

APPENDIX A

3 FLOODING INCIDENTS FROM 27/11/07 – 26/11/09

3.1 Watercourses

Street Name	Location	Problem	Work Required
BoydOrr Avenue		Blocked ditch flooding properties	Clean out ditch
Hopetoun Court	South side from junction of Sclattie	Tree roots blocking pipe	Break into pipe and construct two manholes in watercourse, clear roots from pipe and replace sections as required
Farburn Terrace	Railway Bridge	Carriageway flooded due to overflow from nearby watercourse	Clear blocked heck and install 5 new gulley pots.
Springfield Place	Craigieburn Park to rear of Burnieboozie Crescent	Flooding from culvert that runs in gardens to rear of 9-45 Springfield place.	Lift 12 manholes and check for debris and blockages.
Brighton Place	No 57	Flooding of Basement	Check nearby watercourses for blockages.
Pitmedden Road	Kirkton Villa Beidleston	Flooding to Garden Flooding to Road	Watercourse within Railtrack's property needs cleaned. Railtrack have inspected and responded that the flooding is not caused by their property. Correspondence to continue, map and photos to be sent. Recurrence of flooding on 01/11/09. ACC took emergency action and cleaned out watercourse Dry stone dyke had collapsed into watercourse. Wall removed and ditch cleaned.
Jacks Brae	Denburn	Major Flooding to Road and Property	Heck cleaned day before flooding incident, hake blocked with garden debris. New design required. Flooded for second time 01/11/09
Craigieburn Park		Flooding to Swimming Pool Basement.	Camera survey carried out. Section of culvert within Craigieburn Park blocked with tree roots, from mature trees in Craigieburn Park. Onus put back on Property Managers to resolve. Culvert appears to be undersized.

University Grounds		Flooding to public right of way.	Blockage to culvert appears to be in University grounds. Write to University and ask them to resolve.
Howe Moss Drive	Industrial Unit to rear of Units 1-9 Airport Commerce Park.	Flooding to industrial Unit car park and scour damage	Culvert through car park appears to be undersized. Property owner to resolve.
Carden Place	Fountainhall Road Eastwards	Flooding to several commercial properties	Screen has collapsed into the North Burn of Rubislaw and diverted water along private lane. Screen removed.
Inchgarth Road	At Morison's Bridge	Flooding to road and damage to boundary wall.	Heck blocked by tree stumps. Heck to be removed and boundary wall replaced.
Deeside Gardens	No 28	Flooding to property	Watercourse through property to be camera surveyed
Culter House Road	Bellenden Walk	Culvert under road blocked.	Flooding to Robertson Place and further down Culter House Road. Culvert cleared but camera survey to be carried out to check for damage. Upgrade gullies in Robertson Place.
Lochside Drive		Flooding to Properties	Investigation ongoing into effectiveness of recently completed flood prevention scheme
Craigton Road	No 3	Flooding to Property	Pipe Blocked with tree roots
West Cults Road	West Cults Farm	Flooding to property	River Dee burst its banks. Sandbagged the doors of all properties and supplied residents with additional sandbags.
Private Road off Balgowrie Road	Kettock's Mill	Flooding to property	Drainage does not work when River Don is high. Long history of flooding
Hillock's Way Bucksburn	No Details	Flooding to property	Fire Engine attended
Brimmondside Bucksburn	No Details	Flooding to Property	Residents collected sandbags

3.2 Road Drainage Flooding

Street Name	Location	Problem	Work Required
Forest Road	No 17	Carriageway flooding	Improve surface water drainage.
Union Row		Flooding to property	Replace gullies
Hilton Avenue		Ponding on footway	Excavate to identify problem
Angusfield Avenue	Lane next to No 6	Carriageway flooding	Clean and test gullies
Hopetoun Avenue	Outside No 36	Blocked drain	.Clean and jet gully
North Deeside Road			Install rodding eye – clean and jet.
Trinity Quay		Carriageway	Install new drop shaft

		ponding	
Blenheim Lane		Carriageway ponding	Clear out gullies
Mugiemoss Road	No 232	Flooding to carriageway	Gullies to be cleaned and jetted. Heck need to be cleaned. Access bridge and gabions to be repaired.
Manse Road	22 Cairn Gardens	Blocked gully – damage to garden wall	Gully to be cleaned. Additional gullies required.
Baird's Brae		Water discharging onto North Deeside Road	New gullies required.
Newhills Road	Overhills Farm	Water discharging from track onto road	Investigation required
Pitmedden Road	Tillbrig cottage Station House to The Lodge	Gullies blocked flooding properties Flooding to road	Gullies cleared – kerbs removed to provide emergency overflow to field New drainage system required.
Burnieboozle Crescent	No 55	Flooding to Property	Tree root blocking pipe
Middle Brae	No 12	Flooding to Garden	Investigation required
Jesmond Gardens	No 7	Flooding to garden	Resident to fix
North Deeside Road	302 and 371	Flooding to properties	Pipework to be upgraded.
Links Road	At entrance to hotel	Gully blocked	Camera survey required
Blenheim Lane		Properties flooded	Investigation required
Brodiach Road	Near Cairdhilllock	Gully outlets blocked	Investigation required
Countesswells Road	At Red Gables	Flooding to road and property	Culvert to be upgraded
North Deeside Road	No 422	Flooding to property	Investigation required
Lade Crescent	No 5	Properties flooded	Network Rail to assess
Kirk Brae	Sunnyside Stables	Flooding to road and properties	Investigation required
Linn Moor Road	Millburn Cottage	Flooding to properties	Resident constructing bund

3.3 Road Drainage Other

There have been many other minor incidents of flooding due to blocked gullies, ditches or culverts in the past two years that have been solved under Roads Maintenance.



4 IDENTIFICATION OF WATERCOURSES & CATCHMENTS

Since publication of the 6th biennial report there have been no additional watercourses identified within Aberdeen City. Information held on the GIS in November 2003 remains unaltered to date with the exception of some newly located hecks (trash screens).

Current records therefore estimate that there are 110km of watercourses of which 36% are open cut. The watercourses can be detailed as follows:

Watercourse Name	Area	Urban / Rural
Airyburn	Bridge of Don	Rural
Ashley Burn	Holburn	Urban
Auchincleach Burn	Clinterty	Rural
Auchinyell Burn	Garthdee / Cults	Urban
Banstickle Burn	Seaton	Urban
Blackdog Burn	Bridge of Don	Rural
Black Burn	Tyrebagger	Rural
Broadfold Burn	Bridge of Don	Urban
Bucks Burn	Kingswells / Bucksburn	Rural / Urban
Burn of Mundurno	Bridge of Don	Rural
Culter Burn	Culter	Rural / Urban
Cults Burn	Cults	Rural / Urban
Denburn	City Centre	Urban
Den of Murtle Burn	Milltimber	Rural
Don	North Aberdeen	Urban
Dee	South Aberdeen	Urban
Farburn	Dyce	Rural / Urban
Farburn 2	Dyce	Rural / Urban
Ferryhill Burn	Ferryhill	Urban
Gilcomston Burn	Rosemount	Urban
Glashieburn	Bridge of Don	Rural / Urban
Gough Burn	Bridge of Don	Rural
Green Burn	Bucksburn	Urban
Leggart Burn	Kincorth	Rural / Urban
Littlemill Burn	Clinterty	Rural
Newton Dee Burn	Bieldside	Rural / Urban
Outseats Burn	Garthdee	Urban
Powis Burn	Kittybrewster / Seaton	Urban
Rubislaw Burn	Rubislaw	Urban
Ruthrieston Burn	Ruthrieston / Mannofield	Urban
Scatter Burn	Northfield / Middlefield	Urban
Silverburn	Bridge of Don	Urban
Silverburn	Culter	Rural
Tullos Burn	Tullos	Rural / Urban
Wogle Burn	Clinterty	Rural
Ditch No 162	Bridge of Don	Urban

5 WATERCOURSE ASSESSMENTS

5.1 Watercourses

A programme has been produced for an initial general inspection of all open sections of watercourses within the city. It is expected that this will be completed by 31 March 2011. This will require a staff resource of 1 FTE for up to 8 weeks at a cost of approx £10,000 and will form the basis for future inspection regimes.

5.2 Hecks

As stated in the 6th Biennial report, all known hecks within the City continue to be inspected on a monthly basis, before high level rainfall as indicated by the meteorological office and after unduly severe weather/storm conditions. It is maintained that blocked hecks remain the highest risk of potential flood instances and they therefore require to be cleaned to prevent or mitigate flooding. The heck database continues to be updated with dates of cleansing in line with best practice. New hecks continue to be manufactured and placed changing design to allow maximum discharge even when some blockages occur.

During the 5th Biennial period all hecks were inspected and assessed for their compliance with the CIRIA 'Culvert Design Guide – Report 168'. This assessment highlighted 20 hecks that did not comply of which 4 have now been altered, these hecks have standing platforms and handrails allowing for safer clearing of obstructions.

Duties for the next two years are proposed to be:

- Repair / replacement of hecks as funding and resource allows
- Tracking of heck inspections – Currently being carried out but requires a more formal approach
- The update of known hecks to the GIS system – started (Nov 2009)

