

Site-Specific Issues and Constraints Identified by United Utilities Water Limited

South Ribble – Constraints

Pressurised water main within the boundary

- EC6.1 Cuerden (3inch in road)
- EC4.2 Land at Leyland Business Park (160mm and 90mm)
- HS3.12 Land off Brownedge Road/Railway Sidings Housing (160mm in road)
- HS3.14 Gas Holders Site (aka Land off Wateringpool Lane) (315mm and 110mm in road)
- HS3.4 South of Factory Lane East of WCML (63mm in road)
- HS3.2 Aspley House (63mm and 110mm in road)
- HS3.1 Emnie Lane (160mm in road)
- HS3.9 Land South of Liverpool Old Road (12 inch)

Wastewater Network Structure

- HS3.2 Aspley House (Lodge View PS)

Within 500m of a WwTW

- HS3.1 Emnie Lane (Leyland WwTW)

Pressurised sewer within the boundary

- HS3.2 Aspley House (combined sewer – no diameter)

Gravity sewer within the boundary

- EC4.1 Land north of Lancashire Business Park (private watercourses – 900mm and 1050mm)
- EC6.1 Cuerden (overflow pipe – 150mm – no CSO showing on ProjectMapper)
- HS3.12 Land off Brownedge Road/Railway Sidings (combined sewer – 1000mm)
- HS3.14 Gas Holders Site (aka Land off Wateringpool Lane) (combined sewer – 375mm)
- HS3.13 Land south of Bannister Lane Farington Moss (combined sewer – 675mm and 225mm)
- HS3.4 South of Factory Lane East of WCML (Surface water highway drain – 225mm)
- HS3.2 Aspley House (combined sewer -150mm)
- HS3.5 Church Lane (combined sewer – 150mm)
- HS3.1 Emnie Lane (combined sewer – 825mm)
- HS3.18 Land Adjacent to the Fields (surface water sewer – 225mm)
- HS3.16 Windmill Hotel site Preston New Road (combined sewer – 225mm)
- HS3.8 Daub Hall Lane (surface water sewer – 150mm)
- HS3.7 Branch Road (combined sewer – 225mm)
- HS3.3 Chapel Lane (on the boundary)
- HS3.9 Land South of Liverpool Old Road (surface water sewer – 225mm)

An easement within the boundary

- HS3.14 Gas Holders Site (aka Land off Wateringpool Lane) (Water Main R404 – No L&S)

- HS3.1 Emnie Lane (Sewer R 593d – No L&S)
- HS3.7 Branch Road (Water Main F 3029/F 1117 – No L&S)
- HS3.9 Land South of Liverpool Old Road (Sewer Z3173)

UU Property within the boundary

- HS3.1 Emnie Lane (Leyland WwTW)

On Site Flooding Incident

- HS3.3 Chapel Lane

Near to Flooding Incident

- EC4.1 Land at Leyland Business Park
- EC6.1 Cuerden
- HS3.2 Aspley House
- HS3.3 Chapel Lane, Longton
- HS3.4 South of Factory Lane East of WCML
- HS3.9 Land South of Liverpool Old Road
- HS3.11 South of Factory Lane/ Land off The Cawsey
- EC4.2 Land at Leyland Business Park
- HS3.12 Land off Browndedge Road/Railway Sidings
- HS3.14 Gas Holders Site (aka Land off Wateringpool Lane)
- HS3.17 Brambles Rest Home
- HS3.18 Land Adjacent to the Fields
- HS3.6 Liverpool Road

Reservoir Flood Risk

- EC4.1 Land north of Lancashire Business Park
- HS3.4 South of Factory Lane East of WCML
- HS3.1 Emnie Lane

Preston - Constraints

Water network structure

- SS3 North West Preston PR4 0LH-PR4 0RU (numerous boreholes and bulk supply point)

Pressurised water main within the boundary

- EC3.4 Riversway Phase Maritime Way (160mm)
- EC3.2 Preston East Junction 31A M6 (36 inch, 160mm)
- EC3.1 Alstoms Strand Road (12 inch)
- SS5 Land West Cottam East Western Distributor A (90mm)
- SS3 Land Adjoining Mayors Farm Bartle Lane (110mm)
- SS3 North West Preston PR4 0LH-PR4 0RU (numerous water mains including 15 inch trunk main)
- SS3 Land at Bartle (Hodder Aqueduct and other smaller water mains)
- SS4 Fulwood Barracks Watling Street Road (6 inch)
- HS4.15 Lancashire Fire and Rescue HQ (6 inch)
- HS4.18 Former St Joseph's Orphanage Theatre Street (63mm)

- HS4.8 115 Church Street (63mm)
- HS4.6 Horrocks Quarter Queen Street (110mm)
- HS4.12 Cottam Hall site 1 Land at Cottam Hall (numerous small mains)
- HS4.17 Land North of Tom Benson Way (63mm)
- HS4.1 Former Whittingham Hospital remainder of the site (225mm and 160mm)

Wastewater Network Structure

- EC3.1 Alstoms Strand Road (sewer overflow)
- SS3 North West Preston PR4 0LH-PR4 0RU (numerous pumping stations and valve chambers)
- SS4 Fulwood Barracks Watling Street Road (sewer overflow)
- HS4.1 Former Whittingham Hospital remainder of the site (network storage tank)

Within 500m of a Wastewater Treatment Works

- HS4.1 Former Whittingham Hospital remainder of the site (Whittingham WwTW)

Pressurised sewer within the boundary

- SS3 North West Preston PR4 0LH-PR4 0RU (numerous foul sewers)
- SS4 Fulwood Barracks Watling Street Road (combined sewer – no diameter)
- HS4.1 Former Whittingham Hospital remainder of the site (foul rising sewer – no diameter)

Gravity Sewer within the boundary

- EC3.3 11 Roman Road Farm (combined sewer – 300mm)
- EC3.4 Riversway Phase Maritime Way (surface water – 375mm, foul sewer – 225mm)
- EC3.1 Alstoms Strand Road (combined sewer – 650mm, 3050mm, surface water sewer – 1750mm, overflow pipe – 900mm)
- SS5 Land West Cottam East Western Distributor A (foul sewer – 300mm)
- SS3 North West Preston PR4 0LH-PR4 0RU (numerous foul and surface water sewers)
- SS4 Fulwood Barracks Watling Street Road (combined sewer – 100mm, 600mm)
- HS4.19 Avenham Street Car Park (combined sewer - 150mm)
- HS4.29 Corner of Manchester Road and Church Street (Combined sewer – 150mm, 1350mm, 150mm)
- HS4.15 Lancashire Fire and Rescue HQ (Combined sewer – 100mm)
- HS4.4 Cardwell Farm Garstang Road (foul sewer – 150mm)
- HS4.24 The Sumners 195 Watling Street Road (combined sewer – 150mm, surface water - 375mm, overflow pipe – 600mm)
- HS4.7 The Larches Ashton in Ribble (combined sewer – 600mm)
- HS4.8 115 Church Street (combined sewer – 150mm)
- HS4.6 Horrocks Quarter Queen Street (combined sewer - 150mm)
- HS4.22 Mount Street/Garden Street (combined sewer – 225mm, private watercourse)
- HS4.28 10 to 12 Lancaster Road (combined sewer – 150mm)
- HS4.10 Moor Park Depot (combined sewer – 150mm)
- HS4.12 Cottam Hall site 1 Land at Cottam Hall (numerous foul and surface water sewers)
- HS4.26 Former Gasworks Ribbleton Lane (combined sewer – 150mm)
- HS4.1 Former Whittingham Hospital remainder of the site (foul sewer – 225mm, 225mm)
- HS4.25 25 and 27 Whittingham Lane (foul sewer – 300mm, 100mm)

- HS4.2 Land off Riversway west of Dodney Drive Lea (combined sewer – 1100mm, 1200mm, foul sewer – 300mm)

GPZ1

- SS3 North West Preston PR4 0LH-PR4 0RU (Broughton A-B Site)

GPZ2

- SS3 North West Preston PR4 0LH-PR4 0RU (Broughton A-B Site)

Easements

- EC3.2 Preston East Junction 31A M6 (Water main easement R361 – No L&S)
- SS5 Land West Cottam East Western Distributor A (sewer easement R553 & R307 – L&S)
- SS3 North West Preston PR4 0LH-PR4 0RU (numerous easements within the site some with no L&S)
- SS3 Land at Bartle (Aqueduct easement F544b – No L&S)
- SS4 Fulwood Barracks Watling Street Road (sewer easement Z1292 – No L&S)
- HS4.12 Cottam Hall site 1 Land at Cottam Hall (sewer easement Z5346 – No L&S)

UUW Right of Way

- SS4 Fulwood Barracks Watling Street Road (LAN141216)

UU Property

- SS3 North West Preston PR4 0LH-PR4 0RU (Lightfoot WWPS)
- SS4 Fulwood Barracks Watling Street Road (Control Kiosk Fullwood Barracks)

On Site Flooding Incident

- EC3.1 Alstoms Strand Road
- SS3 North West Preston PR4 0LH-PR4 0RU

Near to Flooding Incident

- HS4.2 Land off Riversway
- HS4.12 Cottam Hall Site 1
- HS4.16 Brethrens Meeting Room, Egerton Road
- HS4.18 Former St Joseph's Orphanage Theatre Street
- HS4.22 Mount Street/Garden Street
- HS4.30 Tulketh Crescent
- HS4.12 Cottam Hall site 1 Land at Cottam Hall
- SS3 North West Preston PR4 0LH-PR4 0RU
- SS4 Fulwood Barracks Watling Street Road
- SS5 Cottam
- HS4.24 The Sumners 195 Watling Street Road
- HS4.25 25 and 27 Whittingham Lane
- EC3.1 Alstoms Strand Road

Reservoir Flood Risk

- EC3.4 Riversway Phase Maritime Way

- EC3.1 Alstoms Strand Road
- SS5 Land West Cottam East Western Distributor A
- HS4.4 Cardwell Farm Garstang Road
- HS4.2 Land off Riversway west of Dodney Drive Lea

Chorley – Constraints

Pressurised water main within the boundary

- EC5.1 Southern Commercial (63mm)
- EC5.5 Botany Bay/Great Knowley Blackburn Road (all on the boundary of the site)
- HS2.4 Land at Carrington Road (24inch trunk main through middle of site)
- HS2.3 Land off Westthoughton Road (small main on the boundary of the site)
- HS2.32 Land at Millbrook Close Victoria Street (Thirlmere Aqueduct through the site)
- HS2.33 Land off Blackburn Road (450mm, 900mm, 350mm and 600mm trunk mains in site)
- HS2.26 Land to the east of New Street (small main at edge of site)
- HS2.1 North of Bonds Lane (24 inch trunk main at north of site)
- HS2.5 Babylon Lane (680mm trunk main at south east of site)
- HS2.18 North of Hewlett Avenue (small distribution mains within site)
- HS2.8 Charter Lane (small distribution mains within site)
- HS2.24 Land at Tincklers Lane (4 inch water main at edge of site)
- HS2.25 Pear Tree Lane (63 mm water main at edge of site)
- HS2.20 Land adjacent to Blainscough Hall (110mm water main at edge of site)
- HS2.17 Land adjoining Cuerden (63mm water main within existing housing development)
- HS2.37 Hill Top Farm (90mm water main at edge of the site)
- HS2.14 Land 120m South West of 21 Lower Burgh Way (small distribution mains within site)
- EC2.1 Land East of M61 (250mm water main at the boundary)

500m of a Wastewater Treatment Works

- EC5.6 Woodland Southport Road (Chorley WwTW)

Pressurised Sewer within the boundary

- HS2.18 North of Hewlett Avenue (UU combined rising main at boundary)

Gravity Sewer within the boundary

- EC5.4 Land adjacent to Northgate Drive (SW sewer – 225mm, foul sewer – 225mm)
- EC5.1 Southern Commercial (surface water sewer – 375mm, 450mm, 525mm)
- EC5.6 Woodlands Southport Road (Combined sewer – 900mm, overflow – 600mm)
- EC5.7 Land SW of The Green and Langton Brow (foul sewer – 100mm, SW sewer – 225mm, combined sewer – 150mm – all near the boundary)
- EC5.2 Cowling Farm (small sewer on the boundary)
- EC5.5 Botany Bay/Great Knowley Blackburn Road (surface water sewer – 300mm, 450mm, foul sewer – 225mm)
- EC5.3 Land at Bagganley Lane (combined sewer - 525mm, 225mm)
- HS2.30 Rear of New Street (foul sewer – 150mm)
- HS2.7 Land at Drinkwater Farm Windsor Drive (foul sewer – 150mm, 100mm, SW sewer – 225mm, 150mm)

- HS2.15 Brookfields Chancery Road (surface water – 300mm at boundary)
- HS2.23 East of Tincklers Lane (combined sewer – 225mm)
- HS2.29 East of New Street (foul sewer – 150mm)
- HS2.4 Land at Carrington Road (surface water sewer – 375mm)
- HS2.3 Land off Westhoughton Road (combined sewer – 300mm, 150mm)
- HS2.19 Mountain Road (combined sewer – 375mm, SW sewer – 600mm)
- HS2.21 Orchards Heys Farm (SW sewer – 225mm)
- HS2.9 Cabbage Hall Fields (foul sewer – 150mm at the boundary)
- HS2.18 North of Hewlett Avenue (combined sewer – 375mm, 150mm, overflow – 750mm, foul sewer – 100mm)
- HS2.24 Land at Tincklers Lane (combined sewer – 375mm)
- HS2.36 West of M61 Land adj to Delph Way (SW sewer – 300mm)
- HS2.17 Land adjoining Cuerden Residential Park (sewers within the residential development)
- HS2.11 Great Knowley (foul sewer – 225mm)
- HS2.16 Land to the East of Wigan Road (combined sewer – 150mm)
- EC2.2 Former Gasworks Bengal Street (Combined sewer – 300mm, 900mm)

UU Catchment Land

- HS2.3 Land off Westhoughton Road (catchment name – Arley Indirect from Eller Brook via Carrier)

Easements

- EC5.7 Land SW of The Green and Langton Brow (sewer easement – Z2633)
- HS2.19 Mountain Road (sewer easement – Z2216)
- HS2.32 Land at Millbrook Close Victoria Street (Thirlmere Aqueduct easement – T 88 c No L&S, water main easement – R 413 No L&S, water main easement – R 321 No L&S)
- HS2.33 Land off Blackburn Road (water main easement – Z 643 a No L&S)

UUW Property

- HS2.18 North of Hewlett Avenue (Hewlett Avenue Coppull Chorley – may be plotted wrong on GIS)

On Site Flooding Incident

- EC5.6 Woodlands Southport Road

Near to Flooding Incident

- HS2.22 Land to the rear of 62-66 Moor Road
- HS2.30 Rear of New Street
- HS2.3 Land off Westhoughton Road
- HS2.19 Mountain Road
- HS2.1 North of Bonds Lane
- HS2.5 Babylon Lane
- HS2.20 Land adjacent to Blainscough Hall
- EC2.2 Former Gasworks Bengal Street
- HS2.28 Crow Nest Cottage
- HS2.23 East of Tincklers Lane

- HS2.24 Land at Tincklers Lane
- HS2.6 Land South of South Road Bretherton
- HS2.26 Land to the east of New Street
- HS2.27 Land off Gorsey Lane
- HS2.25 Pear Tree Lane
- HS2.15 Brookfields, Chancery Road
- HS2.16 Land to the East of Wigan Road
- HS2.17 Land adjoining Cuerden Residential Park
- HS2.29 East of New Street
- HS2.12 Bengal Street Depot

Reservoir Flood Risk

- EC5.1 Southern Commercial
- EC5.2 Cowling Farm
- EC5.5 Botany Bay/Great Knowley Blackburn Road
- EC5.3 Land at Bagganley Lane
- HS2.9 Cabbage Hall Fields
- HS2.2 Land SE Belmont Road/Abbey Grove
- HS2.25 Pear Tree Lane
- HS2.11 Great Knowley
- HS2.35 West of M61 Town Lane
- EC2.2 Former Gasworks Bengal Street
- EC2.1 Land East of M61

Modelled Sewer Flood Risk – Chorley

Site Ref	Site Name	Modelled Sewer Flood Risk
EC5.6	Woodlands Southport Road	Yes
EC5.7	Land SW of The Green and Langton Brow	Yes
EC5.5	Botany Bay/Great Knowley Blackburn Road	Yes
EC5.3	Land at Bagganley Road	Yes

Modelled Sewer Flood Risk – Preston

Site Ref	Site Name	Modelled Sewer Flood Risk
EC3.3	11 Roman Road Farm	Yes
SS5	Land West Cottam East Western Distributor A	Yes
SS3	North West Preston PR4 0LH-PR4 0RU	Yes
HS4.21	Former Byron Hotel Grimshaw Street	Yes
HS4.2	Land off Riversway west of Dodney Drive Lea	Yes

Modelled Sewer Flood Risk – South Ribble

Site Ref	Site Name	Modelled Sewer Flood Risk
HS3.16	Windmill Hotel site Preston New Road	Yes
HS3.7	Branch Road	Yes