## Annex 4: Work Plans

No.	Work Plan Title		Start Date	End date	Estimated % of total project budget allocated.
1	Project Management/Mobilisation		July 2016	December 2022	10%
Partners'	Involvement				
Responsible partner		NIW			
Involved partners			IW,AFB	,LA, EBR	

Describe how the project will be managed. Include information on:

- Structure, responsibilities, and procedures for the day-to-day management and co- ordination;
- Communication within the partnership;
- Detail on the appropriate phases for preparation, implementation, reporting monitoring, evaluation, follow-up and dissemination of the project;
- Risk and quality management (what are the key risks which could impact on the delivery of this element/activity and how will the risk be managed/mitigated)

The project will be managed centrally through the Programme Management Office (PMO). This office, resourced by staff from all Partners and headed up by NIW as Lead Partner will be set up to ensure that the projects outputs and results are delivered on time and on budget and that it fulfils the obligations of the lead partner as outlined in the programme rules. The PMO will provide the essential overall direction, coordination, governance and clear leadership to ensure that the shared resources and expertise are utilised effectively. The PMO will be headed by a Programme Leader with added multi-disciplinary staff support from representatives of all partners to cover project management, finance, communications and other technical duties using skillsets, technical knowledge and expertise within the PMO team to successfully manage the project and ensure eligibility of costs.

The Programme Leader will have overall responsibility for communications and the day-to-day management and co-ordination of the activities in each work package. The project organogram (detailed in the business case) shows the how each of the partner organisations are delegated a subprogramme manager who will relay information on progress of delegated work packages to the programme leader. There will be a constant flow of information to and from the PMO to facilitate accurate and detailed reporting to the Steering Committee, SEUPB and with partners and stakeholders. This effective communication stream will assist the programme leader to efficiently and effectively manage and mitigate all financial and non-financial aspects of the project implementation, monitoring and evaluation and ascertain whether the project is on schedule in both cost and time profiling, forecasting and in the delivery of outputs.

The programme leader will also be responsible for ensuring the quality of each individual work package in terms of preparation and implementation of each individual activity. There will be regular reporting of activity before, during and after each activity is undertaken. All risks associated with each activity will be logged on the project risk register (attached with business case) as and when risks are identified and they will be mitigated and risk assessed according to the scoring matrix.

The Programme Lead role will be the Senior Responsible officer for the project and this role will require extensive project life cycle experience in the delivery of complex multi-disciplinary projects and has expertise in risk management and mitigation, change and quality management to deal with the full range of technical issues surrounding the project. This full time project role within the PMO will include; co-ordinating activities, programming, reporting and liaising with SEUPB, procurement and capital delivery duties and in managing risks will have ultimate responsibility to sign off on all financial claims. NIW as Lead Partner will also provide a Cost Manager resource. This finance/technical administration role will require a thorough understanding of the project and programme rules in relation to financial and budgetary compliance. Extensive liaison with all the project partners and SEUPB is required to collate and verify valuations in accordance with the strict EU rules and regulations.

Please des	scribe activities within work plan 1.				
	Leadership & Governance	Start month  Letter of Offer	End month  Project End		
The PMO lead in the efficient and effective performance of his management/lead duties will issue clear and concise instruction to direct the project to keep it on the budget whilst ensuring proper governance.					
Activity	Change Management	Start month  Letter of Offer	End month  Project End		
1.2	The PMO lead will be assisted by the project team in the impact that this may have in terms of time and cost, but a financial forecasting and reporting to SEUPB.	-	_		
	Risk Management	Start month	End month		
A 4 to -14 to -1		Letter of Offer	Project End		
Activity 1.3	The PMO will hold regular risk workshops at which the risk register will be disseminated among the various partner organisations. The PMO will be responsible for ensuring that high risk items are mitigated against and for updating the risk register should project circumstances change and as new risks are identified.				
	Programme Management	Start month	End month		
Activity		Letter of Offer	Project End		
1.4	The PMO Lead, in conjunction with the PMO sub-program for management of the project timeline and identifying a issues which are to impact on the programme. These issue the risk register and contingencies put in place to ensure	s soon as practica ies should be miti	bly possible any gated through		
	Financial Management	Start month	End month		
A 11 11 1		Letter of Offer	Project End		
Activity 1.5	The PMO Lead will be responsible for sign-off of all project claims, assisted by EBR, the co				
	Quality Management	Start month	End month		
A ativity		Letter of Offer	Project End		
Activity 1.6	The PMO Lead will liaise with the PMO partner representatives to ensure that the balance between time, cost, quality and sustainability is maintained in order to deliver the project outputs. Health & Safety will take paramount over all decisions and is non-negotiable in the balancing process.				
	Communications Management	Start month	End month		
Activity		Letter of Offer	Project End		
1.7	The PMO will seek advice from the communications consorganizations communications teams, EBR and the public publication of all project related communications. They we the content and quality of communications, in conjunction	city guidance in re	lation to		

Activity	Stakeholder Engagement	Start month  Letter of Offer	End month  Project End		
1.8	Similarly to communications management, the PMO will liaise directly with stakeholders on the project on a regular basis. This engagement will be carried out in line with the publicity guidance and every effort will be made to manage stakeholders' expectations and impact, both internally and externally.				
	Benefits Realisation	Start month	End month		
Activity		Letter of Offer	Project End		
1.9	The PMO Lead will have ultimate responsibility for the realization of benefits as detail.				
	Reporting & Auditing	Start month	End month		
Activity		Letter of Offer	Project End		
1.10	The PMO will compile and manage all necessary reporting requirements of the project. The will be through the management and governance structure detailed in the business case with the flow of information going through the PMO to SEUPB (joint secretariat/managin authority), SWELL project steering committee, Partner Board Members and DFP/DRD as required.				

No.	Work Plan Title		Start Date	End date	Estimated % of total project budget allocated.
2	Communications		July 2016	December 2022	1%
Partners' Involvement					
Responsible partner		NIW			
Involved partners			IW,AFBI	,LA, EBR	

Describe the communications activities of the project. Include information on:

- Structure, responsibilities and procedures for external communications;
- Adherence to EU and mandatory programme publicity requirements;
- Responsibility and plans for quality communication tools;
- Communications methodology;
- Risks associated with communications activities and how they will be addressed.

A Communications Manager, who will be appointed to the Programme Management Office as part of the external consultancy resource, will be responsible for co-ordinating and managing all external communications.

Partners will be aware of the appropriate mechanisms and channels for communications and will follow the procedures for approving and issuing of external correspondence in relation to the SWELL project.

The communications plan has been developed in line with EU publicity requirements for Interreg projects and the Communications Manager, working alongside the PMO, will ensure that EU programme publicity requirements are met.

Central to carrying out effective communications on the SWELL project will be the production of a range of information tools including a project website; project leaflets; information boards and external signage. To ensure high quality publicity material is produced, the Communications Manager will use professional design and print services for the production of all marketing and communications materials.

The communications plan gives a detailed overview of how communications will be carried out with a range of internal and external stakeholders. Whilst the plan highlights a number of stakeholders known at this stage, it is important to note that the plan will be regularly reviewed to ensure any newly identified stakeholders are targeted. The activities outlined in the communications plan will be evaluated as the project progresses and if necessary the plan will be amended to ensure key objectives are being achieved.

Attention to detail and a close working relationship with all project partners and SEUPB will help to minimize risk associated with the communications activities. The Communications Manager will ensure all external communications are approved by project partners and SEUPB prior to issuing and will ensure that all these key internal stakeholders are kept up to date with information and progress relating to the SWELL project.

A crisis communications contingency plan will be drafted and agreed with all project partners and the SEUPB ahead of award funding to ensure that any potential negative press coverage is duly addressed if required.

Please de	scribe activities within work plan 2.			
	Develop SWELL brand/logo	Start month	End month	
Activity		(07.2016)	(07.2016)	
2.1	Liaise with project partners to discuss project to ensure k the project logo.	ey themes are in	corporated into	
	Set up SWELL project website	Start month	End month	
A -41-14-		(07.2016)	(Ongoing)	
Activity 2.2	Work with project partners to collate information relating information and source appropriate pictorial content to a to coincide with project launch event.	-		
	Produce SWELL information leaflets and range of	Start month	End month	
Activity	information pull up banners	(07.2016)	(09.2016)	
2.3	Produce a simple information leaflet to highlight what's involved in the project and the environmental benefits which could result. Design a range of easy-to-carry promotional/information pull-up banners that will be used for information events; project launch; school visits etc.			
	Produce SWELL site banners to be erected along river/lough edges to publicise the project and EU funding; produce a range of SWELL stickers to be placed on monitoring buoys etc	Start month	End month	
Activity		(07.2016)	(09.2016)	
	Liaise with AFBI over placement of promotional items.			
	Organise range of printed workwear for SWELL project	Start month	End month	
Activity 2.5	including hi vis vests; fleeces; hard hats	(07.2016)	(09.2017)	
	Liaise with all project partners and SEUPB to ensure corre	ect use of individ	ual logos	
	Organise training event/workshop for project partner	Start month	End month	
Activity 2.6	staff to outline the aims of the project; the roles and responsibilities of partner staff and process of approvals for external communications. Agree spokesperson for the SWELL project.	(07.2016)	(09.2016)	
	Liaise with all project partners and SEUPB to ensure appr	opriate staff invi	ted to attend.	

Activity 2.7	Organise SWELL project launch event in one of the eligible areas; source suitable venue; issue invites; prepare press release and press packs; prepare speech notes and key lines to take; brief media and strive to secure TV/radio coverage.	Start month (08.2016)	End month (08.2016)
	Liaise with all project partners and SEUPB to ensure appr attend; liaise partners and SEUPB on press material include	•	
Activity 2.8	Implementation of communications plan and monitoring of activities.	Start month (09.2016)	End month Onwards
	Reference communications plan in Annex 1.		

No.	Work Plan Title		Start Date	End date	Estimated % of total project budget allocated.	
3		Investigation urther information)	February 2016	November 2017	5%	
Partners'	Partners' Involvement					
Responsible partner		AFBI				
Involved partners			NIW,	IW,LA		

Outline key issues, outputs, responsibilities/roles of each partner, risks and risk mitigation approach.

This work plan covers data collection prevalent to determining the sources of pollution at the catchment scale. It will also gather the necessary information to determine the predominant risk areas for compliance with WFD status and data for insertion into the modelling activities.

The work plan will also give information to focus modelling at the sub catchment scale and derive the necessary information to set the baseline for the "Asset Discharge Improvement".

The key issues associated with the work package is logistics in sampling due to various factors such as weather, access, tidal states etc. These are foreseeable risks which the project team will be experienced at encountering and will be mitigated against through effective planning and organization of the catchment studies. Procurement of services/supplies in line with programme rules also represents a major risk to the programme delivery. Risks and risk mitigation strategies will be managed through the project risk register which is a live working document which is updated through regular risk workshops.

AFBI are the responsible partner for the catchment investigation and will utilize Loughs Agency resources in order to facilitate the sampling programme. The two respective water companies will also provide information on network configurations and wastewater treatment processes and facilitate access to assets to obtain samples. The planning and implementation will be carried out with support from technical consultants.

Outputs	
List which programme outputs this work plan delivers or contributes to.	This work plan contributes towards setting the baseline Asset Discharge Improvement to comply with the 10,000 PE. It also contributes towards the results indicator by providing sampling information on the quality within the catchment for insertion into the models which will be used to show necessary improvement to reach WFD 'good' status.

Please de	scribe activities within work plan 3.				
	AFBI Desktop Analysis	Start month	End month		
		(02.2016)	(04.2016)		
3.1	Narrow scale and scope of sampling programme and to ga on catchments.	nin further backgro	ound information		
	Reconnaissance of Catchment and Sampling Strategy	Start month	End month		
A . 1 * *1		(05.2016)	(07.2016)		
Activity 3.2	To reduce programme timescale post planned 'letter of of logistically difficult and time consuming planning of sampl		equirements of		
	Partner Tender Preparation for Consultancy Support	Start month	End month		
		(03.2016)	(07.2016)		
Activity 3.3	To reduce programme timescale post planned 'letter of offer' by ensuring necessary				
	3rd Party Evaluation of Models	Start month	End month		
Activity		(07.2016)	(10.2016)		
3.4	To ensure models are 'fit for purpose' and usually a requirement by the regulatory bodies				
	Baseline Catchment Sampling	Start month	End month		
Activity		(07.2016)	(08.2016)		
3.5	To obtain direction for further sub catchment calibration of models and to directly inform the business cases and narrow scope of proposed solutions.				
	Sub-Catchment Survey and Sampling Planning	Start month	End month		
		(09.2016)	(10.2016)		
3.6 To plan a sampling strategy to inform the delivery of the modelling phase and capital works.					
	Intensive Targeted Sampling - Pre-Improvements	Start month	End month		
A		(11.2016)	(11.2017)		
Activity 3.7	To set a baseline for quality and to calibrate/validate any existing models at a sub catchment level and to further inform the delivery programme through problem area identification.				

	Source Apportionment Model Component	Start month	End month
Activity		(07.2016)	(11.2017)
	To enable a trend of the polluter from certain watercourse	s.	
	Procurement of Catchment Investigation Phase	Start month	End month
Activity		(07.2016)	(11.2017)
	Procure products/services in line with programme rules.		

No.	Work Plan Title		Start Date	End date	Estimated % of total project budget allocated.	
4	•	n Modelling urther information)	September 2016	December 2020	3%	
Partners'	Partners' Involvement					
Responsible partner		AFBI				
Involved partners			NIW,	IW,LA		

Outline key issues, outputs, responsibilities/roles of each partner, risks and risk mitigation approach.

This work plan covers analyzing various data collected during the catchment investigation for insertion into various modelling tools/platforms in order to simulate the effect of the catchment in response to the hydrological cycle. It will aim to link various types of models in a unique and innovative method in order to simulate all catchment pressures.

The key issues with this work plan is the linkage of the various models which is a complex and specialist area. Various tools will be used to simulate the linkages of the various sources of pollution and the differences in software used is another risk identified. Procurement of experienced modelling consultants will help to mitigate against this risk. Programme risk is another key issue as the modelling approach is dependant on outputs of other models (in various states) before scenarios can be run in another. This is raised within the project risk register and will be mitigated accordingly through efficient procurement in line with the programme rules.

The PMO will be responsible for managing and ensuring that the catchment studies and modelling remain on programme to ensure capital delivery outputs. Risks and risk mitigation strategies will be managed through the project risk register which is a live working document which is updated through regular risk workshops

The models will dictate the various measures in order to reach WFD 'Good' Status and the level of investment required in wastewater assets to meet water quality targets.

AFBI are the responsible partner for the modelling packages and the linkages of the models. NIW and IW are responsible for ensuring that the outputs of their drainage area models are delivered in time for insertion into the ecosystem model. Statistical loading models will be used to simulate various asset discharges and this will be done in conjunction with the two water companies, AFBI and external technical consultancy.

Outputs	
List which programme outputs this work plan delivers or contributes to.	The model will simulate the necessary improvements in order to reach WFD 'Good' Status therefore contributing to the results indicator.

	Statistical Loading Models	Start month	End month		
A ativity		(09.2016)	(11.2017)		
ctivity 4.1	To enable GIS Source Apportionment Models and set baseline for improvements and contribution towards output indicator.				
	Drainage Area Modelling	Start month	End month		
		(10.2016)	(06.2016)		
Activity 4.2	To obtain spill volumes to enter into ecosystem model.				
	SWAT Catchment Modelling	Start month	End month		
ctivity		(10.2016)	(06.2018)		
4.3	To enable GIS Source Apportionment Models and to set the most sustainable environmenta discharge consents for wastewater assets. The model will be the first of its kind to integrate intermittent sewerage network discharges within the eco-system.				
	ECOWIN 2000 Marine Modelling	Start month	End month		
a <b>t</b> ii.t		(06.2016)	(06.2018)		
Activity 4.4	To enable full coupling and integration of the models taking cognisance of the catchment as an ecosystem where one intervention impacts another and respective legislation e.g. MSFD, Habitats Directive, priority areas under WFD.				
4.4	·				
4.4	Habitats Directive, priority areas under WFD.  Integrated Ecosystem Model – Further Model Calibration	Start month	End month		
	Habitats Directive, priority areas under WFD.	Start month (06.2018)	End month (12.2020)		
ctivity 4.5	Habitats Directive, priority areas under WFD.  Integrated Ecosystem Model – Further Model Calibration	(06.2018)	(12.2020)		
ctivity	Habitats Directive, priority areas under WFD.  Integrated Ecosystem Model – Further Model Calibration and Maintenance  Models are to be maintained and equipment used to infor	(06.2018)	(12.2020)		
ctivity	Habitats Directive, priority areas under WFD.  Integrated Ecosystem Model – Further Model Calibration and Maintenance  Models are to be maintained and equipment used to informaintenance to ensure they are fit for purpose.	(06.2018) m models must	(12.2020) underso regular		

No.	Work Plan Title		Start Date	End date	Estimated % of total project budget allocated.
5	•	Delivery urther information)	July 2016	December 2021	79%
Partners' Involvement					
Responsible partner		NIW			
Involved partners			IW, AFBI		

Outline key issues, outputs, responsibilities/roles of each partner, risks and risk mitigation approach.

This work plan covers capital infrastructure construction. It combines the project life cycle related to feasibility, design and construction and the business cases undertaken at feasibility stage take cognizance of the operational phase. This work package considers the sustainability of the construction proposals and will use innovative techniques and technologies in order to upgrade assets to improve water quality but reduce the carbon and operational expense of running that asset.

There are various key issues related to construction that are specific to each site. These will be identified as solutions are validated in a construction risk register and will be mitigated against as part of the two respective water companies' normal capital delivery procedures. There is a programming risk as specific design details are awaiting model outputs, these are mitigated through having float in the construction programme to accommodate delays but allowing site mobilization at an early date.

The capital delivery will deliver the output indicators and positively contribute towards the results indicator.

NIW are the responsible partner for the capital delivery, however, Irish Water play a significant role in the capital delivery outputs. AFBI may play a role in the scientific elements of delivery and innovative technologies. Technical consultants will assist in the delivery of the capital delivery phase.

Outputs	
List which programme outputs this work plan delivers or contributes to.	This workplan will deliver the two output indicators – compliance with the 10,000 PE through the Asset Discharge Improvement and the two sewer network and wastewater treatment projects. It will also positively contribute towards the results indicator.

Please de	scribe activities within work plan 5.					
Activity 5.1	Business Cases	Start month	End month			
		(10.2016)	(07.2018)			
	Demonstrate Value for Money and the most optimized wastewater treatment solution is undertaken to include potential innovative R&D solutions.					
	Land & Statutory Approvals	Start month	End month			
		(07.2016)	(07.2018)			
Activity 5.2	To facilitate construction capital works.					
	Contractor Procurement	Start month	End month			
A atii.		(08.2016)	(08.2017)			
Activity 5.3	To facilitate construction capital works.					
	Design of Deliverables	Start month	End month			
A ativity		(07.2016)	(01.2018)			
Activity 5.4	To facilitate construction capital works.					
Activity 5.5	Design & Build Construction Phase	Start month	End month			
		(08.2017)	(12.2021)			
	To deliver the output indicators.	1	1			

No.	Work Plan Title		Start Date	End date	Estimated % of total project budget allocated.
6	-	se out/legacy urther information)	July 2021	December 2023	2%
Partners' Involvement					
Responsible partner AFBI					
Involved p	ed partners NIW,IW,LA				

Outline key issues, outputs, responsibilities/roles of each partner, risks and risk mitigation approach.

This work plan covers the project closing period which will involve another period of sampling and modelling to calibrate and validate the existing model post construction to show the status of the catchment in response to the capital upgrade but also due to other external factors mentioned within the business case and PXP. The project will also undertake a period of self-auditing of the model building at the end of the project and an externally compiled post project evaluation will be undertaken.

The key issues with this work plan should be mitigated through work packages 3 and 4 as this is essentially a repeat cycle of the sampling and modelling undertaken during these phases. Therefore the risk is minimized. Any risks that are identified during those phases will remain on the project risk register and be mitigated against as the project progresses through the various risk workshops. Overrun of the construction programme is a risk to this work package which will be mitigated through efficient procurement and delivery of the capital construction phase combined with the inbuilt float in the programme.

The legacy models will dictate the various measures in order to reach WFD 'Good' Status, if required and also confirm the Asset Discharge Improvement and the level of contribution towards the results indicator.

AFBI are the responsible partner for the modelling and sampling activity within this work package with assistance from LA. LA will be the custodians of the model with AFBI maintaining the model post project. NIW and IW will be responsible for updating their drainage area models for insertion into the ecosystem model in the future.

Outputs	
List which programme outputs this work plan delivers or contributes to.	The model will simulate the necessary improvements in order to reach WFD 'Good' Status therefore contributing to the results indicator. It will also dictate the scale of success of reaching the 10,000 PE output indicator.

Please de	scribe activities within work plan 6.				
Activity	Intensive Targeted Sampling - Post-Improvements	Start month	End month		
		(07.2021)	(06.2022)		
6.1	The intensive targeted sampling will be repeated post improvements and verification of compliance with the output indicator demonstrated.				
	Validation of Models - Post-Improvements	Start month	End month		
Activity		(07.2021)	(09.2022)		
6.2	The data from the post improvement sampling will have to be re-run in the eco-system model to further validate and ensure that it is fit for future use.				
	3rd Party Evaluation of Models	Start month	End month		
Activity 6.3		(10.2022)	(12.2022)		
	Upon validation of the post improvement models it may be a requirement of the statutory bodies to have an independent third party assessment of the models at project close out, similar to the initial audit.				
	Post Project Evaluation	Start month	End month		
Activity 6.4		(10.2022)	(12.2022)		
	A post project evaluation of the project will have to be undertaken in order to assess whether the project met its original aims and objectives and was managed in the correct manner.				