

Appendix A

Flood risk problem location database

ID	Problem Location	Sub-catchment	Description of problem\comments	Mechanism	Authority responsible	Source	Flooding Dates	Ref (data register)	Council
C01	Great Barrow	Gowy	Cottages at risk from Milton and Back Brook flooding.	Low-lying in flood plain, sewer	EA	Fluvial, sewer		23	Chester CC
C02	Broomhill	Gowy	Properties at risk from parallel watercourses: Barrow and Salvers Brook.	Low-lying in flood plain	EA	Fluvial		23	Chester CC
C03	Brook farm	Gowy	Farm properties and other properties both sides of Salvers Brook at risk. Possibly issues with drain blockages.	Low-lying in flood plain, drain blockages	EA	Fluvial		23	Chester CC
C04	West of Duddon Common, Willington Lane.	Gowy	Duddon Mill beside Willington and tributary of Milton Brook posing threat. On Chester flood risk sheet and FZ. External flooding.	Low-lying in flood plain, drain blockages	EA	Fluvial		23 and 66	Chester CC
C05	Badgers House	Gowy	Waterless brook meanders across rural area and beside some residential properties. FZ map.	Low-lying in flood plain, drain blockages	Chester	Fluvial		23	Chester CC
C06	Mill Farm	Gowy	River Gowy meanders through rural area and next to farm properties. FZ map.	Low-lying in flood plain, drain blockages	EA	Fluvial		23	Chester CC
C07	Woodsworth green farm	Gowy	Gowy tributary next to farm property. FZ map	Low-lying in flood plain	Chester	Fluvial		23	Chester CC
C08	Brook Bank farm	Gowy	Crimes Brook (Gowy tributary) meanders across farm property and cottages. FZ map	Low-lying in flood plain	EA	Fluvial		23	Chester CC
C09	Upton	Gowy	Tributary to the Gowy. From Chester flood risk sheet. Internal flooding.	River overtopping	Chester	Fluvial		66	Chester CC
C10	Ashton Shay Lane, Peel Crescent	Gowy	Gonger Brook from Chester flood problem sheet. Gonger Brook is now a main river.	Low-lying in flood plain	EA	Fluvial		66	Chester CC
C11	Ashton Willow Hays	Gowy	Tributary of Gonger Brook from Chester flood problem sheet.	Low-lying in flood plain	EA	Fluvial		66	Chester CC
C12	Mickle Trafford, Plemstall Lane	Gowy	Tributary of Babbins Brook from Chester flood problem sheet. Ref 50= Overtopping/capacity issue and Plemstall drain. Flooding 33cm deep around Plemstall Bridge area.	Colvert capacity and river overtopping	Chester	Fluvial	April 1971	66 and 50	Chester CC
C13	Kelsall	Gowy	Salvers Brook. From Chester flood problem sheet. Also sewer flooding issues with new developments	Low-lying in flood plain, sewer	Chester	Fluvial, sewer		66	Chester CC
C14	Sealand Basin	Dee	Where the Dee becomes canalised there is a risk of overtopping and breaching of the defences. This risk extends to Sealand Road, Gladstone Ave, Vernon Rd, Catherine St, Jesmond Rd and the Greyhound Industrial Park. This has been exacerbated by recent developments.	tidal floodplain defence breach	EA	Fluvial/tidal			Chester CC
C15	The Groves	Dee	Upstream of the old Dee Bridge - The Groves risk to basements from overtopping of the Dee. The property threshold levels are below the river level.	tidal floodplain defence breach	EA	Fluvial/tidal			Chester CC
C16	Upton	Dee	Internal sewer flooding due to insufficient capacity of the combined sewer. Affects Marina Drive. Also surface water flooding at Langfield Avenue.	Combined sewer capacity	UU	sewer			Chester CC
C17	Balmoral Park	Dee	Foul sewer flooding. The holding tank can flood residential properties during heavy rain.	Sewer holding tank	UU	sewer			Chester CC
C18	Parkgate Road	Dee	Finches Gutter and Bates Brook floods Parkgate road. Due to malfunctioning of flap valves.	Backing up watercourses	Chester	Fluvial/tidal			Chester CC
C19	Farndon	Dee	The bridge in Farndon has been known to build up debris and hold up flood water from the Dee.	Blocked bridge	EA	Fluvial			Chester CC
C20	Malpas	Gowy	Well Street in Malpas can be flooded by springs and sewer capacity.	Sewer capacity	WW	sewer			Chester CC
C21	Kelsall	Gowy	Mentioned previously in database						
C22	Tarvin	Gowy	Poole cottage and around can be affected by sewer flooding.	Sewer capacity	UU	sewer			Chester CC

Appendix B

Data provided by the LPA

Chester City Council Development Monitoring Information and Potential LDF Sites

Chester City Council 2007 Data	Land use	Official Reference	FM Reference	Location	Hectares	Coordinates	Status*
Employment	Employment		CHE1	Extension to Chowley Oak Employment Area (part)	1.40	347685E, 356550N	A
			CHE2	Former BICC Helsby	3.50	348039E, 374412N	A
			CHE3	Bumpers Lane	25.00	338915E, 366175N	A
			CHE4	Redevelopment of part of Countess Hospital	2.00	340107E, 368335N	P
			CHE5	Former Ince Power Station (remaining area)	28.50	345622E, 376297N	A
			CHE6	Monument Farm (remaining area)	0.70	341331E, 355322N	A
			CHE7	Old Port, Chester	1.50	339829E, 366201N	P
			CHE8	Dutton Green, Little Stanney	0.78	342014E, 375107N	P
			CHE9	Chapel Lane, Milton Green	1.00	346034E, 358645N	P
			CHE10	Part of NE Urban Action Area - Hoole Road	0.50	341019E, 367357N	P
			CHE10	Part of NE Urban Action Area - Garden Lane	0.32	340322E, 366799N	P
			CHE10	Part of NE Urban Action Area - Leadworks Lane	0.43	341450E, 366719N	P
Land use	Official Reference	FM Reference		Location	Number of dwellings	Coordinates	Status
Housing	Housing		CHH1	Part of the Countess of Chester Hospital	200	340107E, 368335N	P
			CHH2	Linnenhall Stables	104		A
			CHH3	Off Station Road (north east urban action area)	47		A
			CHH4	George Street / Gorse Stacks	162		A
			CHH5	South of Northgate Village	60		A
			CHH6	South of Brookside Terrace	30		A
			CHH7	Townfield Lane, Farndon	45		A
			CHH8	Land at Stratford Road	26	338283E, 367761N	P
			CHH9	Land at Treborth Road	156	337604E, 367229N	P
			CHH10	M Print Site Milton Street	18	340970E, 366760N	P
			CHH11	97A Christleton Road Boughton	8	342130E, 366340N	P
			CHH12	Land off City Road Hoole Way	131	341605E, 366672N	P
			CHH14	City House City Road	137	341233E, 366706N	P
			CHH15	Calder Industrial Estate Leadworks Lane	27	341370E, 366700N	P
			CHH16	Concorde House, Forest Street North	19	366360E, 341030N	P
			CHH17	Land At corner of Bollands Court and Commonhall Street	24	340470E, 366150N	P
			CHH18	Land Adj to Murlain House Union Street	20	366340E, 341070N	P
			CHH19	Land at Murlain House, Union Street, Chester	53 Sheltered Apartments	366340E, 341070N	s106
			CHH20	103 Brook Street	6	340940E, 366890N	P
			CHH21	Land at Black Diamond Street	139	340992E, 367011N	P
			CHH23	Tilstons Yard Land at Crane Wharf	24	339800E, 366570N	P
			CHH24	Meadow House Farm, Huntington	5	341890E, 364200N	P
			CHH25	Hartwell Garage 93-99 Chester Rd, Huntington	20	342380E, 364480N	P
			CHH26	Barwoods Drive Saltney	19	338460E, 364440N	P
			CHH27	Land At West Street Hoole	5	341120E, 367260N	P
			CHH28	Hapsford Poultry Farm Hapsford	6	347341E, 374529N	s106
			CHH29	Chapel House Farm The Green Poulton	8	339617E, 358430N	P
			CHH30	Former Railway Sidings Elton	5	345400E, 375900N	P
			CHH31	Speeds way Farndon	3		P
			CHH32	Reliance Works and Holly Cottage Chester Road	5	351891E, 367947N	P
			CHH33	Whitegate Quarry Hill Kelsall	12	353087E, 368570N	P
			CHH34	Gasworks House Well Street Malpas	7	348901E, 347271N	P
			CHH35	Garage House Nomansheath	8	348901E, 374272N	P
			CHH38	Edge Grange, Grange Lane, Tilston SY14 7DZ	7	347660E, 351094N	P
			CHH39	YMCA House, Station Road, Chester	147	341224E, 366963N	s106

		CHH40	Land at Tower Wharf	153 units, mixed use scheme with residential, office, bars, restaurant and retail. (0.5 ha of employment)	340052E, 366789N		s106
		CHH41	Corn Merchants	20	348794E, 347570N		s106
		CHH42	The Gorstella, Welsh Rd, Dodeleston	8	335821E, 362101N		s106
		CHH43	Jesmond Buildings, Jesmond Rd	9	339711E, 366966N		s106
		CHH44	Heygarth Heights, Francis Street	36 Extra care appartments	341128E, 366702N		s106
		CHH45	Boughton Hall, Filkins Lane	77 Extra Care Appartments	342460E, 366240N		s106
Land use	Official Reference	FM Reference	Location	Area	Coordinates		Status
Major Development Projects / Mixed Use Schemes		CHM1	Northgate Development	4.6ha site - 41000m ² proposed floorspace, mixed use scheme	340400E, 366400N		P
		CHM2	Castle Gateway / police HQ	1.45ha site - 18,420 m ² proposed floorspace, 35 units	340342E, 365854N		P
		CHM3	Delamere Street / Gorse Stacks	0.96ha site - 3250m ² proposed floorspace, 212 units	340497E, 366782N		P
		CHM4	Telephone Exchange, Chester City Centre	0.3ha site - 6992.7m ² proposed floorspace	340854E, 366261N		P
Land use	Official Reference	FM Reference	Location	Area	Coordinates		Status
		CHEI6	Clifton Drive, Sealand Road, Chester	Site plan (SW)	338286E 367341N (N53:11:58 W2:55:31)		U
		CHEI6	Land at Sealand Road, west of Clifton Drive, Chester	Site plan (SW)	338286E 367341N (N53:11:58 W2:55:31)		U
		CHEI6	Land at Sealand Road, Clifton Drive, Chester	Site plan (SW)	338286E 367341N (N53:11:58 W2:55:31)		U

* A = Allocation in the Chester District Local Plan, P = Sites with planning permission, s106 = Sites with planning permission, subject to a section 106 agreement being signed, U = Unallocated sites.

Appendix C

Flood Risk Matrix for Sites

ID	Site name and reference	Site size ha	Proposed type	>1ha?	Flood Zone 1, 2, 3	Defended and SoP	Risk Profile	Other Influences	Current site (as per Table D3, PPS25)	Recommendations				
CHE1	Extension to Chowley Oak Employment Area (part)	2.27	Employment	YES	1	Undefended	unknown	None identified	development should be appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 15 in the SFRA for drainage requirements.	1			
CHE2	Former BICC Helsby	3.50	Employment	YES	1,2,3a,3b	Undefended	unknown	At risk from Hornsmill Brook. Part of the flood zone should be classed as functional floodplain.	development should be appropriate outside of the functional floodplain (zone 3b)	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Only the water-compatible uses and the essential infrastructure listed in Table D.2 of PPS25 that has to be there should be permitted in Zone 3b. An FRA should define the functional floodplain for confirmation. Flood risk from Hornsmill Brook should be further investigated. The Environment Agency must be consulted as the development is within 20m of a main river.	1	2	3a	3b
CHE3	Bumpers Lane	25.00	Employment	YES	3a	d200	Significant	Flood risk from River Dee, pond and drain close to site. Area benefiting from flood defences. Flood hazard rating of significant from a breach in close proximity to the site.	development should be appropriate	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. The water-compatible and less vulnerable uses of land in Table D.2 of PPS25 are appropriate in this zone. The potential significant flood hazard from a breach should be mitigated against. Flood risk from watercourse and pond should be further investigated. The Environment Agency must be consulted as the development is within 20m of a main river. The Environment Agency must be consulted on any development that required culverting operation or the control of the flow of any river or stream. Land Drainage Act Consent information applicable as the development is next to an Ordinary Watercourse.			3a	
CHE4	Redevelopment of part of Countess Hospital	2.00	Employment	YES	1	Undefended	unknown	None identified	development should be appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 15 in the SFRA for drainage requirements.	1			
CHE5	Former Ince Power Station (remaining area)	28.50	Employment	YES	2 and 3b	Undefended	unknown	Flood risk from pond and drains close to site. Flood risk area outside of Flood Zone 2 should be classed as functional floodplain.	development should be appropriate outside of functional floodplain (zone 3b)	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Only the water-compatible uses and the essential infrastructure listed in Table D.2 of PPS25 that has to be there should be permitted in this zone. Flood risk from ponds and drains should be further investigated. Possibly at flood risk due to critical drainage problems (or has been notified to the local planning authority by the Environment Agency). A full FRA will therefore be required, see Annex E of PPS25 for minimum requirements.	2			3b
CHE6	Monument Farm (remaining area)	0.70	Employment	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1			

ID	Site name and reference	Site size ha	Proposed type	>1ha?	Flood Zone 1, 2, 3	Defended and SoP	Risk Profile	Other Influences	Current site (as per Table D3, PPS25)	Recommendations			
CHE7	Old Port , Chester	1.50	Employment	YES	2 in 2100	D200	unknown	Could be at risk from the 1 in 1000 year flood in 2100 due to climate change.	development should be appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 15 in the SFRA for drainage requirements. Flood risk from River Dee should be further investigated as the site could be at risk in the future due to climate change. The Environment Agency must be consulted as the development is within 20m of a main river.	2 + CC		
CHE8	Dutton Green, Little Stanney	2.82	Employment	YES	3a	D50	unknown	Flood risk from defended River Gow. Possible flood risk from Little Stanney Drain from flood risk problems database.	development should be appropriate if risk from drain can be managed.	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. The water-compatible and less vulnerable uses of land in Table D.2 of PPS25 are appropriate in this zone. Flood risk from River Gow and Little Stanney Drain should be further investigated. This drain has been highlighted as a flood risk location.		3a	
CHE9	Chapel Lane, Milton Green	0.63	Employment	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		
CHE10	Part of NE Urban Action Area - Hoole Road	0.50	Employment	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		
CHE10	Part of NE Urban Action Area - Garden Lane	0.33	Employment	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		
CHE10	Part of NE Urban Action Area - Leadworks Lane	2.86	Employment	YES	1	Undefended	unknown	Flood risk from canal close to site.	development should be appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 15 in the SFRA for drainage requirements. Flood risk from canal and River Dee should be further investigated.	1		
CHH1	Part of the Countess of Chester Hospital	0.34	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		
CHH2	Linnenhall Stables	0.10	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		

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CHH3	Off Station Road (north east urban action area)	0.86	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		
CHH4	George Street / Gorse Stacks	0.45	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		
CHH5	South of Northgate Village		Housing		1	Undefended	unknown	Flood risk from canal close to site.	development should be appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 15 in the SFRA for drainage requirements. Flood risk from canal should be further investigated.	1		
CHH6	South of Brookside Terrace	0.66	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		
CHH7	Townfield Lane, Farndon	1.73	Housing	YES	1	Undefended	unknown	None identified	development should be appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 15 in the SFRA for drainage requirements.	1		
CHH8	Land at Stratford Road	0.43	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH9	Land at Treborth Road	3.59	Housing		1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH10	M Print Site Milton Street	0.086	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		

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CHH11	97A Christleton Road Boughton	0.5	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH12	Land off City Road Hoole Way		Housing		1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH14	City House City Road		Housing		1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH15	Calder Industrial Estate Leadworks Lane (shot tower only)	0.43	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH16	Concorde House, Forest Street North	0.03	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		
CHH17	Land At corner of Bollands Court and Commonhall Street	3.32	Housing	YES	1	Undefended	unknown	None identified	development should be appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 15 in the SFRA for drainage requirements.	1		
CHH18	Land Adj to Murlain House Union Street	0.11	Housing		1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH19	Land at Murlain House, Union Street, Chester		Housing		1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		

ID	Site name and reference	Site size ha	Proposed type	>1ha?	Flood Zone 1, 2, 3	Defended and SoP	Risk Profile	Other Influences	Current site (as per Table D3, PPS25)	Recommendations			
CHH20	103 Brook Street		Housing		1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH21	Land at Black Diamond Street	2.19	Housing	YES	1	Undefended	unknown	None identified	development should be appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 15 in the SFRA for drainage requirements.	1		
CHH23	Tilstons Yard Land at Crane Wharf	0.12	Housing	NO	3a	d200	moderate	Flood risk from River Dee and canal close to site. Possibly a moderate flood hazard from the breach analysis.	Exception Test required	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. The water-compatible and less vulnerable uses of land in Table D.2 of PPS25 are appropriate in this zone. Flood risk from River Dee and canal should be further investigated. Breach analysis shows site could be at moderate risk to people. The Environment Agency must be consulted as the development is within 20m of a main river.		3a	
CHH24	Meadow House Farm, Huntington		Housing		2 in 2100	Undefended	unknown	Could be at risk from the 1 in 1000 year flood in 2100 due to climate change.	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html). The site may be at risk of flooding in the future due to climate change.	2 + cc		
CHH25	Hartwell Garage 93-99 Chester Rd, Huntington	0.3	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH26	Barwoods Drive Saltney	0.38	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH27	Land At West Street Hoole	0.04	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		

ID	Site name and reference	Site size ha	Proposed type	>1ha?	Flood Zone 1, 2, 3	Defended and SoP	Risk Profile	Other Influences	Current site (as per Table D3, PPS25)	Recommendations			
CHH28	Hapsford Poultry Farm Hapsford	0.52	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH29	Chapel House Farm The Green Poulton	0.77	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH30	Former Railway Sidings Elton	0.07	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH31	Speeds way Farndon	0.17	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		
CHH32	Reliance Works and Holly Cottage Chester Road		Housing		1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH33	Whitegate Quarry Hill Kelsall	0.21	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH34	Gasworks House Well Street Malpas	0.17	Housing	NO	1	Undefended	unknown	Flood risk problem location.	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		
CHH35	Garage House Nomansheath	0.27	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH38	Edge Grange, Grange Lane, Tilston SY14 7DZ	1.05	Housing	YES	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		

ID	Site name and reference	Site size ha	Proposed type	>1ha?	Flood Zone 1, 2, 3	Defended and SoP	Risk Profile	Other Influences	Current site (as per Table D3, PPS25)	Recommendations			
CHH39	YMCA House, Station Road, Chester	0.86	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH40	Land at Tower Wharf	2.31	Housing	YES	1	Undefended	unknown	Flood risk from canal close to site.	development should be appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 15 in the SFRA for drainage requirements. Flood risk from canal should be further investigated.	1		
CHH41	Corn Merchants	0.7	Housing	NO	1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH42	The Gorstella, Welsh Rd, Dingleston		Housing		1	Undefended	unknown	None identified	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA.	1		
CHH43	Jesmond Buildings, Jesmond Rd	0.2	Housing	NO	3a	D100	moderate	At flood risk from Dee and possibly Finchets Gutter. Flood risk profile shows this site could be at risk from a moderate level of flood hazard.	Exception Test required	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. The water-compatible and less vulnerable uses of land in Table D.2 of PPS25 are appropriate in this zone. Flood risk from Finchets Gutter should be further investigated and risk to people should also be considered in the FRA..		3a	
CHH44	Heygarth Heights, Francis Street		Housing		1	Undefended	unknown	Flood risk from canal close to site.	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. Flood risk from canal should be further investigated.	1		
CHH45	Boughton Hall, Filkins Lane	1.84	Housing		1	Undefended	unknown	Flood risk from canal close to site.	development should be appropriate	This site is not within Flood Zones 2 or 3. A FRA is not required unless the site is over 1 hectare. If the site is over a hectare vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. Flood risk from canal should be further investigated.	1		

ID	Site name and reference	Site size ha	Proposed type	>1ha?	Flood Zone 1, 2, 3	Defended and SoP	Risk Profile	Other Influences	Current site (as per Table D3, PPS25)	Recommendations			
CHM1	Northgate Development	4.6ha site - 41000m ² proposed floorspace, mixed use scheme	Major Development Projects / Mixed Use Schemes	YES	1	Undefended	unknown	Flood risk from canal close to site.	development should be appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 15 in the SFRA for drainage requirements. Flood risk from canal should be further investigated.	1		
CHM2	Castle Gateway / police HQ	1.45ha site - 18,420 m ² proposed floorspace, 35 units	Major Development Projects / Mixed Use Schemes	YES	1	d100	unknown	Flood risk from drain running through site.	development should be appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 15 in the SFRA for drainage requirements. Flood risk from other drain should be further investigated.	1		
CHM3	Delamere Street / Gorse Stacks	0.96ha site - 3250m ² proposed floorspace, 212 units	Major Development Projects / Mixed Use Schemes	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		
CHM4	Telephone Exchange	0.3ha site - 6992.7m ² proposed floorspace	Major Development Projects / Mixed Use Schemes	NO	1	Undefended	unknown	None identified	development should be appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1		
CHEI6	East A5480, Chester	10.96	Not known at this stage	YES	3b	D200	unknown	This land area is within the Finchets Gutter flood storage area. Flood risk also from the defended river Dee within an area benefiting from defences. Within a historic flood risk outline. Flood zone should be considered as 3b because this area is a functional flood storage area	Only the water-compatible uses and the essential infrastructure is appropriate.	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Only the water-compatible uses and the essential infrastructure listed in Table D.2 of PPS25 that has to be there should be permitted in this zone. The Environment Agency must be consulted as the development is within 20m of a main river. Flood risk from drain and Finchets Gutter and Sealand Main Drain should be further investigated. The significant risk to people should be considered as part of the FRA. Possibly at flood risk due to critical drainage problems (or has been notified to the local planning authority by the Environment Agency). A full FRA will therefore be required, see Annex E of PPS25 for minimum requirements.			3b
CHEI6	Land at Sealand Road, west of Clifton Drive, Chester	8.64	Not known at this stage	YES	3b	D200	Moderate	Flood risk from Sealand Main Drain running through site. Functional floodplain affects the site. Within historic flood map. At risk from defended Dee. Within an area benefiting from defences. Moderate risk to people from a breach in the flood defences.	Only the water-compatible uses and the essential infrastructure is appropriate.	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Only the water-compatible uses and the essential infrastructure listed in Table D.2 of PPS25 that has to be there should be permitted in this zone. Flood risk from Sealand Main Drain should be further investigated. Possibly at flood risk due to critical drainage problems (or has been notified to the local planning authority by the Environment Agency). A full FRA will therefore be required, see Annex E of PPS25 for minimum requirements.			3b
CHEI6	Land at Sealand Road, east of Clifton Drive, Chester	48.06	Not known at this stage	YES	3b	D200	Significant	This land area is within the Finchets Gutter flood storage area. Flood risk also from the defended river Dee within an area benefiting from defences. Significant risk to people from	Only the water-compatible uses and the essential infrastructure	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Only the water-compatible uses and the essential infrastructure listed in Table D.2 of PPS25 that has to be there should be permitted in this zone. Flood risk from Sealand Main Drain should be further investigated.			3b

ID	Site name and reference	Site size ha	Proposed type	>1ha?	Flood Zone 1, 2, 3	Defended and SoP	Risk Profile	Other Influences	Current site (as per Table D3, PPS25)	Recommendations					
								a breach in the flood defences. Within a historic flood risk outline. Flood zone should be considered as 3b because this area is a functional flood storage area.	is appropriate.	Possibly at flood risk due to critical drainage problems (or has been notified to the local planning authority by the Environment Agency). A full FRA will therefore be required, see Annex E of PPS25 for minimum requirements.					

Appendix D

Data register

Job: West Cheshire SFRA		Chester SFRA 53726 IBKR All data									
Description/Title	Area	Date requested	From who	Date received	Format	Type	Date / Revision	Data extent	Owner organisation	Quality	
					digital or hardcopy					(high, medium, low)	
Plan (1/25,000 or larger) showing all main rivers for the catchment.	Base data	02/05/2007	Chris Waring	12/06/2007	Digital	ArcView shp	unknown		Environment Agency	High	
Details of all COW's in District, inc. details of culverted sections.	Base data	02/05/2007	Chris Waring	not available					Environment Agency		
List of watercourses in the Weaver Gowy catchment put forward to be made COWs but rejected	Flood risk	05/10/2005	Alan Prentice	14/10/2005	hardcopy		unknown		EA	medium	
NFCDD output	Flood Defence	02/05/2007	Chris Waring	01/06/2007	digital	MapInfo	unknown	all	Environment Agency	High	
NFCDD structures and defences (and a statement) sent in MapInfo awaiting: all assets, flood storage areas and flood events in data to be sent.	Flood Defence	05/10/2005	Jane Hamilton	03/10/05 and 24/10/05	digital	ArcView	unknown		EA	medium	
NFCDD data (flood storage areas, defended areas, modelled flood outlines and groups, node points, flood event outlines and extract from information database-Lists survey drawings	Flood Defence	For WGowy CFMP	Jane Hamilton	09/11/2005	digital	MapInfo	unknown	all	EA	medium	
NFCDD layer of flood storage areas.	Flood Defence	For WGowy CFMP	Jane Hamilton	11/11/2005	digital	MapInfo	20-Oct-05	all	EA	medium	
Flooding records & maps - all available data for the whole district, including minor events. Including GIS info on existing flood risk zones.	See below										
Chester	Flood risk	16/05/2007	Adrian Tofts	arrived	notes		unknown			high	
Ellesmere Port - report by Phil N also included are notes from SW's meeting with Phil N.	Flood risk	15/05/2006	Catherine Morgetroyd	arrived	report		unknown		Ellesmere Port	high	
Vale Royal	Flood risk	15/05/2007	Charlotte Aspinall	arrived	excel		unknown		Vale Royal	high	
Flooding records & maps - all available data for the catchement. ASM flood risk locations needed.	Flood risk	02/05/2007	Chris Waring	not needed					Environment Agency		
Groundwater flooding information. Awaiting groundwater contours from regional EA hydrogeology team.	Flood risk	16/05/2007 and 26/06/07	Antony Poole	11/06/2007	digital	ArcView	unknown	all	EA	High	
Highway drainage	Flood Risk	17/05/2007	Chris Garner	N/A	N/A	N/A	N/A	Chester	Cheshire CC	N/A	
Database of properties flooded and return period used by Assets Systems Management to assess area polygons and catchment flood risk. MapInfo polygons with flooding information. The old data (with more info) as well.	Flood Risk	05/10/2005	Ian Hale	08/11/2005	digital	MapInfo and Access	unknown	all	EA		
Flooded properties and communities database.	Flood Risk	05/10/2005	Pippa Hodgekins	24/10/2005	digital		unknown		EA		
New Flood Zone maps (quarterly).	Flood Risk	05/10/2005	D Johnson, EA	07/08/2006	digital	ArcView	unknown		EA	high	
Flooding records - all available info for surface water and combined sewers in urban areas. Plan showing principal surface water sewers (i.e. diameters > 500mm) in the built-up areas of the District and records of SW flooding or tidal flooding via sewers.	Flood risk				not needed						
Welsh Water	Flood risk		James Dyke		not available						
United Utilities	Flood risk	15/05/2007	Brian Morrow	15/05/2007	digital	MapInfo	18/08/2006	all	United Utilities	medium	
Reports & plans for any significant flood alleviation schemes (river & coastal) in the district, inc. details of design flows, flood levels & defence levels.	Flood Defence	02/05/2007	Chris Waring	arrived			unknown	all	Environment Agency	high	
Gowy scheme: All available drawings relating to Folly gates FAS. River Gowy and Thornton Brook improvements. Also included is the Gowy FAS ISIS model.	Flood Defence	'	Anthony Poole	01/06/2007	digital	CAD DWG and ISIS	01/07/2001 ISIS from 2003	gowy	Environment Agency	High	
Description of hydrological/hydraulic model of the catchment (main rivers and tributaries), specifying exact lengths of channels modelled.	Modelling			not needed							
GIS theme of modelled reaches	Modelling	02/05/2007	Chris Waring	01/06/2007	digital	ArcView	unknown	all	Environment Agency	High	
Any existing catchment hydraulic model outputs and reports. If available. E.g. Pre-Feasibility modelling.	Modelling	Sept 05	Jane Hamilton	not received	digital		unknown		EA	high	
Cheshire and Wirral S105 HYDRAULIC MODEL. SEE REF46	Modelling	For WGowy CFMP	Jane Hamilton	11/11/2005	digital	isis	Mar-03	all	EA	high	
Data for Weaver model: flow, stage levels and ISIS models	Modelling	For WGowy CFMP	D Johnson, EA	23/08/2006	digital	zip	unknown	weaver	EA	high	
Location of modelled river reaches in the catchment in GIS format	Modelling	03/10/2005	Liam Gaffney	09/11/2005	Digital	ArcView	unknown	all	ea	medium	
Additional modelling data for Valley Brook: cross sections with OS map.	Modelling	25/07/2006	D Johnson, EA	06/09/2006	digital	pdf	unknown	Valley brook	EA	high	
Additional modelling data for Weaver: cross sections, soffit, bed and water levels, and location OS map	Modelling	25/07/2006	D Johnson, EA	14/08/2006	digital	pdf	unknown	upper weaver	EA	high	
Selected hydraulic model results (i.e. flood level profiles along channels modelled . Models received: Northwick detailed, Dibbinsdale Brook and Cheshire and Wirral SFRM (Wheelock, Northwick Middlewich, Nantwich, Gowy, Congleton). Supplementary Northwick Modelling Study included as a report.	Modelling	16/05/2007	Antony Poole	01/06/2007	digital	isis	unknown	all apart from Dee	EA	High	
Summary of all stream flow gauging stations in the catchment (i.e. OS grid ref, gauge type, period of record etc).	Modelling	02/05/2007	Chris Waring	01/06/2007	digital	ArcView	unknown	all	Environment Agency	High	
GIS point data of all river gauging sites and rainfall gauges.	Modelling	05/10/2005	Anne Walton	24/10/2005	digital	ArcView	unknown	all	EA	high	
Gauging station classification. The gauging sites in the Weaver Gowy catchment to be classified in terms of quality.	Modelling	05/10/2005	Andy Melluish	24/10/2005	digital		unknown	Chester	EA	high	
Details of Flood Warning Schemes (including emergency response) in operation.	Flood Warning	02/05/2007	Chris Waring				unknown	all	Environment Agency	high	
Notes on Flood Incident Management from Mike Fraser including flood history and new flood warning areas.	Flood Warning	For WGowy CFMP	Mike Fraser	05/10/2005	hardcopy	notes	05/10/2005	all	EA	high	
Flood warning procedures including gauging station levels. River Weaver at Northwick	Flood Warning	05/10/2005	Mike Fraser	24/10/2005	hardcopy	doc	17/05/2005	Lower Weaver	EA	high	

Job: West Cheshire SFRA		Chester SFRA All data			53726 IBKR						
Title: Data Register											
Weaver Flood Warning Management Plan by Black and Veatch	Flood Warning	05/10/2005	Mike Fraser	24/10/2005		doc	24/06/2005	Upper Weaver and Lower Weaver	EA	high	
Flood warning areas and address point data.	flood warning	For WGowy CFMP	Mike Fraser	24/10/2005	Digital	gis	unknown	all	ea	high	
Details of existing flood storage lagoons, runoff retention ponds etc on non-Main Rivers in the Borough.	Flood Defence										
Chester	Flood Defence	16/05/2007	Adrian Tofts	none available							
Ellesmere Port	Flood Defence	15/05/2007	Catherine Morgetroyd	none available						Ellesmere Port	
Vale Royal	Flood Defence	15/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High	
NFCDD layer of flood storage areas.	Flood Defence	For WGowy CFMP	Jane Hamilton	11/11/2005	digital	MapInfo	20-Oct-05	all	EA	medium	
Tidal and Surge Levels (Estuary and Sea) for 200yr return period storm. Expected Water Levels at Summers Jetty, Connah's Quay provided	Modelling	02/05/2007	Chris Waring	01/06/2007	digital	excel	update due 28 May 2007	coastal	Environment Agency	medium	
Catchment Flood Management Plan. Mersey Estuary - Scoping and Main report (CFMP)	Policy	02/05/2007	EA website	15/05/2007	digital	PDF	03/07 - Main, 11/05 Scoping	Mersey estuary area	Environment Agency	medium	
Shoreline Management Plan	Policy	02/05/2007	Shoreline management partnership	15/05/2007	digital	PDF	01-Dec-99	Mersey estuary area	Liverpool Bay Coastal Group	medium	
OS Base Maps in electronic format on CD (coverage of the whole District) at 1/50,000 scale] 1/10,000 scale 1/2,500 scale	Base data	20/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High	
Plan showing availability of LIDAR data	Base data	02/05/2007	EA Website	15/01/2007	digital	shapefile	20/04/2007	all	Environment Agency	medium	
Selected LIDAR data on CD from summary	Base data	02/05/2007	Chris Waring	29/05/2007	digital	ASCII Grid	2007	all	EA	High	
SAR DTM/DEM in 5m grids for the whole of the Weaver Gowy catchment	Base data	Sept 05	Neil Webster	24/10/2005	digital	ArcView	unknown	all	EA	low	
LiDAR coverage Gowy	Base data	22/12/2005	Jane Hamilton	available via SFRA	Digital	LiDAR				medium	
recently flown LiDAR coverage, Upper Weaver	Base data	18/10/2006	Liam Gaffney	27/10/2006	digital	CD, Grid	2006	Upper Weaver	EA	medium	
Development Planning Documents and/or Local Dev't F'work documents. CC											
Chester	planning	16/05/2007	Adrian Tofts and Lyndsay Jennings	30.05.07	digital	web based and Word	Jun-07	Chester	Chester	High	
Ellesmere Port	planning	15/05/2007	Catherine Morgetroyd	23/05/2007	hardcopy	report	Jan-02	Ellesmere Port	Ellesmere Port	High	
Vale Royal - includes 1st review alteration and additional omissions site documents.	planning	15/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High	
Housing Rates. Spreadsheet of projected housing sites in the north west and the interim draft revision of the Regional Spatial Strategy.	planning	For WGowy CFMP	Jane Hamilton	07/11/2005	digital	excel and pdf	Oct-05	all	EA	medium	
Census 2001 Population figures, for urban areas in catchment	planning	For WGowy CFMP	Website	09/02/2006	digital	excel	unknown	all	Government	medium	
Regional FRA figures, housing site and map	planning	For WGowy CFMP	Jane H	23/02/2006	digital	excel, word	Feb-06	all	EA, RSS	medium	
Urban housing capacity assessment	planning										
Chester	planning	16/05/2007	Adrian Tofts	arrived			unknown			medium	
Ellesmere Port - Urban Potential Study Report	planning	15/05/2007	Catherine Morgetroyd	23/05/2007	digital	pdf	May-06	Ellesmere Port	Ellesmere Port	High	
Vale Royal. Urban housing capacity assessment. GIS named HLAA by White Young Green. Hardcopy also included - scoping report. Use Hlaa for future housing sites in SFRA.	planning	15/05/2007	Charlotte Aspinall	22/05/2007	digital and hardcopy	ArcView and report	Jan-07	vale royal	White Young Green	High	
County Structure Plan (current version) Cheshire	planning		Cheshire website	not available							
Details of Major Development Areas (Existing & Proposed) CC	planning						unknown				
Chester	planning	16/05/2007	Adrian Tofts	21/06/2007	digital	excel	Jun-07	Chester	Chester	High	
Ellesmere Port - list of major development sites and plans.	planning	15/05/2007	Catherine Morgetroyd	26/06/2007	hardcopy	notes and plans	Jun-07	Ellesmere Port	Ellesmere Port	High	
Vale Royal	planning	15/05/2007	Charlotte Aspinall	arrived			unknown	vale royal	Vale Royal	medium	
GIS theme of ancient woodland	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	07/09/2004	all	English Nature	high	
GIS theme of AONB	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	05/05/2005	all	Countryside Agency	high	
GIS theme of countryside character areas and citations for the relevant areas	Environment	For WGowy CFMP	magic and CA website	08/09/05	digital	ArcView and pdf	05/05/2005	all	Countryside Agency	high	
GIS theme of countryside stewardship scheme target areas. i.e. priorities for the area.	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	20/10/2003	all	Defra	high	
GIS theme of Forestry Commission Conservancy Boundaries.	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	22/05/2002	all	Forestry Commission	high	
GIS theme of heritage coasts	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	11/04/2003	all	Countryside Agency	high	
GIS theme of land management initiatives i.e. changing land management to maintain attractive environment	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	31/01/2003	all	Countryside Agency	high	
GIS theme of national nature reserves	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	15/08/2005	all	English Nature	high	
GIS theme of proposed national parks	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	06/04/2005	all	Countryside Agency	high	
GIS theme of Ramsar sites	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	15/08/2005	all	English Nature	high	
GIS theme of sac sites	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	15/08/2005	all	English Nature	high	
GIS theme of spa sites	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	15/08/2005	all	English Nature	high	
GIS theme of sassy sites	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	15/08/2005	all	English Nature	high	
GIS theme of sissy unit sites	Environment	For WGowy CFMP	magic	08/09/05	digital	ArcView	15/08/2005	all	English Nature	high	

Job: West Cheshire SFRA		Title: Data Register		Chester SFRA All data			53726 IBKR					
GIS themes of SAM's, world heritage sites, parks and gardens, battlefields and protected wrecks.	Environment	For WGowy CFMP	Graham Deacon, NMR Enquiry and Research Services-Archaeology	12/09/2005	digital	ArcView	Not stated	all	English Heritage	high		
GIS theme of land cover data. Shows the distribution of habitat classes throughout the catchment.	Environment	For WGowy CFMP	Michael Shankster	19/09/2005	digital	ArcView	2001	all	CEH	high		
Local Environmental Action Plans ("LEAPs") EA												
LEAPs (predecessor to Catchment Management Plans)	Environment	Sept 05	Jane Hamilton	07/11/2005	hardcopy	report	1997 and 2001 review	all	EA	medium		
GIS theme of lakes and reservoirs - EA not able to provide, need separate licence from CEH	Base data	16/05/2007	Antony Poole	not needed					EA			
GIS theme of lakes and reservoirs	Base data	01/11/2005	Jane Hamilton	09/11/2005	digital	ArcView	unknown	all	EA	medium		
Details of Emergency Response Procedures for flood events. EA/BC			02/05/2007	Chris Waring	all received				Environment Agency			
Flood Incident Response Plan for Northwich	Flood Warning	05/10/2005	Mike Fraser	24/10/2005	hardcopy	doc	Mar-05	Lower Weaver	Vale Royal	high		
Flood Risk Assessments												
Chester	Flood risk	01/05/2007	Liz Stone	01.05.07			unknown	Chester	Chester CC	medium		
Ellesmerport	Flood risk			not required								
Vale Royal - List of proposals 'considerations at committee'. Still awaiting FRA data. Meeting needed.	Flood risk	15/05/2007	Charlotte Aspinall	meeting attended					Vale Royal			
List of planning application determinations contrary to EA advice. File names '25494 available data from Sherron kitchen'.	planning	16/05/2007	Antony Poole	available upon request	digital	excel	unknown	all	EA	n/a		
Chester Old Port River Wall Restoration Feasibility Study.	Flood defence	16/05/2007	Adrian Tofts	18/05/2007	hardcopy	report	Sep-00	Chester	Chester CC	High		
Sustainability appraisal scoping report	policy	16/05/2007	Adrian Tofts	18/05/2007	hardcopy	report	Nov-06	Chester	Chester CC	High		
Representations made to site sites for local plan and supporting FRAs (Chester, Eport and Vroyal)	Flood risk	16/05/2007	Adrian Tofts	not available				all		n/a		
River Dee Northern Embankment Failure Assessment and flood routing	Modelling and flood defence	16/05/2007	Adrian Tofts	18/05/2007	hardcopy	report	Mar-00	Chester	Chester CC and Bullen	High		
Inspectors report. The impacts of flood risk on proposed developments in the Sealand Basin Area.	Flood risk	16/05/2007	Adrian Tofts	18/05/2007	hardcopy	report	Jul-02	Chester sealand basin	Chester CC	High		
Position statement on flood risk issues	Policy	16/05/2007	Adrian Tofts	not available		Apr-01			Chester CC			
Northwich Visions studies done in conjunction with the EA in respect of flood risk in Northwick town centre.	Policy	16/05/2007		Not available, see Area FRA				vale royal	Vale Royal and EA	medium		
British Waterways 3 breach locations identified.	flood risk	18/05/2007	John Spottiswood (Phil Whelan national hydrologist)	30.07.07	digital	email	Jul-07	west cheshire	British Waterways	High		
Manchester Ship Canal information - information not available	flood risk	18/05/2007	David Stork	not available					MSC			
Old Port Development Flood Risk Assessment	Flood risk	22/05/2007	Adrian Tofts	22/05/2007	hardcopy	report	Aug-04	Chester	Chester	High		
Interim report (FCA) for Waters Meet, Deeside Chester and Eas pre feasibility work on Dee northern Embankment	Flood risk	22/05/2007	Adrian Tofts	22/05/2007	hardcopy	report	Feb-07	Chester	Chester	High		
Bank top GIS theme	Base data	20/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High		
Contour data of Vale Royal area	Base data	20/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High		
Flood data - NFCDD output and flood zones for Vale Royal	Base data	20/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High		
Local plan - loads: conservation, sites, flood zones	Base data	20/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High		
OS GIS theme	Base data	20/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High		
Round table session on flooding issues in Sealand Basin. Review provided by tpk consulting. Chester DC local plan public enquiry.	Flood risk	23/05/2007	Adrian Tofts	23/05/2007	hardcopy	report	20/04/2001	Chester sealand basin	TPK consulting	medium		
Submission to round table session on flood risk issues within Sealand Basin by Weetwood Services	Flood risk	23/05/2007	Adrian Tofts	23/05/2007	hardcopy	report	15/05/2001	Chester sealand basin	Weetwood Services	medium		
Chester DC local plan enquiry. Flooding round tables session. Position on behalf of castlemore securities Ltd. By JMP consultants. Sealand Basin	Flood risk	23/05/2007	Adrian Tofts	23/05/2007	hardcopy	report	01/05/2001	Chester sealand basin	JMP Consultants	medium		
Paper copies of watercourse and canal data for Vale Royal. Should be available in GIS as well.	Base data	23/05/2007	Charlotte Aspinall	23/05/2007	hardcopy	Data tables	unknown	vale royal	vale royal	High		
Ince Glass Container Manufacturing Filling and Distribution Company. Flood Risk Assessment.	Flood risk	15/05/2007	Catherine Morgetroyd	23/05/2007	hardcopy	report	Nov-05	Ellesmere Port Ince Marshes	Jacobs Babtie	medium		
Oaklands, Hooton, Flood Risk Assessment (just N of Emere Port)	Flood risk	15/05/2007	Catherine Morgetroyd	23/05/2007	hardcopy	report	Apr-05	Ellesmere Port	Weetwood Services	medium		
Winnington Urban Village, Northwick. Planning application details and objections. Outline Major EIA.	planning	15/05/2007	Charlotte Aspinall	22/05/2007	hardcopy	report	unknown	Northwick	Vale Royal	High		
List of planning applications in Vale Royal	planning	15/05/2007	Charlotte Aspinall	22/05/2007	hardcopy	Data tables	unknown	vale royal	Vale Royal	High		
Vale Royal BC revised local development scheme 2007. Due to be adopted May 28th 2007	planning	15/05/2007	Charlotte Aspinall	22/05/2007	hardcopy	report	2007	vale royal	Vale Royal	High		
Ellesmere Port Bio-Diesel Plant Flood Risk Assessment and Strategic Drainage Review	Flood risk	24/05/2007	FM	24/05/2007	digital	pdf	Aug-06	ellesmere port	FM	High		
GIS data from Chester CC. See GIS tab for details.	Base data	May 2007	GIS Team	01/06/2007	digital	ArcView	unknown	Chester	Chester	High		
GIS data from Ellesmere Port and Neston. See GIS tab for details.	Base data	May 2007	Laura Mylen	01/06/2007	digital	ArcView	unknown	Ellesmere Port	Ellesmere Port	High		
Coastal Flood Risk Mapping	Flood risk	May 2007	Anthony Poole	01/06/2007	digital	pdf	Jul-01	coastal	EA (with Posford Duvivier and Motts)	medium		
Map showing areas protected by Knolls Bridge and Finchettts Reservoirs.	Flood Defence	May 2007	Anthony Poole	11/06/2007	hardcopy	map	23/05/2007	chester	EA	medium		
Areas protected by northern embankment. SOP 1 in 200. Chester End and Deeside Industrial Estate.	Flood Defence	May 2007	Anthony Poole	11/06/2007	hardcopy	map	23/05/2007	Chester	EA	medium		
1:10k OS mapping for Chester	Base data	12/06/2007	Simon Moor	14/06/2007	digital	tiff	unknown	Chester	Chester	High		
1:10k OS mapping for Ellesmere Port. Master map and oS	Base data	12/06/2007	Simon Moor	14/06/2007	digital	mastermap	unknown	Chester	Chester	High		

Job: West Cheshire SFRA		Chester SFRA All data			53726 IBKR							
Title: Data Register		EA flood zones distinguishing between tidal and fluvial flood risk	flood risk	May	Anthony Poole	25/06/2007	digital	ArcView shp	unknown	all	EAW	medium
Urban Potential Study		Working draft not in public domain. Confidential. The Urban Potential Study assesses existing brownfield sources of capacity for housing. This covers all settlements within the District.	planning	May	Lyndsey Jennings	26/06/2007	digital	ArcView shp	Jun-07	Chester	Chester	High
Using the GIS can obtain a full list of the sites, location and site area as requested. Many of the sites will need to come out due to either planning constraints or relevant planning histories. Currently going through this process as part of ongoing work for the LDF core strategy. Awaiting maps.												
Alson included in the Chester CC Local Plan GIS files:												
Vale Royal draft monitors for our housing, retail and employment land. These are still working drafts and are not available to the public as yet. These list all sites with planning permission for the various uses and whether they are yet under construction.	planning	May	Charlotte Aspinall	26/06/2007	digital	excel	Mar-07	vale royal	vale royal	vale royal	High	
Extreme Sea Level Predictions at Summers Jetty and Chester Weir (Defended Scenario)	flood risk	May	Alison Jones-Humphreys	28/06/2007	digital	excel	unknown	Chester and ellesmereport	EAW	EAW	medium	
Shpfiles of the Northern and Hawarden Embankment surveys, undertaken by EA staff in Chester.	Flood defence	May	Vicky Nightingale	30.07.07	digital	ArcView shp	unknown	Chester	EAW	EAW	High	
Dee Pilot CFMP			Keith Ivens	not available								
Broad scale Dee modelling from the CFMP and the update when available.			Keith Ivens	not available								
River Dee flood defence details. Height and SOP. Awaiting GIS of this though (this is now in 154 dated 30.07.07).	Flood defence	May	Keith Ivens	24.07.07	digital	email	unknown	epnbc and Chester	EAW	EAW	High	
Northwich Vision document.	planning	May	Graham Knott	27.07.07	hardcopy	doc	unknown	northwich	Vale royal	Vale royal	High	
Doncaster SFRA	planning	na	Graham Knott	27.07.07	digital	report	2004	all	Doncaster DC	Doncaster DC	medium	
List of major development areas from EPNbc (should contain a map)	planning	May	Catherine Morgetroyd	26.06.07	hardcopy	letter	Jun-07	epnbc	epnbc	epnbc	High	
EPNbc local plan in GIS. Also included are the epnbc urban potential sites.	planning	may	Catherine Morgetroyd	26.06.07	digital	MapInfo GIS	unknown	epnbc	epnbc	epnbc	High	
Example SFRA from Peterborough FM	planning	02.08.07	Barry Barton	02.08.07	digital	pdf	various	na	various Las	various Las	medium	
Curzon Park, Chester, Embankment Pre-Feasibility Study	Flood defence	May	Keith Ivens	03.08.07	hardcopy	report	Jan-07	chester	Chester	Chester	High	
River Dee Embankments Breach Modelling Report Curzon Park, Chester	Flood defence	May	Keith Ivens	03.08.07	hardcopy	report	Sep-05	Chester	Chester	Chester	high	
Northern and Hawarden Embankments Pre-Feasibility Study	Flood defence	May	Keith Ivens	03.08.07	hardcopy	report	Jan-07	Chester	Chester	Chester	High	
Deeside Flood Embankment Assessment Geotechnical Report	Flood defence	May	Keith Ivens	03.08.07	hardcopy	report	Oct-06	Chester	Chester	Chester	High	
Sealand development sites, GIS layer	planning	03/08/2007	Lyndsey Jennings	06/08/2007	digital	ArcView	Aug-07	Chester	Chester	Chester	High	
Remaining sites from Vale Royal. List was sent VR sent the missing sites in GIS.	planning	03/08/2007	Charlotte Aspinall	07.08.07	digital	ArcView	unknown	vale royal	vale royal	vale royal	medium	
GIS polygons of flood risk locations, dirived from P Nightingale's report produced for the SFRA.	Flood risk	na	Phil Nightingale and created by Suzie Piper	09/08/2007	digital	ArcView	June 2007 (original data)	epnbc	Faber Maunsell	Faber Maunsell	medium	
Dee River Basin summary of water management issues.	Base data	01/08/2007	Lyndsey Jennings	16/08/2007	digital	pdf	Not stated	Chester	EAW	EAW	medium	
ISIS model from the Dee CFMP. 1 in 100 and 1 in 200 year runs only. Includes a modelling report. The 4% and 1% tidal and fluvial events have also been sent.	modelling	July	Vicky Nightingale	20/08/2007 and 04/09/07	digital	isis	Jul-04	Chester	EAW	EAW	medium	
Sealand basin analysis. ISIS and TuFLow models	modelling	-	Neil Taunt.	Aug 07	digital	isis and tuflow	Aug 07	Chester	EAW	EAW	High	
Tuflow tidal extents for Chester. Undefended and defended scenarios.	modelling	-	Keith Ivens	01/11/2007	digital	ArcView shp	Oct-07	Chester	EAW	EAW	High	
Sealand Basin breach report and depth grids.	modelling	-	Neil Taunt.	02/11/2007	digital	jpeg and psf	Oct-07	Chester	EAW	EAW	High	
River Dee Draft CFMP Scoping Report.	flood risk	May	Lyndsey Jennings	07/11/2007	digital	pdf and word	Sep-07	Chester and Ellesmere Port	EAW	EAW	Medium	

Appendix E

Figures