2,4-Trichlorobenzene	GC/MS	_10	μ <u>g/</u> Ι	WU	<10	<10	<10
1,2-Dichlorobenzene	GC/MS	10	µg/I	WU	<10	<10	·
1,3 Dichlorobenzene	GC/MS	10	μg/l	WU	<10	<10	<10
1,4-Dichlorobenzenc	GC/MS	10	<u>hg/I</u>	WU	<10	< <u>10</u>	<10
2,4,5 Trichlorophenol	<u> </u>	10	µ <u>g/l</u>	wu	<10	<10	<10
2,4,6-Trichlorophenol	GC/MS	10	_µg/I	WU	<10	<10	<10
2,4-Dichlorophenol	GC/MS	10	µg/l	wu _		<10	<10
2,4-Dimethylphonol	GC/MS	10	µдЛ	WU	<10	<10	<10
2,4-Dinitrophenol	GC/MS	; 10	µg/I	WU	<10	<10	<10
2,4-Dinitrololuene	GC/MS	10	µg/l	WU	<10	<10	<10
2,6 Dinitrotoluene	GC/MS	10	µg/I	WU	<10	<10	<10
2-Chloronaphthalene	GC/MS	10	μg/I	WU	<10	<10	<10
2-Chlorophenol	GC/MS	10	µg/l	WU	<10	<10	< <u>10</u>
2-methyl phenol	GC/MS	10	µg/I	WU	<10	<10	<u>&lt;10</u>
2-Methylnaphthalene	GC/MS	10	µg/I	WU	<10	<10	<10
2-Nitroaniline	GC/MS	10	µg/I	WU	<10		<10
2 Nitrophenol	GC/MS	10	µg/I	WU	<10	<10	<10
3-Nitroaniline	GC/MS	10	μg/I	WU	<10	<10	<10
3/4-Methylphenol	GC/MS	10	µg/I	WU	<10	<10	<10
4-Bromophenyl phenylether	GC/MS	10	µg/I	WU	<10	<10	< <b>1</b> 0
4-Chloro-3 methylphenol	GC/MS	10	μдЛ	WU	<10	<10	<10
4-Chloroaniline	GC/MS	10	µg/I	wu [	<10	<10	<10
4-Chlorophenyl phonylether	GC/MS	10	<u>µg</u> /l [	WU	<10	<10	<10
4 Nitroaniline	GC/MS	10	µg/I	WU	<10	<10	<10
4-Nitrophenol	GC/MS	10	µд/	WU	<10	<10	<10
Acchaphthene	GC/MS	10	_µg/1	WU	<10	<10	<10
Acenaphthylone	GC/MS	10	µg/l	WU	<10	<10	<10
Anthracene	GC/MS	10	µg/l	WU	<10	<10	<10
Azobenzene	GC/MS	10	µg/l	WU	<10	<10	<10
Benzo(a)Anthracene	GC/MS	10	µg/l	WU	<10	<10	<10
Benzo(a)Pyrene	GC/MS	10	μg/l	WU	<10	<10	<10
Benzo(b/k)Fluoranthene	GC/MS	10	µg/l	WU	<10	<10	<10
Benzo(ghi)Perylene	GC/MS	10	µg/1	WU	<10	<10	<10
Bis (2 chloroethoxy) methane	GC/MS	10	µg/l	WU	<10	<10	<10
Bis (2-chloroethyl) ether	GC/MS	10	µg/i	WU	<10	<10	<10
Bis (2-chloroisopropyl) ether	GC/MS	10	µg/l	WU T	<10	<10	<10
	GC/MS	10	µg/l     µg/l	WU	<10	<10	<10
Bis (2-ethylhexyl)phthalate	GC/MS	10		WU	<10	<10	<10
Butyl benzylphthalate	GC/MS	· ·	µg/i ug/i	WU	<10	<10	<10
Carbazole	•• ·	. 10	μ <u>g/i</u>		<10	<10	<10
Chrysene	GC/MS	10	<u>µg/</u> ]		<10	<10	<10
Di-n butylphthalate	GC/MS	10	µg/i	WU	<10	<10	<10
Di-n-oclylphthalate	GC/MS	10	<u>µg/i</u>	WU		<10	<10
Dibenzo(ah)Anthracene	GC/MS	10 10	µg/l	WU	- <10	<10	<10
Dibenzofuran	GC/MS	10	µg/l	WU	<10	<u> </u>	<u> </u>

#### Water Analysed as Water Semi-Volatile Organic Compounds (USEPA 625)

··		s	SAL Re	ference	124425 001	124425 002	2 124425 003
· ·	Customer	Sam	ple Re	ference	BH1 W	B114 W	lab Blank
·································				Sample	AR	AR	AR
Determinant	Technique	LOD	Units	Symbol			·
Diethyl phthalate	GC/MS	10	_µg/I	WU	<10	<10	<10
Dimethyl phthalate	GC/MS	10	µg/I	WU	<10	<10	<10
Fluoranthene	GC/MS	10	рдЛ	WU	<10	<10	<u>&lt;10</u> ·
Fluorene	GC/MS	10	µg/l	WU	<10	<10	<u>~10</u>
Hexachlorobenzene	GC/MS	10	µg/l	WU	<10	<10	<10
Hexachlorobutadiene	GC/MS	10	hð\	WU	<10	<10	<10
Hexachlorocyclopentadiene	GC/MS	10	µg/I	WU	<10	<10	<10
Hexachloroethane	GC/MS	10	µg/l	WU	<10	<10	<10
Indeno(123-cd)Pyrene	GC/MS	10	µg/i	WU	<10	<10	<10
Isophorone	GC/MS	10	[µg/t]	WU	<10	<10	<10
Naphthalene	GC/MS	10	µg/t	WU	<10	<10	<10
Nitrobenzene	GC/MS	10	µg/I	WU	<10	<10	<10
Pentachlorophenol	GC/MS	10	µg/I	WU	<10	<10	<10
Phenanthrene	GC/MS	10	μg/I	WU	<10	<10	<10
Phenol	GC/MS	10	µg/	WU	<10	<10	<10
Pyrene	OC/MS	10	μg/l	WU	<10	<10	<10

#### Water Analysed as Water Volatile Organic Compounds (USEPA 624)

	······································				24425 001	
	Customer	Sam	ple Re	eference	BH1 W	BH4 W
			Test	Sample	AR	AR
· ··					<u> </u>	<u> </u>
Determinant	Technique	LOD	Units	Symbol	· · · · · · · · · · · · · · · · · · ·	
1,1,1,2-Tetrachloroethane	GC/MS (Headspace)	1	µg/l	<u>Ų</u>	<1	<u>~1</u>
1,1,1-Trichloroethane	GC/MS (Headspace)	1	hðy	บ	_<1	<1
1,1,2,2-Tetrachloroethane	GC/MS (Headspace)	1	µg/l	U	<1	-<1
1,1,2-Trichloroethane	GC/MS (Headspace)	1	μg/I	U	_<1	<1
1,1,2-Trichlorocthylene	GC/MS (Headspace)	1	_µg/l	U	<1	<1
1,1-Dichloroethane	CC/MS (Headspace)	1	μg/I	U	<1	<1
1,1-Dichlorocthylene	GC/MS (Headspace)	1	µg/l	U	<1	<1
1,1-Dichloropropene	<b>GC/MS</b> (Headspace)	1	µg/l	U	-<1	<1
1,2,3-Trichloropropane	GC/MS (Headspace)	1	µg/l	U	<1	<1
1,2,4-Trimethylbenzene	GC/MS (Headspace)	·	μg/I	U	<1	<u></u>
1,2-dibromoethane	GC/MS (Headspace)		μ <u>α</u> /Ι	U	<1	<1
1,2-Dichlorobenzene	GC/MS (Headspace)		μg/Ι	U	<1	<1
1,2-Dichloroethane	GC/MS (Headspace)	1	µg/I	U	<1	<1
1,2-Dichloropropane	GC/MS (Headspace)	1	µg/I	U	<1	<1
1,3,5-Trimethylbenzene	GC/MS (Headspace)	1	µg/l	U	<1	<1
1,3 Dichlorobenzene	GC/MS (Headspace)	1	µg/l	υΙ	<1	<1
1,3-Dichloropropane	GC/MS (Headspace)	1	µg/l	U	<1	<1
1,4 Dichlorobenzene	GC/MS (Headspace)	1	µg/l	U	<1	<1
2,2-Dichloropropane	GC/MS (Headspace)	1	µg/l	U	<1	<1
2 Chlorololuene	GC/MS (Headspace)	- 1 -	µg/l	υ	<1	<1
4-Chlorololuene	GC/MS (Headspace)	1	µg/I	U	<1	<1
Benzene	GC/MS (Headspace)		µg/l	U	(13) < 1	(13)<1
Bromobenzene	GC/MS (Headspace)		µд/Г	U		<1
Bromochloromethane	GC/MS (Headspace)	1	μg/I	Ŭ	<1	<1
Bromodichloromethane	GC/MS (Headspace)	1	<u>рд/</u>	U U	<1	<1
Bromoform	GC/MS (Headspace)		µg/I	Ŭ	<1	<1
Bromomethane	GC/MS (Headspace)		<u>אפת  </u>   h0/l	Ū	<1	<1
	GC/MS (Headspace)			Ū Ū	<1	. <1
Carbon tetrachloride	GC/MS (Headspace)	1	μ <u>g/</u> ]		<1	<1
Chlorobenzene			µg/l	<u> </u>	<1	<1
Chlorodibromomethane	GC/MS (Headspace)		µg/l	<u> </u>	<1	
Chloroethane	GC/MS (Headspace)	·	_µg/l	U U		<1
Chloroform	GC/MS (Headspace)		µg/l	I ·+	<u>&lt;1</u>	<1
Chloromethane	CC/MS (Headspace)	·	µ <u>g/ </u>	<u>U</u> U	<1	<1
cis-1,2-Dichloroethylene	GC/MS (Lleadspace)		µg/l	· · - · <del> </del> -	<u>&lt;1</u>	~
cis-1,3-Dichloropropene	GC/MS (Headspace)		<u>µg/l</u>	<u>U</u>		<1
Dibromomethane	GC/MS (Fleadspace)	1	µg/l	U	<1	·
EthylBenzene	GC/MS (Headspace)	1	<u>µg/l</u>	<u> </u>	<1	·<1 -1
Meta/Para-Xylene	GC/MS (Headspace)	1	<u>µg/I</u>	U	<1	<1
Ortho-Xylene	GC/MS (Headspace)	1.	µg/l	U	<1	<1
Styrene	GC/MS (Headspace)		_pg/i	U		<1
Tetrachloroethylene	GC/MS (Headspace)	1	µg/l	<u> </u>	<1	<1 "
Toluene	GC/MS (Headspace)	1	<u>  µŋ/l</u>	U		
irans-1,2-Dichloroethylene	(GC/MS (Fleadspace)	1	µg/I	U	<1	<1

#### Water Analysed as Water Volatile Organic Compounds (USEPA 624)

	Custome	r Sample R		124425 001 BH1 W	BH4 W
	· ······		t Sample		AR
Determinant	Technique	LOD	Symbol		
Determinant Trichlorofluoromelhane	Technique GC/MS (Headspace)	· · · · · · · · · · · · · · · · · · ·	s Symbol U	<1	

#### **Certificate of Analysis**

Report Number:

125902-1

11-Mar-2008

Date of Report:

Client:

SKF, Unit 10 Haylic Neuk, Largs, Ayrshire, Scotland, KA30 8JD

Client Contact:	Mr Scott Farguhar
Client Job Reference:	
Client Site Reference:	Longnewton
Date Job Received at SAL:	29-Feb-2008
Date Analysis Started:	03-Mar-2008
Date Analysis Completed:	11-Mar-2008

The results reported relate to samples received at the laboratory

Opimons and interpretations expressed herein are outside the scope of UKAS or MCERTS accreditation. This report should not be reproduced except in full without the written approval of the laboratory. Tests covered by this certificate were conducted in accordance with SAL SOPs.

Key to symbols used in this report: W: Analysis was sub-contracted and performed at another SAL Laboratory S: Analysis was sub-contracted N: Analysis is not UKAS accredited U: Analysis is UKAS accredited

M: Analysis is MCERTS accredited

Report checked and authorised by:

Ms Kimberley Puschman Senior Project Manager



## Index to caveats used in this report

Value	Description
AR	As Received
10:1	Leachate

SAL Reference: 1	25902					
Project Site: L	ongnewton					
Soil A	nalysed as So	i				
Miscelfaneous						
		5	AL Reference	125902 001	125902 002	125902 003
	Customer		ple Reference			
			Test Sample	AR	AR	AR
Determinand	Technique	LOD	Units Symbol			
Leachate Preparati	on Grav	1	N	Extracted	Extracted	Extracted

SAL Reference: 125902 Project Site: Longnewton

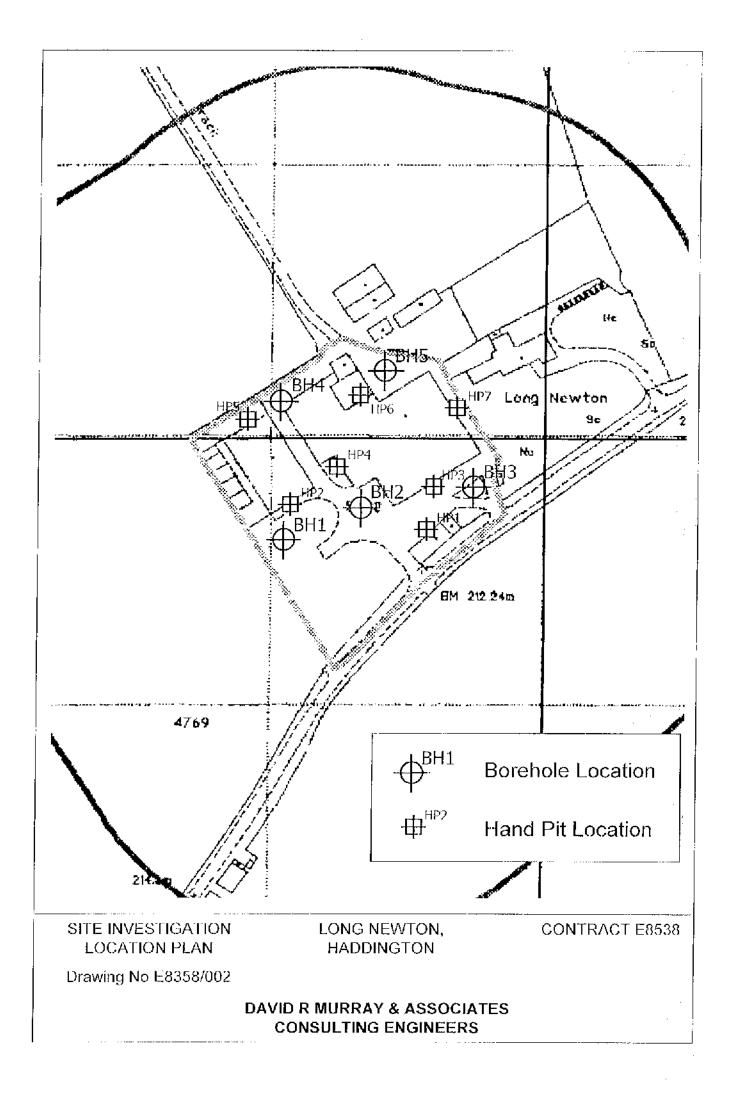
Leachate Analysed as Water

Miscellaneous

	Custome	SA r Sampl	125902 001 BH03 1.00M 10:1	125902 002 BH02 <u>1.00M</u> 10:1	125902 003 BH04 0.50M 10:1		
Determinand	Technique	LOD U	nits	Symbol			
Arsenic	ICP/OES (Hyd/Sim)	5 1	µg/i	U	<5	8	8
Cadmium	ICP/OES (Sim)	5.1	ug/I	U	<5	<5	<5
Chromium	ICP/OES (Sim)	10 👔	ug/l	U	<10	11	<10
Copper	ICP/OES (Sim)	20 1	µg/i	u	<20	<20	
Lead	ICP/OLS	25 [	ug/I	N	<25	<25	<25
	(Sim)(Preconc.)	:	[				
Mercury	ICP/OES (Sim/CV)	1	ug/l	u .	<1	<1	<1
Nickel	ICP/OES (Sim)	10   1	ug/l	U	<10	10	<10
Selenium	ICP/OES (Hyd/Sim)	5 [	ug/I	U	<5	<5	<u>.&lt;5</u>
Zinc	ICP/OES (Sim)	10	uŋ/I	U	<10	98	<10
Total Hardness expressed as Galcium Carbonate	ICP/OES (Sim)	10 n	ng/t	N	13	10	24

## APPENDIX E

## DRAWING NO. E8538/002 INVESTIGATION LOCATION PLAN



## APPENDIX F

## EXISTING SERVICES INFORMATION

From:Elizabeth Baird [Sent:09 January 2008 09:01To:Samantha LepineSubject:RE: 4276 088SL - Sile Longnewion Farmhouse Haddington - SEWER RESPONSE

Hi there

As you can see from the plans there is ac Waste Water in the area. The property possibly has a private seplic tank, which is the owners own responsibility. The nearest main sever looks like it could well over '0 miles away from the property. Hope this information helps you.

Regards

 $\mathrm{fri} \times$ 

Property Searches Analyst

----Original Mossage-----Fron: Samantha Leplne (marlto:s epine@groundwise.com) Sent: C& January 2008 17:42 To: Elizabeth Baind Subject: FW: 4276.088SL - Site Longnewton Farmhouse Haddington Importance: High

Sello,

Can you please advise if you are the providers of the waste water for this area, if it is the case that you are but have no apparatus in the area, can you please advise how far away from the site apparatus is.

Kind requiris,

Sam (opine

-----Original Message-----From: Flixabeth Baird [mailto:Liz.Baird:scottishwater.co.uk] Sent: 03 January 2008 14:46 To: Samartha Lepine Subject: Ref: 42/6.08886 - Site Longnewton Parmhouse Haddington

Dear Sits

Reference:- SWPP/07/13043 Nocation of Services at:- Longrowton Faimhouse Saodington

Further to your enquiry regarding location of Scottish Water intrastructure at the above property, T altach dooy coloured plans which indicate the approximate position of Scottish Water's existing services. A VAC receipt for payment will follow shortly by post.

Please note that water mains are normally laid at a pepth of 750mm to 1 metro cover from existing carriageway or footpath levels. Other plant such as water service / supply pipes and sower tails to properties may also be present, but no official records of these are kept.

Should you have any further technical queries on new connections, Strategic Asset Capacity etc. please contact: Planning and Development Services Helpline: 0141 355 5511. Email: connections@scollistwater.co.uk Coneral reference can also be made under the "Connections" fille at www.scottishwater.co.uk Yours faithfully

Tas Beiro

Property Scarches Analyst scarches&scottishwater.co.pk

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Scottich Water www.scottishwater.co.uk www.scottishwatersolutions.co.uk postmaster@tcollishwater.co.uk

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# RECENT

Mr Nick Henderson David R Murray & Associates 150 St Johns Road. Edinburght E-112.8AY

> Purchase Order: 23872393 [1 14 January, 2008

Your ref: 485 f01087 Ournel: 4276 088SL

Dear Mr Henderson

Site : Longnewton Farmhouse, Haddington, EH41 4JN Grid reference : 351528,664775

Please find encrosed information for the Infrastructure Report on the above site

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Енцияту	Туре	Data Supplier	Date Received	Sent to client	Map(s) attachse	
1	Electricity	SP Power Systems	9/1	14/1		
2	Electricity	National Grid (electricity distribution)	None in area	-		
3	Gas	Scotland Gas networks (Transco)	10/1	14/1		
4	Cas	Gas Transportation Co.	Awaiting			
5	Gas	ES Pipelines Ltd	31/12	8/1		
6	Gas	Europy Asset Management 1 (d. (behalf of lindopendent 	7/1	8/1	X	
7	Gas/Telecoms	SSF Pipelines Ltd / Neos Networks	None in area			
<u>ь</u>	Water Mains	Scottish Water	3/1	8/1	x	
	Wafer Sewers	Scottish Water	None in area See attached email	-		
10	Odr-us.	Fisher German Linescarch org BT GEO Network/Esso Petroleum Coll tof Mainling Pipelines Etd /Government Pipelines and Storage System Manchester Jetling Etd /BPA /ConocePhillips /Total Uk /BP TSEP /Shell UK Etd /Euritsman Petrochemicals (UK) Etd	24/12	3/1		
11	Cthylene Pipeline	Innovene (BP Group)	None in area			
13	Cil/Fuel	BP Forties Pipeline	None in area		· · ·	
13	Leleborns	BT firrelativity we can email these maps to you constant us)	2/1	8/1	·	
4	Telecoms	Infolines Public Networks Ltd	: 3/1	8/1	X	
15	Telecons	Caple & Wireless DataCo (for energis)	Awaiting			
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8	Telecoms	VSNI.	None in area			
9	Lelecoms	KPN	None in area		—	
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We will continue to obese the utilities concerned and forward any relevant information on receipt. If you have any queries regarding this report op not hositale to give mele call

Yours succeedy n In Internet aus Internet

Sugar. Samantha lepine Groundwise Searches Ltd. Email: stopin:/@groundwise.com

Groundwise Searches Limited Unit 8, Chichester House, 45, Chichester Road, Southend-on-Sea, Essex, SSI 2JU Your Ref 4276.088SL Our Ref DM/ 46271 Date 08 January 2008

Contact Lisa Kilcullen

#### For the attention of: Samantha Lepine

Dear Sir/Madam

#### NEW ROADS AND STREET WORKS ACT 1991

#### Re: Location of ScottishPower Equipment at Longnewton Farmhouse, Haddington, EH41 4JN

Thank you for your enquiry of 24 December 2007 regarding your proposed works at the above location. Please find enclosed a copy of our relevant records showing approximate position of all known ScottishPower apparatus in the area specified.

As much information as possible has been given, however, it must be understood that locations of cables and pipes shown on the plans are indicative only as original depths and lines may have been changed by persons unknown.

Scottish Power EnergyNetworks

I would draw your attention to the advice given in the Health and Safety Executive booklet HS (G) 47 - "Avoiding Danger from Underground Services", and their guidance note GS6 - "Avoidance of Danger from Overhead Lines". Please ensure all site operators have this information and if you discover or cause any damage to ScottishPower cables, then please call our Power Emergencies Line - 0845 2727 999 - immediately - giving all relevant information.

Should you require any further information, please do not hesitate to contact me at the address below.

Yours faithfully

For Elaine Stewart Data Management Enc. Underground 1:500 [7]

Overhead 1:2,500 [

On behalf of SP Distribution plc and SP Transmission plc

St Vincent Grescent, Giasnow, 63.8 1 Telephone 0141 567 4155 - Fax 0141 567 4262



SP Fower Systems Limited Registered Office: 1 Atlantic Ousy Glasgow 62 88P Registered in Scolland Mr. 215844, Mat No. 63 659 3720 08

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## RECEIVED

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Purchase Order: 23872393\_1 8 January, 2008

Mr Nick Henderson David R Murray & Associates 150 St Johns Rood Edinburgh EH12 8AY

Your ref: 465101067 Our ref: 4276.088SL

Dear Mr Henderson

#### Site : Longnewton Farmhouse, Haddington, EH41 4.IN Grid reference : 351528,664775

Please and enclosed information for the infrastructure Report on the above site

Enquiry	Туре	Data Supplier	Date Received	Sent to client	Map(s) attached
1	Electricity	SP Power Systems	Awaiting	i	
2	Flectricity	National Grid (electricity distribution)	None in area		
3	Gas	Scotland Gas networks (Transco)	Awaiting		
4	Gas	Gas rransportation Co.	Awaiting		
5	Gas	ES Pipelines Ltd	31/12	8/1	·
6	Gas	Finvoy Asset Management Ltd (hmalf of Independent Fipelines and Independent Provet Networks Ltd.)	1 //1	3/1	X
7	Gas/Telecoms	SSE Pipelines Ltd / Neos Networks	None in area	i -	
<u> </u>	Water Mains	Scottish Water	3/1	8/1	X
9	Water Sewers	Sectlish Water	Awaiting	···   ·/· ··	<u>_</u>
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		/ConocePhillips /Total Uk /BP TSEP /Shell UK	1		
		Ltd/Huntsman Petrochemicals (UK) Ltd		j	
1	Ethylerie Pipeline	Innovene (RP Group)	None in area		
2	Oil/Fuel	BP Forfies Pipeline	None in area	1 -	••
3	Telecoms	BT (to clarify we can email fields maps to you - contact us)	2/1	8/1	<u>x</u>
.1	Telecoms	Intolines Public Networks Ltd	3/1	8/1	
5	Telecoms	Cable & Wireless DataCo (for energis)	Awaiting		
6	Telecoms	Easynet (Tormally Ipsaris)	27/12		
<u>/</u>	Telecoms	Call	None in area		
8	Telecoms	VSNL	None in area		· · ·
9	Leleconis	KPN	None in arca		· .
0	Telecoms	Virgin Media (former NTL: Telewest)	4/1	8/1	
1	Telecoms	Thus (for your communications)	Awaiting		— <del></del>
2	Telecoms	FujitStr (for Oral on PCS, Oldent Crossing (UK) Ltd, Ehitchingen Network Species and Globel Ordering PEO)	31/12	8/1	
3	Telecoms	Gamma Felecom	24/12	8/1	
4	Telecoms	Fibernel	Awaiting		
5	Telecoms	Trafficmaster	None in area	·	
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<u>,                                     </u>	Telecons	Telia Network	24/12	8/1	
	Telecoms	Fibrespan Neiwork	7/1	3/1	

We will continue to chase the utilities concerned and forward any relevant information on receipt. If you have any queries regarding this report do not hositate to give mela call

Yours sincerely

Groundwise Searches I td Fmail: slepine@groundwise.com

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Jonathan Kiddle	n behalf of Plant Enquiries
ST December 2007 09:02 Samaotha Lepine RE: 4276 088SL	
High	
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	ST December 2007 09:02 Samaotha Lepine RE: 4276 088SL High



Dear Sim/Madam,

Plant Unaffected Notice

With regard to your plant enquiry, I can confirm that 73 Pipelines Ltd have no gas apparatus in the vicinity of site/area of interest.

Reference Number: 4276.0888E

If you wish to discuss this matter further ploase contact me on my direct (ine 01372 227567.

ours faithfully,

Alan Slee

Operations Manager

----Original Message-----From: Semantha Lepine [mailto:slepine@groundwise.com] Posted At: 24 December 2007 09:24 Posted To: Plant Engulries Conversation: Ref: 4276.0888L Subject: Ref: 4276.0888L Fmportance: High

<<DOC.EDF>> Ref: 4276.088855 Site: Longnewton Farnhouse, Paddington, EN4. 7JN Grid reference: 351528,664775 Requests: Flesse reply 8th January We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity 1 would appreciate a plan showing the location. The reason we need the information is our client can avoid digging through your cables or can investigate the potential for connecting with your network.

I enclose location plans of the site for your convenience and dox forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other utility companies or providers.

Should you have any problems in identifying the location of the sites or should you require further clarification of the details requested, please do not besitate to contact me.

I look forward to receiving details from you and thank you in advance for your assistance in this matter.

Many thanks,

Sumantha Lepine Production Researcher Croundwise Searches Jamited Suite 8 Chichester House 15 Chichester Road Soutbend-On-Sea Essex SSI 230

Groundwise Seatches Ltd Before printing, LLink about the environment

Business Address and Registered Office - Suite 8 Chichester House, 45 Chichester Road, Southend-on-Sca, Ecsex SSI 200 Company Registration Number 4130795 VAM number 769 0642 02

Tel: 01702615566 Fax:01702460239 Visil our website at: www.groundwise.com

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Lazeldean, Station Road, Leatherhead KT22 7AA

Office: 01372 227560 Fax: 01372 377996 http://www.espipelines.com

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Ocean Park House, East Tyndail Street, Cardift CF24 5GT I 0871 225 0123 - F 0871 225 3962 www.envoyonline.co.uk

Samantha Lepine

Groundwise Searches Ltd Suite 8, Chichester House 45 Chichester Road Southand On Sea SSI 230

Our Ref: 118892 Your Ref: 4276.088SL

03 January 2008

Dear Samantha Lopine,

#### **APPARATUS UNAFFECTED**

#### RE: Site Location: Longnewton Farmhouse, Haddington EH41 4JN

Grid Reference: 351528,664775

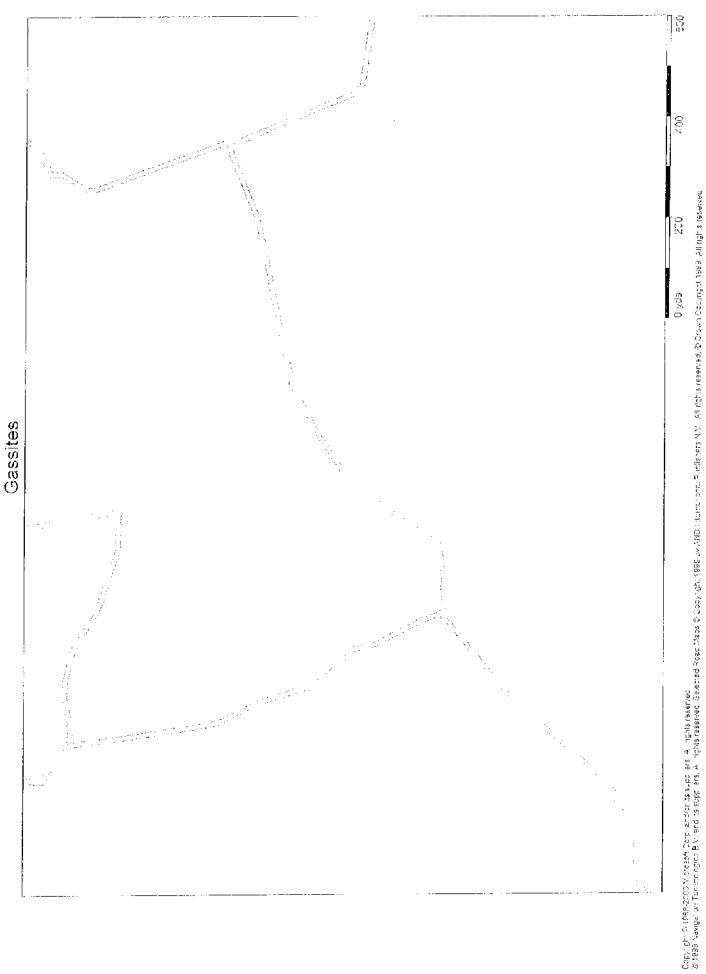
With regard to your enquiry, I can confirm that Independent Pipelines Ltd., Quadrant Pipelines Ltd or Independent Power Networks Ltd. <u>DO NOT</u> have any apparatus within the immediate proximity of your proposed works.

If you require any further assistance, please do not hesitate to contact mo on 08712 250 123 ext. no. 2046.

Yours sincerely

David Farmer Asset Operations and Maintenance Tel: 08712 250 123

\_\_\_\_\_



Pace 1

From: Sent: To: Subject: Elizabeth Baird 03 January 2008 14:46 Samantha Lepine Ref: 4276 088SL - Site Longnewton Farmhouse Haddington

Attachments:

GIS\_Wastewater\_Legen.pdf; GIS\_Water\_Legends\_15.pdf; p223406720\_1.pdf





GIS Wastewator\_L GTS\_Water\_Legend p223406720\_1.pdf egen pdf (21 K... s\_15.pdf (37 K... (362 KB) Deam Since

Reference:- SWPP/07/13943 Location of Services at:- Longnewton Farmhouse Maddington

Further to your enquiry regarding location of Scottish Water infrastructure at the above property, I attach copy coloured plans which indicate the approximate position of Scottish Water's existing services. A VAT receipt for payrent will follow shortly by post.

Please note that water mains are normally laid at a depth of 750mm to 1 metre cover from existing carriageway or foolpath levels. Other plant such as water service / supply pipes and sewer tails to properties may also be present, but no official records of these are kept.

Should you have any further technical queries on new connections, Stralegic Asset Capacity etc. please contact Planning and Development Services Helpline: 0141 355 5511. Enail: connections@scottishwater.co.uk General reference can also be made under the "Connections" title at www.scottishwater.co.uk

Yours faithfully

Liz Baird

.roperty Searches Analyst
searches@scottishwater.co.uk

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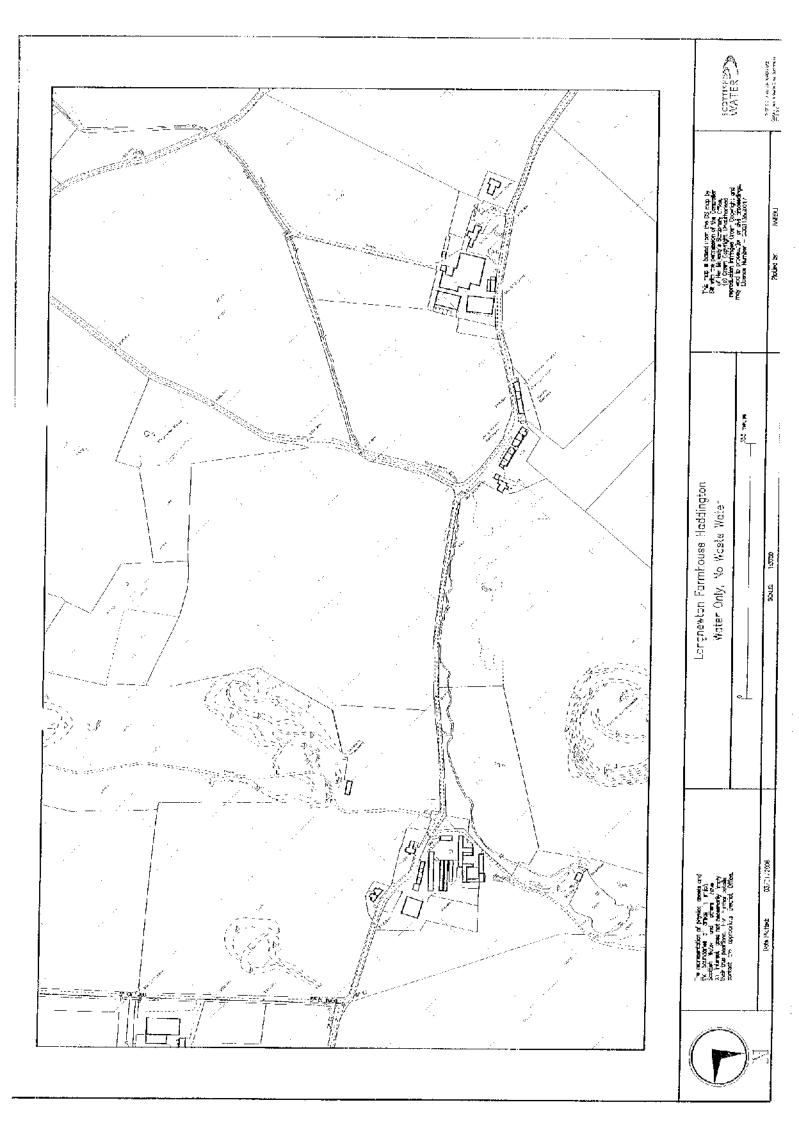
Scottish Water www.scottishwater.co.nk www.scottishwatersolutions.co.uk postmaster@scottishwater.co.uk

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#### Search Results

#### Thank you for your enquiry: LS-1897777-736

This enquiry result is valid for 28 days only from the date of enquiry and is based on the confirmed information you entered. If the location of the work changes then a further enquiry must be made. Should the work not be undertaken within 28 days of the enquiry then a further enquiry must be made.

Enquirer details	
Name:	Miss wiggett
Company:	Groundwise
Email:	nwiggett@groundwise.com
Enquiry details	
Your Reference:	4276.088
Confirmed location:	OS grid reference (351528, 664775)
Estimated start date:	31-01-2008
Type of work:	Excavations non utility - Private services
Distance covered:	200 metres

This enquiry is not in the zone of interest for any of the following Operators:

Esso Petroleum Company Limited	NOT IN ZONE OF INTEREST
Mainline Pipefines Limited	NOT IN ZONE OF INTEREST
ВРА	NOT IN ZONE OF INTEREST
Government Pipelines & Storage System	NOT IN ZONE OF INTEREST
Total Pipeline Operations	NOT IN ZONE OF INTEREST
ConocoPhillips (UK) Ltd	NOT IN ZONE OF AN EREST
Manchester Jotline Limited	NOT IN ZONE OF INTERVIST
Shell UK Ltd	NOT IN ZONE OF INTEREST
Sabic UK Petrochemicals (formerly Huntsman)	NOT UN ZONE OF IN LEREST
BP TSEP	NOT IN ZONE OF INTEREST.
BT GEO Network	NOT IN ZONE OF INTEREST
E-on UK Plc (Gas Pipelines Only)	NOT IN ZONE OF INTEREST
BP Exploration Purbeck Southampton Pipeline	NOT IN ZONE OF INFERENT
ConocoPhillips Ltd Humber Refinery	NOT IN ZONE OF INTEREST
Scottish Power Generation Ltd	MOT IN ZONE OF INTEREST
NPower CHP Pipelines	NOT IN ZONE OF INCEREST
Centrica Energy	NOT IN ZONE OF INTEREST

Thank you for your enquiry, there is no further action necessary

Please quote the Linesearch enquiry reference number in \*all\* correspondence

This service is brought to you by <u>Fisher German</u> @2007 System by eShopworks



EDINBURGH Office PP 3WTE Telephone House 357 Gorgie Road EDINBURGH EH11 2RP

TEL:0800 389 8364 FAX:0800 389 8322

Dear Sir/Madam,

Thank you for your request to: www.bt.com/btplant

Enclosed are copies of our drawings marked up to show the approximate location of BT apparatus, which is present in the immediate vicinity of your works. It is intended for general guidance only No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works made near to British Telecommunications plc apparatus, which may, exist at various depths and may deviate, from the marked route. To avoid damage it is recommended that mechanical excavators or borers are not used within 600mm of British Telecommunications plc plant. Please ensure that our equipment is not enclosed, blocked, covered or otherwise obstructed by your plant. In the event of clearance not being adequate we anticipate that your plant is either resited, or an order is placed with British Telecommunications plc for rearrangements of its plant. If there are any difficulties with the Map please ring 0800 616356.

Please contact our Network Protection Service if required by dialling\_0800-917-3993 or by Email on <u>DBYD@BT.COM</u> giving seven days notice of your commoncement date. This will provide you with onsite advice and a check of location for any BT apparatus.

Further to this, I hope the following points will assist you at the new development: -

BT has a licence obligation to provide service to any customer requiring a connection. A Developer would not normally be charged for provision of service, our standard connection charges would apply to the end user when orders are placed with our Sales Office. However, should a Developer insist on an underground service in an area where BT's plant is provided overhead, charges may be incurred.

When the Developer has obtained contract and planning permission BT would request a 'Clean', scaled Site Layout, Location Map and a covering letter be sent to the relevant newSite Office. We would particularly request that you give details of your programmed site start date and likely first occupancy date where possible.

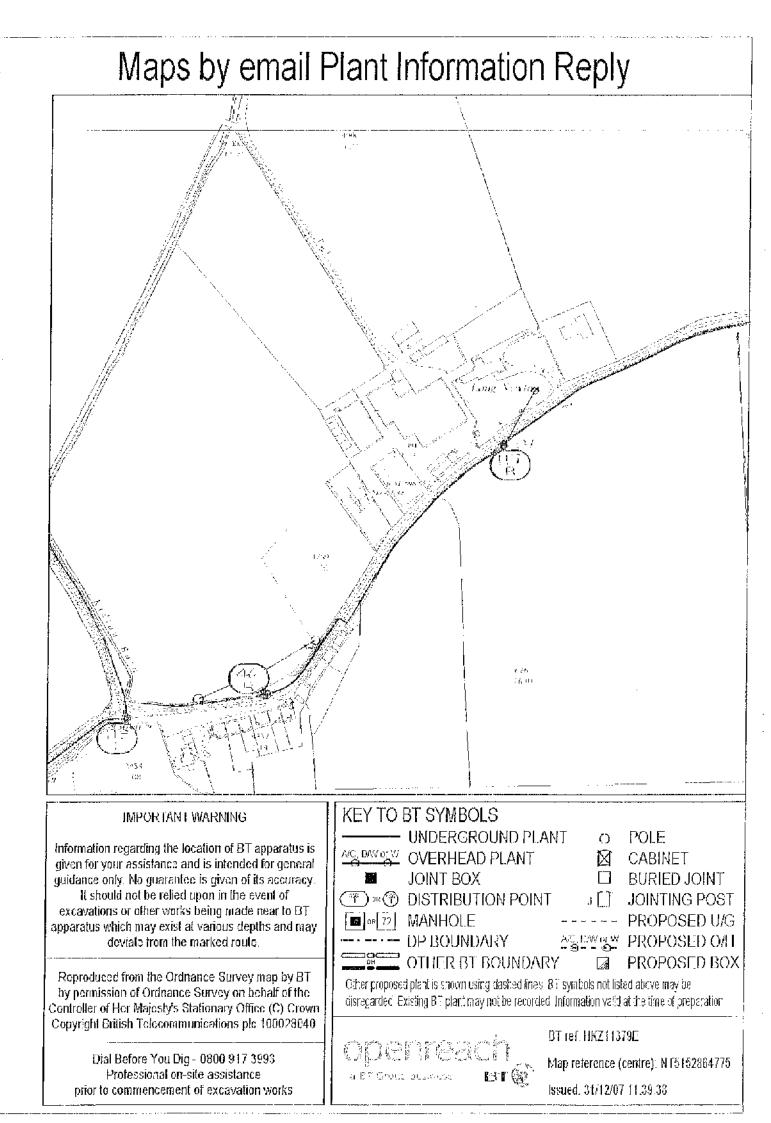
To obtain contact details of the newSite office covering the development area click on the URL below.

#### http://www.btwholesale.com/btnewsite/contactslist

Where a development affects existing B1 apparatus in the public highway, the cost of any necessary protection or diversionary works must be borne by the Developer. In this case where a budget estimate is required a Site Plan, Location Map and a covering lefter should be forwarded to the Repayments Project Office. To obtain contact details of the Repayments Office covering the development area click on the URL above and go to the Networks Protection and Alterations Page.

#### Yours faithfully,

NewSites BTBritish Telecommunications plc Registered Office S1 Newgate Street LONDON EC1A 7AJ Registered in England



From: Sent: To: Subject: Admin [ 03 January 2008 10:01 Samantha Lepine Re: 4276.088SL

Infolines has no plant at this site -- Original Message -----From: "Samantha Lepine" <stepine@groundwise.com> To: <streetworks@ngridwireless.com>; <osm.enquiries@atkinsglobs1.com>; <nrswa@uk.easynet.net>; <david.farmer@envoyonfine.co.uk>; <plant@espipelines.com>; <statrequest@fibernet.co.uk>; <planteng@mailman.ftel.co.uk>; <enewman@fibrespan.co.uk>; <planteng@mailman.ftel.co.uk>; <enewman@fibrespan.co.uk>; <streetworks@gammatclocom.com>; <urswa@gastrans.co.uk>; <admin@interplonenetworks.co.uk>; <Plantenquiries@optilan.com>; <ospteam@uk.verizonbusiness.com>; <plant.enquiries.team@lelewest.co.u<>; <urswa@vlesse.com> Sent: Monday, December 24, 2007 9:23 AM Subject: Ref: 4276.08855.

<<DOC\_PDE>> Ref: 4276.0888%
lite: Longnewton Farmhouse, asddington, EH41 4JN Grid reference: 351528,664775
Requests: Please reply 8th January

We are doing research on the above sile for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detocted in the vicinity I would appreciate a plan showing the location. The reason we need the information is our client can avoid digging through your cables or can investigate the potential for connecting with your network.

) enclose location plans of the site for your convenience and lock forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other utility companies or providens.

Should you have any problems in identifying the location of the sites or should you require further charilication of the details requested, please do not hesitate to contact me.

I lock forward to tooeiving details from you and thank you in advance for your assistance in this matter.

Many thanks,

Samartha Lopine Production Researcher Gtoundwise Searches Minited Suite 8 Chichester House 45 Chichester Read Southend-On-Sea Essex 381 200

Groundwise Searches Ltd Refere printing, think about the environment

Business Address and Registered Office - Suile 8 Chichester House, 45 Chichester Road, Southend-on-Sea, Essex SSI 200 Company Registration Number 4430795 VAT number 769 0642 02

Tel: 01702615566 Fax:01702460239 Visit our website at: www.groundwise.com

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Santantha Lepine Croundwise

Lasynet Telecom 70 Buckingham Avenue Slough SL1 4PN

Tel: 0207 0323 234/250/251 Fax: 0207 032 3160 Finall: nrswa@uk.casyriet.net

Date:	Our Ref:	Your Ref:	
8 January, 2008	PE07-12-1997	4276.088SL	·!

Dear Sir/Madam,

#### RE: Longnewton Farmhouse, Haddington.

Thank you for your enquiry.

Pleased be advised that Easynei Telecom will not be affected by these works.

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us.

# If you would like to submit your plant enquiries electronically to Easynet, please send them to <u>mswa@nk.easynet.net</u>

Please be advised that our fax number has changed to 0207 032 3160.

Kind regards

NRSWA Department Network Maintenance & Planning Department

Groundwise Unit 7, Chichester House 45 Chichester Road Southend-on-Sea Essex

SS1 2JU

Virgin Media National Plant Enquiries Cablephone House Small Heath Business Park Talbot Way Birmingham B10 0HJ

Tel: 0870 888 3116 Opt 2 Fax: 0121 694 2345

Drawing Rof:	6641 04-01-2003
Plant Enquiry	VM/PLE/06641
Your Lutter Date	18/12-2007
Your Ref:	4276.088SL
Date:	04/01/2008
Dear Sir / Madam,	

Enquiry Location: Longnewton Farmhouse, Haddington EH41

Thank you for your enquiry regarding work at the above location

Virgin Media and Viatel plant should not be affected by your proposed work and no strategic additions to our existing network are envisaged in the immediate future.

Should your request be in relation to a New Development and you require an estimate to be prepared for Virgin Media to service your proposed development, please submit this request for costs along with site drawings (scale 1:500) to:

Access Network WIP, New Developments Unit 7, Bothwell Park Ind Est. Uddingston G71 6NZ

This information is only valid on the date of issue. If your start date is 3 months or more from the date of this letter, please re-apply for updated information

Yours faithfully,

National Plant Enquiries Team email: plant.enquiries.team@virginmedia.co.uk

From: Sent: To: Cc: Subject: planteng 31 December 2007 TMT6 Samantha Lepine planteng@mailman.ftel.co.uk Plant Protection Search Result. Rcf :- 4276 088SL

Your Ref. 4276.088SL Our Ref. 47657\2 GRCUNDW1SL UNII 8 CH.CHESTER HOUSE 45 CHICHESTER ROAD SOUTHEND ON SEA FSSEX SS1 2JU

For the attention of SAMANTHA LEDINE

Location LONGNEWFON FARMHOUSE, HADDINGTON

Dated 31-DEC-07

With reference to your enquiry negating the above noted location, we are unaware of any GLOBAL CROSSING (UK) LFD, GLOBAL CROSSING PEC, ORANGE PCS, plant or services supported by Fujitsu in the area indicated in your enquiry. We bring your attention to the fact that whilst we try to ensure the information we provide is accurate, the information is provided Without Prejudice and Fujitsu accepts no lispility for clairs arising from any inaccuracy, onlysices or errors contained herein.

Fujitsu responds to plant enquiries for Clobal Crossing UK, Clobal Crossing Spr>PEC and Orange PCS simu-taneously and therefore you only need send one Spr>Copy of a plant enquiry to cover all of these companies. As we are moving Spr>towards a fully electronic database we unge our customers to request(bp>plant enquiries by email which will nesult in a higher level of service(bp>and cost saving. Please note that Fujitsu does not deal with plant enquiries(bp>tor Futchinson Network Services (G2O) and have no forwarding details.<br/>br>ff you require any further information, please do not hesitate to contact me.

Plant Protection Administrator

Pujitsu Telecommunications Europe 5td sofihuil Parkway, Birmingham Business Park, Blamingham, B37 /YU. UK & Mail:- plantenq@mailman.flel.co.uk Phone :- (41(6) 121 /J7 6065 Fax : (44(0) 845 8500115

www.uk.fujitsu.com

<TMG src="http://appsrv-dev-l.ftel.co.uk:7/79/images/415z641.g"f" alt="Eujitou logo">

From: Sent: To: Subject: Streetworks 24 December 2007 11:01 Samantha Lepine RE: 4276.088SL

Hi Samantha,

Having examined my records, I can confirm that Gamma Telecom has no apparatus within the area of your enquiry.

Regards.

Ray

----Origlual Moscuge----From: Samantha Lepine [mailmo:slepine@groundwise.com] Sent: 24 December 2007 09:24 To: streetworks@ngridwireless.com; osm.enquiries@atkinsclobal.com; nrswa@uk.easynet.net; david.farmer@ervoyonline.coltk; plant@cspipelines.com; statrequest@fibernet.coluk; plantenc@mailman.flel.coluk; enowman@fibrespan.coluk; Streetworks; nrswa@gastrans.coluk; admin@interphonenetworks.coluk; Fiantenquiries@optilan.com; osp-team@uk.vorizorbusiness.com; plant.enquiries.team@telawest.coluk; nrswa@Vtesse.com Subject: Ref: 4276.088SL Inportance: fligh

<<pre><<DOC.PDF>> Ref: 4276.08850 Site: Longnowton Farmhouse, Haddington, EU43 40N Orid reference: 301528,664775 Requests: Please reply 8th January

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the "mmediale vicinity. Should there be anything detected in the vicinity 1 would tepreciate a plan showing the location. The reason we need the information is our lient can avoid digging through your cables or can investigate the potential for connecting with your network.

i enclose location plans of the site for your convenience and look forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other utility companies of providers.

Should you have any problems in identifying the location of the siles or should you require further clarification of the details requested, please do not hesitate to contact me.

 $\pm$  look torward to receiving details from you and thank you in advance for your assistance in this matter.

Many thanks,

Samailla Lepine Production Researcher Grounowise Searches Limited Suito 8 Chichester House 45 Chichester Boad Southend-Cn-Sea Essey SSI 25U

Groundwise Searches Ltd Before printing, think about the environment

Dusiness Adoress and Registered Office - Suite 8 Chichester House, 45 Chichester Road, Southend-on-Sca, Essox SSI 250 Company Registration Number 4130795 VAT number 769 3642 62

Tel: 01/02615566 Fax:01/02460239 Visit our website at: www.groundwise.com

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Main telephone number: +44 (0) 870-224 1200 Website: http://www.gammate.ecom.com

This message has been scanned for viruses by MallController

From: Sent: To: Subject: UK OSP-Team [ 27 December 2007 09:15 Samantha Lepine RE: 4276.088SI

Dear Sirs

Verizon Business is a licensed Statutory Undertaker.

We have reviewed your plans and have determined that Verizon Business (Formally known as MCT WorldCom, MFS) has no apparatus in the areas concerned.

If you have any further queries please do not resitate to call.

Yours faithfully

Chris Pile Plant Protection Officer Eluail osp team@uk.verizonbusiness.com

----Orlginal Message-From: Samantha Kepine [mailto:slepine@groundwise.com]
Sent: 24 December 2007 09:24
To: streetworks@ngridwireless.com; osmlenguiries@atkinsglobal.com;
nrswa@uk.easynet.net; davio.tarmer@envoyonlinc.co.uk; plant@espipelines.com;
statrequest@fibernet.co.uk; planteng@mailman.ftei.co.uk; cnewman@fibrespan.co.uk;
streetworks@gammatelecom.com; prswa@gastrans.co.uk; admir@interohorenetworks.co.uk;
Plantenquiries@optilan.com; UK OSP Team; plant.enquiries.team@telewest.co.uk;
arswa@Vtesselcom
Subject: Ref: 4276.088SL
Importance: Sligh

<<DOC.PDF>> Ref: 4276.088SL Site: Longnewton Farmhouse, haddington, EU41 4JN Grid reference: 351528,664775 Requests: Please teply 6th January

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the "mmediate vicinity. Should there be anything detected in the vicinity " would appreciate a plan showing the location. The reason we need the information is our client can avoid digging through your cables or can investigate the potential for connecting with your network.

I enclose location plans of the site for your convenience and look forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other multipy companies or providers.

Should you have any problems in identitying the location of the sites or should you require further clarification of the details requested, please do not hesitate to contact met.

I look forward to receiving details from you and thank you in advance for your assistance in this matter.

Many thanks,

Samartha Lepite Production Researcher Groundwise Searches Limited Suite 8 Chichester Rouse 45 Chichester Road Southend-On-Sea Besex SS1 2JU

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Business Address and Registered Office – Suite 8 Chichester House, 45 Chichester Road, Southeng-on-Sea, Essex SSI 2JU Company Registration Number 4130/95 VAT number 769 0642 02

Fel: 01702615566 Eax:01702460239 Visit our website at: www.groundwise.com

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Verizon UK Limited - registered in England & Wales - registered number 2776038 registered office at Reading Toternational Business Park, Busingstoke Read, Reading, Berkshire, UK RC2 6DA - VAY number 823-3170-33

From:Sarah Smith [Sent:03 January 2008 10:16To:Samantha LepineSubject:Plant enquiry response

Your Ref: 4276.088SL

Our Ref: 1207/657

I confirm that Vtesse Networks do not have any plant in the area of your enquiry.

Regards,

Sarah Smith

Vtesse Networks Tel 01992 532 115

· ··· ··

Viesse Networks Limited is a company registered in England, company number: 3900836

Registered office: John Tate Roari, Phyholes Eusidess Park, Hertford, Huttfordshire, SGF3 7D1

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From:

Sent:

Subject:

To:

Rav Takhar [ ]plantenquiries@optilan.com] 24 December 2007 11:47 Samantha Lepine RE: 4276.088SL

Hi this is non affecting

Regards,

Ray Takhar Opliian Communication Systems

T: +44(C) 1926 864999 F: +44(C) 1926 851818 W: www.optilan.com

----Original Message----From: Satantha Lepine [mailto:slopine%groundwise.com]
Sent: 24 December 2007 09:24
To: streetworks@ngridwireless.com; ocn.enquiries@atkinsglobal.com;
nrswa@uk.easynet.net; david.farmer@envoyonline.co.uk; plant@espipelines.com;
statrequest@libetnet.co.uk; plantonq@mailtan.ftel.co.uk; onewman@fibrespan.co.uk;
streetworks@gammatelecom.con; nrswa@gastrans.co.uk; admin@interphonenetworks.co.uk;
Plant Enquiries; osp-team@uk.verizonbusiness.com; plant.enquiries.team@telewest.co.uk;
nrswa@Vtesse.com
Subject: Ref: 4276.088sL
importance: High

<<DOC.PDF>> Ref: 4276.088816 Sito: Longnowton Earnhouse, Haddington, EH41 4JN Grid reference: 351528,664775 Requests: Please reply 8th January

We are coing research on the above site for a client and would be grateful if you could confirm whether the above operators have coy cabting or apparatus in the immediate vicinity. Should there be anything detected in the vicinity : would appreciate a plan showing the location. The reason we need the information is our client can avoid digging through your cables or can investigate the potential for connecting with your network.

I enclose location plans of the site for your convenience and look forward to hearing from you. We shall of course be occylding a copy of your response to our client as part of a wider report on the site including reports from other utility companies or providers.

Should you have any problems in identifying the accation of the sites or should you require further clarification of the details requested, please do not besitate to contact me.

i lock forward to receiving dotails from you and thank you in advance for your assistance in this matter.

Many thanks,

Samactha Lepine Production Researcher Groundwise Searches Limited Suite 8 Chichester House 45 Chichester Road Southend On Sea Essex SSI 200 Groundwise Searches Ltd Before printing, think about the environment

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### Samantha Lepine

From: Sent: To: Subject: Coratine Newman 07 January 2008 12:02 Sanrantha Lepine RF: 4276 088SL

With regard to your enquiry below, I can confirm that FibreSpan itd. does NOR have any plant affected by your proposed works. It you have any further enquiries, please contact we direct at this email address.

Kind regards

Coraline Newman

Original Mossage-----From: Samantha Lepine [mailto:slepine@groundwise.com; Sent: 24 December 2007 09:24 To: streetworks@ngridwireless.com; osm.enguiries@atkinsglobal.com; rrswa@uk.easynet.nei; david.farmer@envoyonline.co.uk; plant@espipelines.com; statrequest@fibernet.co.uk; planteng@mailman.Ttel.co.uk; Coraline Newman; streetworks@garmatelecom.com; prswa@gastrans.co.uk; aduio@interprovenetworks.co.uk; Plantenguiries@optilan.com; osp-tean@uk.verizonbusiness.com; plant.enguiries.team@telewest.co.uk; arswa@vtesse.com Subject: Ref: 4276.088SI tmportance: High

<<DOC.PDF>> ReI: 4276.0885£
Site: fongnowion Farmhouse, Haddington, EH41 4JN Grid reference:
351528,664775
Requests: Please weply 8th January

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I look forward to receiving details from you and thank you in advance for your assistance in this matter.

Many thanks,

Samantha Lepine Production Researcher Groundwise Searches Eimited Suite 8 Chichester House 45 Chichester Road Southend-On-Sea Essex SSI 2JU Groundwise Searches Ltd Before printing, think about the environment.

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Coraline Newmar. RA - Administration

FibreSpan Limited Enterprise House Ocean Village Southampton SOL4 3X3 United Kingdom

Tel: + 44 (0) 23 8057 4590 Eax: - 44 (0) 23 8057 4591 www.fibrespan.co.uk

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ļ	LB	1	JMcl	L

Purchase Order: 23872393\_1

15 February, 2008

Mr Nick Henderson David R Murray & Associates 150 St Johns Road Erlinburgh EH12 8AY

Your ref: 465101067 Our ref: 4276.088SL

Dear Mr Henderson

### Site : Longnewton Farmhouse, Haddington, EI/41 4JN Grid reference : 351528,664775

Please find enclosed information for the Infrastructure Report on the above site

Enquiry	Турс	Data Sopplier	Date Received	Sent to client	Map(s) attached
1 -	Electricity	SP Power Systems	9/1	14/1	X
2	Electricity	National Grid (electricity distribution)	None in area	-	
3	Gas	Scotland Cas networks (Transco)	10/1	14/1	
4	Gas	Cas Transportation Co.	7/2	15/2	
5	Gas	ES Pipelines I to	31/12	8/1	
6	Gas	Envoy Asset Management Ltd (behalf of independent Fipelines and Independent Power Networks (Cid.)	7/1	8/1	X
7	Gas/Telecoms	SSE Pipelines LId / Neos Networks	None in area		
8	Water Mains	Scottish Water	3/1	8/1	X
9	Water Sewors	Scottish Water	None in area See atiached email		
10	Oil/Fuel	Fisher Gorman – Linescarch org BT GEO Network/Esso Petroleum Colltd /Mainline Pipelines Ltd /Government Pipelines and Storage System /Manchester Jetline Ltd /BPA /ConocoPhillips /Total Uk /BP TSEP /Shell UK Ltd /Huntsman Petrochemicals (UK) Ltd	24/12	8/1	
11	Ethylene Pipeline	Innovene (BP Group)	None in area		
12	Oil/Fuel	BP Forties Pipeline	None in area	-	
13	Telecoms	BT (for clarity we can pricit these maps to you contact us)	2/1	8/1	X
14	, Telecoms	Infolines Public Notworks Ltd	3/1	8/1	
15	Lelecoms	Cable & Wireless DataCo (for energis)	Awaiting	[	
16	Telecoms	Easynet (formally lpsoris)	27/12	8/1	
17	Telecoms	Colt	None in area		
18	Telecoms	VSNL	None in area		
10	Telecoms	KPN	None in area		·
20	Telecoms	Virgin Media (former NTL: Telewest)	4/1	8/1	
21	Telecoms	Thus (for your communications)	Awaiting		
22	Telecoms	Fujitsu (for Grange PCS, Global Gressing (UR) ltd, Hatchingon Network Services and Clobal Crossing PLC)	31/12	8/1	
23	Telecoms	Gamma Telecom	24/12		
24	Telecoms	Fibernet	4/2	15/2	
25	Telecoms	Trafficmaster	None in area	·	
26	Telecoms	OFCOM register of Mobile Base	None in area		
27	Telecoms	Varizon Business (fematy MCLWatdcom, MFS)	27/12	8/1	
28	Telecoms	Viesse Dark Fibre Network	3/1	8/1	
29	Telecoms	Lelia Network	24/12	8/1	
30	Telecoms	Fibrespan Network.	//1	8/1	

We will continue to chase the utilities concerned and forward any relevant information on receipt. If you have any queries regarding this report do not besitate to give mela call

### Yours sincerely

- -Semanthallepiue Groundwise Searchas Ltd Email: stepino@groundwise.com

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NRSWA Plan

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### Samantha Lepine

From:	Hannah Creane
Sent:	07 February 2008 16:47
To:	Samantha Lepine
Subject:	Plant Enquiry Response Email

In response to your communication with the following reference numbers:

Your ref:

4276.088SL URO 1537.1SL

Site Location:

Longnewton Farmhouse, Haddington site near Waterloo Road, London

GTC have no apparatus in the vicinity of your proposed work.

Please note other Gas Transporters may have apparatus in this area and you should ensure that all transporters have been consulted.

All future plant enquiries must contain accurate Easting and Northing references to enable us to process your enquiry ASAP.

Yours faithfully,

Hannah Creane Planning Assistant GTC Energy House Woolpit Business Park Woolpit Bury St. Edmunds Suffolk IP30 9UP Tel: 01359 243326 Fax: 01359 244046 Email: Hannah.Creane@utc-uk.co.uk Web: www.gtc-uk.co.uk Please Send Plant Enquiries to: nrswa@gtc-uk.co.uk

NOTE:

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This E-Mail originates from GTO. Energy House, Unit 29, Woolpit, sust easi Pairs, Woolpit, Bury St Edmunds, Suffolk, IP30 9UP (GTC) The Cast Franscontation Company Limited is a conspany logistered in Guerusey. Channel Islands, registered number 29451, VAT, registered number 688 6971-40

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DISCLAIMER

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The information in this L-Mail and in any attachments is confidential and may be privileged. If you are not the intended recipient, please destroy this message, delete any copies held on your system and notify the sonder immediately. You should not retain, copy or use this F-Mail for any purpose, nor disclose all or any part of its content to any other person.

Whilst we run antivirus software on Internet E-Mails, we are not liable for any foss or damage. The recipient is advised to run their own up to date antivirus software. Thank you

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Please be environmentally aware. Do you really need to print this e-mail?

. .\_\_\_\_.

### Samantha Lepine

From: Sent: To: Subject: Plant Protection (plant protection@cat-surveys.com) 94 February 2008 14:17 Samantha Lepine RE: 4276.088SL

Dear Sirs,

Tibernet plant installations are unaffected by your proposed works at the location(s) referred to in this document.

If you have not already done so you should contact Fujitsu to obtain details of Clobal Crossing plant which may be affected by your proposed works.

They can be contacted at; Pujitsu Felecom Europe Ltd, Plant Enquiries, Post Point 5, Solibull Parkway, Birmlagham Businees Park, Birmingham, E37 7YU

Plant Protection Team

----Original Message-----Ptor: Sarantha Lepine [maillo:slepineEgroundwise.com] Sent: 24 December 2007 09:24 To: streetworks@rgridwireless.com; osm.enquiries@atkinsglobal.com; nrowa@uk.easynet.net; david.farmer@envoyonline.co.uk; plant@espipelines.com; statzequest@fibernet.co.uk; planteng@mailmap.ftel.co.uk; enewhon@fibrespan.co.uk; statzequest@fibernet.co.uk; planteng@mailmap.ftel.co.uk; enewhon@fibrespan.co.uk; streetworks@gammatelccom.com; prswa@gastrans.co.uk; admir@interphonenetworks.co.uk; Plantenquiries@optilan.com; osp-toam@uk.vetlzonbusiness.com; plant.enquiries.team@tolewest.co.uk; nrswa@Vtessc.com Subject: Ref: 42/5.088SL Importance: Eigh

<<DOC.PDI>> Ref: 4276.0888L Site: Longnewton karmbouse, Baddington, EF44 4UN Grid reference: 351528,664775 Requests: Please reply 8th January

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything defected in the vicinity I would appreciate a plan showing the location. The reason we need the information is our client can avoid digging through your cables or can investigate the potential for connecting with your network.

I enclose location plans of the site for your convenience and look forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other utility companies of providers.

Should you have any problems in identifying the location of the sites or should you require further clarification of the details requested, please do not hositate to contact me.

: Look forward to receiving details from you and thank you in advance for your assistance in this matter.

Many thanks,

Samantha Lepine Production Researchor Groundwise Seauches Limited Suine S Chichester Louse 45 Chichester Road Soutend-On-Sea Essex SSI 250

Groundwise Searches Ltd Before printing, think about the environment

Business Address and Registered Office - Suite & Chichester House, 45 Chichester Road, Southend-on-Sea, Essex SSI 200 Company Registration Number 4130795 VAT humber 769 0642 92

Tel: 01702615566 Fax:01702460289 Visit our website at: vww.groundwise.com

This c-mail contains confidential information belonging to the sender which is legally privileged. It is the responsibility of the recipient to ensure that any e-mails or attachments are virus free, as Groundwise Searches Ltd accept no responsibility. Should you not be the intended recipient them any disclosure, copying, distribution by the taking of any action in reliance on the contents of this e-mail is strictly prohibited. If you have received this transmission in error, please notify us immediately, and permanently delete this message.



Asset Protection Team PO Box 3484 Warwick CV34 6TG

Direct tel +44 (0)800 7312961 Direct fax +44 (0)1926 656574

24-hour Electrical Emergency No 0800 40 40 90\* \*Calls may be recorded and monitored 24-hour Gas Escape No 0800 111 999\* \*Calls may be recorded and monitored

www.nationalgrid.com

SUITE 8 CHICHESTER HOUSE
45 CHICHESTER ROAD
SOUTHEND ON SEA
ESSEX
SS1 2JU

GROUNDWISE SEARCHES LIMITED

Attention: NIKITA WIGGETT

Date09 January 2008Our ReferenceIN09795/0033795Your Reference4276.058SL

Dear Sir/Madam

### Re: LONGNEWTON FARM HOUSE, HADDINGTON. EH41 4JN

Thank you for your enquiry, which we have assessed with respect to our operational electricity transmission network and our operational national gas transmission network.

Based on the information you have provided and the proximity and sensitivity of these networks to your proposals we have concluded, using the enclosed tables, that the risk is NECLICIBLE.

Further details of organisations responsible for the operation of gas distribution networks, including National Grid's gas distribution organisation, and those responsible for electricity distribution networks can be found at www.nationalgrid.com and www.energynetworks.org and on the enclosed map.

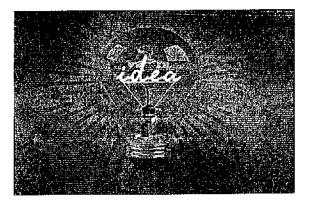
Please ensure that you have a response from both ourselves and the relevant gas distribution organisation, in addition to other utility network operators, before you proceed with your proposals.

Yours faithfully

Pooja Maheshwari Asset Protection Team

ENCLOSURES Risk Assessment Tables Map For our national transmission networks see : http://www.nationalgrid.com/uk/LandandDevelopment/DDC/gastransmission/gaspipes/ http://www.nationalgrid.com/uk/LandandDevelopment/DDC/electricitytransmission/overheadlines/

National Grid is a trading name for: National Grid Electricity Transmission plo Hegistered Office: 1-3 Strand, London WC2N SEU Registered in England and Walos, No 2366977 National Grid is a trading name for: National Grid Greeple Registered Office: 1-3 Strand, London WC2N 5EH Registered in England and Wales, No 2006000 We have sent you a negligible risk response which means you may be nowhere near us so:



### you may be able to help yourself

Visit:

http://www.nationalgrid.com/uk/LandandDevelopment/DDC/gastr ansmission

http://www.nationalgrid.com/uk/LandandDevelopment/DDC/eletri citytransmission

If you are a utility or council etc you should already have our records on CD (For further information contact Dawn McCarroll 01926 656325)

Searching online at <u>www.linesearch.org</u> as from February 2008

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### Groundwise Searches Limited,

Suite 8 Chickester House, 45 Chickester Bood,<br/>Southend on Sea, Essex SS1 2/UTelephone01702 615566Fax01702 460239Emailmail@groundwise.comWebwww.groundwise.com

Purchase Order: 23872393 [1 2 April, 2008

### Dear Mr Henderson

### Site : Longnewton Farmhouse, Haddington, EH41 4JN Grid reference : 351528,664775

Please find enclosed information for the Intrastructure Report on the above site.

Enquiry	Туре	Data Supplier	Date Received	Sant to client	Map(s) <u>aitached</u>
·	Electricity	SP Power Systems	9/1	14/1	X
2	Flectricity	National Orid (electricity distribution)	None in area		
3	Gas	Scotland Gas networks (Transco)	10/1	14/1	
4	Gas	Gas Transportation Co.	- 7/2	15/2	
5	Gas	ES Pipelines I to	· 31/12	3/1	
6	Gas	Envey Asset Management Ltd (beneficier Independent Bipelines and incependent Power Networks, Ltd.)	7/1	8/1	X
7	Gas/Telecoms	SSE Pipelines Etd / Neos Networks	<u>None in area</u>		
8	Water Mains	Scottish Water	: 3/1	8/1	X
9	Water Sewers	Scotlish Water	None in area		
10	Oil/Cue <sup>r</sup>	inisher German - Lineseerch org BT GEO Network/Esso Petroleum Ce Ltd /Mainline Pipelines Ltd /Government Pipelines aud Storage System /Manchester Jetline Ltd /BPA /ConcoPhillips /Total Uk /BP TSEP /Shell Uk Ltd /Lluntsman Petrochemicals (UK) Ltd	· 24/12	8/1	
11	Ethylene Pipeline	Innovenc (BP Croup)	None in area		
12	i Oil/Eu≞l	BP Forties Pipeline	None in area		
13	Telecoms	B1 (for clarity we can empilithese maps to you contact us)	2/3	8/1	. X
14	Telecoms	Infolines Public Networks Ltd	3/1	3/1	
15	Telecoms	Cable & Wireless DataCo (for energis)	: 18/2	6/3	
16	Telecoms	Easynet (formally lpsaris)	27/12	8/1	
17	Lelecoms	Colt	None in area	-	
18	Talacoms	VSNL	None in area		
19	Telecoms	KPN	None in area		
20	Telecoms	Virgin Media (former NTL: Telewest)	<u>4/1</u>	8/1	
21	Telecoms	Thus (for your communications)	2/4	2/4	
22	Telecoms	Hujitsu (for Orange PCS, Clobal Crossing (UK) Lld, Bulaninson Network Sorgices and Clobal Crossing PEO)	31/12	8/1	
23	Telecoms	Gamma Telecom	24/12	3/1	
24	Lelecons	Fibernet	4/2	15/2	
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26	Telecoms	OFCOM register of Mobile Base	None in area		
27	Telecoms	Verizon Business (formerly MCI Worldcom, MFS)	27/12	8/1	
28	Telecoms	Vtesse Dark Fibre Network	3/1	8/1	o <del></del>
20	Telecoms	Telia Network	24/12	8/1	
30	Telecoms	Fibrespan Network.	7/1	8/1	

We will continue to chase the utilities concerned and forward any relevant information on receipt. If you have any quories regarding this report do not hesitate to give me a call

Yours sincerely

Samantha lepino Groundwise Searches I td Fmail: slepine@groundwise.com

> Registered office: Suite 8 Chichester House, 45 Chichester Road Southered on Scu, Essex SS1 2JU Registration no. 4130795

THUS plc. 1/2 Barkeiev Square T 01/1 567 123/ 29 Berkeloy Street F 0141 566 3010 Glasgow G3 71 iR www.stitus.net



24 March 2008

Your Ref: 4276.088SI

Our Ref: UCL(N)86429

Groundwise Searches Ltd Suite 8 Chichester House **45** Chichester Road Southend on Sea Essex SSI 20U

For the attention of: Samantha Lepine,

Dear Madam,

### NEW BOADS AND STREET WORKS ACT 1991

### Project: LONGNEWTON FARMHOUSE, HADDINGTON,

Thank you for your enquiry dated 6th March, 2008, requesting plant information for the above mentioned project.

On consulting our records, I am unaware of any Thus plant which would be affected by your proposed works. I trust this information is sufficient, if however you have any further enquiries please do not hesitate to contact us.

Please note that Thus and Your Communications plant are now fully integrated and all plant enquiries should now be directed to our Glasgow Office only.

Yours faithfully

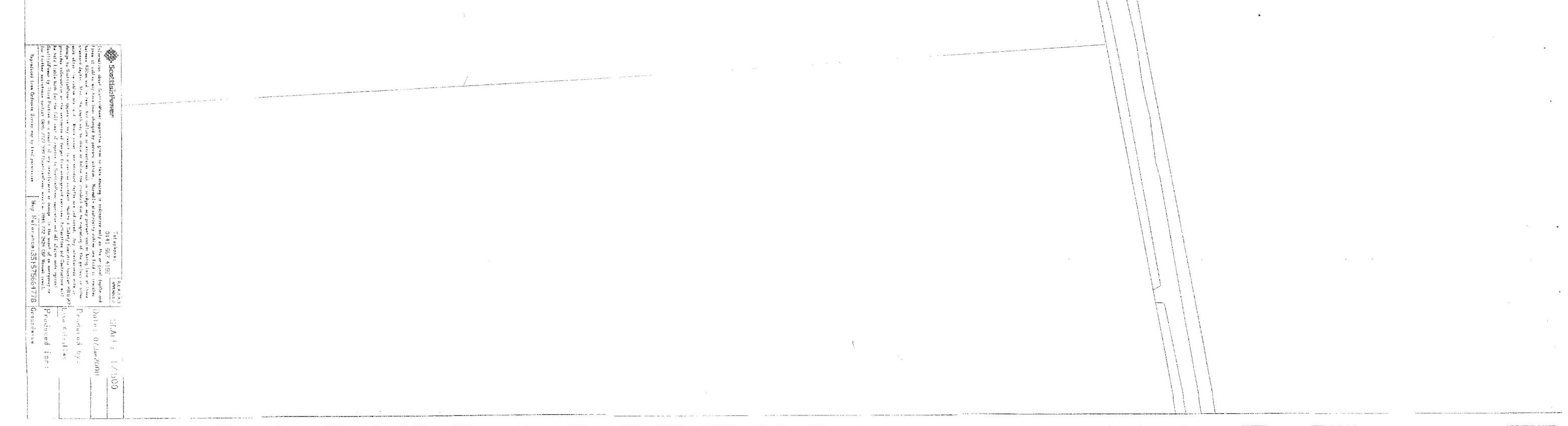


Gerry Campbell Utilifies Centre Direct Line: 0143-566-3955

THUS plc Registered Office: 1/2 Barkeley Spince 99 Berkeley Street Glosgow G3 7HR Registered in Scotland Not SC192666







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### APPENDEX G

### ASSESSMENT LEVELS CALCULATED USING THE CLEA MODEL

08/04/2008

Page 1 of 7

Report e8538 20080408\_0922.xls

CLEA UK MODEL 2005 VERSION Version 1.0

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Page 5 of 7

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Cyanida	2.40E+00 1.80E-0	E-01 none	none	0.00E+00 0.00T-00	0.007-00

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NVA	4 អ្នាំសាំសូមភ្លេកកោត ភេសសារសេរ្ត	PROPER
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1.14	ទទកក (ក្រទេទាប់ការ) ទាំពែល)៥ សាព្រះចម្អ (ចំណេះ ដែរ	
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MEDIA CONCENTRATIONS

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### APPENDIX H

### STATISTICAL ANALYSIS OF LABORATORY DATA

	Data Checked By:	Data Input By;	Contract No.:	Contract Name:
	HCN	PL	E8538	Long Newton, Haddingtor
				ı, Haddington

	Location	BH1	BH2	BH2	BH3	BH3	RH4	ת ת ת	HP?	HD4	L D Л	
	Depth (m)	0.5	0.5	1.0	ວ ຫ	10	כ	ר ה הי	<b>P</b> 3	0.9	ວ ວ ເ	
Analyte	Units											
Arsenic	mg/kg	21	20	27	23	52	30	8	20	120	<u>л</u>	30
Cadmtum	Childhigh (Childhigh)	69.0			1		. x		د.	->		
Chromium (Total)	mg/kg	23	29	32	37	37	26	77	28	37	24	Ал
Lead	mg/kg	21	34	20	270	28	31	<del>ر</del> ی	130	410	24C	D-AC
Mercury	ing/kg	0.99		<b></b>		_				اد.		- X   1 0
Selenium	mg/kg	1.99	N	2	N	2	N	2	N	N	N)	~
Nickel	mg/kg	21	CO CHT	60	46	5r	င္သ	19	29	32	25	(n 
Boron (Water Soluble)*	rng/kg	69.0									-1	
Coppor	mg/kg	. <b>:</b> 8	29	33	32	44	N	თ	28	32	26	36
Zinc*	mg/kg	58	10C	58	120	- 10	76	- - 0	280	400	26C	210
Munohydric Phenols (Total)	Ely/6	65.0	-				_	<u> </u>			<u> </u>	ا ا
Cyan.de (Total)	ng/kg	69.0					_	<u> </u>				
Water Soluble Sulphate (as SO <sub>1</sub> )	ĝ,Ľ	0.058	0.012	0.01	0,057	C.01	0.0	0.01	0,011	0,01	0.025	0.01
Sulphide**	Bayêûu	9.99	10	10	10	10	10	10	10	0	10	ô
[ph (Unitless)	Jn tiess	7.2	5.C	7.4	7.9	7.8	7.8	7.5	7.3	6.6	3.9	6.4

What is the proposed end use? Residential With Plant Uptake = 1 Residential Without Plant Uptake = 2 Allotmonts = 3 Commercial = 4

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Contract Name: Contract No.: Data Input By: Data Checked By:

Long Newton E8538 PL NJH

	Depth (m)	Location
.1	0.2	HP7

Analyte	Units	
Arsenic	mg/kg	21
Cadmium	ey/au	
Chromium (Total)	riĝ/kg	23
Lead	By/Bu	47
Mercury	ពាល់៥ខ្	_ <b>_</b>
Selerium	£%,Bur	~
Nickel	Ξη,ÊШ	24
Borch (Water Soluble)*	rng≓kg	_
Copper*	mg/kg	20
Zirc*	mg/kg	62
Micnohydric Phenois (Total)	mg/kg	
Cyanice (Total)	mg/Kg	1
Water Scluble Sulphare (as SO <sub>4</sub> )	n/ -	0.018
Sulphide**	3y,5⊥t	10
pH (Unitless)	Unitoss	7.8

What is the proposed end use? Rosidential With Plant Uptake = 1 Residential Without Plant Uptake = 2 Allotments = 3

-

Commercial = 4

Contract Name: Contract No.: Data input By: Data Checked By:

## Long Newton, Haddington E8538 PL NJH

# Residential With Plant Uptake | Residential Without Plant Uptake | Alictments | Commercial

Arsenic	mg/kg	20	20	20	500
Cadmum	mg/kg	2	30	N	1400
Chromium (Totai)	E≽,êu	130	200	130	5003
Lead	mg/kg	450	45C	450	750
Mercury	mg/kg	8	18	сю	480
Selenium	mg/kg	35	260	ដូ	8C00
Nicke	Phi2/kg	99	75	80	5000
Boron (Water Soluble)	ex.Su	. 3	3	3	ω
Copper	EX/2 L	135	135	135	135
Zinc	0≻/3.u	30C	300	300	300
Menonydrie Phenols (Totai)	ng≻g i	282	283	283	283
Cyanide (Total)	p>/g/	23.8	23.8	23.8	23.8
Water Soluble Sulphate (as SO <sub>4</sub> )	S∖,Γ	0.5	0.5	J.5	2 5
Sulphide	mg/kg	*	÷	*	¥
pE (Unitless)	Unitless	<5.5	< 5.5	×5.5	∧ 0.0

нги	Data Checked By:
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E8538	Contract No.:
Long Newton, Haddington	Contract Name:

6691	30
1.701	56
E07.1	58
9021	57
802.1	97
1121	52
11.14	54
2121	53
1771	55
1,725	54
6621	50
1,734	61
1.740	81
907.1	21
1,763	91
1921	S٢
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Contract Name: Contract No.: Data Input By: Data Checked By:	Long Newton, Haddington E8538 PL NJH	n, Hadding	ton								
	Location Depth (m)	0.5 0.5	BH2 0.5	BH2	BH3	1.0 1.0	0.5 8H4	0.5	НР2 0.3	0.2	HP5 0.2
Analyte	Units										
Arsenio	0>/3.u	1.322	1.298	1 42'	1.362	1.716	1.477	C.903	1.301	1.255	.176
Cadmiun	£5×/ðu	-0.CO4	0.000	000 C	0.00C	0.000	C.000	0.000	0.00C	0.000	C.000
Chromium (Tetal)	mg/kg	1.332	1.462	1.505	1.568	1,568	1.415	1.230	1.447	1.505	1.380
psel	mg/kg	1.322	1.531	1.301	2.≤31	724,1	1.491	0.903	2.114	2.613	2.380
Mercury	5x/6w	-0.0C4	0.00C	0.000	0.000	C.000	0.000	0000	0.000	0.000	0.000
Selenium	mg/kg	0.289	0.301	0.301	C.301	0.301	0.301	0.301	0.301	0.301	0.301
Nickel	mg/ka	1 322	1.544	82413	1.663	1.732	1.580	1.279	.452	1.505	1 398
Boron (Water Soluble)	, ნ <del>ა</del> ცნლ	-0.004	0,000	C.000	0.000	0.000	0.000	0.000	C.000	0.000	0.000
Copper	By/Bu	1.255	.462	1.519	1.505	1.643	1.322	872.0	1,447	1.505	1.41ភ
Zinc	mg/kg	1.763	2.000	61919	2.C79	2.041	1.861	.255	2.447	2.602	2.≄15
[Monohydric Phenois (Total)	03/3.u	-0.004	0.000	0.000	0.000	0.00C	0.000	0.000	0.000	0.000	0.000
Cyanide (total)	₿⊱/3.u	-0.004	0,000	0.000	0.000	0,000	0.000	0.000	0.000	0.000	0.000
Water Soluble Sulphate (as $SO_4$ )		-1.237	-1 92 :	-2.00C	-1.244	-2.000	C00'2-	-2.000	-1.959	-2.000	-1.022
Sulphice	Ey/Bu	1.000	1.000	1.000	1.000		1.000	1.000	1.000	000	1.000
at (Unitless)	Unitless	0.857	508 C	0.86g	0.898	C.892	C.892	0.875	0.863	C.820	0.839

Logs of Lap Results

C.806	0000	-2.000	0.000	0.000	2.322	1.556	0.000	1.708	0.301	0.000	2,415	1.653	C.000	1.301
0.892	1.000	-1.745	0.000	0.000	1.792	1.301	0.00C	1 380	0.301	0.000	1.672	1.362	0.000	1.322

0.4	HP6
0.2	HP7

NJH	Data Checked By:
BĽ	Data Checked By:
Long Newton, Haddington E8538 St.	Contract Name:

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1.91	8
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5.28	91
5.33	81
2.38	50

Contract Name: Contract No.: Data Input By:	Long Newton, Haddington E8538 PL	ton, Ha:	dington											
Data Checked By:	N L T	SGV	x mean	Sx	ت	-	U395	у тах	y mean	Sy	-	T crit	Max Value Test	Above or Below SGV
Arsonio	mg/Ka	20	22.33	10 65	12	12 1.783	28.85	1.716	1.330	0.1907	2.02	N - 3	No Outliers	Accve
Oadmum	mg/kg	ы	1.00	0.00	5	1,798	1.00	0 0 0 0	0.000	0 0013	0.29	ω' [3]	No Outliers	5elow
Óhrom um (Total)	mg/kg	150	29.42	2,69	12	1.796	33.40	- 653	1.455	0 1148	1.73	2.13	No Outliers	Below
lead	mg/kg	450	124.92	135.47	12	1.796	195 15	2.613	1.802	0.56:0	1,45	2.13	No Outliers	Below
Mercury	mg/kg	S	, 00	0.00	ī.	1.798	8	0.000	0000	0.0013	62.0	2.13	No Outliers	Below
Selearum	ng/kg	g	2.00	0.00	.5	- 796	2 00	2.301	0.301	0.0008	92.0	2.13	No Outliers	Beck
Nickel	By/,Buu	60	36.17	13.73	12	967.1	43,29	1.778	1.529	C.637	1.49	2.13	No Outliers	Below:
Boron (Water Soluble)*	m₂/kg	ω	1.00	0.00	N	5.795	1.00	CC010	0.000	0.0013	62.0	2.13	No Outliers	Below
Coppe.,	mg/kg	:135	27 08	98.6		1.796	32.19	1.643	1.392	0.2224	1 12	213	No Outliers	Below
Zinc*	BN/Sut	300	148.08	1.4.28	1 N	1.796	207.33	2,802	2 043	0.3591	LG.	2 13	No Outliers	Below
Monohydric Phenots (Total)	b>/∂.u	283	1.8	0.00	12	1.793	1.00	0.00	0.000	0.0013	0.29	2.13	No Outliers	E≎low
Cyanide (total)	E>/Bu	24	1.00	0.00	12		1.00	0.000	0.000	0.0013	0,29	2.13	No Outliers	Eejow/
Water Soluble Sulphate (as SO4)	ĝ,Ľ	0 თ	0.03	0.03	12	1.768	0.04	-1.022	-1.761	0.3687	2.00	ε. 3	No Outliers	Eelow
Suphide**	mg/kg	ö	10.00	0.00	12	1.786	10.00	1.000	1.000	0.0001	0.29	2.13	No Outlie's	Below
pH (Unitess)	Unitiess	A Gi On	7 38	- 0.53	12	1.798	7.56	0 903	0,867	00317	1.13	2.13	No Outliers	Below
Accreviations:														
÷	Sewage Sludge Guidelincs	ludge G	uideïnas											
* *	Limit of Detection	stection												
SCA	Sol guidel ne va ue	l revau	<b>e</b> 0											
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### APPENDIX 1

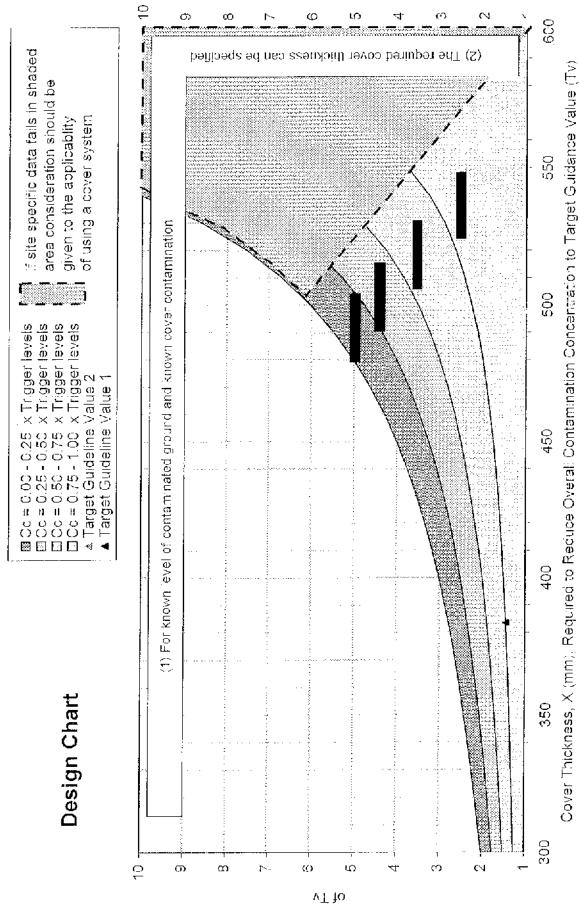
### BRIS CAPPING LAYER CALCULATION SHEET

### Long Newton, Haddington Assuming Cover Contamination of 75% of Assessment Levels

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Overall thickness of cover required



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APPENDIX J

RESULTS OF GAS MONITORING

Site:	Lorgnewto	Lorgnewtor, Haddington	<u>.</u>	Date:	28/01/2008			Weather:			Windy & sunny
Proj. No.:	E3533			Name(s):	Ŕ			Serial No.:		GAC86	GAC8860106 (GA2C03) + Flow Poc
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		]						:			
dditional (	Additional Comments:										

David R. Wurray & Associates, 150 St. John's Read, Edinburgh, EH12 SAY (Tel: (0131) 3349765 (Fax. (0131) 3164540)

Cas monitoring i leid ivecord	Sur Lonu	1 ICIN		~		0					
Site:	Longnewton. Haddington	n. Haddingt	ro	Date:	09/02/2008			Weather:			Overcasi
Proj. No.:	110530		-	Name(s):	X 0			Serial No.:		GADB	GA32630106 (GA2300) + Flow Pod
<b></b>	Ba, Pr, ::	CH2	° S S S S S S S S S S S S S S S S S S S		(com)		Flow	GW Level	BH Base	Datum	Comments
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David R. Vurray & Associates 100 St. John's Road, Ecinburgh, E⊟12 &AY Treit: (0131) 3240765 Fax.: (0131) 3134540

Gas Monitoring Field Record

Sheet 1 of 1

as Mo	Gas Monitoring Field Record	g Field	Record	<u>.</u>		Shee	Sheet 1 of 1				
Site:	Longnewro	Longnewton, Haddington	ion	Date:	- 4/02/2008			Weather:			
Proj. No.:	E8538		<u>.</u> .	Name(s):	ŚĊ			Serial No.:		GA03	GA03660103 (GA2000) + Flow Ped
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BH∠	0201	6.0	2.5	14.2	<u>^</u>	Ą	0.0	1.02	2.47	GL	
BH5	1020	0.0	6.0	19.2	~	<b>^</b>	0.0	.11	2.05	- L	
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101111	Comments:										
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David R. Murray & Associates, 160 St. John's Road, Edinburgh, EH12 64Y (Tel.: (0131) 3340765 (Fax.: (0131) 3164540)

		•									
Site:	Longnewton, Haddington	n. Haddingt	CO.	Date:	19/02/2008			Weather:			
Proj. No.:	E8538			Name(s):	8			Serial No.:		GAD	GA32650106 (GA2300) + Ficw Pod
			)	)							
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BH4	1000	0.0	2.4	14.1	<u>^</u>	4	ڻ `	1.09	2.48	ΘL	
BH2	1000	0.0	0.9	18.8	4	Ň	2.0	1.15	2.06	GL	
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ditional C	Additional Comments:										
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David R. Murray & Associates, 150 St. John's Road, Edinburgh, EH12 84V Tel. (0131) 3340765 Fax. (0131) 3164540

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David R. Murray & Associates, 150 St. John's Road, Edinourgh, EH12 84Y, Telu (0131) 3340765, Fax: (0131) 3164540

**Gas Monitoring Field Record** 

Sheet 1 of 1

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Site:	Longrewto	Longrewton, Haddington	cn .	Date:	10/03/2008			Weather:			Cold & Raining
Proj. No.:	E8538			Name(s):	KC & DP			Serial No.:		G.403(	GA03660106 (GA2000) + Flow Pod
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00 포	(ribal)	(% \\/ + +		(% v/v)	(ndd) 0 (1	(nidd)	(hr)	(ר:) שעפר אארי	(n:) (n:)	Datum	Comments
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BH5	94C	ē.0	C.3	19.7	-1	<u>&lt;</u>	0.0	0,40	2.07	GL	
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APPENDIX K.

# WATER PIPE SPECIFICATION

### DAVID R. MURRAY AND ASSOCIATES CONSULTING ENGINEERS

### WATER PIPE SPECIFICATION LONGNEWTON, HADDINGTON

То:	Gap Developments	From:	N. Henderson
Report Ref. No:	E8395	Date:	April, 2008
Site:	Longnewton, Nr. Hadding	ion	

### SITE INVESTIGATION REPORT:

 Site Investigation Report, Longnewton, Nr. Haddington. David R. Murray & Associates Report No: E8538, April 2008.

### SUITABILITY OF MATERIALS:

The potential environmental risk associated with the above site is not considered to be significant based on review of an intrusive investigation report relating to the site.

#### Water Mains:

Based on the site investigation information and with reference to WRAS guidance the use of MDPE is recommended for mains pipe laid on the site – frenches should be bedded and backfilled with imported granular materials.

### Service Pipe-Work:

The use of MDPL is also recommended for service pipe-work laid on the site based upon site investigation information and with reference to WRAS guidance. Trenches should be bedded and backfilled with imported granular materials.

### POTENTIAL HAZARDS TO CONTRACTORS LAYING MAINS/SERVICES:

Based on the information available, the site has only ever been used as a farm steading. Elevated arsenic concentrations were contaminant concentrations are however present locally within both natural soils and made ground and must be indicative of background levels. These will, however, necessitate the use of soil capping layers on landscaped and garden areas on the finished development.

# DAVID R. MURRAY AND ASSOCIATES CONSULTING ENGINEERS

Concentrations of arsenic in soils exceed WRAS guidelines which are more conservative than CLEA health tisk guidelines. The results of leachate analysis confirm however that arsenic is not capable of being leached from the soil matrix at concentrations in excess of either EQS assessment levels (50ug/l) or guidelines for drinking water standards (10ug/l)

Based upon the foregoing and as long as water pipes are placed in trenches backfilled with imported granular materials we would consider that standard HDPE and MDPE pipework would be suitable for water supply pipes.

Contractors and utility personnel working on the site should observe health and safety measures normally applied for working on building sites and should wear suitable protective clothing (gloves, boots and overalls etc.).

Where any doubts exist over the selection of suitable PPE or its use, advice should be sought from relevant H&S and technical advisors. Contractors should be vigilant and aware and report any unusual illness, odours, appearance or event.

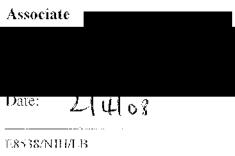
### SUITABILITY OF GROUND CONDITIONS:

Historical evidence relating to the site indicated that it has remained in constant agricultural use, although some localised made ground is present. Site investigation works have revealed the presence of locally elevated arsenic concentrations in both made ground and natural soil horizons.

Water services pipework should be laid in trenches backfilled with imported granular materials.

Written & Reviewed By:

### Nick Henderson



DAVID R MURRAY & ASSOCIATES CONSULTING ENGINEERS 150 ST JOHN'S ROAD EDINBURGI EHH2 8AY

2 April 2008

# **OFFICER REPORT**

# 3rd October 2019

App No. 18/00421/PApplication registered on 5th June 2018Target Date 4th August 2018

37
Y
N
N

APPLICANT: Mr & Mrs Bill Whiteford

Is this application to be approved as a departure from structure/local plan? N

c/o Ferguson Planning Shiel House 54 Island Street Galashiels TD1 1NU

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DECISION TYPE:

**Application Refused** 

## PLANNING ASSESSMENT

This application relates to a group of redundant steading buildings known as Longnewton Steading, which is in a countryside location at Longnewton, south of Gifford. The steading buildings are situated alongside Longnewton Farmhouse on the north side of the classified C92 public road. They are otherwise bounded by agricultural land and farm access tracks. There are several other houses nearby including Longnewton Farmhouse (in separate ownership) immediately to the east of the steading buildings. The steading buildings are not listed as being of special architectural or historic interest and are not within a conservation area. The site is in the countryside as defined by Policy DC1 of the adopted East Lothian Local Development Plan 2018 and is also within the 'Lammer Law, Hopes to Yester: Special Landscape Area 3' as identified within supplementary planning guidance to the Local Development Plan on Special Landscape Areas.

In 2007 planning permission (reference: 07/00288/FUL) was sought for the conversion of the whole group of original steading buildings on the site to a total of 14 houses, for the erection of a car port building, which would contain within it 26 car parking spaces, for the formation of another 9 car parking spaces, and for the erection of new boundary enclosures and bin stores and the formation of hard standing areas. In December 2008 it was decided through the Council's Scheme of Delegation that planning permission would be granted for the

development proposed in planning application 07/00288/FUL subject to conditions and the satisfactory conclusion of a Section 75 Agreement designed to (i) secure from the applicant a financial contribution to the Council of £22,330 towards the provision of additional secondary school accommodation at Knox Academy, Haddington and (ii) secure from the applicant an affordable housing commuted sum payment of a value equivalent to the cost of providing a percentage affordable housing requirement for the development of 25% of 14 houses in lieu of an on or off-site affordable housing provision. That Section 75 agreement has not been concluded by the applicant and/or any other relevant party and therefore, to date, planning application 07/00288/FUL has not been granted.

Planning permission is now sought for an alternative scheme involving the conversion of some of the existing steading buildings to form 3 houses and a carport, for the erection of 6 new build houses on the site and for associated works.

The existing buildings on the site generally consist of 5 main groups of buildings which can be described as: (i) Block A - a detached, stone constructed 1 1/2 storey traditional building (formerly a grain store) with arched cartshed openings with a more modern steel framed lean to structure attached to its north elevation. This building is situated on the southern part of the site close of the roadside edge of the site; (ii) Block B - a large, detached, modern steel portal shed, This building is situated near the southwestern corner of the site close to the roadside edge of the site; (iii) Block C - a detached, traditional, stone constructed single storey building currently used for the stabling of horses with a larger, part stone and part steel portal shed attached to its west elevation. This building is situated close to the northwestern corner of the site; (iv) Block D - a roughly U shaped, altered and extended group of traditional stone built, single to storey and a half, steading buildings consisting of north, east and west ranges with an internal courtyard which has been altered and infilled with cattle courts structures. This group of buildings takes up much of the centre and eastern ends of the site, and (v) Block E - a group of buildings including a stone built former byre, cattle courts and additions. This grouping of buildings attaches to the northwest corner of the central U shaped steading and extends northwards to the norther part of the site. All of the buildings, with the exception of the more modern steel portal additions, are of stone construction. Roofs are pitched and clad in natural slate, pantiles or more modern profiled roofing materials.

It is intended to demolish the majority of the buildings from the site including the modern steel portal shed (Block B), the steel framed lean to attached to Block A, the whole of Block C, all of the courtyard buildings and structures in the centre of Block D and the northwest corner of the ranges of Block D and all of the buildings comprising Block E. The demolition

of these buildings and structures does not require planning permission.

Following demolition of the aforementioned buildings and structures it is proposed to redevelop the site to include the following works:

• The conversion and external alteration of the building referred to as Block A into a single house;

• The conversion, external alteration and extension of what would remain of the U shaped steading buildings of Block D into 3 houses (2 through conversion and 1 through an extension of the building which would reinstate an existing part of the building);

• The erection of 2 semi-detached, two storey houses on the site of the existing modern steel portal shed;

• The erection of 3 detached, two storey houses on the site of the existing buildings of Block C and E which are intended for demolition.

As such the proposal would involve the creation of three dwellings primarily through conversion and six as new build (1 of which would be a reinstatement of part of the existing steading group).

The site of the steading buildings is currently served by two vehicular accesses from the C92 public road which lies to the south of the site. It is proposed that the westernmost of these accesses would be altered and improved to serve as the principle vehicular access for the proposed residential units to be formed on the site. The easternmost access would be retained to continue to service the neighbouring residential property of Longnewton Farmhouse which lies immediately to the east of the steading site and also to provide pedestrian access to the proposed residential units of the steading site and beyond to the agricultural fields. Car parking provision and other hardstanding areas would be formed throughout the site and new boundary enclosures, including dry stone walls, would be erected throughout the site.

Additional information submitted in support of the application includes:

- A Design and Access Statement;
- A Steading Structural Condition Report;
- A Planning Statement;

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- An Extended Phase 1 Habitat Survey & Physical Bat Survey;
- Site Investigation Reports.

Section 25 of the Town and Country Planning (Scotland) Act 1997 requires that the application be determined in accordance with the development plan, unless material considerations indicate otherwise.

The development plan is the approved South East Scotland Strategic Development Plan (SESplan) and the adopted East Lothian Local Development Plan 2018 (ELLDP) together with its adopted supplementary guidance.

The purpose of the approved South East Scotland Strategic Development Plan (SESplan) is to set out the strategic planning framework to assist preparation of local development plans. Its policies are generally not relevant for assessing individual planning applications.

Relevant to the determination of the application are Policies DC1 (Rural Diversification), DC2 (Conversion of Rural Buildings to Housing), DC4 (New Build Housing in the Countryside), DC5 (Housing as Enabling Development), DC9 (Special Landscape Areas), DP1 (Landscape Character), DP2 (Design), DP5 (Extensions and Alterations to Existing Buildings), HOU2 (Maintaining an Adequate 5 year Effective Housing Land Supply), HOU3 (Affordable Housing Quota), HOU4 (Affordable Housing Tenure Mix), NH5 (Biodiversity and Geodiversity Interests, including Nationally Protected Species), CH4 (Scheduled Monuments and Archaeological Sites), T1 (Development Location and Accessibility), T2 (General Transport Impact) and DEL1 (Infrastructure and Facilities Provision) and Proposal PROP ED5 (Haddington Cluster Education Proposals) of the adopted ELLDP.

Material to the determination of the application is the Council's Supplementary Planning Guidance (SPG) on Special Landscape Areas and the Council's SPG on Farm Steading Design Guidance. Nineteen areas within East Lothian are designated as Special Landscape Areas and the supplementary planning guidance on Special Landscape Areas identifies the boundaries of these areas, describes each Special Landscape Area and includes a Statement of Importance for each. Development should accord with this supplementary planning guidance. The SPG describes the character of the 'Lammer Law, Hopes to Yester: Special Landscape Area 3' as being a contrasting, complex and diverse landscape of high scenic and sensory value also providing a coherent area of important prehistoric settlement. It states that the area has sparse built development. Settlement is confined to the lower slopes of the hillfoots set along the narrow lanes with high hedges typical of the area. There are a number of large farmsteads with old farmhouses including Newlands and Castlemains. These often have small terraces of cottages set at along the roadsides originally as farm workers cottages. These can be particularly attractive such as the row at Longnewton where colour has been used to contrast with the surrounding natural green and gold colours of the fields.

The overarching aim of the Farm Steading Design Guidance SPG is to encourage new uses for redundant rural buildings in the East Lothian countryside and to ensure that the conversion and restoration retains the architectural and historic characteristics of the existing building and ensures that the building continues to look like a vernacular building that belongs in the East Lothian countryside.

Material to the determination of this application is Scottish Planning Policy: June 2014.

A further material consideration is Planning Advice Note 67: Housing Quality. It states that the planning process has an essential role to play in ensuring that the design of new housing reflects a full understanding of its context in terms of its physical location and market conditions, reinforces local and Scottish identity, and is integrated into the movement and settlement patterns of the wider area. The creation of good places requires careful attention to detailed aspects of layout and movement. Developers should think about the qualities and the characteristics of places and not consider sites in isolation. New housing should take account of the wider context and be integrated into its wider neighbourhood. The quality of development can be spoilt by poor attention to detail. The development of a quality place requires careful consideration, not only to layout and its setting, but also to detailed design, including finishes and materials. The development should reflect its setting, reflecting local forms of building and materials. The aim should be to have houses looking different without detracting from any sense of unity and coherence for the development or the wider neighbourhood.

Also material to the determination of the application are the written representations received to it. One written objection has been received to the application. The grounds of objection are that:

\* The proposal will have a harmful impact on the private water supply serving the area which at present suffers from overuse and poor water pressure;

\* The single track roads in the area can't cope with the volume of traffic that uses them at present – any additional traffic will only result in even poorer road conditions, damaged verges and potential accidents;

\* Additional properties in this quiet rural farming location will completely spoil the area, with increased volume of vehicles, insufficient amenities to cope with additional houses and encroachment on the rural farming way of life.

Connecting to a private water supply is a matter for the developer to take responsibility over and is not a matter which is controlled through planning legislation.

Gifford Community Council have been consulted on the application but have not provided a consultation response.

The planning history of the site is also a material consideration.

The appropriate conversion of rural buildings to housing is supported in principle by Policy DC2 of the ELLDP. Policy DC2 supports in principle conversion of appropriate buildings in the countryside to residential use where (i) the existing building is worthy of retention by virtue of its architectural or historic character; (ii) the building is physically suitable for the proposed use and any extensions or alterations are compatible with and do not harm any significant architectural or historic features of the building and are in keeping with its size, form, scale, proportion, massing and architectural character; and (iii) the building stands substantially intact (normally to at least wallhead height) and requires no significant demolition. To be satisfied that the existing structure is suitable for the conversion without significant demolition the Council must be provided with credible evidence of the building's structural stability at the time of the planning application. In the case of a farm steading conversion, Policy DC2 makes allowance for a limited amount of new building where it reinstates a part of the original steading group demolished or altered by later development alien to its character and appearance, where there is clear physical and/or historic evidence of the original form; or b) it is a logical extension to an existing part of the steading that would provide a completeness to the steading's overall composition that is in keeping with its scale, form and character.

Through the assessment of planning application 07/00288/FUL it has been established that the stone steading buildings of Longnewton Steading have some architectural merit, make a positive contribution to the rural landscape and built heritage of the area and lend themselves to a sensitive residential conversion. Through that application it was satisfactorily demonstrated to the Council as Planning Authority that the development proposed was consistent with the presumption in favour of the conversion of agricultural buildings in the countryside to houses contained in the then applicable development plan and with national planning policy on housing development in the countryside. The assessment of that application was that the proposed conversion would not harm the character and appearance of the existing buildings or the landscape of the area, or harm the amenity of neighbouring residential properties. The Council as Planning Authority remain minded to grant planning application 07/00288/FUL subject to conditions and the satisfactory conclusion of a Section 75 Agreement designed to secure from the applicant education and affordable housing contributions however the applicant has not, to date, pursued the conclusion of a Section 75 Agreement.

Although some parts of the group of existing buildings have continued to be used for limited agricultural purposes or for the keeping of horses they are, by their historic architectural form no longer reasonably capable of modern agricultural use. The steading buildings are highly visible in their landscape setting and are part of the historic form and character of this part of

the East Lothian countryside. Other than the more modern, utilitarian additions to the group, the buildings have some architectural merit and make a positive contribution to the rural landscape and built heritage of the area. Although in the main they are substantially intact, some of the steading buildings are suffering from disrepair, giving an appearance that is somewhat detracting from the amenity of the area. If left unused, or only put to limited use, they would be likely to fall into a further state of disrepair with a greater harmful affect on the appearance and amenity of the area.

The applicant has submitted a Structural Engineer's report which sets out the condition of the existing buildings and their suitability for conversion, or otherwise, from a structural perspective. The report identifies the parts of the steading considered to be worthy of retention and capable of conversion without substantial demolition. These are Block A, the stable block of Block C (excluding the part stone and part steel portal shed attached to it), and parts of Block D. The applicant's consultant Structural Engineer does not consider the stone buildings of Block E to be suitable for conversion. Whilst the Structural Engineer deems the building of Block C to be physically capable of conversion, the applicant's Planning Consultant considers it would likely be affected by the removal of the attached elements to the west. Furthermore he considers in order to establish a viable development, and prevent loss (through further deterioration) of the attractive traditional buildings with heritage value, it is essential to integrate three sensitively designed new build dwellings into the proposal, located within the area where the building of Block C currently lies.

The Council's consultant Structural Engineer has been consulted and advises that he considers that the buildings proposed for conversion should be capable of conversion without significant demolition and rebuilding of them. He considers the stable building of Block C to be structurally sound and capable of conversion and does not consider that such work would necessarily be onerous or complex. He considers the stone buildings of Block E to be in a poorer state structurally but although he advises the condition of the roof structure and its finishes is not good, he advises that a development strategy that retains at least the existing walls would be feasible from a structural point of view. However he does point out that the extent of repairs and the complexity of those repairs for those buildings of Block E in terms of execution is likely to be onerous and costly.

On the basis of the assessments of both the applicant's and the Council's Structural Engineers it can be concluded that at the least, the building of Block A, part of Block C and parts of Block D are suitable for restoration and conversion.

The stone steading buildings lend themselves to a sensitive residential conversion and the detailed proposals of planning application 07/00288/FUL demonstrate that this could be achieved. The proposals in this latest application for the conversion of the building described earlier in this report as Block A and the conversion along with the partial rebuilding of the buildings of Block D to create a total of 4 residential units are, subject to controls being exercised over details of the conversion and rebuilding including architectural detailing and the materials to be used, also consistent with the presumption in favour of the conversion of agricultural buildings in the countryside to houses contained in the current adopted ELLDP and the conversion and part rebuilding of those parts of the steading group would not harm the character and appearance of the existing buildings or the landscape of the area. The proposals overall would not harm the amenity of neighbouring residential properties and the occupants of the new residential properties to be created through this proposal would also enjoy sufficient residential amenity.

However, as well as the conversion and partial rebuilding of some of the existing buildings as described above to create 4 houses, what is additionally proposed in this latest application is demolition of the majority of the steading buildings and the erection of 5 new houses in a very different form to that which currently exists on the site. It is proposed that 3 of those houses would take the form of two storey, detached houses and 2 would take the form of two storey, semi-detached houses.

The applicants have submitted a Planning Statement to support the proposals. It states that despite significant marketing efforts, no significant interest has been intimated in the site, based upon the scheme the subject of planning application 07/00288/FUL. The applicants Planning Consultant considers this to be principally due to the costs involved in a conversion-only project and lack of demand for the type and layout of properties which are proposed through that previous planning application. The Planning Statement advises that the rural market seeks larger dwellings with ample private garden area. It is stated that this new proposal aims to secure a long-term viable future use for key buildings which retain the most historic and architectural value, and which are located towards the front of the site so that the proposed scheme retains its 'steading feel' as experienced from the key receptor (the public road).

The Planning Statement submitted with this application was written prior to the ELLDP being adopted and in the Statement the applicants Planning Consultant draws attention to the previous local plan policies being out of date and there being a shortfall in the five year supply of effective housing land as being material considerations in the determination of this planning application. As well as setting out property market considerations, the Planning Statement also considers the economics of the development and states that the development, without the new build units, is not a viable proposition. It states that if the viability of the overall development cannot be secured through the inclusion of proposed 'enabling' housing units then the steading site will remain vacant and disused. An indicative viability assessment has been prepared and provided by the applicant's Planning Consultant and he has requested that this be treated as a confidential document.

In assessing the new build elements of this proposal it is relevant to consider that the application site is in a countryside location within East Lothian. It is not identified in the ELLDP as being within a settlement and the ELLDP does not allocate the land of the site for housing development. Consequently, the principle of a housing development on the application site must be assessed against national, strategic and local planning policy relating to the control of new housing development in the countryside.

In Paragraph 76 of Scottish Planning Policy: June 2014 it is stated that Local Development Plans should make provision for most new urban development to take place within or in planned extensions to existing settlements. Paragraph 81 states that in accessible or pressured rural areas, where there is a danger of unsustainable growth in long distance car based commuting or suburbanisation of the countryside, a more restrictive approach to new housing development is appropriate.

By being within the countryside the application site is covered by Policy DC1 of the ELLDP. Policy DC4 of the ELLDP deals specifically with new build housing in the countryside. Policy DC1 states that development in the countryside, including changes of use or conversion of existing buildings, will be supported in principle where it is for: a) agriculture, horticulture, forestry, infrastructure or countryside recreation; or b) other businesses that have an operational requirement for a countryside location, including tourism and leisure uses. Policy DC4 sets out specific criteria for new build housing development in the countryside. In relation to small scale housing proposals is states that outwith the constrained coast these will only be supported where there is no existing building suitable for conversion and it is for affordable housing and evidence of need is provided, and the registered affordable housing provider will ensure that the dwellings will remain affordable for the longer term. Proposals should be very small scale and form a logical addition to an existing small-scale rural settlement identified by the ELLDP.

The building of the three detached houses and two semi-detached houses on the application site would constitute sporadic development in the countryside. There is no agricultural or other employment use presently in operation to justify the need for any new houses on the application site. The applicant has not advanced any such case of justification of need for the principle of the proposed housing development. The applicant has not advanced a case that the proposed development would be an affordable housing scheme brought forward along with a Registered affordable housing provider or provided evidence of need for an affordable housing scheme. In the absence of any such direct operational requirement or justified supporting case for the erection of houses within the application site, the principle of such proposed development on the site is inconsistent with national, strategic and local planning policy and guidance concerning the control of development of new build houses in the countryside. Specifically, the proposal to erect these houses on the site is in principle contrary to Policies DC1 and DC4 of the ELLDP and Scottish Government policy guidance regarding the control of new housing development in the countryside given in Scottish Planning Policy: June 2014.

If approved the proposed development would set an undesirable precedent for the development of new houses anywhere in the East Lothian countryside the cumulative effects of which would result in a detrimental impact on the rural character and amenity of the countryside of East Lothian.

It is however necessary to assess whether or not there are material considerations that outweigh the proposal's conflict with the development plan.

In respect of the applicant's Planning Statement, the Council's 2018 Housing Land Audit has been agreed with Homes for Scotland. Based on that up to date 2018 Housing Land Audit, the Council is able to demonstrate an adequate 5 years supply of effective housing land.

Turning to the viability of the development the applicant's agent has submitted an 'Indicative Viability Appraisal' which he describes as being "high level and indicative". It sets out the anticipated sales revenue of the 9 units to be created on the site and the anticipated development costs of new build, conversion, demolition, utilities and landscaping costs, professional fees and local authority fees, sales and marketing costs, finance and developer contribution costs. Based on this high level and indicative appraisal the applicant's agent concludes that new build development is crucial in securing a (marginally) viable site and to ensure retention of former steading buildings. He therefore suggests that the new building housing should be considered as enabling development.

Policy DC5 of the ELLDP allows, only in exceptional circumstances, for new build housing in the countryside to be supported as enabling development where the benefits of the

proposed development outweigh the normal presumption against new build housing in the countryside. Enabling housing development may be supported if it funds the restoration of a building with recognised heritage value, the retention of which is desirable. Any justifiable new build must be located on the same site as and be part of the main proposal and must also protect or enhance the setting of the buildings of value. The feature to be retained must be either a listed building or a significant designated feature of the built or natural environment, or a building with recognised heritage value. The policy states that enabling development will only be acceptable where it can be clearly demonstrated to be the only means of preventing loss of the asset and securing its long-term future.

The historic stone built steading buildings the subject of this application are not listed buildings nor designated in themselves in another way, though they do lie within a Special Landscape Area. They are however buildings of a historic architectural form which make a positive contribution to the rural landscape and built heritage of the area and as such their retention is desirable. The proposed new build development is on the same site as and is part of the main proposals and in this respect accords with Policy DC5. However it is important to note that Policy DC5 only allows, in exceptional circumstances, for new building housing in the countryside to be supported as enabling development where the benefits of the proposed development outweighs the normal presumption against new build housing in the countryside and only where it can be clearly demonstrated to be the only means of preventing loss of the asset and securing its long term future.

In its indicative form the applicant's Indicative Viability Appraisal does not clearly demonstrate how the proposals would fund the restoration of the steading buildings as opposed to conversion and/or extension of all, or at least more of, the steading group. It does not set out costs for alternative schemes, such as the retention of more or all of the group of historic steading buildings or demonstrate that this proposal is the only means of preventing loss of the steading buildings. It does not set out proposals for securing the long term future of the historic steading buildings. The applicant considers the new building housing to be essential to enable the restoration of the historic buildings but as the majority of the historic buildings, including some which have been considered by both the applicant's and the Council's consultant Structural Engineers to be structurally sound, are proposed to be demolished to make way for the new build houses the applicant's argument that the proposed new build development is the only means of preventing the loss of the historic buildings proposal fails to be demonstrated through this application. On the contrary this proposal would result in the loss and not the retention of the majority of the buildings of heritage value and as such the proposed new build houses do not constitute an acceptable enabling development. In conclusion it has not been demonstrated that the new build housing proposed in this application is the only means of preventing the loss of historic buildings making a positive contribution to the rural landscape and built heritage of the area and indeed, on the contrary, the new build housing proposed in this application would, by its proposed siting, result in the loss of historic buildings which would lend themselves to a positive conversion to housing. The erection of the proposed three detached and two semidetached houses within the application site is also contrary to Policy DC5 of the ELLDP.

Turning to the design of the new build houses it should be noted that the applicant has submitted a design and access statement to support the proposals. In relation to the new build development it states that the proposals aim to retain the valuable historic core of the steadings whilst removing the lesser quality structures to allow high quality contemporary new build structures aimed to retain the farm steading massing as well as complement the retained structures.

Other than the extension to what would remain of the U shaped steading buildings of Block D to create a new house to reinstate an existing part of the building, the new build housing development would take the form of three, two storey detached houses (units 4, 5 and 6 as described in the application drawings) and two semi-detached houses (units 2 and 3 as described in the application drawings). These new build units would have a modern style of architecture which would incorporate large areas of glazing, flat roofed elements to the detached houses and a wide variety of finishes which would include timber cladding, off white render, stone, slate and zinc finishes.

The Council's Landscape Projects Officer advises that the conversion proposals for Block A and the U shaped buildings of Block D would fit with the existing arrangement of buildings and generally maintain the historic buildings format and character of the area. However he considers the remainder of the proposals (the new buildings of units 2, 3, 4, 5 and 6) to be inconsistent with the steading arrangement and historic character. He considers the extent of fenestration is extensive and not in character with the historical styling of the existing, simpler fenestration of the historic buildings on the site. He advises that the new detached houses will dominate east bound views from the west and would modernise and significantly change the built and landscape character of this area.

The proposed detached and semi-detached houses of this proposal would not, by virtue of their form, architectural detailing, fenestration or materials be well integrated into their surroundings and would not be in keeping with the original buildings on the site. They would significantly alter the contribution the steading makes to the character of this part of the East Lothian countryside and would be harmful to the character and appearance of the area including the special character of the Special Landscape Area. On these counts the proposed detached and semi-detached houses would be contrary to Policies DC9, DP1 and DP2 of the ELLDP, to the Council's Supplementary Planning Guidance on Special Landscape Areas and on Farm Steading Design Guidance and with Government advice on the design of new housing development in the countryside given in Planning Advice Note 72..

In relation to soft landscaping the Council's Landscape Projects Officer advises that landscape treatment in the form of tree planting to the site boundaries is supported but should not be seen as screening/hiding the site. Any planting should be designed along with the building architecture to enhance the site as a whole and to integrate the site sensitively with its wider surroundings. If planning permission were to be granted for the proposed development a condition could be imposed to secure a scheme of landscaping for the site.

The hard landscaping works proposed and the proposed new boundary treatments would not appear intrusive, incongruous or exposed in their landscape setting.

The Council's Planning Policy and Strategy Manager recommends that planning permission be refused if the proposals are found to not comply with Policies DC1, DC2, DC5 or any other relevant design policies of the ELLDP as appropriate and subject to the outcome of any independent assessment of the viability of the proposals that justify any enabling development. In his consultation response to planning application 07/00288/FUL which relates to the same buildings as this latest application does, the Council's Heritage Officer informed that Longnewton Steading is a historic steading dating back to the 18th century. Because of the age and importance of the buildings he advised that some level of recording of them prior to their conversion is important. Therefore, the Heritage Officer considered it essential that a programme of archaeological works (historic building survey) should be carried out at the site by a professional archaeologist. Such a programme of archaeological works has not yet been carried out and therefore it would be prudent to again secure this through a condition if planning permission were to be granted for the proposed development. This approach is consistent with Government guidance given in Scottish Planning Policy, with Planning Advice Note 42: Archaeology and Policy CH4 of the ELLDP.

An Ecological Report has been submitted with the application which sets out the findings of an extended Phase 1 Habitat Survey and a physical bat survey which was undertaken on behalf of the applicant in February 2018. The Council's Biodiversity Officer having considered the proposals and the submitted 'Extended Phase 1 Habitat Survey & Physical Bat Survey' Report raises no objection to this application, satisfied the proposal would not have a harmful impact on existing wildlife or on the biodiversity of the area. The proposals are therefore compliant with Policy NH5 of the ELLDP which generally presumes against new development that would have an unacceptable impact on the biodiversity of an area.

The Council's Environmental Health Service Manager, in relation to considerations of contaminated land issues, advises that he has reviewed the Site Investigation Report as prepared by DRM Associates on behalf of the applicant and can confirm that the investigation and assessment has been carried out according to the required guidance and standards. He is satisfied with the risk assessments carried out for soil, gas and groundwater contamination and concurs with the findings that certain remedial measures will be required including:

- A suitable cover layer to be placed in any private garden areas to mitigate the elevated concentrations of arsenic and lead found within the made ground;
- Asbestos roofing materials to be removed by a licensed contractor;
- Radon protection measures may be required, however, a site specific radon report will be required to confirm this.

The Council's Environmental Health Service Manager advises, that taking account of the historic uses of the site and the possibility of associated contamination issues, a condition should be attached if planning permission is to be granted requiring that a Remedial Strategy be submitted, detailing the exact nature of the works to be carried out. Upon completion of these remedial measures, a Validation Report will be required to be submitted showing that the remedial works have been suitably carried out. This requirement could be secured through a condition if planning permission were to be granted for the proposed development.

The Council's Environmental Health Service Manager has no other comments to make on the application. Although not commented on by the Council's Environmental Health Service Manager, it would be prudent, if planning permission were to be granted, to ensure that a condition be imposed requiring the agricultural buildings on the site which are not proposed for conversion to be removed prior to occupation of any of the proposed houses to ensure there would be no conflict between the agricultural use and the residential use which would be harmful to the occupants of the houses to be created.

The Council's Road Services raise no objections to the detail of layout of the proposed development, of the site accesses from the main public road, of parking provision as detailed in the site layout plans or of the likely impacts of additional traffic generation on the existing road network. Road Services recommend that the access and services guidance given in the Farm Steading Design Guidance SPG be followed and that the following requirements be met through conditions if planning permission is to be granted for the proposed development:

1. The western access junction shall have 7.5 metre corner radii on either side of the access junction from the public road;

2. The western access road shall have a minimum visibility splay of at least 2.5 metres by 160 metres in both directions so that no obstruction lies within it above a height of 1.05 metres measured from the adjacent carriageway surface.

3. The standard of access road construction shall allow for a pothole and water-free route and allow passage of refuse collection and emergency vehicles.

- 4. Full residential parking provision standards shall be applied.
- 5. All services shall be provided underground or otherwise concealed where practicable.

These requirements could be secured through a condition if planning permission were to be granted for the proposed development. Subject to such controls the proposal would not conflict with Policies T1 and T2 of the ELLDP

The Council's Waste Services advise that Longnewton refuse/recycling containers are currently serviced from the main road. Waste Services raise no objections to the proposals but they advise that if the applicant proposes that refuse/recycling containers be collected from within the site they would have to provide Waste Services with a swept path layout of the site to determine if it's suitable for turning a 26t RCV otherwise Waste Services would continue to service the site from the main road.

Scottish Water have been consulted on this application. They confirm that they have no objections to the proposals and have provided an advisory note for the applicant's information.

Policy DEL1 of the ELLDP stipulates that new housing will only be permitted where appropriate provision for infrastructure and community facilities, required as a consequence of the development, is made. Policy T32 of the ELLDP specifically relates to the package of transportation interventions to mitigate the cumulative impact of development on the transport network which have been identified by the Council in consultation with Transport Scotland. PROP CF1 of the ELLDP specifically relates to the provision of new sports pitches and changing accommodation. In line with Policy DEL1, relevant developments are required to contribute to the delivery of these transportation interventions and community facilities., on a proportionate, cumulative pro-rata basis, as set out in Developer Contributions Framework Supplementary Guidance.

The Council's Planning Obligations Officer advises that as this proposal relates to land not allocated for development through the ELLDP its impacts and contributions have not been identified through the LDP and Developer Contributions Framework Supplementary Guidance transport appraisal process. He advises that given the small scale of the development, it's distance from other allocated and assessed LDP sites and from existing sporting facilities, the lack of a cumulative transport assessment and that the likely value of the contributions are likely to be so small as to not be operationally cost effective to establish

and monitor them in a Section 75 agreement, it is considered that it is not justified to seek cumulative transport or community facility contributions in this instance.

The Council's Depute Chief Executive (Resources and People Services) informs that the application site is located within the school catchment areas of Yester Primary School, Gifford and Knox Academy, Haddington.

He advises that Yester Primary School will have sufficient capacity to accommodate children that could arise from the proposed development, however he also advises that Knox Academy would not have sufficient capacity to accommodate children that could arise from the proposed development. Therefore he objects to the application on the grounds of lack of permanent capacity at Knox Academy. However, he would withdraw that objection provided the applicant makes a financial contribution to the Council of £52,335 towards the provision of additional school accommodation at Knox Academy.

The required payment of a financial contribution of a total of £52,335 towards the provision of additional accommodation at Knox Academy can be secured through an Agreement under Section 75 of the Town and Country Planning (Scotland) Act 1997 or by some other appropriate agreement. The basis of this is consistent with the tests of a planning agreement set in Planning Circular 3/2012: Planning Obligations and Good Neighbour Agreements. Subject to the payment of the required contribution towards educational accommodation the proposal is consistent with Policy DEL1 of the ELLDP which stipulates that new housing will only be permitted where appropriate provision for infrastructure required as a consequence of the development is made.

Subject to the payment of the required contribution towards education provision the proposal is consistent with Policy DEL1 and Proposal PROP ED5 of the ELLDP.

The Council's Economic Development & Strategic Investment Manager advises that a grant of planning permission would require to be subject to provision of 25% of all housing units to be developed as affordable housing. They should be provided on site or if it can be demonstrated to the Council that this, or the off-site provision of the required affordable units is not practicable, a commuted sum payment should be made to the Council in lieu of such an on or off-site provision. The terms for the provision of this affordable housing requirement could be the subject of an agreement under Section 75 of the Town and Country Planning (Scotland) Act 1997. The basis of this is consistent with the tests of a planning agreement set in Planning Circular 3/2012: Planning Obligations and Good Neighbour Agreements. Subject to the Council securing the affordable housing requirement the proposal would be consistent with Policies HOU3 and HOU4 of the ELLDP.

At its meeting on Tuesday 27th August 2019 the Council approved a motion declaring a Climate Emergency. Thereafter, at its meeting on Tuesday 3rd September 2019 the Council's Planning Committee decided that a condition requiring a developer to submit for the approval of the Planning Authority a report on the actions to be taken to reduce the carbon emissions from the building and from the completed development should be imposed on all applications for planning permission except Section 42 applications, householder applications, design changes, changes of use, non householder alterations and extensions, or where it is not considered reasonable by the Planning Officer. As this application is, in part, for new build development such a condition should be imposed if planning permission were to be granted for this proposed development.

Notwithstanding the above technical considerations, it is concluded that there are no material considerations which outweigh the assessment set out previously in this report that the new build housing development proposed in this application is not required to contribute towards an effective five year housing land supply, would constitute sporadic housing development in the countryside, would not be acceptable enabling development of a type only allowed in exceptional circumstances to fund the restoration of a building with recognised heritage value, or other significant designated feature of the built or natural environment, the retention of which is desirable and would not be acceptable on design terms. The proposals are therefore contrary to Policies DC1, DC4, DC5, DC9, DP1 and DP2 of the adopted East Lothian Local Development Plan 2018 and it supplementary planning guidance and thus also contrary to Scottish Government policy guidance regarding the control of new housing development in the countryside given in Scottish Planning Policy: June 2014 and Planning Advice Note 72.

# **REASONS FOR REFUSAL:**

- 1 The three detached and two semi-detached new build houses proposed would be sporadic new build housing development in the countryside of East Lothian for which a need to meet the operational requirements of an agricultural, horticultural, forestry or other employment use has not been demonstrated. The three detached and two semi-detached new building houses proposed are therefore contrary to Policies DC1 and DC4 of the adopted East Lothian Local Development Plan 2018, and Scottish Government policy guidance regarding the control of new housing development in the countryside given in Scottish Planning Policy: June 2014.
- If approved the proposed development would set an undesirable precedent for the development of new houses elsewhere in the East Lothian countryside. the cumulative effect of which would result in a detrimental impact on the rural character and amenity of the countryside of East Lothian.
- 3 It is not demonstrated that the new build housing proposed is the only means of preventing the loss of historic buildings making a positive contribution to the rural

landscape and built heritage of the area and, on the contrary, the detached and semidetached housing proposed in this application would, by its proposed siting, result in the loss of historic buildings which would lend themselves to a positive conversion to housing. The erection of the proposed three detached and two semi-detached houses are contrary to Policy DC5 of the adopted East Lothian Local Development Plan 2018.

4 The proposed detached and semi-detached houses would not, by virtue of their form, architectural detailing, fenestration or materials be well integrated into their surroundings and would not be in keeping with the original buildings on the site. They would significantly alter the contribution the steading makes to the character of this part of the East Lothian countryside and would be harmful to the character and appearance of the area including the special character of the Special Landscape Area all contrary to Policies DC9, DP1 and DP2 of the adopted East Lothian Local Development Plan 2018, to the Council's Supplementary Planning Guidance on Special Landscape Areas and on Farm Steading Design Guidance and with Government advice on the design of new housing development in the countryside given in Planning Advice Note 72.

# LETTERS FROM

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3rd October 2019

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