Stroud Local Plan Review High level Risk Review

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 common Accronyms

 Detential impact of proposed developments on sewerage infrastructure assets
 STW - Sewage Pumping Station

 Date
 15 January 2020

NOTE: The purpose of these desktop based assessments are to indicate where proposed development MAY have a detrimental impact on the performance of the existing public severage network taking into account the size of the development proposals.

For most new development provided the surface water in managed sustainably through use of a Sustainable Drainage Systems the additional foul only flows will have a negligible impact on existing sewer performance but where there are pre-existing capacity constraints additional capacity improvements may be required.

Where subsequent detailed modelling indicates capacity improvements are required such work will be phased to align with development occupancy with capacity improvement works will be funded by Severn Trent Water. However, whilst Severn Trent have a duty to provide additional capacity to accommodate planned development, we also have a requirement to manage our assets efficiently to minimise our customers' bills. Consequently to avoid potential inefficient investment we generally do not provided additional capacity until there is certainty that the development is due to commence. Where development proposals are likely to require additional capacity upgrades to accommodate new development flows it is highly recommended that potential developers contact Severn Trent as early as possible to confirm flow rates and intended connection points. This will ensure provision of additional capacity can be planned into our investment programme to ensure development is not delayed. Note: These are desktop assessments using readily available information and have not been subjected to detailed hydraulic modelling

LPA	LPA Ref	Site Name	Settlement	Emp Size (Ha)	Units	Sewage Treatment Works Catchment	Sewerage Comment		Potential impact on sewerage infrastructure	Surface water Comment		Potential impact of surface water sewerage
Stroud DC	PS01 (SA1d)	Brimscombe Mill	Brimscombe and Thrupp	(40	Stanley Downton STW	Known network constraints Development is on a brownfield site therefore opportunities for surface water betterment should be considered. There are 11 reported flooding incidences and 5 pollution incidences along the network to the treatment works, but modeling will be required to assess the scope of any capacity improvements. There is a CSO downstream which may be affected.	Assumed connectivity A sever runs through the site and is the most likely connection point. It is a 450mm pipe.	Low Risk	Outfall assumption There are no outfalls within the immediate vicinity of the site. There is a nearby watercourse (River Frome).	Surface water disposal This is a brownfield site. Surface water should be managed on site using SuDS. There are no existing surface water sewers in the vicinity of the site.	Infrastructure
Stroud DC	PS02 (SA1e)	Brimscombe Port	Brimscombe and Thrupp		150	Stanley Downton STW	Development is on a brownfield site therefore opportunities for surface water betterment ishould be considered. There are 11 reported floading incidences and 6 pollution incidences along the network to the treatment works, but modeling will be required to says site site oper of any capacity improvements. There is a CSD downstream which may be affected.	A sewer runs through the site and is the most likely connection point. It is a 450mm pipe.	Medium Risk	There are no outfalls within the immediate vicinity of the site. There is a nearby watercourse (River Frome).	This is a brownfield site. Surface water should be managed on site using SuDS. There are no existing surface water sewers in the vicinity of the site.	Low Risk
Stroud DC	PS05	East of Tobacconist Road	Minchinhampton		80	Stanley Downton STW	Development is on a greenfield site. There are 10 reported flooding incidences and y Dollution incidences along the network to the treatment works, but modelling will be required to assess the scope of any capacity improvements.	A sewer runs to the west of the site and is the most likely connection point. It is a 150mm pipe.	Medium Risk	There are no outfalls within the immediate vicinity of the site. Additionally there is no watercourse nearby.	This is a greenfield site. Surface water should be managed on site through SuDS. There are no existing surface water sewers in the vicinity in addition to there being no nearby watercourse to discharge to: Surface water flows may have to be connected into the foul sewer network if	High Risk
Stroud DC	PS06	The New Lawn, Nailsworth	Nailsworth		80	Stanley Downton STW	Development is mostly on a greenfiled site. There are 8 reported flooding incidences and 4 pollution incidences along the network to the treatment works, but modeling will be required to assess the scope for any capacity improvements.	A sever runs to the north-east of the site and is the most likely connection point. It is a 150mm pipe.	Medium Risk	There are no outfalls within the immediate vicinity of the site. Additionally there is no watercourse nearby.	This is a greenfield site. Surface water should be managed on site through SuDS. There are no existing surface water sewers in the vicinity in addition to there being no nearby watercourse to discharge to. Surface water flows may have to be connected into the foul sewer network if	High Risk
Stroud DC	PS07	North of Nympsfield Road / Nortonwood Junction	Nailsworth		25	Stanley Downton STW	Development is on a greenfield site. There are 8 reported flooding incidences and 4 pollution incidences along the network to the treatment works, but modelling will be required to assess the scope for any capacity improvements.	A sewer runs to the east of the site and is the most likely connection point. It is a 150mm pipe.	Low Risk	There are no outfalls within the immediate vicinity of the site. Additionally there is no watercourse nearby.	This is a greenfield site. Surface water should be managed on site through SuDS. There are no existing surface water severs in the vicinity in addition to there being no nearby watercourse to discharge to. Surface water flows may have to be connected into the foul sever network if	High Risk
Stroud DC	PS09	Rooksmoor Mill	North Woodchester		54	Stanley Downton STW	Development is on a brownfield site therefore opportunities for surface water betterment should be considered. There are 4 reported flooding incidences and 3 reported pollution incidences downstream, but modelling will be required to assess the scope for Duralement in car a consolidation for fourments are accessed. These area	There is a sewer located to the east of the site and is the most likely connection point. It is a 750mm pipe.	Low Risk	There are no outfalls within the immediate vicinity of the site. There is a watercourse within the vinicity of the site (Nailsworth Stream).	This is a brownfield site. Surface water should be managed on site using SuDS. There are no existing surface water sewers in the vinicity of the site.	Low Risk
Stroud DC	P511	Rainway land / car parks, cineapside Merrywalks Arches, Merrywalks	Stroud		25	Stanley Downton STW	Development is on a greenine site (currentity a car park). Intere are 15 reported flooding incidences and 10 pollution incidences along the network to the treatment works, but modelling will be required to assess the scope of any capacity improvements. Development is on a brownfield site therefore opportunities for reufram works thetement should be coordinated. Then are 15	There is a sever located to the south of the site and is the most likely connection point. It is a 450mm pipe.	Low Risk	There are no outfalls within the within y of this site. The Thames and Severn canal runs alongside the site. There are no outfalls within the immediate vicinity	This is a greenited site. Surface water should be managed on site using SUDS. There are no surface water sewers nearby. This is a brownfield Site. Surface water should be managed on the using SUDS. There are no surface	LOW Risk
Stroud DC	PS12	Police Station / Magistrates Court, Parliament Street	Stroud		45	Stanley Downton STW	panate water betterment should be considered. There are 13 reported floading incidences and 9 pollution incidences along the network to the treatment works, but modelling will be required to assess the scope of any capacity improvements. Development is on a brownfield site therefore opportunities for eurorace water betterment chould be considered. There are 14	There is a sewer located to the north of the site and is the most	Low Risk	There is a surface water pipe just to the north of	This is a brownfield site. There is a surface water several sector of the site.	Low Risk
Stroud DC	P513	Central river / canal corridor	Stroud		120	Stanley Downton STW	Joinate water betterment should be considered. There are 24 flooding incidences and 10 pollution incidences along the network to the trastment work. Development is on a brownfield site therefore opportunities for surface water betterment should be considered. There are 7 reported flooding incidences and 8 pollution incidences along the network in the trastment works. There is a large numed CS0 within the trastment specifies.	There is a 900mm sewer located at the east end of the site which would be the likely connection point for the east side of the site, and a 750mm sewer at the west end of the site which would be the likely connection noint for the west side of the mouth for the likely connection noint for the west side of the side of the site.	Medium Risk	There is a 600mm surface water sewer just to the west of the site which may be suitable for connecting the west side of the site. The drewnomment is candwiched hortween the River	This is a brownfield site. Surface water should be managed by SuDS. Discharges could be made to the surface water sewer and to the River Frome.	Low Risk
Stroud DC	PS14	Stanley Mills	Kings Stanley		146	Stanley Downton STW	the site with associated reported pollution incidents which may be adversly affected by any increase in flow. Development is on a brownfield site therefore opportunities for surface water betterment should be considered. There are no reported floading incidences and 1 pollution incidences along the	site. A 225mm sewer passes through the site and is the most likely connection point, although there is also a 750mm trunk sewer just to the north which could be used if the 225mm is not	Medium Risk	Frome and the Stoudwater Navigation. There is no outfall within the immediate vicinity of the site. There is a watercourse nearby (River Frome).	This is a brownfield site. Surface water should be managed by SuDS. There is no surface water sewer within the vicinity of the site.	Low Risk
Stroud DC	PS16 PS17	South of Leonard Stanley Primary Magpies site, Oldends Lane	Leonard Stanley Stonehouse		25 10	Stanley Downton STW Stanley Downton STW	entroot to the treatment under. The collision incidence is avoid and Development is on a greenfield site. There is a reported floading incident and no reported pollution incidences along the network to the treatment works. Due to the site of the development and providing that surface water is managed sustainably the impact of this development is likely to be	cutable. There is a sewer located to the south of the site. It is a 150mm pipe.	Low Risk Low Risk	There is a 375mm surface water sewer located to the south of the site.	This is a greenfield site. Surface water should be managed by SuDS. There is a surface water sewer within the viriality of the site Surface water should be managed on site using SuDS.	Low Risk Low Risk
Stroud DC	PS19a	North/northwest of Stonehouse	Stonehouse	5	500	Stanley Downton STW	There are no nearby severs to connect to. The nearest sever drains to a pumping station which may require capacity increase to accommodate these flows. There are no reported flooding incidences and 4 reported pollution incidences along the network to the treatment works, but modelling will be required to assess the scope of any capacity improvements.	There are no sewers in the vicinity of this site. The site will most likely connect to a 225mm sewer in Oldends Lane industrial Estate (Stroudwater Business Park). This drains to Stroudwater SPS.	High Risk	There are no surface water outfalls near the site. There is a watercourse to the south of the site.	This is a greenfield site. Surface water should be managed on site through SuDS. There are no existing surface water severes in the vicinity but there is a nearby watercourse.	Low Risk
Stroud DC	PS19b	North/northwest of Stonehouse	Stonehouse		150	Stanley Downton STW	Development is on a greenfield site. There are no reported flooding or pollution incidences along the network to the treatment works, but modeling will be required to assess the scope of any capacity improvements.	There is a pumping station located to the south of the site and this is the most likely connection point. This development will nearly double the population served by that pumping station and so will likely impact its performance.	Medium Risk	There are no outfalls within the immediate vicinity of the site. There is is a watercourse 100m south of the site.	This is a greenfield site. Surface water should be managed on site using SuDS. There are no existing surface water sewers in the vicinity of the site.	Low Risk
Stroud DC	PS20a	M5 Junction 13	Stonehouse	10		Stanley Downton STW	There are no nearby sewers to connect to. The nearest sewer drains to a pumping station which may require capacity increase to accommodate these flows. There are no reported flooding incidences and 4 reported pollution incidences along the network to the treatment works, but modelling will be required to assess the scope of any capacity improvements.	There are no sewers in the vicinity of this site. The site will most likely connect to a 300mm sewer in Oldends Lane Industrial Estate (Stroudwater Business Park). This drains to Stroudwater SPS.	High Risk	There are no surface water outfalls near the site. There are no nearby watercourses.	This is a greenfield site. Surface water should be managed on site through SuDS. There are no existing surface water severs in the vicinity in addition to there being no nearby watercourse to discharge to. Surface water flows may have to be connected into the foul sever network if the surface of the several sev	High Risk
Stroud DC	PS20b	M5 Junction 14	Stonehouse	18		Stanley Downton STW	There are no nearby sewers to connect to. The nearest sewer drains to a pumping station which may require capacity increase to accommodate these flows. There are no reported flooding incidences and 4 reported pollution incidences along the network to the treatment works, but modelling will be required to assess the scope of any capacity improvements.	There are no sewers in the vicinity of this site. The site will most likely connect to a 300mm sewer in Oldends Lane Industrial Estate (Stroudwater Business Park). This drains to Stroudwater SPS.	High Risk	There are no surface water outfalls near the site. The River Frome runs along the south-west border of the site.	This is a greenfield site. Surface water should be managed on site using SUDS. There are no existing surface water sewers in the vicinity of the site.	Low Risk
Stroud DC	PS21	Land adjacent to Tilsdown House	Cam		15	Coaley STW	Due to the size of the development and providing that surface water is managed sustainably the impact of this development is likely to be		Low Risk		Surface water should be managed on site using SuDS.	Low Risk
Stroud DC	PS24	West of Draycott	Cam		700	Coaley STW	Development is on a greenfield site. There are 2 reported flooding Incidences and 2 reported pollution incidences along the network to the treatment works, but modelling will be required to assess the scope of any capacity improvements. There is a GO where the trunk sewers cross the River Cam which may experience increased spill frequency as a result of this development.	Site is located in central Coaley. A sewer runs along the east of the site and is the most likely connection point. This is a 375mm pipe. Some parts of the site are closer to 150mm sewers but these would probably not be suitable for such a large development.	High Risk	There are no outfalls within the immediate vicinty of the site. There is no nearby watercourse.	This is a greenfield site. Surface water should be managed on site through SuDS. There are no existing surface water sewers in the vicinity in addition to there being no nearby watercourse to discharge to. Surface water flows may have to be connected into the foul sewer network if	High Risk
Stroud DC	PS25	East of River Cam	Cam		180	Coaley STW	Development is on a greenfield site. There are 3 reported flooding incidences and 2 reported pollution incidences along the network to the treatment works, but modelling will be required to assess the scope of any capacity improvements. There is a CS0 where the trunk sewers cross the River Cam which may experience increased spill framuency as a scaling this chaptedonement.	Site is located in Cam. A sewer runs along the west of the site and is the most likely connection point. This is a 525mm pipe.	Medium Risk	There are no outfalls within the immediate vicinty of the site. There is a watercourse to the west of the site (River Cam).	This is a greenfield site. Surface water should be managed on site through SuDS. There is expected to be no impact on existing infrastructure.	Low Risk
Stroud DC	PS27	1-25 Long Street	Dursley	1		Coaley STW	Development is on a greenfield site. There are no reported flooding or polution incidences in the surrounding but modelling will be required to assess the scope of any capacity improvements.	Site is in the centre of Dursley. A sewer to the north of the site is the most likely connection point. This connection will be into a 300mm diameter pipe.	Low Risk	There is a 225mm surface water sewer to the north of the site which outfalls to the river Cam.	This is a greenfield site. Surface water should be managed by SuDS. There is a surface water sewer in the vicinity of the site.	Low Risk
Stroud DC	PS28	The Old Dairy / Land off Prospect Place	Dursley			Coaley STW	Due to the size of the development and providing that surface water is managed sustainably the impact of this development is likely to be low risk		Low Risk		Surface water should be managed on site using SuDS.	Low Risk
Stroud DC	PS30 (SA4)	Hunts Grove extension	Hardwicke		750	Netheridge STW	Development is on a greenfield site. There are no reported flooding indicances and 2 reported pollution indicances along the network to the treatment works, but modelling will be required to assess the scope of any capacity improvements. The flows may affect a growth scheme currently being promoted in the Hardwicke area.	Site is to the south of Gloucester. A sewer to the vest of the site is the most likely connection point. This connection will be into a 225mm diameter pipe.	Medium Risk	There are no surface water outfalls within the vicinity of the site. There is a watercourse to the south of the site but it may be too remote for most parts of the site.	This is a greenfield site. Surface water should be nanaged on site through Sub25. There are no existing surface water sewers in the vicinity and the nearby watercourse may not be accessible for most of the site so some surface water flows may have to be connected into the foul sewer network if infiltration is not feasible.	High Risk
Stroud DC	PS31 (SA4a)	Quedgeley East	Hardwicke	13		Netheridge STW	Development is on a greenfield site. There are no reported flooding indexees and 3 reported pollution incidences along the network to the treatment works, but modeling will be required to assess the scope of any capacity improvements. The small existing pumping tations serving this area may need to be ugraded and the flows may affect a growth scheme currently being promoted in the Hardwicke in the service of the serv	Site is to the south of Gloucester. A sewer runs through the site and is the most likely connection point will be into a 150mm pipe.	High Risk	There are no surface water outfalls within the wichity of the site. There is a watercourse to the north of the site but it may be too remote for some parts of the site.	This is a greenfield site. Surface water should be managed on site through SuDS. There are no existing surface water severs in the vicinity and the nearby watercourse may not be accessible for most of the site so some surface water flows may have to be connected into the foul sever network where the several sectors are several several sectors the several sectors are several several sectors the several sectors are several sever	High Risk
Stroud DC	PS32	South of M5 / J12	Hardwicke	5		Netheridge STW	area. Development is on a greenfield site. There are no reported flooding incidences and 3 reported pollution incidences along the network to the treatment works, but modeling will be required to assess the scope of any capacity improvements. The small existing pumping tations serving this area may need to be upgraded and the flows may affect a growth scheme currently being promoted in the Hardwicke area.	Site is to the south of Gloucester. A sewer runs through the site and is the most likely connection point will be into a 150mm pipe.	High Risk	There are no surface water outfalls within the vicinity of the site. There are also no watercourses within the vicinity of the site.	In imitation is not reached. This is a greenfield site. Surface water should be managed on site through SUDS. There are no existing surface water severs in the vicinity in addition to three being no nearby watercourse to discharge to. Surface water flows may have to be connected into the foul sever network if infiltration is not feasible	High Risk
Stroud DC	G1	South of Hardwicke	Hardwicke		1200	Netheridge STW	Development is on a greenfield site. There are no reported flooding incidences and 1 reported pollution incident along the network to the treatment works, but modeling will be required to assess the scope of any capacity requirements. There is currently a growth scheme being promoted in the area to accomodate the large amount of development. In the area that is already planned and being built.	Site is to the south of Gloucester. A 300mm sewer to the north of the site is the most likely connection point, although due to the size of the site some of flow may need to be connected in upstream of Pound Lane SPS to the south. Due to the large number of units being built, there may be inadequate capacity within the sever system for the additional flows and capacity	High Risk	The site is likely to be connected to an existing surface water outfail to the north of the site. However, there is also a small watercourse through the site, and the Gloucester & Sharpness Canal runs to the north-west of the site.	This is a greenfield site. Surface water should be managed on site through SuDS. There are existing surface water sewers and watercourses in the vicinity.	Low Risk
Stroud DC	62	Land at Whaddon	Whaddon		2500	Netheridge STW	I manew potential size would affect that scheme. Development is an agreenfield size. There are 4 flooting incidences and 4 pollution incidences along the network to the treament works, but modeling will be required to assess the scope of the any capacity requirements.	improvements may be needed. Site is to the west of Whaddon. A sever runs to the north of the development and is the most likey connection point, this will be into a 150m tipe. Due to the large number of units being built, there may be inadequate capacity within the sever system for the additional flows and capacity improvements may be needed. This is not currently included within scope of the existing growth scheme for the south of Gloucester.	High Risk	The site is likely to be connected to a water course that goes through the site and to a surface water outfall to the north of the site. which drains to another nearby trocke. Both brockes drain subsequently to the Gloucester & Sharpness canal.	This is a greenfield site. Surface water should be managed on site through SUDS. There are existing surface water sewers and watercourses in the vicinity.	Low Risk
Stroud DC Stroud DC	PS33 PS34 (SA5)	Northwest of Berkeley Sharpness Docks	Berkeley Newton & Sharpness	7	120			Not in Severn Not in Severn	Trent Region Trent Region		I	
Stroud DC Stroud DC	PS35 PS36	Land at Focus School, Wanswell South and east of Newtown and Sharpness	Newton & Sharpness Newton & Sharpness	10	70 2400		The state of the s	Not in Seven Not in Seven	Trent Region Trent Region	la za		
stroud DC	PS37	Lano at Wisloe	vvisioe	5	1500	coaley STW	I his development stretches over a length of 2km and there are	I nere are no sewers in the vicinity of this site. The 'Low	Low Risk	nere are no outfalls within the vicinity of the site.	I his is a greenfield site. Surface water should	High Risk

					sewage treatment works. It will require a new pumping station to pump the flows directly to the sewage treatment works. Site is considered low risk if a connects directly to the Sewage Treatment Works. The site would be high risk if it were to connect to the Cambridge earthment to the North this should	pumping station which will pump the flows directly to the sewage treatment works and therefore there will be no impact on the existing network.			no existing surface water sewers in the vicinity, part of the site will be able to drain to the river Carn, other parts will not. Some surface flows may have to be connected into the foul sewer system if infiltration is not feasible	
Stroud DC	PS38	South of Wickwar Road	Kingswood	50		Not in Severr	Trent Region			
Stroud DC	PS41	Washwell Fields	Painswick	20 Stanley Downton STW	Due to the size of the development and providing that surface water is managed sustainably the impact of this development is likely to be inw risk		Low	There are no existing surface water sewers in the viscinity, local ditch course may be available.	Surface water should be managed on site using SuDS. Site classed as medium risk if infiltration SuDS not feasible	Medium