FLOOD PREVENTION (SCOTLAND) ACT 1961

WEST LOTHIAN COUNCIL

BROXBURN FLOOD PREVENTION SCHEME 2007

1. GENERAL

In exercise of the powers conferred upon them by the Flood Prevention (Scotland) Act 1961 (hereinafter referred to as 'the Act'), West Lothian Council (hereinafter referred to as the 'Council') hereby make the following Flood Prevention Scheme (hereinafter referred to as the 'Scheme'), the purpose of which is to mitigate the flooding of residential and business properties in the West Burnside and Burnside Village areas of Broxburn from the Brox Burn and Caw Burn, and to mitigate the flooding of residential and business properties in the Nicol Road, Pyothall Court and Galloway Crescent areas of Broxburn by the Liggat Syke. The Scheme is also to include construction of flood attenuation areas upstream of Broxburn on the Liggat Syke and one of its tributaries.

2. TERMS OF THE SCHEME

The terms of the Scheme are detailed in Sections 3 to 8 hereunder.

3. SITE OF THE FLOOD PREVENTION OPERATIONS

The sites at which the Flood Prevention Operations (hereinafter referred to as the 'Operations') are to be carried out in terms of the Scheme are situated

- Pyothall Storage Area: On land adjacent to the Liggat Syke, to the west of Orphir Cottage and to the north of Keith Gardens, Broxburn.
- Greendykes Storage Area: On land adjacent to an un-named tributary of the Liggat Syke to the north of Cunningham Crescent, Broxburn
- Adjacent to the Liggat Syke at Galloway Crescent
- Adjacent to the Liggat Syke at Pyothall Road
- Adjacent to the Liggat Syke at Nicol Road
- Adjacent to the Liggat Syke at the Union Canal, immediately east of Pyothall Court.
- Adjacent to the Brox Burn at West Burnside
- Adjacent to the Brox Burn at Burnvale, Burnside Village
- Adjacent to the Brox Burn, Liggat Syke and Caw Burn at Newhouses Road, Burnside Village

and are shown on the drawings marked as listed below:

West Burnside	WB/BROX/WB/01
	WB/BROX/WB/02
	WB/BROX/WB/03
	WB/BROX/WB/04
Burnside Village	WB/BROX/BV/01
	WB/BROX/BV/02
	WB/BROX/BV/03
	WB/BROX/BV/04
	WB/BROX/BV/05
	WB/BROX/BV/06
Pyothall Storage Area	WB/BROX/PY/01
	WB/BROX/PY/02
	WB/BROX/PY/03
Greendykes Storage Area	WB/BROX/GR/01
	WB/BROX/GR/02
Liggat Syke	WB/BROX/LS/01
	WB/BROX/LS/02
	WB/BROX/LS/03
	WB/BROX/LS/04
	WB/BROX/LS/05

The said plans are attached and executed as relative hereto.

4. DESCRIPTION OF THE OPERATIONS

West Burnside

The Operations to be carried out in terms of the Scheme in West Burnside are as follows. References to the left or right hand banks of the Brox Burn are related to the viewer looking downstream.

WB01 Perpendicular to the left hand bank of the Brox Burn, along the boundary between the Strathbrock Lodge and 45a West Main Street, demolish 40m or thereby of the existing masonry wall and replace with a new flood defence wall, varying in height up to 2.0m above existing ground levels. The details are as generally shown on the said plan marked WB/BROX/WB/01 and as typically detailed on Section W1 on the said plan marked WB/BROX/WB/02.

WB02 On the left hand bank of the Brox Burn, from the end of Operation WB01, to the south of the southern eastern property boundary of 45 West Main Street, remove 70m or thereby of the existing variable construction boundary and construct 70m or thereby of flood defence wall and embankment varying in height up to 1.2m above existing ground levels. The embankment is to be constructed on the riverward side of the defence. The details are as generally shown on the said plan marked WB/BROX/WB/01 and as typically detailed on Section W2 on the said plan marked WB/BROX/WB/02.

WB03 To the west of the Broxburn Bowling Club, demolish and remove the existing timber and steel footbridge which crosses the Brox Burn, including removal of the parapets, foundations and associated structures. The details are as generally shown on the said plan marked WB/BROX/WB/01 and as typically detailed on Section W3 on the said plan marked WB/BROX/WB/02.

WB04 To the west of the Broxburn Bowling Club, construct a new footbridge across the Brox Burn including new abutments, bearings parapets and other associated bridge structures. Taking account of the needs of the disabled, inclined approaches will be constructed along the line of the existing footpath tying in with

Operations WB02, WB05 and WB10. Construct new retaining walls to support the inclined approaches as generally shown on WB/BROX/WB/01. The details are as generally shown on the said plan marked WB/BROX/WB/01 and as typically detailed on Section W4 on the said plan marked WB/BROX/WB/03.

WB05 On the left hand bank of the Brox Burn, tying in with Operation WB04 to opposite the spare ground to the east of 32 West Burnside, construct 90m or thereby of flood defence wall, varying in height up to 1.4m above existing ground levels. The details are as generally shown on the said plan marked WB/BROX/WB/01 and as typically detailed on Section W5 on the said plan marked WB/BROX/WB/03.

WB06 To the north of the Broxburn Bowling Club, demolish and remove the existing steel footbridge which crosses the Brox Burn, including removal of the parapets, foundations and associated structures. The details are as generally shown on the said plan marked WB/BROX/WB/01 and as typically detailed on Section W6 on the said plan marked WB/BROX/WB/03.

WB07 On the left hand bank of the Brox Burn, from the end of Operation WB05, construct 80m or thereby of flood defence embankment, varying in height up to 1.1m above existing ground levels, to tie in with higher ground adjacent to the upstream parapet of the Station Road bridge. The existing footpath is to be reinstated on along the crest of the new embankment. Details are as generally shown on the said plan marked WB/BROX/WB/01 and as typically detailed on Section W7 on the said plan marked WB/BROX/WB/04.

WB08 Adjacent to the upstream face of the Station Road bridge, opposite 14 West Burnside, demolish and remove the existing footbridge which crosses the Brox Burn. Works will include removal of footbridge parapets and foundations as well as other associated bridge structures as generally shown on the said plan marked WB/BROX/WB/01 and as typically detailed on Section W8 on the said plan marked WB/BROX/WB/04.

WB09 Demolish and remove the existing stone arch bridge which carries Station Road across the Brox Burn and replace with a new flat soffit combined vehicle and pedestrian crossing, as generally shown on the said plan marked

WB/BROX/WB/01 and as typically detailed on Section W9 on the said plan marked WB/BROX/WB/04.

WB10 On the right hand bank of the Brox Burn, tying in with the eastern abutment of Operation WB04 to the east end of the private car park serving The Broxburn Bowling Club, demolish 70m or thereby of existing masonry boundary wall and replace with a new flood defence wall of same height as the existing, varying in height up to 3.1m above existing ground levels. The details are as generally shown on the said plan marked WB/BROX/WB/01 and as typically detailed on Sections W3, W4, W5 and W6 on the said plans marked WB/BROX/WB/02 and WB/BROX/WB/03.

WB11 On the right hand bank of the Brox Burn, from the end of Operation WB10 to the west of 6 Long Byres, construct 50m or thereby of flood defence wall varying in height up to 0.9m above existing ground levels. The details are as generally shown on the said plan marked WB/BROX/WB/01 and as typically detailed on Section W7 on said plan marked WB/BROX/WB/04.

WB12 On the right hand bank of the Brox Burn, from the private car park serving Broxburn Bowling Club, construct an upgraded surface water drainage system with 1 no. outfall of 300mm diameter or thereby as shown on the said plan marked WB/BROX/WB/01. The outfall shall incorporate flap valves or similar non-return apparatus and shall include brick or reinforced concrete headwalls.

Burnside Village

The Operations to be carried out in terms of the Scheme in Burnside Village are as follows. References to the left or right hand banks of the Brox or Caw Burns are related to the viewer looking downstream.

BV01 Perpendicular to the right hand bank of the Brox Burn, along the western boundary between the 0.2ha field to the west of 5 Burnvale and the 17.7ha field located to the west of Burnside Village and south of the Brox Burn, construct 20m or thereby of flood defence embankment, varying in height up to 0.8m

above existing ground levels, to tie into higher ground to the south. The details are as generally shown on the said plan marked WB/BROX/BV/01 and as typically detailed on Section B1 on said plan marked WB/BROX/BV/02.

BV02 Parallel to the right hand bank of the Brox Burn, from the end of Operation BV01, along the existing footpath running west from the western end of Burnvale, construct 55m or thereby of new flood defence embankment, varying in height from 0.9 to 1.3m above existing ground levels. The existing footpath is to be reinstated on the embankment crest with access slopes constructed at gradients not exceeding 1 in 10. The details are as generally shown on the said plan marked WB/BROX/BV/01 and as typically detailed on Section B2 on said plan marked WB/BROX/BV/02.

BV03 On the right hand bank of the Brox Burn, from the end of Operation BV02, along the northern boundary of the stables to the west of 12 Burnvale, construct 80m or thereby of new flood defence, comprising an embankment on the riverside of the defence and a wall on the stables side, varying in height from 0.8 to 1.1m above existing in ground levels, as generally shown on the plan marked WB/BROX/BV/01 and as typically detailed on Section B3 on the said plan marked WB/BROX/BV/02.

BV04 On the right hand bank of the Brox Burn, from the end of Operation BV03, along the existing riverside boundaries to the north of 8a, 8 and 6 Burnvale, construct 50m or thereby of new flood defence wall, varying in height up to 1.4m above existing ground levels. The details are as generally shown on the said plan marked WB/BROX/BV/01 and as typically detailed on Section B4 on the said plan marked WB/BROX/BV/03.

BV05 On the right hand bank of the Brox Burn, from the end of Operation BV04, along the existing riverside boundary to the north of 6 Burnvale to level with the western boundary of 12 Newhouses Road, construct 25m or thereby of new flood defence wall, varying in height up to 3.2m above existing bed levels. The details are as generally shown on the said plan marked WB/BROX/BV/01 and as typically detailed on Section B5 on said plan marked WB/BROX/BV/03.

BV06 On the right hand bank of the Brox Burn, from the end of Operation BV05, along the existing northern riverside boundary of 12 Newhouses Road, construct 50m or thereby of new flood defence wall, varying in height up to 1.4m above existing ground levels. The details are as generally shown on the said plan marked WB/BROX/BV/01 and as typically detailed on Section B6 of said plan marked WB/BROX/BV/03.

BV07 Demolish and remove the existing stone arch bridge which carries the Newhouses Road across the Brox Burn and replace with a new flat soffit combined vehicle and pedestrian bridge, as generally shown on the said plan marked WB/BROX/BV/01 and as typically detailed on Section B7 on the said plan marked WB/BROX/BV/04.

BV08 On the right hand bank of the Brox Burn, following the path of an existing wall running parallel to the burn, tying in with the new bridge described in Operation BV07, construct 45m or thereby of new flood defence wall, varying in height up to 1.0m above existing ground levels. The details are as generally shown on the said plan marked WB/BROX/BV/01 and as typically detailed on Section B8 on the said plan marked WB/BROX/BV/04.

BV09 On the right hand bank of the Brox Burn, from the end of Operation BV08 extending to the driveway serving 1 Newhouses Road, construct 50m or thereby of new flood defence wall, varying in height up to 1.3m above existing ground levels. The details are as generally shown on the said plan marked WB/BROX/BV/01 and as typically detailed on Section B9 on the said plan marked WB/BROX/BV/04

BV10 On the right hand bank of the Brox Burn, from the end of Operation BV09, construct 20m or thereby of new flood defence embankment, varying in height up to 1.6m above existing ground levels. The details are as generally shown on the said plan marked WB/BROX/BV/01 and as typically detailed on Section B10 on the said plan marked WB/BROX/BV/05.

BV11 On the right hand bank of the Brox Burn, from the end of Operation BV10 to the confluence of the Brox Burn and Caw Burn along the existing riverside boundaries to the east of 1, 3 and 5 Newhouses Road, construct 40m or thereby

of new flood defence wall, varying in height up to 0.7m above existing ground levels. The details are as generally shown on the said plan marked WB/BROX/BV/05 and as typically detailed on Section BV11 on the said plan marked WB/BROX/BV/05.

BV12 On the left hand bank of the Caw Burn, tying in with the end of Operation BV11 and the abutment of Operation BV13, construct 50m or thereby of new flood defence wall, varying in height up to 0.5m above existing ground levels. The details are as generally shown on the said plan marked WB/BROX/BV/01 and as typically detailed on Section B12 on the said plan marked WB/BROX/BV06.

BV13 Demolish and remove the existing stone arch bridge which carried the Newhouses Road over the Caw Burn and replace with a new flat soffit combined vehicle and pedestrian bridge, as generally shown on the said plan marked WB/BROX/BV/01 and as typically detailed on Section B13 on the said plan marked WB/BROX/BV/06.

BV14 On the right hand bank of the Brox Burn, in the garden of 5 Newhouses Road, construct an upgraded surface water drainage system with 1 no. outfall of 300mm diameter or thereby as shown on the said plan marked WB/BROX/BV/01. The outfall shall incorporate flap valves or similar non-return apparatus and shall include brick or reinforce concrete headwalls.

BV15 On the right hand bank of the Brox Burn, to west of the garden to the north and west of 1 Newhouses Road, on Newhouses Road construct an upgraded surface water drainage system with 1 no. outfall of 300mm diameter or thereby as shown on the said plan marked WB/BROX/BV/01. The outfall shall incorporate flap valves or similar non-return apparatus and shall include brick or reinforce concrete headwalls.

Liggat Syke

The Operations to be carried out in terms of the Scheme in Liggat Syke are as follows. References to the left or right hand banks of the Liggat Syke are related to the viewer looking downstream.

LS01 To the north of 58 Galloway Crescent, where the public footpath crosses the Liggat Syke, remove the existing 6m long or thereby plastic culvert and replace with a new raised footbridge as generally shown on the said plan marked WB/BROX/LS/03 and typically detailed on Section L1 on the said plan marked WB/BROX/LS/04. The ground profile on the southern bank of the Liggat Syke shall be shaped to ensure that floodwater escaping the channel at the bridge structure returns to the channel.

LS02 To the north of Clarkson Road, where Pyothall Road crosses the Liggat Syke, remove the existing triple bore culvert crossing and replace with a new bridge structure. The details are shown on the said plan marked WB/BROX/LS/03 and typically detailed on Section L2 on the said plan marked WB/BROX/LS/04.

LS03 Where the Liggat Syke is culverted below the Union Canal, to the east of 26 Pyothall Court, install new culvert inlet screens. The screen construction shall incorporate appropriate headwall and wing walls. The details are shown on the said plan marked WB/BROX/LS/01 and as typically detailed on Sections L3 and L4 on the said plan marked WB/BROX/LS/05.

LS04 At the eastern end of Pyothall Court, construct an upgraded surface water drainage system with 1 no. outfall of 300mm diameter or thereby as shown on the said plan marked WB/BROX/LS/01. The drainage system shall incorporate a culvert installed using trenchless techniques which discharges to the Liggat Syke in the grounds of Broxburn Primary School.

Pyothall Storage Area

The Operations to be carried out in terms of the Scheme in the Pyothall Storage Area are as follows.

PY01 Construct an earth embankment across the Liggat Syke upstream of the wooden footbridge, 80m or thereby north of 30 Keith Gardens. The crest of the embankment shall be 75m long or thereby and 4m wide or thereby, varying in height from 90.5m to 91.75m above Ordnance Datum (OD), corresponding to a maximum height above existing ground level of approximately 4.75m where the embankment crosses the Liggat Syke. The embankment crest shall incorporate a spillway, the spillway crest being 5m long with a spill level of 90.5m OD or thereby. The tied concrete block spillway shall extend along the downstream face of the embankment. The embankment shall be constructed from suitable material imported to the Site. All works are as generally shown on the said plan marked WB/BROX/PY/01 as detailed in Sections P1, P2 and P3 on the said plan marked WB/BROX/PY/02.

PY02 On the upstream slope of the embankment described in Operation PY01, construct a new reinforced concrete inlet structure, approximately 2m wide and up to 2.1m or thereby above existing ground levels. The inlet structure shall incorporate a Hydrobrake™ flow regulation solution or similar flow control devices, complete with debris/security screens, as generally shown on the said plan marked WB/BROX/PY/01 and as detailed at Section P1 on the said plan marked WB/BROX/PY/02.

PY03 Generally following the existing course of the existing river channel, construct a new culvert to convey the Liggat Syke beneath the new embankment described in Operation PY01. The culvert shall extend for 35m or thereby and shall have a minimum internal dimension of 600mm or thereby, as generally shown on the said plan marked WB/BROX/PY/01 and as detailed at Sections P1 and P2 on the said plan marked WB/BROX/PY/02.

PY04 On the downstream slope of the new embankment described in Operation PY01, construct a new reinforced concrete outlet structure, varying in width from 1m to 1.5m (widest at downstream end) or thereby and varying in height up to 2.1m or thereby above existing river bed levels, and as generally shown on the said plan marked WB/BROX/PY/01 and as detailed at Section P1, on the said plan marked WB/BROX/PY/02. Provide lockable hinged screens to prevent unauthorised access to the culvert

PY05 At the point where the downstream toe of the spillway intersects the existing ground profile and on the corresponding opposite side of the river, construct a spillway channel to convey spilled flood water back to the Liggat Syke channel. The channel draining the spillway increases in width from 5m at its upstream end to 10m or thereby at its downstream end and will incorporate erosion protection as necessary, as generally shown on the said plan marked WB/BROX/PY/01 and as detailed at Section P2, on the said plan marked WB/BROX/PY/02.

Greendykes Storage Area

The Operations to be carried out in terms of the Scheme in the Greendykes Storage Area are as follows.

GR01 Along the existing embankment running across the path of the unnamed tributary of the Liggat Syke located to the north of Cunningham Crescent construct a groundwater seepage cut off barrier. The crest of the seepage cut off barrier shall be 100m long or thereby, varying in crest level from 84.0 to 85.25m or thereby above Ordnance Datum (OD). The details are as generally shown on the said plan marked WB/BROX/GR/01 and typically detailed on Sections G1, G2 and G3 on the said plan marked WB/BROX/GR/02.

GR02 On the upstream face of the existing embankment across the unnamed tributary of the Liggat Syke, tying in with Operations GR01 and GR04, reconstruct the existing slope to provide a stable upstream slope with a reduced gradient of 1 in 6 or thereby. The slope shall be constructed with suitable material imported to

the Site. The embankment crest shall incorporate a spillway, the spillway crest being 6m long with a spill level of 84.0m OD or thereby. The spillway shall tie in with the spillway channel described in Operation GR06. All works are as generally shown on the said plan marked WB/BROX/GR/01 as detailed in Sections G1, G2 and G3 on the said plan marked WB/BROX/GR/02.

GR03 Approximately following the path of the existing culvert from where the unnamed tributary of the Liggat Syke sinks, approximately 110m north of 1 Cunningham Crescent to the Liggat Syke north of 2 Nicol Road, construct, via an appropriate trenchless construction technique, 115m or thereby of new culvert, as generally shown on the said plan marked WB/BROX/GR/01 and as detailed at Section G2 on the said plan marked WB/BROX/GR/02. Works will include the decommissioning of the existing culvert.

GR04 On the upstream slope of the embankment described in Operation GR01, construct a new reinforced concrete inlet structure, approximately 2m wide and varying in height up to 2.1m or thereby above existing ground levels. The inlet structure shall incorporate a Hydrobrake™ flow regulation solution or similar flow control devices with debris/security screens, as generally shown on the said plan marked WB/BROX/GR/01 and as detailed at Section G1 on the said plan marked WB/BROX/GR/02.

GR05 At the point where the proposed culvert described in Operation GR03 meets the Liggat Syke, construct a new reinforced concrete outlet structure, varying in width from 1m to 1.5m (widest at downstream end) or thereby and varying in height up to 3.0m or thereby above existing river bed levels, and as generally shown on the said plan marked WB/BROX/GR/01 and as detailed at Section G2 on the said plan marked WB/BROX/GR/02. Provide lockable hinged screens to prevent unauthorised access to the culvert.

GR06 From the spillway crest described in Operation GR02, construct 100m or thereby of new spillway channel to convey spilled flood water to the Liggat Syke channel. The channel draining the spillway increases in width from 5m at its upstream end to 10m or thereby at its downstream end and will incorporate erosion protection

as necessary, as generally shown on the said plan marked WB/BROX/GR/01 and as detailed at Section G2, on the said plan marked WB/BROX/GR/02.

5. LAND

The land which will be affected by the Operations and the land which will be affected by the Operations and upon which entry is required for the purpose of carrying out the Operations is as shown on the said plans listed in Paragraph 3 of this document.

The limits of deviation are defined in the First Schedule to the Act and are shown on the said plans listed in Section 3 of this document.

6a. ANCILLARY OPERATIONS - General

The following general ancillary Operations shall be undertaken:

i. Any electricity supply or telecommunication cables which may be affected by the carrying out of the Operations are to be diverted or otherwise protected as may be reasonably required by the service provider.

ii. Any gas apparatus which may be affected by the carrying out of the Operations are to be diverted or otherwise protected as may be reasonably required by Transco.

iii. Any apparatus belonging to Scottish Water, other than watermains or sewers, which may be affected by the carrying out of the Operations are to be diverted or otherwise protected as may be reasonably required by Scottish Water.

iv. Implement within the limits of land affected by the Operations and upon which entry is required for the purpose of carrying out the Operations a scheme of planting and landscaping to the approval of the relevant Planning Authority.

v. Within the limits of land affected by the Operations and upon which entry is required for the purpose of carrying out the Operations, on the landward side of the flood defence, install surface water drainage systems immediately adjacent to the flood defence, with outfalls not exceeding 300mm in diameter

provided at various locations to discharge the said surface water into the Brox Burn, Caw Burn or Liggat Syke. The outfalls shall be equipped with flap valves or similar non-return apparatus and shall, where applicable, incorporate brickwork or reinforced concrete headwalls.

vi. Where required, install flap valves or other similar equipment to prevent floodwater backing up any otherwise unprotected existing combined sewer outfall, overflow or other pipe, conduit or culvert discharging into the Brox Burn, Caw Burn or Liggat Syke.

6b. ANCILLARY OPERATIONS – West Burnside

WB(A)01 The 600mm diameter Scottish Water sewer (material unknown) parallel to the Brox Burn, extending from the footbridge to the west of Broxburn Bowling Club to the garden of 12 Parkwood Gardens as generally shown on the said plan marked WB/BROX/WB/01, is to be diverted or otherwise protected by, or with the approval of, Scottish Water.

WB(A)02 The 650mm diameter Scottish Water sewer (material unknown) parallel to the Brox Burn, extending from the footbridge to the west of Broxburn Bowling Club to the public play facility on Almondell Road as generally shown on the said plan marked WB/BROX/WB/01, is to be diverted or otherwise protected by, or with the approval of, Scottish Water.

WB(A)03 The Scottish Water sewer (diameter and material unknown), crossing the Brox Burn along the line of Station Road as generally shown on the said plan marked WB/BROX/WB/01, is to be diverted or otherwise protected by, or with the approval of, Scottish Water.

WB(A)04 For the purposes of maintaining pedestrian access otherwise interrupted during the demolition and construction of the Station Road bridge and neighbouring footbridge as described in Operations WB08 and WB09, provide one temporary pedestrian crossing of the Brox Burn, as generally shown on the said plan

marked WB/BROX/WB/01. Ancillary Operation to include the removal of the temporary structure upon completion of the new crossing.

WB(A)05 To facilitate the demolition and reconstruction of the Station Road bridge as described in Operation WB09, carry out mitigation works to the disused fuel tank (material and size unknown) located in the grounds of 9 Station Road in accordance with the stipulations of the relevant environmental regulatory authorities.

6c. ANCILLARY OPERATIONS – Burnside

BV(A)01 For the purposes of maintaining pedestrian access otherwise interrupted during the demolition and construction of the Newhouses Road bridge as described in Operation BV07, provide one temporary pedestrian crossing of the Brox Burn, as generally shown on the said plan marked WB/BROX/BV/01. Ancillary Operation to include the removal of the temporary structure upon completion of the new crossing.

BV(A)02 The Scottish Water sewer (dimension and material type unknown) crossing the Broxburn from the garden of 1 Newhouses Road to Keyline Builders' Yard as generally shown on the said plan marked WB/BROX/BV/01 is required to be diverted or otherwise protected by, or with the approval of, Scottish Water.

BV(A)03 For the purposes of maintaining the existing private pedestrian crossing of the Brox Burn to the north of 6 Burnvale, construct a suitable footbridge to facilitate the crossing of the said burn at the existing location. The Operation is to include the removal of the existing bridge to facilitate Operation BV05.

BV(A)04 For the purposes of maintaining the existing private pedestrian crossing of the Caw Burn to the east of 5 Newhouses Road, construct a suitable footbridge to facilitate the crossing of the said burn at the existing location. The Operation is to include the removal of the existing bridge to facilitate Operation BV12.

6d. ANCILLARY OPERATIONS – Liggat Syke

LS(A)01 For the purposes of maintaining and monitoring the storage areas at Pyothall and Greendykes, upgrade Pyothall Road to provide a 3m access road, surfaced in bituminous material, extending from the proposed access road in ancillary operation PY(A)01 to where Pyothall Road meets Clarkson Road following the existing line of Pyothall Road, as generally shown on the said plans marked WB/BROX/LS/03 and WB/BROX/PY/01.

LS(A)02 For the purposes of maintaining and monitoring the inlet screen structure, construct a new 3.0m or thereby wide vehicular access road and turning area, surfaced in non-bituminous material, extending from the eastern side of the proposed screen structure to the Greendykes Road, as generally shown on the said plans marked WB/BROX/LS/01 and WB/BROX/LS/02. Install a lockable gate across the access track to prevent unauthorised access to the site.

LS(A)03 For the purpose of monitoring the operation of the inlet screen structure, construct a new telemetry system capable of relaying information regarding the screen operation to a location remote from the site. The telemetry system may require the provision of a kiosk structure to house the system, and may include the installation of appropriate receiving equipment at a location remote from the site.

6e. ANCILLARY OPERATIONS – Pyothall

PY(A)01 For the purposes of maintaining and monitoring the storage area, construct a new 3.0m or thereby wide vehicular access road and turning area, surfaced in non-bituminous material, extending from the proposed inlet structure to Pyothall Road, tying in with Ancillary Operation LS(A)01, as generally shown on the said plan marked WB/BROX/PY/01. Install a lockable gate across the said access track close to the junction with Pyothall Road to prevent unauthorised access to the site.

PY(A)02 Make suitable provision to prevent the ingress of water into the abandoned mineshaft located at the northwest end of the proposed inundated area, as generally shown on the said plan marked WB/BROX/PY/01. Operation may include full remediation of the mineshaft to a standard acceptable by the relevant regulatory authority or the construction of a seepage barrier.

PY(A)03 For the purpose of monitoring the operation of the storage area, construct a new telemetry system capable of relaying information regarding the operational state of the storage area to a location remote from the site. The telemetry system may require the provision of a kiosk structure to house the system, and may include the installation of appropriate receiving equipment at a location remote from the site.

6f. ANCILLARY OPERATIONS – Greendykes

GR(A)01 For the purposes of maintaining and monitoring the storage area, construct a new 3.0m or thereby wide vehicular access road and turning area, surfaced in non-bituminous material. Extending from the proposed inlet structure to Pyothall Road, tying in with Ancillary Operation LS(A)01, as generally shown on the said plans marked WB/BROX/GR/01 and WB/BROX/LS/03. Install a lockable gate across the said access track close to Pyothall Road to prevent unauthorised access to the site.

GR(A)02 For the purpose of monitoring the operation of the storage area, construct a new telemetry system capable of relaying information regarding the operational state of the storage area to a location remote from the site. The telemetry system may require the provision of a kiosk structure to house the system, and may include the installation of appropriate receiving equipment at a location remote from the site.

7. POWERS, ETC.

The provisions of the First Schedule to the Act are hereby incorporated.

8. COST

The estimated cost of the said Operations is **four million nine hundred thousand pounds.**

Made by West Lothian Council on the 2nd day of May 2007 and signed by Geraldine McCann, a Proper Officer of West Lothian Council authorised to sign documents on its behalf.

Geraldine McCann
…… (Signature)

The Scottish Ministers in exercise of the powers conferred by section 4 of, and paragraph 7 of the Second Schedule to, the Flood Prevention (Scotland) Act 1961 [1], and of all other powers enabling them in that behalf, hereby confirm the foregoing Broxburn Flood Prevention Scheme 2007.

Subscribed by Philip Wright ..... (Signature)
Head of Climate Change and Air Division
in the Scottish Executive Rural Affairs
Department at Edinburgh on
before this witness:
Gordon Petrie

.....(Signature)

[1] The functions of the Secretary of State were, in so far as within devolved competence, transferred to the Scottish Ministers by virtue of section 53 of the Scotland Act 1998 (c.46)