East Hampshire Catchment Partnership
Catchment Plan

Action Tables

Introduction

The Catchment Plan is a set of actions detailing past, current and planned activity across the catchment, which will be delivered by East Hampshire Catchment Partnership partners and others, together with details of lead and supporting partners and timescales. The Catchment Plan is a 'live' document that will be updated as actions are delivered and where new opportunities and resources become available.

Partner acronyms

ARRT	Arun & Rother Rivers Trust
BWPFC	Bishops Waltham Parish Fishing Club
DHCWP	Downs and Harbours Clean Water Partnership
EA	Environment Agency
EBC	Eastleigh Borough Council
EHCP	East Hampshire Catchment Partnership
ESCP	East Solent Coastal Partnership
FBC	Fareham Borough Council
GBC	Gosport Borough Council
GWK	Groundwork South
GWCT	Game and Wildlife Conservation Trust
HBC	Havant Borough Council
HBIC	Hampshire Biodiversity Information Centre
HCC	Hampshire County Council
HIWWT	Hampshire & Isle of Wight Wildlife Trust
MVP	Meon Valley Partnership
NE	Natural England
NFNPA	New Forest National Park Authority
NPCG	North Pond Conservation Group
PDAS	Portsmouth and District Angling Society
PW	Portsmouth Water
RHHA	River Hamble Harbour Authority
SDNPA	South Downs National Park Authority
SW	Southern Water
WCC	Winchester City Council
WTT	Wild Trout Trust
WVCA	Wallington Village Community Association

Issues to be tackled

Water quality
Water quantity
Channel modification
Flood risk
Fish and eel passage
Biodiversity / green infrastructure
Non-native invasive species
Recreation and access
Rubbish and litter
Awareness and engagement

Action Tables

Sub-catchment / waterbody *Page*

Completed projects in red.

Cross Catchment

Ref	Action	Detail	Lead / Support	Timescale	Issues Tackled
	Provision of catchment sensitive farming advice to farmers and grants.	Support farmers / landowners across the East Hampshire Catchment by delivering practical solutions and targeted support for voluntary action on farms to prevent diffuse water pollution entering groundwater, rivers and estuaries.	**DHCWP**, EHCP	Ongoing into 18/19	**Water quality**
	Environmental enhancement on farmland through Environmental / Countryside Stewardship schemes.	Deliver targeted environmental improvements on farmland through existing HLS and ELS Environmental Stewardship schemes, and new Countryside Stewardship schemes (from 2016)	**NE**, **FC**, DHCWP	Ongoing into 18/19	**All issues**
	Highways drainage structures maintenance.	Maintain the integrity and performance of highways drainage structures across the catchment through highways maintenance programmes and the HCC Parish Lengthsman scheme.	**HCC, HA**	On-going in 18/19	**Water quality** **Flood risk**
	Maintenance of Ordinary Watercourses.	Work with riparian owners and local communities to maintain ordinary watercourses.	**HCC**, EA	On-going in 18/19	**Flood risk** **Rubbish and litter**
	Securing improvements to the water environment from new development.	Where new major and significant development is to be implemented within and adjacent to the catchment, seek to provide multiple benefits to the water environment, secured through appropriate mitigation/compensation and planning gain (S106 and CIL). Main development is 6,000 homes at Welborne, Fareham, between the Rivers Meon and Wallington.	EHCP partners appropriate to each development (LAs, EA, NE, HIWWT)	Ongoing 18/19	**All issues**
	Maintain non-mains sewer facilities, check septic tanks condition	Raise awareness with users of non-mains sewer facilities within the catchment on the correct maintenance of septic tanks and similar facilities.	**EHCP**	Ongoing 18/19	**Water quality**
	Ecosystem Services mapping of the catchment.	Provide Ecosystem Services mapping for the catchment utilising existing work being progressed by Winchester City Council, New Forest National Park Authority and South Downs National Park Authority, together with other available datasets and develop this as a land management tool.	**HCC**, WCC, NFNPA	Ongoing, completion not confirmed	**All issues**
	Community Water Quality Monitoring.	Develop community water quality testing methods applicable to the catchment and its communities and roll out through local community projects. Trial water testing on Hermitage and Hamble. Results from Pond Conservation to come (May 18).	**GWK,** SWS, EHCP	18/19	**Water quality** **Awareness and engagement**

	Maintain the Catchment Partnership.	Maintain an active East Hampshire Catchment Partnership comprising all relevant stakeholders by securing annual funding to maintain hosting function.	Partnership host and all EHCP Partners	On-going	**All issues**
	Source External Funding	Identify and draw down external funding to deliver the East Hampshire Catchment Plan.	Partnership host and all EHCP Partners	On-going	**All issues**
	Maximise public and stakeholder awareness and engagement in EHCP works	Create and maintain an East Hampshire Catchment **website** as a platform to disseminate the East Hampshire Catchment Plan, integrating this with the use of social media such as Twitter and Facebook and produce a periodic catchment newsletter - to promote the Catchment Plan to a wide audience, engender involvement and influence decision makers.	**EHCP**	Up and running by end of 2017 and then on-going	**Awareness and engagement**
	Input to South East River Basin Management Plan (RBMP) 2015, 2018	Ensure that the East Hampshire Catchment is properly represented in the South East RMBP and that this also reflects the catchment's issues and needs.	**EHCP**	Ongoing	**Water quality** **Water quantity** **Channel modification** **Fish and eel passage** **Biodiversity / green infrastructure**
	South Downs National Park Green Infrastructure Framework	Deliver improved green infrastructure through planning and community infrastructure levy.	**SDNPA** and GI Partners	Ongoing	**Biodiversity / green infrastructure** **Recreational pressures** **Awareness and engagement**

The Hamble (including Southampton Water) *priority sub-catchment*

Number of heavily modified waterbodies. Mainly rural, secluded upper reaches, lower tidal reaches have a high density of boating activity; Some waterbodies have 'poor' and 'moderate' ecological status; large housing development planned in this area; Number of historic landfill sites; Waterbodies with 'poor' phosphate status, meaning phosphates are lowering water quality; CSO spills; Waterbodies with 'poor' invert status; Waterbodies with 'not high' hydrology status.

Ref	Action	Detail	Lead / Support	Timescale	Issues Tackled
	Upper Hamble River Restoration and water quality project (above Bishops Waltham sewage treatment works)	River habitat work to mitigate for low flows caused by abstraction. £30k available from Portsmouth Water. Also intend to address agricultural diffuse pollution as part of the work. 2015-2015 - Measures to reduce field and track run-off and make channel more resilient to low flows. By PW and ARRT Done 2018-2020 – Measures to reduce field run-off and reduce impact of phosphate and nitrogen on the Hamble. To be done by EA, ARRT	PW, EA, GWK, WTT, ARRT	2020	Water Quality Channel modification Flood risk Fish and eel passage Biodiversity / green infrastructure Non-native invasive species
	Wangfield Lane Meadows fish habitat and refuge creation project	Creation of habitat and off-channel refuge for fish at Wangfield Lane Meadows (upstream of Botley Mill) to provide shade and prevent juvenile fish being washed downstream when Botley sluice is opened. Funding being sought.	**PDAS**, WTT, Groundwork	Completed 2016	Fish and eel passage Biodiversity / green infrastructure
	Botley Mill fish passage	By pass channel built	**EA**	Completed 2012	Fish and eel passage Biodiversity / green infrastructure
	Durley Mill fish passage	Installation of a fish pass at Durley Mill	**WTT**, EA, Groundwork	Completed 2016	Fish and eel passage
	Durley Mill and Curdridge/ Wangfield Lane Himalayan Balsam removal (upper Hamble).	Working with community groups to remove invasive non-native species from the riparian areas of the upper Hamble around Durley Mill and Curdridge (multiple visits).	**GWK**, Durley Mill owner, PDAS	2014 and on-going	Biodiversity / green infrastructure Non-native invasive species
	Improvements to operation of Botley Mill fish pass	Manually operated fish pass completed, but flows and passage is still limited. Replacement with automatic sluice operation is the best solution requiring significant investment, which is unlikely in short term. Manual operation has improved in 2014. An overflow pipe has been fitted allowing more consistent upstream water levels, but river life and aquatic habitat still constrained by the impoundment. An alternative solution is to provide a Portsmouth and District Angling Society volunteer keeper access to operate the fish pass and formalise (and enforce) a HOPS with the Mill owner to address flow issues.	**EA**, PDAS	To be agreed	Fish and eel passage

	Improved sluice operation on Calcot marshes to allow fish passage	Agreement with Natural England and landowner to inundate water meadows in winter without impeding fish passage. Difficult to complement both migrating birds and fish. Sluice closure to be delayed as long as possible to allow trout to migrate. Sluice operation protocol to be agreed.	Landowner, EA, Natural England	2018	Fish and eel passage
	North Pond Enhancement project and visitor facilities improvements	Partial dredging of North Pond to create a deeper lagoon, allow fish rescue and retain aquatic biodiversity; tree stump removal; culvert repair; creation of viewing areas; tree thinning and installation of interpretation panels. Funding being sought.	**NPCG**, PW, GWK	Completed 2018	Water quantity Flood risk Fish and eel passage Biodiversity / green infrastructure Awareness and engagement
	South Pond Enhancement	Maintain the South Pond through regular environmental and water quality maintenance works.	BWPFC	On-going	Water quantity Biodiversity / green infrastructure
	Increase awareness of lower Hamble	Continue to provide up to date information about the River Hamble environment on the River Hamble Harbour Authority website (including a 'Learning Zone') and at events.	**RHHA**	On-going	Awareness and engagement
	'Greening the grey' project to add small scale ecology-encouraging features to sea wall.	Create a demonstration site for replication at other points in the Hamble estuary. Will include 'vertipools' and mats with aquatic plants.	**EA, RHHA**	2017 - 19	Awareness and engagement Fish and eel passage Channel modification
	Winchester District Area Ecosystem Services Assessment	Undertake Ecosystem Services Assessment of Winchester District Area and produce detailed mapping to provide evidence base for policy formulation and land use planning decisions.	**WCC** and E/S partners	On hold 2018	**All issues**
	Winchester District Green Infrastructure Strategy	Prepare a Green Infrastructure strategy of the Winchester District area to plan improvements in the areas green infrastructure network and to form part of the areas Development Plan, using the Ecosystem Services Assessment as evidence base.	**WCC** and GI partners	tbc	Biodiversity / green infrastructure Recreational pressures Awareness and engagement
		Deliver the Winchester District Green Infrastructure Strategy.	**WCC**, EHCP, HCC	tbc	Biodiversity / green infrastructure Recreational pressures Awareness and engagement

Hermitage and Lavant *priority sub-catchment*

Some waterbodies heavily modified, running into heavily designated 'Harbours' sub-catchment; Waterbodies with 'moderate' ecological status; Historic landfill sites; CSO spill 'moderate' invertebrate status on some waterbodies; Waterbodies with 'not high' hydrology status.

Ref	Action	Detail	Lead / Support	Timescale	Issues Tackled
	Hermitage Stream River Restoration project	Re-naturalise the channelised upper urban reaches of the waterbody (Reach B – Bushy Lease, and Reach C – Park Community School). Proposal Landscape Plans completed, detailed design work being undertaken. Funding and partners being sought to implement the project. Groundwork South Project Manager in post. Bid to HLS in 2015 was unsuccessful. Bid to Havant BC CIL in 2016/7. Partnership created but bid inadequate for works.	**EA**, GWK, HBC	Design work by April 2015, implementation to be confirmed	Water quality Channel modification Flood risk Fish and eel passage Biodiversity / green infrastructure Non-native invasive species
	Hermitage misconnections pilot project	Identify foul sewer misconnections impacting on the Hermitage stream. Opportunity to involve the community through Groundwork.	**EA**, GWK, SW	2014/2015	Water quality Biodiversity / green infrastructure
	Hermitage Eel Pass installation	Installation of Eel Passes where the Hermitage joins Langstone Harbour.	PW, EA, GWK	To be developed	Fish and eel passage
	Assess significance of fish passage issues in transitional H**ermitage**	Undertake an assessment of the downstream end of the Hermitage to understand the impacts of tidal structures on fish communities and review options to resolve these.	**EA** (Fisheries and Biodiversity team)	2014	Fish and eel passage
	River **Lavant** Flood Alleviation Scheme (Finchdean and Rowlands Castle)	Undertake flood risk mitigation measures on the (Hampshire) Lavant to increase capacity of the existing surface water network at particular 'hotspots', where localised flooding has occurred. This will mainly comprise the widening of ditches and watercourses (£30k Local Levy funding already in place - bid for Flood Defence Grant in Aid (FDGiA) submitted).	**HCC**	2015 - 2021	Flood risk
	Langstone/ West Mill fish passage on **Lavant**	Work with Langstone Mill owners and other stakeholders to assess and install/improve fish passage at the mill. WEG bid prepared by ARRT.	**EA**,	WEG bid 18/19	Fish and eel passage
	Lavant-in-Havant feasibility project	Explore feasibility of 'whole of Lavant' approach including cycle/walkways, to understand what sections could be uncovered and naturalised, a Yellowfish campagin. To develop with Havant BC and other EHCP partners.	ARRT, EA, HBC	To be developed 2018	Awareness and engagement Biodiversity / green infrastructure Fish and eel passage Recreation and access

	Riparian landowner engagement on lower **River Lavant**	Consult with landowners on lower section of Lavant to agree favourable management of the river.	EA, EHCP, Langstone Residents Assoc	To be agreed	**Fish and eel passage**
	Understand nitrogen/ nutrient input to **River Lavant**	To help identify nutrient/ nitrogen pollution on Lavant – which represents 27% of N pollution to Langstone Harbour.	EA, EHCP, D&HCWP	To be confirmed	**Water quality**
	Havant Thicket winter storage reservoir creation	Create a winter storage reservoir at Havant's Thicket to enhance public water supply, that also provides biodiversity, green infrastructure, educational and community engagement benefits.	**PW**	On hold, not approved	**Water quantity** **Flood risk** **Biodiversity / green infrastructure** **Awareness and engagement**

The Wallington and Potwell Tributary *reserve priority sub-catchment*

Waterbodies with 'poor' and 'moderate' ecological status; Large housing developments planned/being built in this area; Some waterbodies with 'moderate' phosphate status; CSO spills; Waterbodies with 'moderate' invertebrate status; Waterbodies with 'not high' hydrology status.

Ref	Action	Detail	Lead / Support	Timescale	Issues Tackled
	Himalayan Balsam removal	Removal of Himalayan Balsam at Hook Heath and upstream on Potwell Tributary. More outbreaks have been seen upstream of Southwick Lake.	**HIWWT**, NE	2017+	Non-native invasive species
	Wallington River Flood Alleviation project	Improve existing flood defences in Wallington Village.	**EA**, HCC	September 2018	Water quality Water quantity Channel modification Flood risk Fish and eel passage Biodiversity / green infrastructure
		Natural Flood Management approach to reduce flooding in Wallington Village and upstream agricultural land. NFM Community Fund money awarded for project to trial methods u/s of Southwick Lake. Delivery by 2021. These methods could be replicated at other points along the river.	**EA**, WVCA, landowner	2014 onwards	Water quality Water quantity Channel modification Flood risk Fish and eel passage Biodiversity / green infrastructure
	Wallington whole-of-river plan includes: Waterlooville-Southwick Lake plan, and Upstream flood storage (W10)	Approach to combine all Wallington issues in one plan (sediment, development, structures, flood risk etc). Initially the plan will address sediment, rural and urban diffuse pollution with landowners and urban sources. Meeting with landowner and tenants took place in October 15.	**EA**, D&HCWP, landowners	tbc	Water quality Water quantity Channel modification Flood risk Fish and eel passage Biodiversity / green infrastructure
	Hambledon Groundwater Flood Alleviation Scheme	Reduce risk of groundwater flooding to properties, local highway and foul water flooding through ditch improvements and new culvert/pipe work. Phase 1 work to improve the outfalls and network south of the village has commenced. Phase 2 will include construction of new culvert/pipe (utilities searches have commenced). Cost of scheme £3.9m (£400k in place).	**HCC**, EA	Done	Water quality Flood risk
	Identify and prevent sewage and other urban pollution in urban headwaters of **Potwell Tributary** in Purbrook and West Waterlooville	Remove rubbish blocking culverts, especially in the West Waterlooville area, identify misconnections and sewage discharge from housing and industrial sources.	**HBC**, EA	2014 ongoing	Flood risk Rubbish and litter Water quality Water quality

	Site visits to identify and prevent pollution of groundwater	Potential sources of pollution are leaking sewers (Southern Water), agricultural discharges, local authority and sports ground facilities, road drainage and pesticides on verges, solvents and chemicals. These actions are in the Safeguard Zone Action Plans for Maindell, and Havant & Bedhampton Springs (including Lovedean).	**EA**, SW, WCC	2014 ongoing	**Water quality**
	Site visits to identify and prevent pollution and siltation of the river	Undertake visits to farms and other sites to advise on improvements to land use practices.	**EA**	2014 ongoing	**Water quality**
	Create and develop a Waterlooville to Southwick Lake plan	This involves: addressing water quality issues at Brambles industrial estate; tackling misconnections in Waterlooville with residents; river channel/ bank improvements d/s of Sheepwash Farm, Himalayan Balsam and Jap Knotweed removal.	EA, SWS, EHCP, GW, WTT	From 2016	**Fish and eel passage** **Biodiversity / green infrastructure** **Non-native invasive species** **Rubbish and litter** **Awareness and engagement** **Water quality**
	Create fish passage around impoundment on Dryad/Southwick Lake.	Impoundment on Dryad/Southwick Lake is causing a WFD fish failure. Wild Trout Trust report 2013 suggests improving upstream habitat towards Purbrook and explore restoring block-lined channel	EA	To be developed	**Fish and eel passage**
	Winchester District Area Ecosystem Services Assessment **(see Hamble entry).**	Undertake Ecosystem Services Assessment of Winchester District Area and produce detailed mapping to provide evidence base for policy formulation and land use planning decisions.	**WCC** and GI partners	2014-2015	**All issues**

Meon *sub-catchment*

Some waterbodies only have 'moderate' ecological status; Number of historic landfill sites; CSO spill recorded. Meon was 'good' status, but it has deteriorated in the new interim classification with low flows and water quality.

Ref	Action	Detail	Lead / Support	Timescale	Issues Tackled
	Continue the Meon water vole recovery project through on-going re-introductions.	Following the release of significant numbers of Water Voles into the Titchfield Haven area of the River Meon, release additional water voles along the rest of the river valley over the coming years, following habitat suitability surveys, to enhance the current population.	**SDNPA**, EA, GWCT, NE, HIWWT	On-going	**Biodiversity / green infrastructure**
	Maintain the Meon Riverfly monitoring initiative.	Continue to support the Riverfly monitoring programme through the provision of training and support for new and existing volunteers and through active recruitment.	**SDNPA**, MVP	On-going	**Water quality** **Awareness and engagement**
	River Meon Habitat Restoration	Following habitat restoration work at East Meon, continue restoration of river habitat on further reaches of the Meon. Done?	**SDNPA**, MVP	To be confirmed	**Water quality** **Biodiversity / green infrastructure**
	Continue the Meon Mink trapping project	To improve the success of Water Vole release in the river valley, the mink control programme set up with local landowners using Game and Wildlife Conservation Trust mink rafts to trap these voracious non-native predators, will be continued and success monitored.	**SDNPA**, MVP, GWCT	On-going	**Biodiversity / green infrastructure**
	Remove Himalayan Balsam	Continue to remove Himalayan Balsam along the course of the River Meon, concentrating on priority stretches	**MVP**, volunteers	On-going	**Non-native invasive species**
	Winchester District Area Ecosystem Services Assessment	Undertake Ecosystem Services Assessment of Winchester District Area and produce detailed mapping to provide evidence base for policy formulation and land use planning decisions.	**WCC** and E/S partners	2014-2015	**All Issues**

Coastal *sub-catchment*

Areas of concentrated population; Number of heavily modified waterbodies; Number of waterbodies have 'bad' or 'moderate' ecological status; Large section of the coastline is SSSI; Historic landfills – possible cause of pollution (leachate); CSO spills; Some waterbodies have 'bad' and 'moderate' invertebrate status, meaning they are not good habitats for invertebrates; Waterbodies with 'not high' hydrology status, meaning poor flow of water.

Ref	Action	Detail	Lead / Support	Timescale	Issues Tackled
	Develop and implement the Warsash and Locks Heath Streams project on **Hook Lake** as a pilot for delivery of local enhancements to the water environment within the catchment. In Shoreline Management Plan, coastal frontage for 'managed realignment', ie increase tidal area for wildlife, feeding and roosting space.	Undertake an asset inspection of all waterbodies within the Warsash and Locks Heath Streams project area and submit a report of its findings to the EHCP, including maintenance recommendations.Done Identified reach on which to carry out initial environmental improvement work, as C9.	**HCC**, EA, FBC, Groundwork	2014-2015, now on hold	Water quality Water quantity Channel modification Flood risk Fish and eel passage Biodiversity / green infrastructure Recreational pressures Rubbish and litter
		Map the Warsash and Locks Heath Streams project area for Invasive non-native plant species and provide mapping to the project Steering Group.	**EA**, HBIC	2015, done	Non-native invasive species
		Establish a constituted 'Friends of' based community group for the Warsash and Locks Heath Streams project area.	**GWK**	2015, on hold	Awareness and engagement
	Reed planting and habitat creation to intercept surface water leachate from Sandhills landfill and prevent it reaching the River **Alver**.	First phase of reed planting was undertaken in 2014, second phase is planned for 2015.	**EA**, GBC, volunteers	2014-2015 done	Water quality
	Rectify blocked beach outfall and eroding sea wall at mouth of the River **Alver**	Relocate shingle from the blocked beach outfall to nearby eroding sea wall at the mouth of the River Alver (relocation planned by Autumn 2014). *However impact was only temporary, longer term beach management strategy to be considered.*	**EA**, GBC	By autumn 2014 - Done	Channel modification Flood risk Fish and eel passage
	Beach management plan from Hillhead to Stokes Bay. Reduce shingle build-up especially around the **Alver** outfall. Maintain water levels for the reeds in upstream Alver Country Park and SSSI	All these Actions to be addressed by Beach Management Plan report from ESCP by June 18. Actions to be agreed.	**ESCP**, GBC, EA	tba	

Harbours *sub-catchment*

Concentrated (and some deprived) populations. Heavily modified waterbodies, landfill pressure, large part of the area is an SSSI, high number of CSOs and spills regularly recorded. Prone to surface water flooding.

Ref	Action	Detail	Lead / Support	Timescale	Issues Tackled
	Coastal defences around Portsea Island.	£44m project over 10 years covering mainly west and south sides of the island. ESCP exploring opportunities to 'soften' sea wall by installing features like vertipools.	**ESCP**	2015-2025	**Flood risk**
	Publicise environmental benefits of Portsea Island works	This includes removal of defences at Saltern's Quay.	ESCP, EA	2016+	

Ends