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| Document Title            | East Lothian Local Development Plan 2018 Strategic Flood Risk |
|                           | Assessment                                                    |

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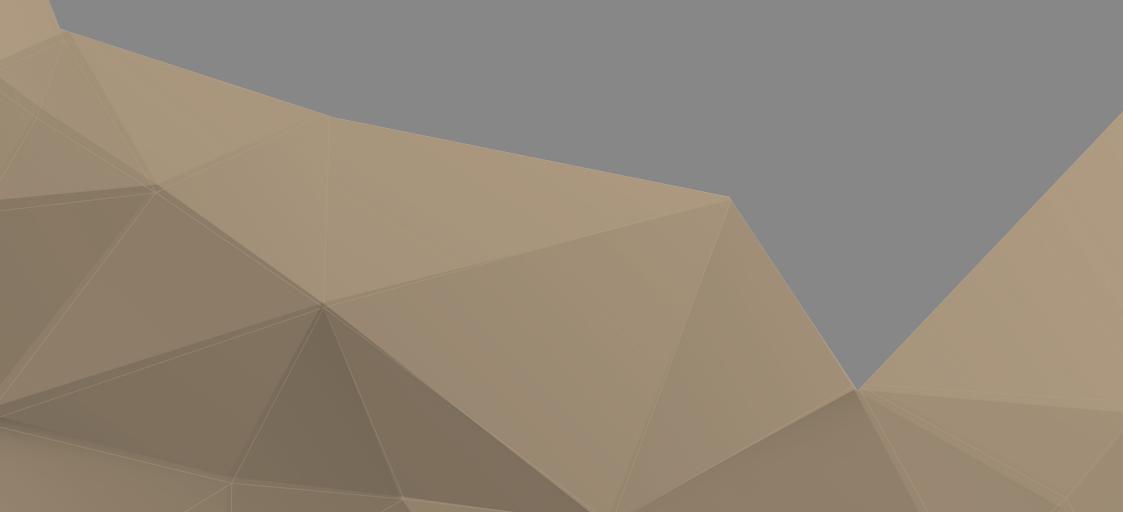
To be read in conjunction with Report to East Lothian Council dated 29 May 2018, titled East Lothian Local Development Plan

| Authorised By | Douglas Proudfoot   |
|---------------|---------------------|
| Designation   | Head of Development |
| Date          | 17/05/18            |

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# local development plan strategic flood risk assessment



#### Introduction

The Strategic Flood Risk Assessment (SFRA) informs the preparation of a Local Development Plan (LDP) for the East Lothian Council area. The assessment collates information on sources of flooding in East Lothian, identifies the key purposes of using this information and makes assessment relevant to the LDP process.

The SFRA is required to provide a strategic overview of flood risk in the LDP area and in this support the identification of the areas most appropriate for development and those that should be safeguarded to secure sustainable flood management. The SFRA has been developed in consultation with the Scottish Environment Protection Agency (SEPA) and the Council's Flooding team.

This version of the SFRA incorporates Annex 1 setting out the recommended post-examination modifications to LDP1.

#### **Aims and Objectives**

The primary aim of the SFRA is to guide development away from areas of flood risk, with due consideration of coastal, fluvial (river) or pluvial (surface water) sources. Its objectives are: identify areas of flood risk based on Scottish Planning Policy's Risk Framework; provide an evidence baseline for the Environmental Assessment to inform the LDP; and to ensure development avoids areas of flood risk and does not result in flooding elsewhere.

#### Legislation

The Flood Risk Management (Scotland) Act 2009 sets in place a statutory framework for delivering a plan-led, catchment based, sustainable and risk-based approach to managing flooding. This includes the preparation of assessments of the likelihood and impacts of flooding, and catchment based plans to address these impacts. Following completion by SEPA of its Flood Risk Management Strategy (FRMS), the Local Flood Risk Management Plan (LFRMP) for the Forth Estuary Local Plan District (FELPD) was published by the Responsible Authorities in the FELPD in June 2016. The LFRMP will identify Objectives and Actions to manage flooding due to coastal, fluvial (river) or pluvial (surface water) sources.

The Flood Hazard Maps published by SEPA provide councils and their planners a good framework indicating areas where flood risk management will either be required, further information sought, or the land will be assessed as not suitable for development. The Flood Risk Management Strategy and the Local Flood Risk Management Plan inform the Development Planning process. This Strategic Flood Risk Assessment provides an overview of flood risk from all sources in East Lothian.

## **Planning Policy**

With regard to the Flood Risk Management (Scotland ) Act 2009 and the Climate Change (Scotland ) Act 2009, the National Planning Framework 3 (NPF3) emphasises the importance of national and local strategies and plans for flood risk management. NPF3 requires that Scottish Planning Policy (SPP) addresses matters of flooding and drainage.

SPP (2014) requires that development is located away from the functional flood plain and from areas of medium to high flood risk. Strategic Flood Risk Assessments should be used to inform choices about the location of development, such as the allocation of sites. LDPs should use the SPP Flood Risk Framework to assess what type of land is suitable for what type of development within areas of differing degrees of flood risk. Table 1 below shows the SPP Risk Framework indicating the return period and probability associated with the river and coastal flooding.

| Little or No Risk | Annual probability of coastal or watercourse flooding is less than 0.1% (1:1000 years)                                                                                                                                                                                                |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | – No constraints due to coastal or watercourse flooding.                                                                                                                                                                                                                              |
| Low to Medium     | Annual probability of coastal or watercourse flooding is between 0.1% and 0.5% (1:1000 to 1:200 years)                                                                                                                                                                                |
| Risk              |                                                                                                                                                                                                                                                                                       |
|                   | <ul> <li>Suitable for most development. A flood risk assessment may be required at the upper end of the probability range (i.e. close to 0.5%), and for essential infrastructure and the most vulnerable uses. Water resistant materials and construction may be required.</li> </ul> |
|                   | - Generally not suitable for civil infrastructure. Where civil infrastructure must be located in these areas or is being substantially extended, it should be designed to be capable of remaining operational and accessible during extreme flood events.                             |

# Medium to High Risk

Annual probability of coastal or watercourse flooding is greater than 0.5% (1:200 years)

May be suitable for:

- residential, institutional, commercial and industrial development within built-up areas provided flood protection measures
  to the appropriate standard already exist and are maintained, are under construction, or are a planned measure in a current
  flood risk management plan;
- essential infrastructure within built-up areas, designed and constructed to remain operational during floods and not impede water flow:
- some recreational, sport, amenity and nature conservation uses, provided appropriate evacuation procedures are in place;
   and
- job-related accommodation, e.g. for caretakers or operational staff.

## Generally **not** suitable for:

- civil infrastructure and the most vulnerable uses;
- additional development in undeveloped and sparsely developed areas, unless a location is essential for operational reasons, e.g. for navigation and water-based recreation, agriculture, transport or utilities infrastructure (which should be designed and constructed to be operational during floods and not impede water flow), and an alternative, lower risk location is not available; and
- new caravan and camping sites.

Where built development is permitted, measures to protect against or manage flood risk will be required and any loss of flood storage capacity mitigated to achieve a neutral or better outcome.

Water-resistant materials and construction should be used where appropriate. Elevated buildings on structures such as stilts are unlikely to be acceptable.

Table 1 Risk Framework (Scottish Planning Policy June 2014)

Further guidance is given in the Scottish Government's online planning advice on flood risk (replacing PAN 69) and SEPA's Land Use Vulnerability Guidance in relation to flood risk.

#### **Local Flood Risk Management Plan**

Several towns and communities in East Lothian have a history of, and continue to be at risk from, flooding. Flooding comes in three main forms: river, surface water, and coastal. River and surface water flooding are caused by heavy rain or snowfall, or snowmelt, while coastal flooding is caused by extreme tides, storm induced waves or sea surges, sometimes in combination with each other. Localised flooding around watercourses can also be caused by blockages such as a build-up of debris, fallen trees, or the deliberate dumping of material.

Other factors include groundwater, sewer surcharging and infrastructure failure can contribute to flooding.

SEPA's National Flood Risk Assessment (NFRA) identified Potentially Vulnerable Areas (PVA) – areas of potentially significant flood risk. The NFRA informed SEPA's Flood Risk Management Strategy (FRMS), which in turn informed the Local Flood Risk Management Plan (LFRMP). The LFRMP considers the PVAs (for East Lothian, Musselburgh, Cockenzie and Port Seton, Longniddry and Prestonpans, Haddington, Dunbar and West Barns) in terms of flooding criteria, including whether or not there are flood protection schemes/works, flood warnings, studies etc. (see Table 4 of Appendix 2). It presents actions for the avoidance and reduction of the risk of flooding to our communities. It includes for Flood Protection Schemes proposed for Musselburgh in respect of flood risk from the River Esk and tidal surges, and for Haddington to reduce flood risk from the River Tyne. Flood risk studies are proposed for other PVAs. A Surface Water Management Plan (SWIMP) will also be produced to set objectives for the management of surface water flood risk and identify the most sustainable actions to achieve this. It will incorporate outputs form Scottish Water's ongoing Integrated Catchment Studies.

Indicative River (fluvial), Coastal and Surface Water Flood Maps

The map overleaf shows the areas in East Lothian identified by SEPA as being at medium to high risk (>0.5% or 1 in 200 years) of fluvial, coastal and surface water flooding.

SEPA's surface water flood mapping is based on combined information from rainfall and sewer model outputs, incorporating data from a national surface water study, a regional surface water study with increased resolution in selected areas and a Scottish Water sewer flooding assessment.

SEPA also advises that where the information was readily available the mapping takes account of flood prevention schemes and coastal defences and the effect that bridges and other structures such as culverts may have on a flood.

Fluvial flood mapping by SEPA has not assessed the risk of flooding from watercourses with catchments of less than 3km2 and the coastal flood mapping does not take account of the potential effects of wave action, funnelling or local bathymetry.

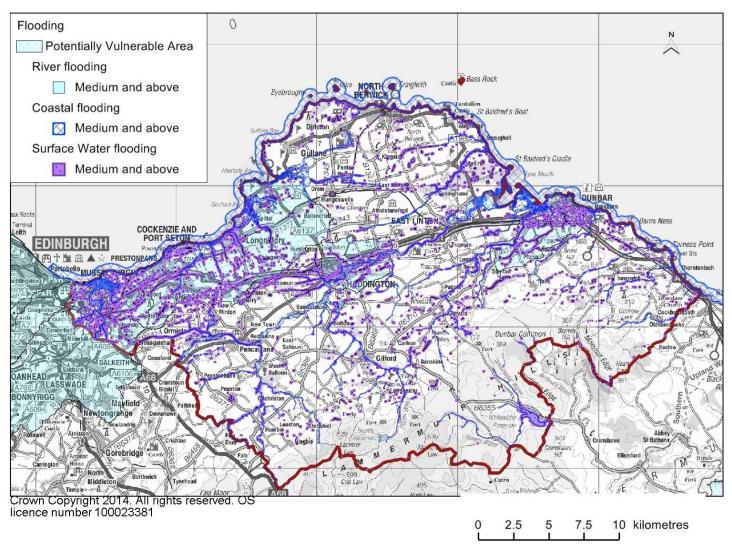


Figure 1: Flood Risk

PVAs are identified by SEPA as areas where the potential impact from flooding is sufficient to justify further assessment and appraisal of Flood Risk Management actions. It is important to note that not all properties within a PVA are at risk of flooding. The PVAs show the areas where flooding is a strategic issue, and aims to help focus work on flood prevention. This information is not appropriate for assessing whether an individual site or property is liable to flooding.

SEPA identified flood risk for each of the PVAs as part of its Flood Risk Management Strategy. Appendix 1 is an extract of the FRMS for the East Lothian PVAs. Appendix 2 is an extract of the LFRMP for the East Lothian PVAs.

#### History

Recognised river flood risk exists in Haddington, Musselburgh and West Barns, from the Tyne, Esk and Biel Burn respectively. River flooding has been a longstanding problem at the Tyne in Haddington, with floods in 1931, 1948, 1956 and 1984 causing considerable damage to land and properties, with property in East Linton also suffering damage. Thin soil levels and a lack of woodland cover in the Lammermuir hills are likely to increase the rate of runoff in the catchment area, increasing the risk of the river flooding. The Biel is also prone to flooding, and the Council has installed stone gabions to reduce the risk of flooding at West Barns. Musselburgh has also suffered flooding from the Esk, affecting low-lying properties near the river. Property alongside watercourses elsewhere is also liable to flooding during periods of high rainfall and properties in Pencaitland and Ormiston have also suffered flood damage in the past.

Coastal flooding has also been a problem. The towns of Musselburgh, Prestonpans, Cockenzie/Port Seton, North Berwick and Dunbar are located on the coast. There were severe winter storms in 2010 and 2012, causing the flooding of harbours with a storm in 2012 causing £90,000 of damage to North Berwick Harbour as sea defences were overtopped and harbour infrastructure damaged. This problem could get worse in the future, as winds from the north east have become more common, increasing the size and power of waves as they arrive onshore. Sea level rise also increases the probability of flooding on the coast.

A key cause of flooding in East Lothian is from surface water runoff from agricultural land. Heavy and intense rainfall during storms can lead to a high degree of surface water runoff, especially when the ground is already saturated, endangering communities and infrastructure. A storm in June 2012 caused extensive problems with the North Berwick railway branch line being closed, as well as a number of roads. Surface water affected Musselburgh, Tranent, Macmerry, Prestonpans and the A1, causing severe disruption to traffic.

High groundwater levels have caused flooding to property basements in east Musselburgh.

Historical development on the floodplain and in coastal areas (sometimes unavoidably, for example harbours) has over time increased the risk of losses caused by flooding.

#### Existing Flood Defences

SEPA only class as acceptable for consideration in relation to land use planning only formal flood protection schemes designed to protect for the 0.5% annual probability flood, in line with SPP.

Formal flood defences in East Lothian are limited to a short section of sea wall at Prestonpans. This was installed as part of the Prestonpans Flood Prevention Scheme 1972. There is no standard for protection (SOP) associated with this scheme. It is a concrete wall with curved wave deflector and masonry wall of engineering brick construction. There are other defences that front the coastline, however they usually comprise of poorly constructed masonry walls and are generally in poor condition.

In the 1950s, the Ministry of Agriculture built a series of flood banks along the sides of some rivers in East Lothian with the primary intention of protecting agricultural land from flooding. These appeared to be constructed to a height of a modest flood with annual exceedance probability of around 0.4% (1 in 25 years).

# River Tyne

After a major flood in 1927, a flood wall was erected along the river bank at Gifford Gate in Haddington to protect the Nungate area from periodic flooding. Over the years this wall has successfully reduced the severity of flooding and this wall was 'overtopped' only under very high river levels (1948, 1956 and 1990).

A flood mitigation scheme was implemented in Haddington as part of the redevelopment of the former Simpsons Maltings for housing in 2005. Ground levels were raised, an embankment was constructed at the west end of the site and the sluice gate at the inlet to the Mill Lade was modified. These measures reduced the risk of flooding on the site to acceptable levels.

Several studies have been commissioned in the past to study the River Tyne in detail and to propose the extent of engineering works required to mitigate flooding in the low lying areas of Haddington. The most recent is the Haddington Flood Study 2009 undertaken by Jacobs Engineering UK Ltd. The study was intended to assist with the determination of planning applications on the functional flood plain, identifying property at risk and reviewing the present Emergency Flood Plan for Haddington, and to assist in the design of proposed flood defences which will be constructed to protect low lying areas of the town that are at risk from flooding. The length of the river considered relevant to the study extends from West Mains Farm at Samuelston to the Abbey Bridge, a distance of 5.5 miles. The study includes a set of drawings that provides information on the indicative extent of inundation for a range of return period flood events.

Flood Mitigation Measures for Haddington are under consideration and are included within the LFRMP and assessed via standard economic and environmental criteria. This scheme is included in SEPA's FRMS Prioritisation List.

#### River Esk

Musselburgh has not been subjected to flooding from the River Esk to the same degree as Haddington from the Tyne, however the 1948 flood was a major event. Flooding in Musselburgh is of particular concern, however, as parts of the town are also at risk from coastal flooding. When high tides and surges combine with a high river flow large areas of the town are at risk with little or no defence.

River training walls have been erected along the banks of the river but when high river flows encounter a high tide this causes localised flooding where the height of the training walls is inadequate.

The Council commissioned Jacobs Engineering UK Ltd to produce the River Esk Flood Study 2012. This findings of this study will assist with the determination of planning applications on the functional flood plain, identifying property at risk, with reviewing the present Emergency Flood Plan for Musselburgh, and with the design of proposed flood defences that will be constructed to protect areas of the town that are at risk from flooding.

Flood Mitigation Measures for Musselburgh previously under consideration have led to an Options Appraisal and a flood protection scheme has been included within the LFRMP. This scheme is included in SEPA's FRMS Prioritisation List.

Midlothian is working on proposals for the upstream areas of the River Esk and cross-boundary work will be required to maximise the potential benefits.

#### Biel Water

The Biel Water has a history of flooding in West Barns. The Council's Biannual Reports on Flooding report that gravel and sand banks are removed annually or as required downstream of the Edinburgh Road Bridge at West Barns to mitigate flooding. A further flood study for the Biel Water is included for within the LFRMP; this will include consideration of flood issues in West Barns.

### **Community Resilience**

The Council's Emergency Planning Team and the Flood Protection Team work closely together to deliver measures aimed at improving community resilience in relation to flooding. The aim is to raise awareness for those at risk of flooding and to assist in their preparation for a flood event. Examples include a flood warning system (now partially taken over by SEPA), provision of sandbags, subsidised flood products scheme and support to self-help groups.

### **Natural Flood Risk Management**

East Lothian Council seeks to achieve more sustainable solutions for flood protection schemes and is working with relevant agencies on this, to help establish

suitable, beneficial and evidenced measures for natural flood management. Upstream flood storage for the River Tyne is a potential contributor to reducing flood risk in Haddington and it is proposed to carry out a Natural Flood Management study to assess whether or not wave attenuation could help reduce coastal flood risk for Musselburgh.

#### **Climate Change**

In applying an allowance for climate change and freeboard, the Council would expect to apply the most up-to-date guidance from SEPA. At present, the Council would firstly refer to SEPAs current Planning Information Note 3: Flood Risk Advice for Planning Authorities. Under the development management section the document states that where a flood risk assessment is required, SEPAs Technical Flood Risk Guidance for Stakeholders (June 2015) should be used. The current technical guidance (at the time of writing) recommends a current climate change allowance of +20% and a minimum freeboard allowance of 600mm (where the development includes any overnight accommodation). This guidance is however currently being reviewed by SEPA. Climate change figures should reflect best science and we would recommend referring to UKCP09 (soon to be replaced with UKCP18 and may be subject to further review). Further guidance for Local Authorities from SEPA on climate change and freeboard allowance is due to emerge later in 2018.

Studies are ongoing which are likely to suggest increases in these figures and the council would take cognisance of SEPAs recommendations in any amended technical guidance notes. SEPA is currently considering whether to alter its guidance to reflect the results of the "UK Water Industry Research project – Rainfall Intensity for Sewer Design". If SEPA does update its guidance, for this or any other reason, the Council would expect to use the updated guidance.

The sources of the information set out above can be found in the following sections of the Technical Flood Risk Guidance for Stakeholders (June 2015):

Climate Change Allowance: Paragraph 4.4, Page 11
 Freeboard Allowance: Paragraph 4.5.1, Page 14

# **Strategic Overview**

A key objective of the Proposed LDP is to direct development, particularly vulnerable uses, away from areas of flood risk to appropriate locations, and to design new development so it will be resilient to the effects of climate change and helps to reduce or avoid flood risk. This objective is pursued through the site assessment process informed by SPP, SEPA flood maps and the LFRMP. Table X below presents the relevant site assessment summary.

#### **Site Assessments**

The assessments made of sites as part of the LDP process of identifying appropriate sites for development included desktop studies, site visits and consultation with relevant internal and external consultees. The methodology for site assessment was included in the SEA process which accompanied the MIR consultation, which included statutory consultees including SEPA.

The assessment of flood risk derives from SEPA's Indicative Flood Risk Maps with input from SEPA and the Council's Flooding team to give additional localised information on historical and current issues and for where the SEPA mapping does not cover smaller watercourses.

STRATEGIC FLOOD RISK ASSESSMENT – EAST LOTHIAN LOCAL DEVELOPMENT PLAN (includes reference to all expressions of interest sites and ELLP sites being rolled forward).

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name         | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                            | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-------------------|---------------------------------------------|-----------------------------------------------------------------|------------------------------------------------|---------------------------|
| MUSSELBURGH                               |                    |                   |                                             |                                                                 |                                                |                           |
| PROP MH1                                  | Yes                | Land at           | Housing and                                 | Surface Water /                                                 | IER has identified the requirement for a FRA.  | Yes                       |
| (= 6)                                     |                    | Craighall         | Employment                                  | fluvial – small part                                            | The FRA should take into consideration         |                           |
| (Pref – M1)                               |                    |                   |                                             |                                                                 | culverts adjacent to the site. SEPA maintain a |                           |
|                                           |                    |                   |                                             |                                                                 | gauging station on the development site. The   |                           |
|                                           |                    |                   | 1200                                        |                                                                 | flood risk from surface water including run-   |                           |
|                                           |                    |                   |                                             |                                                                 | off from adjoining land should be assessed as  |                           |
|                                           |                    |                   |                                             |                                                                 | part of the FRA.                               |                           |
| PROP MH2                                  | Yes                | Land at Old       | Housing - 50                                | Surface Water - part                                            | The flood risk from surface water including    | No                        |
|                                           |                    | Craighall Village |                                             |                                                                 | run-off from adjoining land should be          |                           |
|                                           |                    | (Old Craighall    |                                             |                                                                 | assessed.                                      |                           |

| Site Reference<br>(MIR Site<br>Reference)<br>(PREF - MH3a) | Preferred<br>Site? | Site Name  east)                                            | Proposed Use and indicative housing numbers           | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                             | SEPA – FRA<br>Recommended |
|------------------------------------------------------------|--------------------|-------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PROP MH2<br>(PREF-M3b)                                     | Yes                | Land at Old<br>Craighall Village<br>(Old Craighall<br>east) | Housing<br>50 in MIR;<br>larger<br>submission<br>made | Surface Water – part                                            | The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                                                                                                                                     | No                        |
| PROP MH3<br>(Pref M2)                                      | Yes                | Land at Old<br>Craighall Village                            | Employment                                            | Surface Water /<br>fluvial – small part                         | IER has identified the requirement for a FRA. The FRA should take into consideration culverts adjacent to the site. SEPA maintain a gauging station just upstream of the development site. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.                                                                                                                       | Yes                       |
| PROP MH5 PREF-M6)                                          | Yes                | Former<br>Edenhall<br>Hospital Site                         | Housing - 100                                         | Surface Water<br>/fluvial – small part                          | A tributary from of the Pinkie Burn is believed to flow through the site as shown on the SEPA fluvial flood map. A FRA was carried out by Ironside Farrar in April 2010 and identified that a 600mm diameter emerges at Pinkie St Peter's Primary School. The exact location of the culvert upstream is unknown. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |
| PROP MH7                                                   | Yes                | Pinkie Mains                                                | Housing - 130                                         | Surface Water –                                                 | A FRA was carried out as part of the Pinkie Mains development by Kaya Consulting dated                                                                                                                                                                                                                                                                                                                                          | No                        |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name       | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation potentially at med- high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-----------------|------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| (Pref M7)                                 |                    | Intensification |                                                      | small part                                                | 14th Feb 2008 and did not identify the area shown on the SEPA flood map to be at risk of flooding. IER has identified this source of flooding and highlights that a DIA may be required. The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                                                                                                                                                          |                           |
| PROP MH8 (PREF-M8)                        | Yes                | Levenhall       | Housing – 65                                         | Surface Water –<br>small part                             | Two source of fluvial flood risk including the Ravenshaugh Burn and also the unnamed watercourse flowing through the development site. A number of culverts within the site and redevelopment of this site offers the opportunity to open up the culverts to a natural channel on the condition that flood risk is not increased downstream.  During high flows, there are recorded instances of the Ravenshaugh Burn flooding adjacent to Beggars Bush House where the burn joins with an unnamed tributary and was culverted into small pipes. The culverts have been replaced with a large open channel. The flood risk from surface water | Yes                       |

| Site Reference<br>(MIR Site<br>Reference)  | Preferred<br>Site? | Site Name             | Proposed Use and indicative housing numbers     | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                           | SEPA – FRA<br>Recommended |
|--------------------------------------------|--------------------|-----------------------|-------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                            |                    |                       |                                                 |                                                                 | including run-off from adjoining land should be assessed as part of the FRA.                                                                                                                                                                                                                                  |                           |
| PROP MH9 (PREF-MH13)                       | Yes                | Land at<br>Wallyford  | 350 beyond<br>existing<br>permission of<br>1050 | No                                                              | SEPA provided significant input as part of the planning application and offered no objection on grounds of flood risk.                                                                                                                                                                                        | No                        |
| PROP MH12<br>(PREF-M12)                    | Yes                | Barbachlaw            | Housing led<br>mixed use - 94                   | Surface Water –<br>small part<br>Yes                            | The IER assess the risk to a larger allocation than the shape file representing PREF-M12 but acknowledges the surface water flood risk (but also highlights fluvial risk as the allocation in the IER is larger). The flood risk from surface water including run-off from adjoining land should be assessed. | No                        |
| OTH-M14<br>Site removed from<br>LDP at EiP | No                 | Howe Mire             | Housing led<br>mixed use -170                   | Surface Water /<br>fluvial – small part<br>Yes                  | The IER has identified the risk of surface water flooding and fluvial flooding. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.                                                                                                                | Yes                       |
| PROP MH14                                  | Yes                | Land at<br>Whitecraig | Housing 300                                     | Surface Water –<br>small part                                   | Possibility of a culverted watercourse flowing along the northern boundary adjacent to the                                                                                                                                                                                                                    | Yes                       |

| Site Reference          | Preferred   | Site Name           | Proposed Use                         | SEPA-allocation                              | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                        | SEPA – FRA  |
|-------------------------|-------------|---------------------|--------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| (MIR Site<br>Reference) | Site?       |                     | and indicative<br>housing<br>numbers | potentially at med-<br>high risk of flooding |                                                                                                                                                                                                                                                                                                                                                                                                                                            | Recommended |
| (PREF-M4)               |             | South               |                                      |                                              | School and FRA required to assess the risk from this if present.  FRA was carried out for development of Whitecraig Avenue which shows that the culverted watercourse location is not within the site boundary at the eastern part of the allocation. No information is available regarding the full route of the culvert.  The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. |             |
| Prop MH15<br>(ALT-M5)   | Alternative | Whitecraig<br>North | Housing - 200                        | Surface Water –<br>small part<br>Yes         | The IER assess the risk to a larger allocation than the shape file representing ALT-M5 but acknowledges the surface water flood risk. Site lies sufficiently above the risk of flooding from the Esk. The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                          | No          |
| PREF- M9                | Yes         | Goshen              | Housing Led<br>mixed use -<br>1200   | Surface Water –<br>small part                | FRA was carried out in 2011 and showed that there was limited fluvial flood risk. No assessment was undertaken to assess the risk of pluvial flooding. A revised FRA would have to be undertaken to ensure that all sources of flood risk were assessed including surface                                                                                                                                                                  | Yes         |

| Site Reference<br>(MIR Site<br>Reference) | Preferred Site? | Site Name                                       | Proposed Use and indicative housing             | SEPA-allocation potentially at med- high risk of flooding | Flood Risk Comments                                                                                                                                                                                                      | SEPA – FRA<br>Recommended |
|-------------------------------------------|-----------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Reference                                 |                 |                                                 | numbers                                         | nigh risk of flooding                                     |                                                                                                                                                                                                                          |                           |
|                                           |                 |                                                 |                                                 |                                                           | water run-off from adjoining land. Earlier discussions focused on the opening of the culverts, a revised FRA would have to assess the likely impacts of this as the earlier FRA did not look at this. The IER highlights |                           |
|                                           |                 |                                                 |                                                 |                                                           | that a FRA is required.                                                                                                                                                                                                  |                           |
| PREF-M10                                  | Yes             | Drummohr<br>(safeguard circa<br>100 homes)      | Housing - 100                                   |                                                           | N/A                                                                                                                                                                                                                      | No                        |
| MIR/MH/HSG119                             | No              | Land rear of 8/9<br>Carberry Close,<br>Inveresk | Domestic<br>Garden –<br>removal of<br>greenbelt | Surface Water -<br>small part                             | Use of the site as garden ground for existing development would not be likely to be significantly affected by any flooding. The flood risk from surface water including runoff from adjoining land should be assessed.   | No                        |
| MIR/MH/HSG129                             | No              | Eskfield<br>Cottages,<br>Wallyford              | Housing                                         |                                                           | The site is not known to be at risk of flooding.                                                                                                                                                                         | No                        |
| MIR/MH/HSG133                             | No              | The Loan,<br>Musselburgh                        | Housing                                         | Surface Water -<br>small part                             | The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                              | No                        |
| MIR/MH/OTH011                             | No              | Land east of<br>Wallyford Toll                  | Inclusion within settlement                     | Surface Water                                             | SEPA advises that there is surface water issues adjacent to the site and it would                                                                                                                                        | Yes                       |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                 | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                  | SEPA – FRA<br>Recommended                                                             |
|-------------------------------------------|--------------------|-------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                           |                    |                                           | boundary or<br>allocation for<br>redevelopment       |                                                                 | require a Flood Risk Assessment to examine the risk from the Ravenshaugh Burn, which flows along the eastern boundary of the site. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. The developable area and/or development type may be constrained due to flood risk. |                                                                                       |
| PM/MH/HGS041                              | Yes                | Monktonhall                               | Housing – 12                                         | Yes                                                             | The majority of the site is in an area of flood risk adjacent to the River Esk, as identified in SEPA's flood maps. There is also a small watercourse within the site. A previous FRA demonstrated that virtually the entire site with existing ground levels is inundated during a 1 in 200 year event.                             | FRA if the site's development should differ from the previously approved application. |
|                                           |                    |                                           |                                                      |                                                                 | 1990 records indicate that a small compound located adjacent to the south-east boundary of the site flooded up to a depth of approximately 1 metre.                                                                                                                                                                                  |                                                                                       |
| PM/MH/HSG031                              | No                 | Land adjacent<br>to Edenhall<br>Hospital, | Housing<br>300                                       | Surface water                                                   | There is an area of river and surface flood risk<br>running through the site directly to the south<br>of Edenhall Hospital according to SEPA's flood                                                                                                                                                                                 | Yes                                                                                   |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                           | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                          | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-----------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                           |                    | Inveresk                                            |                                             |                                                                 | maps. The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                                                                                                                            |                           |
| PM/MH/BUS009                              | No                 | Westpans                                            | Employment                                  |                                                                 | There is no river, surface or coastal flooding on the site.  SEPA advises that it would require a FRA to assess the flood risk from the Ravenshaugh Burn and tributary adjacent to the site.                                                                                                                                                                                                                                 | Yes                       |
| PM/MH/HSG042                              | No                 | Land at Salters<br>Road                             | Housing - 46                                |                                                                 | The site is not in an area of known flood risk.                                                                                                                                                                                                                                                                                                                                                                              | No                        |
| PM/MH/BUS002                              | No                 | Land at Old<br>Craighall<br>Junction<br>Musselburgh | Business                                    | Surface Water / fluvial – small part                            | Parts of the site are at risk of flooding from the burn which flows through the site.  A FRA would be required to assess the flood risk from the burn as well as drains that flow along the northern boundary. Consideration should be given to upstream/downstream culverts which may exacerbate flood risk. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |

| Site Reference<br>(MIR Site<br>Reference)                | Preferred<br>Site? | Site Name                  | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                            | SEPA – FRA<br>Recommended |
|----------------------------------------------------------|--------------------|----------------------------|---------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PRESTONPANS                                              |                    |                            |                                             |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                |                           |
| PROP EGT1<br>(PREF-P1)                                   | Yes                | Cockenzie<br>Power Station | Mixed use                                   | Surface Water /<br>fluvial/ coastal-<br>small part              | The level of detailed required within the FRA will depend on the location of any proposed development.  The predicted 200 year still water level is 3.96mAOD. A FRA was undertaken for a residential development off Avenue Road which was at risk of surface water flooding. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.   | Yes                       |
| PROP PS1<br>(ALT-P2)                                     | Alternative        | Longniddry<br>South        | Housing led<br>mixed use                    | Surface Water –<br>small part                                   | Flooding issues on Seton Burn and Seton Dean Burn but not relevant to site. FRA required to assess the risk from small watercourse and take account of any changes in hydrology as a result of the mine workings. The IER clearly identifies the risks of flooding to the site. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |
| MIR/PP/HSG126<br>(north) and<br>MIR/PP/HSG127<br>(south) | No                 | Land at Seton<br>Mains     | Housing - 2-4                               | Surface Water –<br>south side                                   | The north site is not known to be at risk of surface or river flooding. The south site is at medium risk of surface water flooding. SEPA make no comment on the north site but comment on the south side that there are flooding issues on the Seton Dean Burn from poorly designed culverts.  The flood risk from surface water including run-off from adjoining land should be               | No                        |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                         | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-----------------------------------|------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| MIR/PP/OTH018                             | No                 | Land east of<br>Wallyford Toll    | Holiday<br>accommodatio<br>n                         | Surface Water –<br>small part                                   | assessed.  SEPA advises that a Flood Risk Assessment would be required, which should assess the risk from the Ravenshaugh Burn on the western boundary of the site. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |
| MIR/PP/OTH030                             | No                 | Land at<br>Dolphingstone<br>Farm  | Burial provision                                     | Surface Water –<br>small part (Medium<br>Risk)                  | The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                        |                           |
| MIR/PP/HSG129                             | No                 | Port Seton Links                  | Housing - 90                                         | Surface Water /<br>fluvial – large part                         | The majority of the site is at risk of Fluvial flooding. SEPA recommend, therefore, that this site is not progressed.                                                                                                                                                              | -                         |
| MIR/PP/HSG130                             | No                 | Fishergate<br>Road, Port<br>Seton | Housing                                              | Surface Water –<br>medium risk                                  | Review of the surface water 1 in 200 year flood map indicates that there may be flooding issues at this site. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.                                                       | Yes                       |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                          | Proposed Use and indicative housing numbers | SEPA-allocation potentially at medhigh risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                               | SEPA – FRA<br>Recommended                                                                                     |
|-------------------------------------------|--------------------|----------------------------------------------------|---------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| MIR/PP/HSG117                             | No                 | Land at<br>Redhouse<br>Cottages near<br>Longniddry | Housing - 6                                 |                                                         | SEPA's flood maps show the site to be at medium risk of river and surface water flooding. Development within this allocation would likely result in floodplain conveyance and storage loss which could result in the increase risk of flooding elsewhere in Redhouse. The flood risk from surface water including run-off from adjoining land should be assessed. | -                                                                                                             |
| PM/PP/HSG030                              | No                 | Land adjacent<br>to Bankton<br>Steading            | Housing                                     | Surface Water –<br>small part                           | The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                                                                       | No                                                                                                            |
| PM/PP/BUS005                              | No                 | Bankton<br>Business                                | Employment                                  | Surface Water –<br>small part                           | There is a small watercourse adjacent to the site. The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                    | No                                                                                                            |
| PM/PP/HSG009                              | No                 | Dolphingstone<br>Farm                              | Housing - 280                               |                                                         | N/A                                                                                                                                                                                                                                                                                                                                                               | Yes  See Report of Examination Issue 04: Prestonpans Cluster recommended post- examination modification no.3: |

|              |    |                     |         |                               |                                                                                                                                                                                                                                                  | In paragraph 2.60, inserting the following sentence at the end:  "A Flood Risk Assessment will be necessary for this site." |
|--------------|----|---------------------|---------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| PM/PP/HSG097 | No | Seton West<br>Mains | Housing | Surface Water –<br>small part | SEPA has raised a number of concerns with regards flood risk. There are potential groundwater issues from nearby mine workings (Blindwells site). There is also a culvert which takes mine water from nearby and discharges into the Seton Burn. | Yes                                                                                                                         |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name               | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                           | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-------------------------|---------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                           |                    |                         |                                             |                                                                 | The site is within Potentially Vulnerable Area 10/23. A small part of the south east of the site is shown to be at risk of river flooding on SEPA's flood map. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. |                           |
| PM/PP/HSG043                              | No                 | Land at Seton<br>Mains  | Housing                                     | Surface Water –<br>small part                                   | The site lies within Potentially Vulnerable Area 10/23. The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                           | No                        |
| PM/PP/BUS006                              | No                 | Prestongrange<br>Museum | Employment                                  |                                                                 | The site is within Potentially Vulnerable Area 10/21. The site is not within an area at risk of river or coastal flooding as identified on SEPA's flood map                                                                                                                   | No                        |
| PM/PP/BUS003                              | No                 | Prestongrange           | Employment                                  | Surface water                                                   | The site is within Potentially Vulnerable Area 10/21. The site is not within an area at risk of river or coastal flooding as identified on SEPA's flood map. The flood risk from surface water including run-off from adjoining land should be assessed.                      | No                        |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name              | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                           | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|------------------------|---------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| TRANENT PROP TT1 (PREF-T4)                | Yes                | Windygoul<br>South     | Housing - 550                               | Surface Water –<br>small part                                   | The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                   | No                        |
| PROP TT3<br>(PREF-T3)                     | Yes                | Southwest<br>Windygoul | Employment                                  | Surface Water –<br>small part                                   | The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                   | No                        |
| PROP TT4<br>(PREF-T2)                     | Yes                | Lammermoor<br>Terrace  | Housing - 120                               | Surface Water /<br>fluvial – small part                         | Small watercourse could be culverted along the eastern boundary of the site. The location and flood risk should be assessed and no development should develop above the culvert. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.               | Yes                       |
| PROP TT5<br>(PREF-T1)                     | Yes                | Bankpark Grove         | Housing - 80                                | Surface Water /<br>fluvial – small part                         | Small watercourse along the eastern boundary may pose a risk of flooding to the development site and should be assessed, particularly as it is culverted beneath Dovecot Brae/Brickworks Road. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |
| PROP TT6<br>(ALT-T6)                      | Alternative        | Kingslaw,<br>Tranent   | Housing led<br>mixed use - 103              | Surface Water –<br>small part                                   | IER has assessed the risk of flooding to a much larger allocation than shown on shapefile ALT-T6 and has identified surface water flood risk. The flood risk from surface water including run-off from adjoining land                                                                                         | Yes                       |

| Site Reference             | Preferred | Site Name                       | Proposed Use                   | SEPA-allocation                              | Flood Risk Comments                                                                                                                                                                                                                                               | SEPA – FRA  |
|----------------------------|-----------|---------------------------------|--------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| (MIR Site<br>Reference)    | Site?     |                                 | and indicative housing numbers | potentially at med-<br>high risk of flooding |                                                                                                                                                                                                                                                                   | Recommended |
|                            |           |                                 |                                |                                              | should be assessed as part of the FRA.                                                                                                                                                                                                                            |             |
| PROP TT7<br>(PREF-T8)      | Yes       | Macmerry<br>North               | Housing - 150                  | Surface Water –<br>small part                | The IER assess the risk to a larger allocation boundary compared to shapefile PREF-T8 and recommends a FRA due to the small watercourse. The flood risk from surface water including run-off from adjoining land should be assessed.                              | No          |
| PROP TT8<br>(PREF-T9)      | Yes       | Macmerry<br>Business Park       | Employment                     | Surface Water –<br>small part<br>Yes         | The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                       | No          |
| PROP TT9<br>(PM/TT/HSG045) | Yes       | Lamington<br>Road,<br>Gladsmuir | Housing                        | Surface water –<br>small part                | The site is within Potentially Vulnerable Area 10/23. SEPA has not raised any concerns with regards flood risk or potential impact on the water environment. The flood risk from surface water including run-off from adjoining land should be assessed.          | No          |
| PROP TT9<br>(PM/TT/HSG089) | Yes       | Lamington<br>Road,<br>Gladsmuir | Housing                        | N/A                                          | The site is not shown to be at risk of river, surface water or coastal flooding on SEPA's flood map. The site is within Potentially Vulnerable Area 10/23. SEPA has not raised any concerns with regards flood risk or potential impact on the water environment. | No          |
| PROP TT10<br>(PREF-T11)    | Yes       | Tynemount<br>West (Ormiston     | Housing - 140                  | Surface Water –<br>small part                | Surface water shows an extremely small pocket of flood risk. The flood risk from surface water including run-off from                                                                                                                                             | No          |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                           | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                         | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-------------------------------------|---------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PROP TT11<br>(PREF-T10)                   | Yes                | Elphinstone<br>West                 | Housing - 80                                | Surface Water –<br>small part                                   | adjoining land should be assessed.  The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                                             | No                        |
| PROP TT12<br>(PREF-T13)                   | Yes                | Woodhall Road<br>(Pencaitland)      | Housing - 16                                | Surface<br>Water/Fluvial –<br>small part                        | Small watercourse is located along eastern boundary and appears to be culverted. FRA required to assess the risk of flooding and route of the culvert. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.                                                                                                       | Yes                       |
| PROP TT13<br>(PREF-T14)                   | Yes                | Lempockwells<br>Rd<br>(Pencaitland) | Housing - 120                               | Fluvial                                                         | History of fluvial flooding on Huntlaw Road with runoff from farmer's field entering the road and threatening properties. A basic FRA was submitted in support of the 2014 application but did not determine the functional floodplain Although no surface water flood risk is shown on the SEPA maps, an FRA should assess this risk in light of the historic information. | Yes                       |
| PROP TT14<br>(PM/TT/HSG111)               | No                 | Park View,<br>Pencaitland           | Housing - 55                                |                                                                 | The site is not shown to be at risk of river, coastal or surface water flooding. SEPA has not raised any concerns with regard to flood risk or potential impact on the water environment.                                                                                                                                                                                   | No                        |
| PM/TT/HSG095                              | Yes                | Humbie                              | Housing - 20                                |                                                                 | The site is not within a Potentially Vulnerable                                                                                                                                                                                                                                                                                                                             | No                        |

| Site Reference<br>(MIR Site<br>Reference)       | Preferred<br>Site? | Site Name                               | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                           | SEPA – FRA<br>Recommended |
|-------------------------------------------------|--------------------|-----------------------------------------|------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Site removed from LDP at EIP                    |                    | (Kippithill)                            |                                                      |                                                                 | Area. SEPA has not raised any concerns with regards flood risk or potential impact on the water environment.                                                                                                                                                  |                           |
| PM/TT/HSG012<br>Site removed from<br>LDP at EIP | Yes                | Dryden Field,<br>East Saltoun           | Mixed<br>use/housing –<br>50                         |                                                                 | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. The site is not within a Potentially Vulnerable Area. SEPA has not raised any concerns with regards flood risk or potential impact on the water environment.   | No                        |
| PREF-T12                                        | Yes                | Tynemount East (Ormiston)               | Housing - 16                                         | No                                                              | N/A                                                                                                                                                                                                                                                           | No                        |
| ALT-T5                                          | Alternative        | , , , , , , , , , , , , , , , , , , , , | Housing -<br>500-550                                 | Surface Water –<br>small part                                   | Small watercourse flows through the bottom part of the site, enters a culvert beneath Haddington Road before flowing in an easterly direction. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |
| ALT-T7                                          | Alternative        | Tranent Mains                           | Housing - 300                                        | Surface Water –<br>small part                                   | Small watercourse along the northern boundary. FRA is required. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.                                                                                | Yes                       |
| SDP/TT/HSG005 –<br>Site B                       | No                 | Tranent Mains<br>Site B                 | Park and<br>Ride/Housing                             |                                                                 | The site is not shown to be at risk of river or coastal flooding on SEPA's flood map.                                                                                                                                                                         | No                        |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                         | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                    | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|---------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| SDP/TT/HSG005                             | No                 | Tranent Mains<br>Site C                           | budget hotel,<br>nursing home<br>or similar |                                                                 | The site is not shown to be at risk of river or coastal flooding on SEPA's flood map.                                                                                                                                                                                  | No                        |
| MIR/TT/OTH028                             | No                 | Tranent Burial<br>Provision                       | Burial Grounds                              |                                                                 | The site is not known to be at risk of surface or river flooding on SEPA's flood maps.                                                                                                                                                                                 |                           |
| MIR/TT/HSG135                             | No                 | Land south of<br>Greendykes<br>Farm               | Housing                                     | surface water -<br>Medium Risk                                  | SEPA states that a Flood Risk Assessment which assesses the risk from the small watercourse which flows along the western part of the site is required. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |
| MIR/TT/HSG119                             | No                 | Land to south<br>of Westbank<br>Road,<br>Macmerry | Housing                                     | surface water -<br>Medium Risk                                  | The west and north boundaries of the site are shown to be at medium risk of surface water flooding. SEPA states that surface water flooding issues at this site. The flood risk from surface water including run-off from adjoining land should be assessed.           |                           |
| MIR/TT/OTH026                             | No                 | Gladsmuir<br>burial provision                     | Burial Provision                            |                                                                 | The site is not shown to be within or adjacent to an area at risk of flooding from any sources on SEPA's flood map.                                                                                                                                                    |                           |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                     | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-----------------------------------------------|---------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| MIR/TT/HSG132                             | No                 | Hillview Road,<br>Ormiston                    | Housing                                     |                                                                 | SEPA states that various approaches to the village of Ormiston can be quite difficult to navigate due to the River Tyne flooding and local run-off to low-lying parts of the villages. The River Tyne runs along the south side of Ormiston and the low-lying land either side of the river are flood plains that often flood when the water level rises. The site is not shown to be at risk of flooding however to the east and south of the site there are large areas at medium risk of river flooding. | Yes                       |
| MIR/TT/HSG134                             | No                 | Land North of<br>Limeylands<br>Road, Ormiston | Housing                                     | Fluvial                                                         | Flood risk to site likely to be complicated by topography, e.g. the dismantled railway, and the site may be constrained as a result.  A Flood Risk Assessment is required which assesses the risk from the Bellyford Burn which flows along the northern boundary of the site.                                                                                                                                                                                                                              | Yes                       |
| MIR/TT/MIN010                             | No                 | Land at Wester<br>Pencaitland                 | Mineral<br>Extraction                       | Fluvial                                                         | The majority of the application site lies within the medium likelihood (0.5% annual probability or 1 in 200 year) flood extent of the SEPA Flood Map, and may therefore be at medium to high risk of flooding.                                                                                                                                                                                                                                                                                              | -                         |
| MIR/TT/MIN010                             | No                 | Land at Easter<br>Pencaitland                 | Mineral<br>Extraction                       | Fluvial                                                         | The majority of the application site lies within the medium likelihood (0.5% annual                                                                                                                                                                                                                                                                                                                                                                                                                         | -                         |

| Site Reference          | Preferred | Site Name                                                              | Proposed Use                                                                | SEPA-allocation                              | Flood Risk Comments                                                                                                              | SEPA – FRA  |
|-------------------------|-----------|------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------|
| (MIR Site<br>Reference) | Site?     |                                                                        | and indicative<br>housing<br>numbers                                        | potentially at med-<br>high risk of flooding |                                                                                                                                  | Recommended |
|                         |           |                                                                        |                                                                             |                                              | probability or 1 in 200 year) flood extent of<br>the SEPA Flood Map, and may therefore be at<br>medium to high risk of flooding. |             |
| MIR/TT/OTH027           | No        | Pencaitland<br>burial provision                                        | Burial provision                                                            |                                              | The site is not shown to be at risk of surface or river flooding on SEPA's flood maps.                                           |             |
| MIR/TT/OTH025           | No        | East Saltoun<br>burial provision                                       | Burial Provision                                                            |                                              | The site is not shown as being at risk of river or surface flooding. SEPA have not commented on this site.                       |             |
| PM/TT/HSG080            | No        | Windygoul<br>South –<br>Strategic<br>Option A<br>(Part of PREF-<br>T4) | Housing –<br>option 110-132<br>homes plus<br>extension of<br>primary school |                                              | The site is not within a Potentially Vulnerable Area.                                                                            | No          |
| PM/TT/HSG081            | No        | Windygoul South – Strategic Option B (Part of PREF- T4)                | Housing                                                                     |                                              | SEPA has not raised any concerns with regards flood risk.                                                                        | No          |
| PM/TT/HSG029            | No        | Kingslaw –<br>Option 3                                                 | Mixed<br>use/Housing                                                        |                                              | The site is within Potentially Vulnerable Area 10/23. SEPA has not raised any concerns with regards flood risk.                  | No          |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                   | Proposed Use<br>and indicative<br>housing<br>numbers     | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|---------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PM/TT/HSG073                              | No                 | Tranent East                                | Housing (Part<br>of ALT – T5)<br>community<br>facilities | Surface Water –<br>small parts                                  | The site is not shown to be at risk of river or coastal flooding on SEPA's flood map but there is a small watercourse which runs through the site. SEPA advises that the minor watercourse within the site boundary may require a 6m buffer. The site is partly within Potentially Vulnerable Area 10/23. SEPA has not raised any further concerns with regards flood risk or potential impact on the water environment however an FRA may be required. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |
| PM/TT/HSG074                              | No                 | Tranent East<br>Middle (Part of<br>ALT-5)   | Housing -100                                             | Surface Water –<br>small parts                                  | The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. The site is within Potentially Vulnerable Area 10/23. SEPA has not raised any concerns with regards flood risk. The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                                                                      | No                        |
| PM/TT/HSG075                              | No                 | Tranent East<br>(North) – Part<br>of ALT-5) | Housing 200-<br>225                                      | N/A                                                             | The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. The site is within Potentially Vulnerable Area 10/23. SEPA has not raised any concerns with regards flood risk                                                                                                                                                                                                                                                                                                                                                                   | No                        |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                      | Proposed Use and indicative housing numbers | SEPA-allocation potentially at medhigh risk of flooding     | Flood Risk Comments                                                                                                                                                                                                                                                                                                        | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|------------------------------------------------|---------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PM/TT/HSG059                              | No                 | Elphinstone<br>Road                            | Mixed Use                                   |                                                             | The site is within Potentially Vulnerable Area 10/23. SEPA has not raised any concerns with regards flood risk or potential impact on the water environment however an FRA may be required.                                                                                                                                | Yes                       |
| PM/TT/HSG014B                             | No                 | Elphinstone                                    | Housing                                     | Surface Water –<br>small parts within<br>centre of the site | The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. The site is not within a Potentially Vulnerable Area. SEPA recommends the site be subject to a flood risk assessment. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |
| PM/TT/HSG107                              | No                 | Elphinstone –<br>land east of<br>bowling green | Housing                                     |                                                             | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. The site is not within a Potentially Vulnerable Area. SEPA has not raised any concerns with regards flood risk or potential impact on the water environment.                                                                | No                        |
| PM/TT/HSG099                              | No                 | Elphinstone –<br>south of Buxley<br>Road       | -                                           | Surface Water –<br>small part                               | The site is not within a Potentially Vulnerable Area. SEPA has not raised any concerns with regards flood risk or potential impact on the water environment. The flood risk from surface water including run-off from adjoining land should be assessed.                                                                   | No                        |

| Site Reference<br>(MIR Site<br>Reference)                                                | Preferred<br>Site? | Site Name                    | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                               | SEPA – FRA<br>Recommended |
|------------------------------------------------------------------------------------------|--------------------|------------------------------|------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PM/TT/HSG057<br>(PM/TT/HSG051<br>and<br>PM/TT/HSG052<br>are within part of<br>this site) | No                 | Ormiston                     | Housing                                              | Fluvial                                                         | The Bellyford Burn flows along the northern boundary of the site. This presents flood risk to the northern site boundary, which could be avoided through appropriate design. The site will potentially require a flood risk assessment. A 6-12m buffer would be required.                                                         | Yes                       |
| PM/TT/HSG051<br>(PM/TT/HSG057<br>includes this site<br>also)                             | No                 | Marketgate<br>East, Ormiston | Housing                                              | Fluvial                                                         | The Bellyford Burn flows along the northern boundary of the site, and the site is partially within a functioning floodplain. This presents flood risk to the northern site boundary, which could be avoided through appropriate design. The site will potentially require a flood risk assessment. A 6m buffer would be required. | Yes                       |
| PM/TT/HSG052                                                                             | No                 | Marketgate<br>West Ormiston  | Housing                                              | Fluvial                                                         | The Bellyford Burn flows along the northern boundary of the site. This presents flood risk to the northern site boundary, which could be avoided through appropriate design. The site will potentially require a flood risk assessment.                                                                                           | Yes                       |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                       | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PM/TT/HSG019                              | No                 | Ormiston<br>Bowling Club,<br>Limeylands<br>Road | Housing                                     | Surface Water –<br>small part                                   | The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. There is a small pocket of surface water flooding at the southern site boundary. The site will potentially require a drainage impact assessment. The site is not within a Potentially Vulnerable Area. SEPA has not raised any concerns with regards flood risk or potential impact on the water environment. The flood risk from surface water including run-off from adjoining land should be assessed. | No                        |
| PM/TT/HSG023                              | No                 | Puddle Wood                                     | Housing                                     |                                                                 | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. The site will potentially require a flood risk assessment due to a small adjacent watercourse.                                                                                                                                                                                                                                                                                                   | Yes                       |
| (PM/TT/HSG093)                            | No                 | East Saltoun –<br>West Crescent                 | Housing                                     |                                                                 | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. The site is not within a Potentially Vulnerable Area.                                                                                                                                                                                                                                                                                                                                            | No                        |

| Site Reference<br>(MIR Site<br>Reference)<br>PM/TT/HSG092 | Preferred Site?  No | Site Name  New Winton              | Proposed Use and indicative housing numbers  Housing | SEPA-allocation<br>potentially at med-<br>high risk of flooding<br>N/A | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. The site is not within a Potentially                                                                                                                                                                                                      | SEPA – FRA Recommended  No |
|-----------------------------------------------------------|---------------------|------------------------------------|------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| PM/TT/HSG025                                              | No                  | Greenhead<br>Farm, West<br>Saltoun | Housing - 20-25                                      |                                                                        | The site is not shown to be at risk of river, surface water or coastal flooding on SEPA's flood map. The site is not within a Potentially Vulnerable Area. Due to a watercourse flowing through the site, a flood risk assessment may potentially be required. SEPA advises that the site is likely to be constrained due to flood risk. | Yes                        |
| PM/TT/HSG036                                              | No                  | Glenkinchie                        | Housing                                              |                                                                        | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. The site is not within a Potentially Vulnerable Area.                                                                                                                                                                                     | No                         |
| PM/TT/HSG061                                              | No                  | Humbie 1                           | Housing                                              | Surface Water -<br>small                                               | SEPA noted that if a significant scale of development took place there may be issues with waste water treatment capacity; a private treatment option would not be supported.  The site is not within a Potentially Vulnerable                                                                                                            | Yes                        |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name | Proposed Use and indicative housing numbers | SEPA-allocation potentially at medhigh risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-----------|---------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                           |                    |           |                                             |                                                         | Area. SEPA has not raised any concerns with regards flood risk or potential impact on the water environment. The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                                                                         |                           |
| PM/TT/HSG062                              | No                 | Humbie 2  | Housing                                     |                                                         | SEPA has pointed out that existing farm buildings are served by septic tanks but new development should connect to the public sewer. Existing buildings should ideally also be served by any new sewer connection. The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map and the site is not within a Potentially Vulnerable Area. SEPA has not raised any concerns with regards flood risk or potential impact on the water environment | No                        |
| PM/TT/HSG063                              | No                 | Humbie 3  | Housing                                     | Surface Water –<br>small part                           | SEPA has pointed out that if a significant scale of development took place there may be issues with waste water treatment capacity; a private treatment option would not be supported.  The site is not within a Potentially Vulnerable Area. SEPA has not raised any concerns with regards flood risk or potential impact on the water environment.                                                                                                                             | No                        |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                           | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-----------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                           |                    |                                                     |                                             |                                                                 | The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                                                                                                                                                                                      |                           |
| PM/TT/MIN001                              | No                 | Windy Mains<br>near Humbie                          | Mineral<br>extraction                       | Surface Water –<br>small part                                   | More information on the type of extraction would be needed.  SEPA advises that there are no water features within the site or on its boundaries but there is potential for dewatering or long-term pumping into a watercourse that may increase risks downstream without mitigation. It is therefore recommended the site be subject to a flood risk assessment. The flood risk from surface water including run- off from adjoining land should be assessed as part of the FRA. | Yes                       |
| PM/TT/HSG017                              | No                 | Field next to<br>Polson Park<br>Western<br>Boundary | Housing - 6                                 |                                                                 | The site is within Potentially Vulnerable Area 10/23. SEPA has not raised any concerns with regards flood risk.                                                                                                                                                                                                                                                                                                                                                                  | No                        |
| PM/TT/HSG003                              | No                 | Birsley Brae,<br>Tranent                            | Housing                                     |                                                                 | The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. The site is within Potentially Vulnerable Area 10/23. SEPA has not raised any concerns with regards flood risk or potential impact on the                                                                                                                                                                                                                                                  | No                        |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                  | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|----------------------------|------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                           |                    |                            |                                                      |                                                                 | water environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |
| PM/TT/HSG054                              | No                 | Meadowmill,<br>Prestonpans | Housing                                              | Surface Water / fluvial – small part                            | Land immediately to the south is at risk of flooding from a water course, with surface water flooding adjacent to this and just within the site boundary. This area could easily be avoided through appropriate design.  The site itself is not shown to be at risk of river or coastal flooding on SEPA's flood map. The site is within Potentially Vulnerable Area 10/23. SEPA recommends the site be subject to a Flood risk assessment. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |
| PM/TT/HSG069                              | No                 | St Josephs<br>School       | Mixed Use                                            | Surface Water                                                   | The northern (currently undeveloped) part of the site is at risk of flooding from the adjacent watercourse. The site will potentially require a flood risk assessment. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.                                                                                                                                                                                                                                                                      | Yes                       |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                                        | Proposed Use and indicative housing numbers            | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PM/TT/HSG082                              | No                 | Meadowmill                                                       | Mixed                                                  | Surface water                                                   | SEPA's flood map indicates that the northwestern part of the site is at risk of flooding from a watercourse, and from surface water. The site will potentially require a flood risk assessment. The site is within Potentially Vulnerable Area 10/23. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.                                                                                                                                                                                 | Yes                       |
| BLINDWELLS                                |                    |                                                                  |                                                        |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |
| PROP BW1<br>(PM/TT/HSG013)                | Yes                | Eastern Extension of Allocated Blindwells Site (see also HSG004) | Mixed Use/housing - potential for up to 1600 dwellings | Surface water/<br>fluvial                                       | SEPA advises that there are reports of flooding on the downstream Seton Burn from additional flows from the mine water pumping at Blindwells.  Watercourses run through the site, and there are areas shown on SEPA's flood maps to be at risk of flooding. There are also issues on the Seton Dean Burn from poorly designed culverts. SEPA considers there may be serious downstream implications should there be any increase in flows. Therefore, a FRA is required which assesses the flood risk from the watercourses located within the site. | Yes                       |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                                                                         | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                           |                    |                                                                                                   |                                             |                                                                 | The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |
| PROP BW2<br>(PM/TT/OTH103)                | Yes                | PM/TT/OTH103<br>(whole area),<br>includes<br>PM/TT/HSG013,<br>PM/TT/OTH003<br>and<br>PM/TT/HSG004 | Mixed use<br>6000                           | Surface Water/<br>fluvial - small part                          | Flooding issues in Seton and it is imperative that this development does not increase the risk of flooding downstream. Groundwater flood risk could be an issue, but currently controlled by pumping by coal authority.  FRA has to take account the hydrological changes brought about by the mining activity which includes runoff rates and groundwater. There should be no increase in runoff rates downstream. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |
| PM/TT/HSG004                              | No                 | Blindwells New<br>Settlement,<br>Eastern<br>expansion of<br>allocated<br>Blindwells               | Housing                                     | Surface Water/<br>fluvial                                       | Watercourses run through the site, and there are areas shown on SEPA's flood maps to be at risk of flooding. SEPA also advises that there are reports of river flooding on the downstream Seton Burn. There are also issues on the Seton Dean Burn from poorly designed culverts. SEPA                                                                                                                                                                                                                                             | Yes                       |

| Site Reference               | Preferred | Site Name               | Proposed Use                   | SEPA-allocation                              | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SEPA – FRA  |
|------------------------------|-----------|-------------------------|--------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| (MIR Site<br>Reference)      | Site?     |                         | and indicative housing numbers | potentially at med-<br>high risk of flooding |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Recommended |
|                              |           |                         |                                |                                              | considers there may be serious downstream implications should there be any increase in flows. Therefore, a FRA is required which assesses the flood risk from the watercourses located within the site. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.                                                                                                                                                                                                                   |             |
| PM/PP/OTH003                 | No        | Blindwells East         | Mixed use                      | Surface Water                                | There are reports of flooding on the downstream Seton Burn from additional flows from the mine water pumping at Blindwells.  Watercourses run through the site, and there are areas shown on SEPA's flood maps to be at risk of flooding. There are also issues on the Seton Dean Burn from poorly designed culverts. SEPA considers there may be serious downstream implications should there be any increase in flows.  The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes         |
| MIR/TT/128,<br>MIR/TT/OTH016 | No        | Blindwells<br>Expansion | Housing<br>(northwest          | Surface Water                                | SEPA comment that there is surface water flood risk on part of the site, and multiple                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes         |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                   | Proposed Use<br>and indicative<br>housing<br>numbers                                  | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-----------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| and<br>MIR/TT/OTH017                      |                    | South of A1                 | section), Other<br>(southeast<br>section),<br>Woodland<br>planting (south<br>of A199) |                                                                 | watercourses through the site. There are reports of flooding on the nearby Seton Burn from additional flows from the mine water pumping at Blindwells.  SEPA will require a FRA to look at the risk from the small watercourses. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.                                    |                           |
| HADDINGTON                                |                    |                             |                                                                                       |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                    |                           |
| PROP HN1<br>(SDP/HN/HSG001)               | Committed          | Letham Mains                | Housing - 800                                                                         | Fluvial                                                         | The site is at risk of flooding from the two burns that flow through the centre and along its eastern boundary. The site is not within a Potentially Vulnerable Area as identified by SEPA. A flood risk assessment has already been prepared for the site to assess the flood risk from the burns and the masterplan safeguards areas from vulnerable development as appropriate. | Yes                       |
| PROP HN2<br>(PREF-H2)                     | Yes                | Letham Mains<br>(expansion) | Housing - 275                                                                         | Fluvial - small part                                            | Letham burn flows along the northern boundary of allocation PREF-H2 and a FRA will be required. IER has identified this                                                                                                                                                                                                                                                            | Yes                       |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments | SEPA – FRA<br>Recommended                                                                                                                                                                                                                                             |
|-------------------------------------------|--------------------|-----------|------------------------------------------------------|-----------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           |                    |           |                                                      |                                                                 | source of flooding. | See Report of Examination Issue 07: Haddington Cluster recommended post- examination modification no.2:  In paragraph 2.119 adding the following as a new sentence immediately prior to the final sentence: "A Flood Risk Assessment will be necessary at this site." |

| PROP HN3 (PREF-H1) | Yes | Dovecot       | Housing – 193                 | Fluvial - small part          | FRA was carried out as part of the 13/00071/PPM application which was reviewed with no objection. All development was positioned out-with the functional floodplain  Any new development layout will have to take account the findings of the FRA. Have highlighted that a FRA is required to ensure that any development takes account flood risk.          | Yes |
|--------------------|-----|---------------|-------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| PROP HN4 (PREF-H3) | Yes | Gateside East | Housing led<br>mixed use - 80 | Surface Water –<br>small part | Topographic information was submitted in support of the planning application which showed that there was a 4m height difference between the development and the small watercourse and therefore not at flood risk  Surface water flood map extent picks up the low lying drainage ditch and as a result there is no surface water flood risk to the site. No | No  |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name             | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                        | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-----------------------|------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                           |                    |                       |                                                      |                                                                 | FRA has been requested as there is a significant height difference.                                                                                                                                                                                                                                        |                           |
| PROP HN6<br>(PREF-H4)                     | No                 | Alderston             | Housing - 89                                         | No                                                              | Small watercourse flows along the western boundary and has to be assessed. IER has identified this source of flooding.                                                                                                                                                                                     | No                        |
| PROP HN8<br>(PREF-H5)                     | Yes                | Peppercraig<br>Quarry | Employment                                           | No                                                              | N/A                                                                                                                                                                                                                                                                                                        | No                        |
| ОТН-Н7                                    | Other              | Dovecot               |                                                      | Fluvial - small part                                            | FRA required to assess the risk from the small watercourse. There is also a small drain located at the southern boundary which may also pose a flood risk. IER has identified the risk of flooding                                                                                                         | No                        |
| ОТН-Н6                                    | Other              | Amisfield             | Housing - 500                                        | Fluvial - small part                                            | Significant history of flooding in Haddington in 1775, 1948, 1956 however we hold no information to determine whether site was flooded. ELC have detailed FRA for Haddington and only shows a small risk of flooding to site. SEPA also carried out some modelling, again showing a small risk of flooding | No                        |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                      | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|--------------------------|---------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                           |                    |                          |                                             |                                                                 | FRA required to assess flood risk from Tyne (which could be based on existing studies) but also there is a small watercourse travelling in a north to south direction towards the site which enters a culvert as it reaches the A1. This watercourse is likely to be culverted within the site and has to be addressed. IER has identified the Tyne as a source of flood risk, but no mention of this small watercourse. |                           |
| OTH-H8                                    | Other              | West Letham              | Housing - 600                               | Fluvial - small part                                            | Letham Burn flows along the southern boundary of the site and poses a small flood risk which will have to be identified within a FRA. IER has identified this source of flooding                                                                                                                                                                                                                                         | No                        |
| MIR/HN/HSG125                             | No                 | Letham Mains<br>Holdings | Housing                                     | Surface Water                                                   | Consideration also will need to be given to bridge and culvert structures near to the site.  The site is not shown to be at risk of river flooding on SEPA's flood map. SEPA will require a Flood Risk Assessment to consider the risk from the Letham Burn which flows along the northern boundary. The flood risk from surface water including run-off from adjoining land should be assessed.                         | Yes                       |

| Site Reference<br>(MIR Site<br>Reference) | Preferred Site? | Site Name  Haddington Burial provision | Proposed Use and indicative housing numbers  Burial provision | SEPA-allocation<br>potentially at med-<br>high risk of flooding | The site is not shown to be within or adjacent to an area at risk of flooding from any sources                                                                                                                                                                                                                                                                                                                                   | SEPA – FRA Recommended No |
|-------------------------------------------|-----------------|----------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PM/HN/HSG065                              | No              | Site at<br>Monkrigg Road               | Housing                                                       | Surface Water –<br>small part                                   | on SEPA's flood map.  The site is not shown to be at risk of flooding on SEPA's flood map, with the exception of a                                                                                                                                                                                                                                                                                                               | Yes                       |
|                                           |                 |                                        |                                                               |                                                                 | very small area in the north eastern corner which is shown to be at risk of surface water flooding. The site does lie within Potentially Vulnerable Area 10/24. A small watercourse runs through the site and SEPA has advised that a Flood Risk Assessment would be required to assess the flood risk from this. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. |                           |
| PM/HN/HSG103                              | No              | Gifford                                | Affordable<br>Housing - 40                                    | N/A                                                             | The site is not shown to be within or adjacent to an area at risk of flooding from any sources on SEPA's flood map. SEPA has not raised any concerns with regards flood risk or impact on the local water environment.                                                                                                                                                                                                           | No                        |
| PM/HN/HSG020                              | No              | Garvald Glebe                          | Housing – 10-<br>12                                           | Surface Water                                                   | There is historic evidence of flooding in Garvald (Great Borders Flood of 1948).  The site is adjacent to an area shown as being                                                                                                                                                                                                                                                                                                 | Yes                       |

| Site Reference          | Preferred | Site Name                      | Proposed Use                          | SEPA-allocation                              | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                | SEPA – FRA  |
|-------------------------|-----------|--------------------------------|---------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| (MIR Site<br>Reference) | Site?     |                                | and indicative housing numbers        | potentially at med-<br>high risk of flooding |                                                                                                                                                                                                                                                                                                                                                    | Recommended |
|                         |           |                                |                                       |                                              | at risk of flooding on SEPA's flood map. SEPA has advised that the height difference between the site and flood risk area should mitigate the risk to the site.                                                                                                                                                                                    |             |
| PM/HN/HSG001            | No        | Vacant land at<br>Liberty Hall | Housing - 1                           |                                              | The site is not shown as being at risk of flooding on SEPA's flood map. There is a small watercourse running through the site and another along the SE boundary and the development of the site could have the potential to affect flood risk on site and elsewhere – SEPA would require a Flood Risk Assessment to assess the small watercourses. | Yes         |
| PM/HN/HSG040            | No        | Land at Liberty<br>Hall        | Smallholding with associated housing. | Surface water – very<br>small part           | The site is not shown to be at risk of river flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area. A small watercourse runs along part of the site's boundary.                                                                                                                                                             | Yes         |
| DUNBAR                  |           |                                |                                       |                                              |                                                                                                                                                                                                                                                                                                                                                    |             |
| PROP DR2                | Yes       | Halhill North                  | Housing - 250                         | Surface Water /<br>fluvial – small part      | Report that in 2002 Belhaven Hospital was flooded and patients had to be evacuated                                                                                                                                                                                                                                                                 | Yes         |
| (PREF-D3)               |           |                                |                                       |                                              | with the generator room shut down. Unsure whether any measures have since been put in                                                                                                                                                                                                                                                              |             |

| Site Reference          | Preferred | Site Name   | Proposed Use                         | SEPA-allocation                              | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SEPA – FRA  |
|-------------------------|-----------|-------------|--------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| (MIR Site<br>Reference) | Site?     |             | and indicative<br>housing<br>numbers | potentially at med-<br>high risk of flooding |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Recommended |
|                         |           |             |                                      |                                              | place to mitigate this risk of flooding  Fluvial flood risk identified however watercourse appears to be culverted within the vicinity of the site. There is also a number of drains flowing within the forestry area adjacent to Lochend Kennels. These appear to be culverted and may flow through the site and have to be investigated. IER has identified that the site is at risk of fluvial and surface water flood risk.  The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. |             |
| PROP DR4 (PREF-D4)      | Yes       | Brodie Road | Housing- 50                          | Fluvial - part                               | IER has identified the risk of surface water flooding. This poses a reasonably significant risk to the site.  The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                                                                                                                                       | No          |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name           | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|---------------------|---------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PROP DR5<br>(PREF-D5)                     | Yes                | Newtonlees<br>North | Housing -250                                | Surface Water –<br>small part                                   | IER has identified the risk of surface water flooding.  The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No                        |
| PROP DR6 (PREF-D2)                        | Yes                | Beveridge Row       | Housing - 90                                | Surface Water / coastal – part                                  | The predicted 200 year still water level is 3.84mAOD. A FRA was undertaken for the development site and survey information shows that the site is above the risk of coastal flooding. We have received photographs (when commenting upon the planning application) showing ponding water on the site which has to be taken into account as part of the drainage design.  IER has identified both sources of flooding. Have requested FRA to ensure that the development takes account findings of the FRA.  The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |

| Site Reference<br>(MIR Site<br>Reference)    | Preferred<br>Site? | Site Name                   | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                     | SEPA – FRA<br>Recommended |
|----------------------------------------------|--------------------|-----------------------------|------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PROP DR7<br>(SDP/DR/BUS0004)                 | Yes                | Spott Road                  | Employment                                           | Surface Water –<br>small part (medium<br>risk).                 | The site is within Potentially Vulnerable Area 10/25. It is not within an area at risk of river or coastal flooding based on SEPA's flood map. The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                              |                           |
| PROP DR9<br>(PREF-D7)                        | Yes                | East Linton<br>Auction Mart | Housing                                              | No                                                              | N/A                                                                                                                                                                                                                                                                                                                                                     | No                        |
| PROP DR10<br>(PREF-D12)                      | Yes                | Innerwick East              | Housing - 18                                         | No                                                              | N/A                                                                                                                                                                                                                                                                                                                                                     | No                        |
| PROP DR11<br>(PREF-D10)                      | Yes                | St John Street<br>(Spott)   | Housing - 6                                          | No                                                              | Site lies approximately 15m above the watercourse and therefore not at risk of flooding                                                                                                                                                                                                                                                                 | No                        |
| PROP DR12<br>Site added to LDP<br>though EiP | Committed          | Newtonlees Farm<br>Dunbar   | Housing - 115                                        | Surface Water –<br>small part                                   | 17/00020/PPM – planning permission in principle approved. Flood risk assessment provided with application.  There is a need for further assessment at the detailed application state, which should include an assessment of the potential for groundwater flooding. A detailed SUDS scheme to the satisfaction of the flood authority will be required. |                           |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name               | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-------------------------|------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| PREF-D12                                  | Yes                | Innerwick East          | Housing - 18                                         | No                                                              | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No                        |
| PREF-D9                                   | Yes                | The Crofts<br>(Stenton) | Housing - 16                                         | No                                                              | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No                        |
| ALT-D1                                    | Alternative        | Eweford                 | Housing - 1000                                       | Surface Water / fluvial – small part                            | History of flooding at West Barns with the culvert surcharging the railway line underneath the railway line. We hold no additional information regarding the history of flooding and recommend contact is made with flood prevention officer  There is a small watercourse which is culverted through the site at Eweford and flows underneath the railway line. IER has identified the risk of surface water flooding.  The flood risk from surface water including run-off from adjoining land should be assessed. | No                        |

| Site Reference<br>(MIR Site<br>Reference) | Preferred Site?  Alternative | Site Name                            | Proposed Use and indicative housing numbers  Housing - 18 | SEPA-allocation potentially at med- high risk of flooding | Flood Risk Comments  N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SEPA – FRA<br>Recommended |
|-------------------------------------------|------------------------------|--------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,   | riterinative                 | milet wick west                      | 110031115                                                 |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |
| OTH-D8                                    | Other                        | East Linton Expansion Area of Search |                                                           | Surface Water / fluvial – small part                      | Recorded flood level of 20.26mAOD within the centre of East Linton as shown by a plaque on wall. Approximately the 1 in 200 year flood level. 1948 event affected a significant area of Phantassie Farm as well some properties within the centre of East Linton  Vast majority of the site is developable. Any new development should be located out-with the 1 in 200 year functional floodplain. IER has identified the risk of flooding to the site which includes surface water.  The flood risk from surface water including run-off from adjoining land should be assessed. |                           |
| MIR/DR/HSG118                             | No                           | Brands Mill,<br>Broxburn             | Housing                                                   | No                                                        | There appears to be sufficient height difference between the site and the channel. Runoff to the Brox Burn will need to be                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                           |                    |                                          |                                                      |                                                                 | carefully managed to ensure there is no increase in risk to the immediate downstream properties.  The site is shown to not be at risk of surface water flooding or river flooding on SEPA's flood map.                                                                                                                                                                                                                                                                                                             |                           |
| MIR/DR/HSG126                             | No                 | Land at Sheriff<br>Fields, West<br>Barns | Agriculture                                          | Surface water - to<br>the North                                 | The site is shown to be at medium risk of river flooding due to proximity to the Biel Water on SEPA's flood map. SEPA note flooding was experienced in West Barns in 2002, 2007, and 2009. A FRA assessing the risk from the Biel Water and mill lade which flows through the site, as well as surface water issues, will also be required. The site is likely to be constrained due to flood risk. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes                       |
| MIR/DR/OTHO19a                            | No                 | Dunbar Burial<br>Provision               | Burial provision                                     |                                                                 | The site is not shown to be within or adjacent to an area at risk of flooding from any sources on SEPA's flood map.                                                                                                                                                                                                                                                                                                                                                                                                | No                        |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                          | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                  | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|------------------------------------|------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| MIR/DR/HSG124                             | No                 | Drylaw, East<br>Linton             | Housing - 215                                        | Surface water                                                   | The contours suggest a sufficient height difference between the site and the Tyne to avoid flooding from this source. The site is not shown to be at risk of river flooding on SEPA's flood map.  The site is not within a Potentially Vulnerable Area.  The flood risk from surface water including run-off from adjoining land should be assessed. | No                        |
| MIR/DR/HSG123                             | No                 | Phantassie<br>Farm, East<br>Linton | Housing                                              | Surface water –<br>north west(High<br>Risk)                     | SEPA state that they would require an FRA which assesses the risk from the River Tyne which flows along the west and north perimeter of the site.  The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.                                                                                    | Yes                       |
| MIR/DR/HSG132                             | No                 | Preston Mains,<br>East Linton      | Housing - 250                                        | Surface water                                                   | SEPA state that OS Map contours suggest a sufficient height difference between the site and the River Tyne to avoid flooding of the site from the Tyne.  The site is shown to not be at risk of river flooding on SEPA's flood map.  The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA.  | Yes                       |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                       | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|---------------------------------|------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| MIR/DR/OTHO20                             | No                 | East Linton<br>Burial Provision | Burial provision                                     |                                                                 | The site is not shown to be within or adjacent to an area at risk of flooding from any sources on SEPA's flood map.                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No                        |
| PM/DR/HSG109                              | No                 | Station Road<br>Field           | Housing                                              | No                                                              | The site is within Potentially Vulnerable area 10/25. It is not within an area at risk of river, coastal or surface water flooding based on SEPA's flood map.                                                                                                                                                                                                                                                                                                                                                                                                        | No                        |
| PM/DR/HSG090                              | No                 | East Linton<br>West Expansion   | Housing                                              | No                                                              | The site is not within a Potentially Vulnerable Area. SEPA's flood map does not identify the site as being at risk of river, coastal or surface water flooding.                                                                                                                                                                                                                                                                                                                                                                                                      | No                        |
| PM/DR/HSG038                              | No                 | Land at Kennel<br>Brae          | Housing -3                                           | Fluvial - adjacent                                              | Due to historic flooding downstream and near the site careful consideration must be given to development on site to ensure there is no increase of runoff downstream which could affect vulnerable receptors including Belhaven hospital and the railway line.  The site is within Potentially Vulnerable Area 10/25. A very small part of the northern tip of the site is within an area at risk of flooding from a watercourse. SEPA has commented that an FRA would be required to assess the flood risk from the small watercourse which flows through the site. | Yes                       |

| Site Reference             | Preferred | Site Name                                 | Proposed Use                                         | SEPA-allocation                              | Flood Risk Comments                                                                                                                                                                                                                                  | SEPA – FRA  |
|----------------------------|-----------|-------------------------------------------|------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| (MIR Site<br>Reference)    | Site?     |                                           | and indicative housing numbers                       | potentially at med-<br>high risk of flooding |                                                                                                                                                                                                                                                      | Recommended |
| PM/DR/HSG035               | No        | Land at<br>Broxburn<br>Cottages           | Housing                                              | No                                           | The site is not within a Potentially Vulnerable Area or identified as being within an area at risk of coastal, river or surface water flooding on SEPA's flood map.                                                                                  | No          |
| PM/DR/OTH004               | No        | Land to East of<br>A1 Little<br>Pinkerton | Road side uses                                       | No                                           | The site is not within a Potentially Vulnerable Area. SEPA's flood map does not show that the site is at risk from river, coastal or surface water flooding.                                                                                         | No          |
| PM/DR/OTH008               | No        | North West<br>Quarry                      | Biodiversity<br>enhancements<br>and<br>conservation, | Surface water –<br>small part                | There is an existing water body, however it is intended that the presence of water would be used to create and enhance nature habitats. SEPA has advised that an FRA to assess coastal flood risk would be needed should any other uses be proposed. | No          |
| PM/DR/HSG005               | No        | Blue Row<br>Cottages                      | Housing                                              | No                                           | SEPA has stated that a Flood Risk Assessment would be required to assess flood risk from the small watercourse which flows along the eastern site boundary.                                                                                          | Yes         |
| PROP NK4<br>(PM/NK/HSG070) | Yes       | Tantallon Road,<br>North Berwick          | Mixed use                                            | No                                           | The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area.                                                                                                                | No          |

| Site Reference          | Preferred   | Site Name                            | Proposed Use                         | SEPA-allocation                              | Flood Risk Comments                                                                                                                                                                                      | SEPA – FRA  |
|-------------------------|-------------|--------------------------------------|--------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| (MIR Site<br>Reference) | Site?       |                                      | and indicative<br>housing<br>numbers | potentially at med-<br>high risk of flooding |                                                                                                                                                                                                          | Recommended |
| PROP NK5<br>(ALT-N1)    | Alternative | Ferrygate                            | Housing - 200                        | No                                           | N/A                                                                                                                                                                                                      | No          |
| PROP NK6<br>(PREF-N5)   | Yes         | Fire Service<br>College<br>(Gullane) | Housing led<br>mixed use - 100       | Surface Water –<br>small part                | IER has identified surface water flooding issue. Only a very small part of the site is shown to be at risk.  The flood risk from surface water including run-off from adjoining land should be assessed. | No          |
| PROP NK7<br>(PREF-N8)   | Yes         | Saltcoats<br>(Gullane)               | Housing - 150                        | No                                           | N/A                                                                                                                                                                                                      | No          |
| PROP NK8<br>(ALT-N6)    | Alternative | · · ·                                | Housing - 70                         | No                                           | N/A                                                                                                                                                                                                      | No          |
| PROP NK9<br>(ALT-N7)    | Alternative |                                      | Housing - 15                         | No                                           | N/A                                                                                                                                                                                                      | No          |
| PROP NK10<br>(PREF-N9)  | Yes         | Aberlady West                        | Housing - 100                        | No                                           | N/A                                                                                                                                                                                                      | No          |
| PROP NK11<br>PREF-N4    | Yes         | Castlemains<br>(Dirleton)            | Housing - 30                         | No                                           | N/A                                                                                                                                                                                                      | No          |
| PREF-N2                 | Yes         | Tantallon Road                       | Employment                           | No                                           | N/A                                                                                                                                                                                                      | No          |
| ALT-N3                  | Alternative | Foreshot<br>Terrace                  | Housing - 30                         | No                                           | N/A                                                                                                                                                                                                      | No          |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                     | Proposed Use and indicative housing numbers                                                                                                                                                             | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                                                                     | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                           |                    | (Dirleton)                                    |                                                                                                                                                                                                         |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |
| ALT-N10                                   | Alternative        | Aberlady East                                 | Housing - 100                                                                                                                                                                                           | No                                                              | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                     | No                        |
| OTH-N11                                   | Other              | Potential Drem<br>Expansion Area<br>of Search | Housing led<br>mixed use                                                                                                                                                                                | Surface Water / fluvial – small part                            | Vast majority of the site is developable and the detail of the FRA will be determined by the location of the new development. All culverts should be taken into consideration. There appears to be informal embankments along the Peffer Burn which should not be taken into consideration as offering protection to the development site.  The flood risk from surface water including run-off from adjoining land should be assessed. | No                        |
| MIR/NK/HSG138                             | No                 | Mains Farm<br>South                           | Housing  Surface water - medium  The site is not shown to be at risk of river flooding on SEPA's flood map. The flood risk from surface water including run-off from adjoining land should be assessed. |                                                                 | No                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |
| MIR/NK/HSG131                             | No                 | Land to the<br>south of<br>Bunkershill        | Housing                                                                                                                                                                                                 | No                                                              | The site is not shown to be within or adjacent to an area at risk of flooding from any sources on SEPA's flood map.                                                                                                                                                                                                                                                                                                                     | No                        |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                                                                                                                                                                                                                                            | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                            | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| MIR/NK/OTHO22                             | No                 | Aberlady Burial<br>Provision                                                                                                                                                                                                                         |                                                      |                                                                 | The site is not shown to be within or adjacent to an area at risk of flooding from any sources on SEPA's flood map.                                                                                            | No                        |
| MIR/NK/HSG006b                            | No                 | Bickerton Fields<br>AKA Aberlady<br>East (Northern<br>Field)                                                                                                                                                                                         | Housing and<br>Orchard                               |                                                                 | The northern half of the site is shown to be at medium risk of coastal flooding. The site is not shown to be at risk of river or surface flooding on SEPA's flood map. It is in a Potentially Vulnerable Area. |                           |
| MIR/NK/OTHO23                             | No                 | Dirleton Burial<br>Provision                                                                                                                                                                                                                         | Burial                                               |                                                                 | The site is not shown to be within or adjacent to an area at risk of flooding from identified sources on SEPA's flood map however it is in a Potentially Vulnerable Area.                                      | No                        |
| MIR/NK/HSG122                             | No                 | Land at Drem Housing Surface water – High Risk SEPA would require an FRA which assesses the risk from the Peffer Burn and tributaries The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. |                                                      | Yes                                                             |                                                                                                                                                                                                                |                           |
| MIR/NK/HSG136                             | No                 | Land south and<br>west of Drem                                                                                                                                                                                                                       | Housing                                              | Surface water –<br>small pockets (High<br>Risk)                 | The site is not shown to be at risk of river flooding on SEPA's flood map. The flood risk from surface water including run-off from adjoining land should be assessed.                                         | No                        |

| Site Reference          | Preferred | Site Name                     | Proposed Use                         | SEPA-allocation                                                                                                                            | Flood Risk Comments                                                                                                                                                                                                                                                                       | SEPA – FRA  |
|-------------------------|-----------|-------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| (MIR Site<br>Reference) | Site?     |                               | and indicative<br>housing<br>numbers | potentially at med-<br>high risk of flooding                                                                                               |                                                                                                                                                                                                                                                                                           | Recommended |
| MIR/NK/HSG137           | No        | Land at Fenton<br>Barns       | Housing - 1000                       | Surface water –<br>small pockets                                                                                                           | The site is not shown to be at risk of river flooding on SEPA's flood map. The flood risk from surface water including run-off from adjoining land should be assessed.                                                                                                                    | No          |
| MIR/NK/HSG121a          | No        | Land at Fenton<br>Barns       | Housing                              | Surface water –<br>small pockets<br>(medium risk)                                                                                          | The site is not shown to be at risk of river flooding on SEPA's flood map. SEPA would require a Flood Risk Assessment to assess the risk from flooding of the Peffer Burn. The flood risk from surface water including run-off from adjoining land should be assessed as part of the FRA. | Yes         |
| MIR/ NK/OTH024          | No        | Whitekirk Burial<br>Provision | Burial provision                     |                                                                                                                                            | The site is not shown to be within or adjacent to an area at risk of flooding from any sources on SEPA's flood map.                                                                                                                                                                       | No          |
| PM/NK/HSG071            | No        | Tantallon Road                | Housing - 15                         | 5 No The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area. |                                                                                                                                                                                                                                                                                           | No          |
| PM/NK/HSG022            | No        | Glebe House                   | Housing                              | No                                                                                                                                         | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area.                                                                                                                                            | No          |

| Site Reference<br>(MIR Site<br>Reference) | IR Site Site? and indicative                                                                                                                                                                                                   |                                                                         | SEPA-allocation potentially at medhigh risk of flooding |                                                                                                                                           | SEPA – FRA<br>Recommended                                                                                                                      |    |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----|
| PM/NK/HSG084                              | No                                                                                                                                                                                                                             | Gilsland Housing Group within Former Hospital Compound at Newhouse Road | Housing - 6                                             |                                                                                                                                           | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area. | No |
| PM/NK/HSG026a                             | No                                                                                                                                                                                                                             | Muirfield,<br>Gullane                                                   | Housing                                                 | No                                                                                                                                        | The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area.          | No |
| PM/NK/OTH006                              | No                                                                                                                                                                                                                             | Land at Morin<br>Builders yard,                                         |                                                         | No  The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area. |                                                                                                                                                | No |
| PM/NK/HSG098                              | Yes Aberlady – Elcho Terrace housing –24  Affordable housing –24  The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. Aberlady is however within Potentially Vulnerable Area 10/23. |                                                                         | No                                                      |                                                                                                                                           |                                                                                                                                                |    |
| PM/NK/HSG039                              | No                                                                                                                                                                                                                             | Land at Kirk<br>Road, Aberlady                                          | Affordable<br>housing –20                               | No                                                                                                                                        | The rivers in the vicinity of Aberlady have been classified as 'bad' ecological status by SEPA. The site is not shown to be at risk of river,  |    |

| Site Reference          | Preferred | Site Name                                         | Proposed Use                                                                    | SEPA-allocation                              | Flood Risk Comments                                                                                                                            | SEPA – FRA  |
|-------------------------|-----------|---------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| (MIR Site<br>Reference) | Site?     |                                                   | and indicative<br>housing<br>numbers                                            | potentially at med-<br>high risk of flooding |                                                                                                                                                | Recommended |
|                         |           |                                                   |                                                                                 |                                              | surface or coastal flooding on SEPA's flood<br>map. Aberlady is however within Potentially<br>Vulnerable Area 10/23.                           |             |
| PM/NK/HSG046            | No        | Land off Castle<br>Park, Dirleton                 | Housing – 4-5                                                                   | No                                           | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area. | No          |
| PM/NK/HSG047            | No        | Land to the East<br>of Ware Road,<br>Dirleton.    | Housing – 15-<br>20                                                             | No                                           | The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area.          | No          |
| PM/NK/HSG049            | No        | Land to the<br>south of Gylers<br>Road, Dirleton. | Housing – 45-<br>50                                                             | No                                           | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area. | No          |
| PM/NK/HSG068            | No        | Speedwell<br>Gardens,<br>Dirleton                 | Housing – 2                                                                     | No                                           | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area. | No          |
| PM/NK/OTH009            | No        | Rathowan,<br>Main Road,<br>Dirleton               | Garden ground<br>for existing<br>dwelling<br>(inclusion<br>within<br>settlement |                                              | N/A                                                                                                                                            |             |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                 | Proposed Use and indicative housing numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                                                                                                                                                                           | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|---------------------------|---------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                           |                    |                           | boundary)                                   |                                                                 |                                                                                                                                                                                                                                                                                                                                               |                           |
| PM/NK/HSG085                              | No                 | Dirleton Glebe            | Housing – 10-<br>12                         |                                                                 | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area. A small watercourse runs along the western and northern boundaries and SEPA has advised that a Flood Risk Assessment would be required to assess the impact on the Eel Burn and its tributary. | Yes                       |
| PM/NK/HSG033                              | Yes                | Land at<br>Athelstaneford | Housing                                     | No                                                              | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area.                                                                                                                                                                                                | No                        |
| PM/NK/HSG045                              | No                 | Athelstaneford<br>Glebe   | Housing                                     |                                                                 | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area.                                                                                                                                                                                                | No                        |
| PM/NK/HSG083                              | No                 | East Fortune<br>Hospital  | Housing –<br>approximately<br>300           |                                                                 | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area.                                                                                                                                                                                                | No                        |
| PM/NK/HSG100                              | No                 | Whitekirk Rural           | Affordable                                  |                                                                 | The East Peffer Burn in the vicinity of                                                                                                                                                                                                                                                                                                       | No                        |

| Site Reference Preferred (MIR Site Site? Reference) |    | Site Name                    | Proposed Use and indicative housing numbers      | SEPA-allocation potentially at medhigh risk of flooding                                                                               | Flood Risk Comments                                                                                                                                                                                                                                                                                                                                                                    | SEPA – FRA<br>Recommended |  |
|-----------------------------------------------------|----|------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--|
|                                                     |    | Affordable<br>Housing Option | Housing                                          |                                                                                                                                       | Whitekirk is classed as 'bad' ecological status by SEPA and is also identified as sensitive area under the Urban Waste Water Treatment Directive The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area.                                                                                                 |                           |  |
| PM/NK/HSG094                                        | No | Potential Drem<br>Expansion  | Small scale<br>village<br>expansion –<br>housing |                                                                                                                                       | Rivers in the vicinity of Drem were classified as 'bad' ecological status in 2008 by SEPA including Gosford Burn And West Peffer Burn. West Peffer Burn is also designated as a sensitive area under the Urban Waste Water Treatment Directive.  The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area. | No                        |  |
| PM/NK/HSG108                                        | No | Drem – The<br>Chesters       | Affordable housing                               | The site is not shown to be at risk of river or coastal flooding on SEPA's flood map. It is not within a Potentially Vulnerable Area. |                                                                                                                                                                                                                                                                                                                                                                                        | No                        |  |
| PM/NK/HSG016                                        | No | Fenton Barns                 | Mixed use                                        |                                                                                                                                       | West Peffer/ Mill Burn is classified as being of bad ecological status and is designated as a sensitive area under the Urban Waste Water Treatment Directive.  The site is not shown to be at risk of river or                                                                                                                                                                         | No                        |  |

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name                               | Proposed Use<br>and indicative<br>housing<br>numbers | SEPA-allocation<br>potentially at med-<br>high risk of flooding | Flood Risk Comments                                                                                                                                                                              | SEPA – FRA<br>Recommended |
|-------------------------------------------|--------------------|-----------------------------------------|------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                           |                    |                                         |                                                      |                                                                 | coastal flooding, but small areas are susceptible to surface flooding, as shown on SEPA's flood map. The flood risk from surface water including run-off from adjoining land should be assessed. |                           |
| PM/NK/HSG064                              | No                 | Site at<br>Camptoun, near<br>Haddington | Housing – 3-4                                        | No                                                              | The site is not shown to be at risk of river, surface or coastal flooding on SEPA's flood map. The site is within Potentially Vulnerable Area 10/23.                                             |                           |

## ANNEX 1

| Site Reference<br>(MIR Site<br>Reference) | Preferred<br>Site? | Site Name            | Proposed Use<br>and Indicative<br>housing<br>numbers | SEPA-<br>allocation<br>potentially at<br>med-high risk<br>of flooding | Flood risk comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SEPA - FRA<br>Recommended                              | Post-examination modification to LDP |
|-------------------------------------------|--------------------|----------------------|------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------|
| MUSSELBURGH                               |                    |                      |                                                      |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |                                      |
| MH10                                      | Yes                | Land at Dolphinstone | Housing - 600                                        |                                                                       | Known flooding issues downstream of site. Flood Risk Assessment required to assess risk from small watercourse on eastern boundary adjacent to A1 and Ravenshaugh Burn which appears to be culverted along western boundary of site. SEPA provided significant input as part of Masterplan application and did not object on grounds of flood risk. ELC requested a Surface Water Drainage Assessment to ensure there was no increased flood risk downstream. ELC will therefore also require an appropriate Surface Water Drainage Assessment prior to commencement of works on site | Yes - and a surface water drainage assessment required | N/A                                  |

| MH11      | Yes       | New       | Education - 6.2 | Known flooding issues            | Yes - and a   | See Report of Examination      |
|-----------|-----------|-----------|-----------------|----------------------------------|---------------|--------------------------------|
|           |           | Secondary | ha              | downstream of site. Flood Risk   | surface water | Issue 03: Musselburgh Cluster  |
|           |           | School    |                 | Assessment required to assess    | drainage      | recommended post-              |
|           |           | Provision |                 | risk from small watercourse      | assessment    | examination modification       |
|           |           |           |                 | on eastern boundary adjacent     | required      | no.3:                          |
|           |           |           |                 | to A1 and Ravenshaugh Burn       |               |                                |
|           |           |           |                 | which appears to be culverted    |               | In paragraph 2.36, adding the  |
|           |           |           |                 | along western boundary of        |               | following sentence at the end: |
|           |           |           |                 | site. SEPA provided significant  |               | "A Flood Risk Assessment will  |
|           |           |           |                 | input as part of Masterplan      |               | be required for this site."    |
|           |           |           |                 | application and did not object   |               |                                |
|           |           |           |                 | on grounds of flood risk. ELC    |               |                                |
|           |           |           |                 | requested a Surface Water        |               |                                |
|           |           |           |                 | Drainage Assessment to           |               |                                |
|           |           |           |                 | ensure there was no increased    |               |                                |
|           |           |           |                 | flood risk downstream. ELC       |               |                                |
|           |           |           |                 | will therefore also require an   |               |                                |
|           |           |           |                 | appropriate Surface Water        |               |                                |
|           |           |           |                 | Drainage Assessment prior to     |               |                                |
|           |           |           |                 | commencement of works on         |               |                                |
|           |           |           |                 | site                             |               |                                |
| Table MH1 | Committed | Brunton   | Housing - 140   | There are a number of records    | Yes           | See Report of Examination      |
|           |           | Wireworks |                 | of flooding along the River Esk  |               | Issue 03: Musselburgh Cluster  |
|           |           |           |                 | in Musselburgh. ELC have a       |               | recommended post-              |
|           |           |           |                 | flood study for this area. Flood |               | examination modification       |
|           |           |           |                 | Risk Assessment required to      |               | no.5:                          |
|           |           |           |                 | assess flood risk from the       |               |                                |
|           |           |           |                 | River Esk. Topographical         |               | In paragraph 2.45, inserting   |
|           |           |           |                 | information on existing and      |               | third and fourth sentences as  |
|           |           |           |                 | proposed site levels and         |               | follows:                       |
|           |           |           |                 | finished floor levels may be     |               |                                |
|           |           |           |                 | sufficient to address concerns.  |               | "Since they were previously    |
|           |           |           |                 | The site is not known to be at   |               | allocated, these sites may be  |
|           |           |           |                 | risk of flooding - Appl.         |               | affected by legislative and    |
|           |           |           |                 | 16/01029/AMM granted             |               | regulatory changes, as well as |

|           |           |                         |              | 29.09.17 with a SuDS condition                                                                                                                                                                 |    | identified changes to the physical environment including updated flood risk mapping. Up to date information, including flood risk assessment where necessary, will require to be submitted to ensure compliance with current legislation and the policy provisions of the plan." |
|-----------|-----------|-------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table MH1 | Committed | Drummohr<br>House       | Housing - 10 | Known flooding issues nearby at Goshen and land to the south although no details of flooding at this site. The site is not known to be at risk of flooding - Appl. 16/00530/P granted 06.09.17 | No | See Report of Examination Issue 03: Musselburgh Cluster recommended post- examination modification no.5 (as above)                                                                                                                                                               |
| Table MH1 | Committed | Chalkieside<br>Steading | Housing - 9  | The site is not known to be at risk of flooding - Appl. 15/00696/P granted 07.11.16                                                                                                            | No | See Report of Examination Issue 03: Musselburgh Cluster recommended post- examination modification no.5 (as above)                                                                                                                                                               |

| PRESTONPANS |            |              |             |                                  |     |                                |
|-------------|------------|--------------|-------------|----------------------------------|-----|--------------------------------|
|             |            |              |             |                                  |     |                                |
|             |            |              |             |                                  |     |                                |
| Table PS1   | Not in MIR | West Seaside | Housing - 9 | The site lies a short distance   | Yes | See Report of Examination      |
|             | (lapsed)   |              |             | from the coastal flood           |     | Issue 04: Prestonpans Cluster  |
|             |            |              |             | envelope. For information, an    |     | recommended post-              |
|             |            |              |             | approximate 1 in 200-year        |     | examination modification       |
|             |            |              |             | water level for this area is     |     | no.3:                          |
|             |            |              |             | 3.96mAOD (+/- 0.3m) based        |     |                                |
|             |            |              |             | on extreme still water level     |     | In paragraph 2.62, inserting   |
|             |            |              |             | calculations using the Coastal   |     | third and fourth sentences as  |
|             |            |              |             | Flood Boundary Method. This      |     | follows:                       |
|             |            |              |             | does not take account the        |     |                                |
|             |            |              |             | potential effects of wave        |     | "Since they were previously    |
|             |            |              |             | action, funnelling or local      |     | allocated, these sites may be  |
|             |            |              |             | bathymetry. Prestonpans          |     | affected by legislative and    |
|             |            |              |             | Flood Prevention Scheme          |     | regulatory changes, as well as |
|             |            |              |             | 1972 runs to the north. At       |     | identified changes to the      |
|             |            |              |             | location of the site this        |     | physical environment           |
|             |            |              |             | consists of masonry wall for     |     | including updated flood risk   |
|             |            |              |             | coastal protection. There is     |     | mapping. Up to date            |
|             |            |              |             | currently a masonary wall that   |     | information, including flood   |
|             |            |              |             | is not a formal flood defence,   |     | risk assessment where          |
|             |            |              |             | but offers some protecton to     |     | necessary, will require to be  |
|             |            |              |             | the site. Information on         |     | submitted to ensure            |
|             |            |              |             | existing and proposed site       |     | compliance with current        |
|             |            |              |             | levels and finished floor levels |     | legislation and the policy     |
|             |            |              |             | should be provided to            |     | provisions of the plan."       |
|             |            |              |             | demonstrate site is free from    |     |                                |
|             |            |              |             | coastal flood risk. No flood     |     |                                |
|             |            |              |             | risk shown on SEPA Flood         |     |                                |
|             |            |              |             | Hazard Maps but site may be      |     |                                |
|             |            |              |             | liable to wave overtopping in    |     |                                |
|             |            |              |             | extreme conditions. A Flood      |     |                                |

|           |           |                                                     |              | Risk Assessment will be required.                                                                                                                                                                                                                                                                                                                                                                   |    |                                                                                                                    |
|-----------|-----------|-----------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------|
|           |           |                                                     |              |                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                    |
|           |           |                                                     |              |                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                    |
| Table PS1 | Committed | Cockenzie House (housing proposal not nursing home) | Housing - 20 | The site lies a short distance from the coastal flood envelope. For information, an approximate 1 in 200-year water level for this area is 3.96mAOD (+/- 0.3m) based on extreme still water level calculations using the Coastal Flood Boundary Method. This does not take account the potential effects of wave action, funnelling or local bathymetry. The site has potential Surface Water flood | No | See Report of Examination Issue 04: Prestonpans Cluster recommended post- examination modification no.3 (as above) |

|           |           |                        |             | risk shown therefore a Surface Water Drainage Assessment may be required prior to commencement of works on site - Appl. 11/00692/P - granted 25.08.14                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                                                                                    |
|-----------|-----------|------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------|
| Table PS1 | Committed | Seton East<br>Steading | Housing - 9 | Multiple reports of flooding in surrounding area. Primarily source of flooding attributed to Blindwells mine workings and flooding from groundwater. There appears to be a watercourse culverted through the southern part of the site (access road) and under Fishergate Road. Further information on this watercourse culvert should be provided to demonstrate it does not pose a flood risk to the site. We would also recommend further investigation of groundwater levels. East Lothian Council may have further information on the mine workings and associated flooding. It is likely | Yes | See Report of Examination Issue 04: Prestonpans Cluster recommended post- examination modification no.3 (as above) |

| TRANENT   |           |                                |             | the site is largely developable. The Council notes that only a small part of the site to the south east where there is no existing built development is at flood risk, as shown on SEPA flood map. In relation to proposal 15/00213/P it would see the access road does cross an area of land at flood risk, however SEPA raise no objection on flood risk grounds. SEPA did acknowledge that there is recognised groundwater and associated flood risk from watercourse/culvert on adjoining land, therefore an assessment of this risk will be required. Appl 15/00213/P - pending |    |                                                                             |
|-----------|-----------|--------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------|
| TT2       | Yes       | Windygoul<br>Primary<br>School | Education   | The flood risk from surface water including run-off from adjoining land should be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No | N/A                                                                         |
|           |           | Expansion<br>Land              |             | assessed as part of a Surface Water Drainage Assessment which may be required prior to commencement of works on site                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                                                                             |
| Table TT1 | Committed | Westbank<br>Steading           | Housing - 6 | The site is not known to be at risk of flooding - Appl. 16/00531/P - pending                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No | See Report of Examination<br>Issue 06: Tranent Cluster<br>recommended post- |

|  |  |  | examination modification no.12:                                                                            |
|--|--|--|------------------------------------------------------------------------------------------------------------|
|  |  |  | In paragraph 2.108, inserting third and fourth sentences as follows:                                       |
|  |  |  | "Since they were previously allocated, these sites may be affected by legislative and                      |
|  |  |  | regulatory changes, as well as identified changes to the physical environment including updated flood risk |
|  |  |  | mapping. Up to date information, including flood risk assessment where necessary, will require to be       |
|  |  |  | submitted to ensure compliance with current legislation and the policy                                     |
|  |  |  | provisions of the plan."                                                                                   |

| Table TT1 | Draft LDP | Highlea   | Housing - 5 | Flood Risk Assessment           | Yes | See Report of Examination |
|-----------|-----------|-----------|-------------|---------------------------------|-----|---------------------------|
|           | stage     | Steading, |             | required to assess the risk to  |     | Issue 06: Tranent Cluster |
|           | (lapsed)  | Humbie    |             | the site from the tributary of  |     | recommended post-         |
|           |           |           |             | the Humbie Water which runs     |     | examination modification  |
|           |           |           |             | to the south of the site.       |     | no.12 (as above)          |
|           |           |           |             | Should there be significant     |     |                           |
|           |           |           |             | elevation difference between    |     |                           |
|           |           |           |             | the watercourse and the site    |     |                           |
|           |           |           |             | then topographical              |     |                           |
|           |           |           |             | information may be sufficient.  |     |                           |
|           |           |           |             | The site is shown to have a     |     |                           |
|           |           |           |             | flood risk on SEPA flood map.   |     |                           |
|           |           |           |             | ELC is unsure why this should   |     |                           |
|           |           |           |             | be the case. It seems to be     |     |                           |
|           |           |           |             | potential fluvial/surface water |     |                           |
|           |           |           |             | flood risk. Therefore a flood   |     |                           |
|           |           |           |             | risk assessment/Surface         |     |                           |
|           |           |           |             | Water Drainage Assessment       |     |                           |
|           |           |           |             | will be required - App.         |     |                           |
|           |           |           |             | 17/00674/P - pending            |     |                           |

| Table TT1 | Not in MIR | Highlea | Housing - 6 | Flood Risk Assessment          | Yes | See Report of Examination |
|-----------|------------|---------|-------------|--------------------------------|-----|---------------------------|
|           |            | Farm,   | - 5 -       | required to assess the risk to |     | Issue 06: Tranent Cluster |
|           |            | Humbie  |             | the site from the tributary of |     | recommended post-         |
|           |            | _       |             | the Humbie Water which runs    |     | examination modification  |
|           |            |         |             | to the south of the site.      |     | no.12 (as above)          |
|           |            |         |             | Should there be significant    |     | (111111)                  |
|           |            |         |             | elevation difference between   |     |                           |
|           |            |         |             | the watercourse and the site   |     |                           |
|           |            |         |             | then topographical             |     |                           |
|           |            |         |             | information may be sufficient. |     |                           |
|           |            |         |             | The site is not shown to have  |     |                           |
|           |            |         |             | a flood risk on SEPA flood map |     |                           |
|           |            |         |             | (although an area to the south |     |                           |
|           |            |         |             | is shown to be i.e. TT1).      |     |                           |
|           |            |         |             | Application 16/00782/P         |     |                           |
|           |            |         |             | granted 25.09.17               |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |
|           |            |         |             |                                |     |                           |

| HADDINGTON |            |                |              |                                                 |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------|------------|----------------|--------------|-------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table HN1  | Not in MIR | Gifford Garage | Housing - 10 | The site is not known to be at risk of flooding | No | See Report of Examination Issue 07: Haddington Cluster recommended post- examination modification no.5:  In paragraph 2.127, inserting third and fourth sentences as follows:  "Since they were previously allocated, these sites may be affected by legislative and regulatory changes, as well as identified changes to the physical environment including updated flood risk mapping. Up to date information, including flood risk assessment where necessary, will require to be submitted to ensure compliance with current legislation and the policy provisions of the plan." |

| DUNBAR    |                       |                                                           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          |                                                                                                                                                                                                                                                                                                                                                          |
|-----------|-----------------------|-----------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DR3       | Yes                   | Hallhill<br>Healthy<br>Living Centre<br>Expansion<br>Land |              | There are a number of small drains in the area and these may be culverted through the site although we have no details. Should culverted watercourses be located on site then there should be no development over the top of them. The flood risk from surface water including runoff from adjoining land should be assessed as part of a Surface Water Drainage Assessment which may be required prior to commencement of works on site | No - surface<br>water drainage<br>assessment<br>required | See Report of Examination Issue 08: Dunbar Cluster recommended post- examination modification no.1:  In paragraph 2.139, adding the following sentences at the end:  "Should any culverted watercourses be found on the site, there should be no development on top of them. Advice should be sought from SEPA in respect of any planning applications." |
| Table DR1 | Committed<br>(lapsed) | Abbeylands                                                | Housing - 16 | The site is not known to be at risk of flooding                                                                                                                                                                                                                                                                                                                                                                                          | No                                                       | See Report of Examination Issue 08: Dunbar Cluster recommended post- examination modification no.2:  In paragraph 2.149, inserting third and fourth sentences as follows:  "Since they were previously allocated, these sites may be affected by legislative and regulatory changes, as well as identified changes to the physical environment           |

|           |                       |                      |             |                                                                                                                                                                                                                                                                                             |     | including updated flood risk mapping. Up-to-date information, including flood risk assessment where necessary, will require to be submitted to ensure compliance with current legislation and the policy provisions of the plan." |
|-----------|-----------------------|----------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table DR1 | Committed<br>(lapsed) | Abbeylands<br>Garage | Housing - 8 | The site is not known to be at risk of flooding                                                                                                                                                                                                                                             | No  | See Report of Examination<br>Issue 08: Dunbar Cluster<br>recommended post-<br>examination modification<br>no.2 (as above)                                                                                                         |
| Table DR1 | Committed             | Coastguard<br>Site   | Housing - 8 | The site is not known to be at risk of flooding                                                                                                                                                                                                                                             | No  | See Report of Examination<br>Issue 08: Dunbar Cluster<br>recommended post-<br>examination modification<br>no.2 (as above)                                                                                                         |
| Table DR1 | Committed             | Assembly<br>Rooms    | Housing - 8 | The site is not known to be at risk of flooding                                                                                                                                                                                                                                             | No  | See Report of Examination<br>Issue 08: Dunbar Cluster<br>recommended post-<br>examination modification<br>no.2 (as above)                                                                                                         |
| Table DR1 | Committed<br>(lapsed) | Tyninghame<br>Links  | Housing - 7 | Flood risk assessment required for small watercourse on southern boundary of site. This should include assessment of any structures or culverted sections of channel including the flood risk should these become blocked. The SEPA flood map shows potential Surface Water flood risk. ELC | Yes | See Report of Examination<br>Issue 08: Dunbar Cluster<br>recommended post-<br>examination modification<br>no.2 (as above)                                                                                                         |

|                  |                        |                                                                 |              | will require a Flood Risk Assessment and a Surface Water Drainage Assessment - Appl. 14/00802/P - granted 08.01.15                                        |    |                                                                                                                           |
|------------------|------------------------|-----------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------|
| Table DR1        | Pending decision       | Pleasance<br>Farm                                               | Housing - 19 | The site is not known to be at risk of flooding - Appl. 16/00618/P - pending                                                                              | No | See Report of Examination<br>Issue 08: Dunbar Cluster<br>recommended post-<br>examination modification<br>no.2 (as above) |
| Table DR1        | Lapsed                 | Dairy<br>Cottage,<br>Thurston                                   | Housing - 11 | The site is not known to be at risk of flooding - Appl. 16/00618/P - pending                                                                              | No | See Report of Examination Issue 08: Dunbar Cluster recommended post- examination modification no.2 (as above)             |
| NORTH<br>BERWICK |                        |                                                                 |              |                                                                                                                                                           |    |                                                                                                                           |
| NK2              | Part of committed site | North Berwick High School and Law Primary School Expansion Land | Education    | The SEPA flood map shows potential Surface Water flood risk. ELC may require a Surface Water Drainage Assessment prior to the commencement of development | No | N/A                                                                                                                       |

| Table NK1 | Committed | New Mains | Housing - 6 | Flood risk assessment          | Yes | See Report of Examination      |
|-----------|-----------|-----------|-------------|--------------------------------|-----|--------------------------------|
|           | (lapsed)  |           |             | required for Eel Burn on       |     | Issue 09: North Berwick        |
|           |           |           |             | southern boundary of site.     |     | Cluster recommended post-      |
|           |           |           |             | This should include            |     | examination modification       |
|           |           |           |             | assessment of any structures   |     | no.3:                          |
|           |           |           |             | or culverted sections of       |     |                                |
|           |           |           |             | channel including the flood    |     | In paragraph 2.172, inserting  |
|           |           |           |             | risk should these become       |     | third and fourth sentences as  |
|           |           |           |             | blocked. The SEPA flood map    |     | follows:                       |
|           |           |           |             | shows potential Surface Water  |     |                                |
|           |           |           |             | flood risk. ELC will require a |     | "Since they were previously    |
|           |           |           |             | Flood Risk Assessment and      |     | allocated, these sites may be  |
|           |           |           |             | Surface Water Drainage         |     | affected by legislative and    |
|           |           |           |             | Assessment - Appl.             |     | regulatory changes, as well as |
|           |           |           |             | 10/00527/P granted 12.04.12    |     | identified changes to the      |
|           |           |           |             |                                |     | physical environment           |
|           |           |           |             |                                |     | including updated flood risk   |
|           |           |           |             |                                |     | mapping. Up to date            |
|           |           |           |             |                                |     | information, including flood   |
|           |           |           |             |                                |     | risk assessment where          |
|           |           |           |             |                                |     | necessary, will require to be  |
|           |           |           |             |                                |     | submitted to ensure            |
|           |           |           |             |                                |     | compliance with current        |
|           |           |           |             |                                |     | legislation and the policy     |
|           |           |           |             |                                |     | provisions of the plan."       |

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