SORENSEN

Monthly Environmental Audit – March 2025

Glanmire Flood Relief Scheme

01/03/25 to 31/03/25

ENVIRONMENTAL AUDIT			
Project/Contract Name:	Glanmire Flood Relief Scheme		
Project Address:	Sallybrook/Glanmire, Co. Cork		
Auditor(s):	**Site Ecologists Name:** Lisa Dolan	**Signature:**	
	Site Manager/SCE Environmental Unit: Marcus Browne	**Signature:**	
Monthly Report	March 2025	**Period**	01/03/2025 – 31/03/2025
Audit Number	GFRS-EA-2025MAR	**Date**	02/04/2025
Locations Audited:	All works areas		

Week Commencing 3rd March

Comments/Observations

- Permit to Pump No. 128 was issued on 04/03/2025 to dewater the pump station chamber at Meadowbrook (GFRS-PTP-128). As the chamber is at fit out stage there is no active excavation works taking place.
- An Environmental Incident occurred at approx. 2.00pm on 05/03/2025 at Area 1 - Sallybrook Compound a hydraulic hose burst on the excavator working within the site compound. The machine operator contacted SCE's Environmental Unit requesting back-up support. The On-board 20L spill kit was deployed at the location of the spill zone. This was followed by the deployment of further oil pads from the SCEs Environmental Storage Unit at the site compound and the use of Bioversal by SCE's Environmental Unit. An Environmental Incident Report is in preparation.
- The silt fencing placed on the entrance to the stormwater drainage pipe on the banks of the Glenmore River at New Line was repaired on the 27/02/25 and 05/03/25 to prevent fish from gaining access to the pipe.
- The application for the licence to Photograph/Film a Protected Wild Animal (Otter) was granted by NPWS on 06/03/25 in respect of installing trail cameras to monitor 2 no holts (N7A and N7B) at Meadowbrook. The cameras, acoustic barrier and signage (stating 'Environmental Sensitive Area') were installed on the 06-07/03/25.
- Monitoring of silt control measures and discharge at Sallybrook Stream continued under Permit to Pump No. 124.
- Monitoring of the overpumping of the existing stormwater drainage line at New Line continued under Permit to Pump No. 126.

Week Commencing 10th March
Comments/Observations

- Environmental Tour 025 took place on the 11/03/25 - main findings related to house-keeping, future works to be undertaken, silt control measures, tool-box talks and the Environmental Incident which took place at New Line on 01/03/25 (see GFRS-EIR-011).

- Monitoring of silt control measures and discharge at Sallybrook Stream continued under Permit to Pump No. 124.

- Monitoring of the overpumping of the existing stormwater drainage line at New Line continued under Permit to Pump No. 126.

- An Environmental Incident occurred at approx. 2.50pm on 12/03/2025 at Sallybrook Stream – when the temporary linear attenuation and settlement system installed to facilitate the construction of Sallybrook Pump Station under Permit to Pump No. 124, failed to prevent suspended solids from entering the Glashaboy River during the final stages of the installation of the pump station chamber. An Environmental Incident Report is in preparation.

- Coir Mesh was placed on the western bank of the Glashaboy River at Meadowbrook on the 12/03/25 to stabilise the banks against high energy fluvial flows at the location of the OPW Hydrometric Station.

- A new concrete wash out facility was installed at Cirus Field storage compound on the 12/03/25 to facilitate the construction of footpaths on Riverstown Road.

- The settlement tank at New Line was 'desludged' with the vacuum tanker on 13/03/25 to remove the accumulated and settled silt from the bottom of the tank.

- Permit to Pump No. 129 was issued on 13/03/2025 to further dewater the pump station chamber at Meadowbrook (GFRS-PTP-129). As the chamber is at fit out stage there is no active excavation works taking place.

- Coir Mesh was placed on the eastern bank of the Glashaboy River at the location of the Overflow Culvert on the 14/03/25 to stabilise the banks against high energy fluvial flows and runoff of silt laden waters.

Week Commencing 17th March
Comments/Observations

- An Environmental Incident occurred at approx. 11.00am on 19/03/2025 at the Overflow Culvert at Hazelwood Bridge. During site clearance works on the 15/03/25 a small section of an existing wall fell into the river margin along the left-handbank of the Glashaboy River downstream of the Overflow Culvert. When attempts were made to start sheet piling "in the dry" on the 19/03/25, suspended solids from the fallen material were released into the river due to ground-borne vibrations. An Environmental Incident Report is in preparation.

- Permit to Pump No. 130 was issued on 20/03/2025 to dewater the excavation/cofferdam in order to facilitate the construction of the Overflow Culvert at Hazelwood Bridge (GFRS-PTP-130). Pumping commenced on 20/03/2025, along with monitoring of the silt control measures and the discharge from the infiltration area (gravel check dam/silt fence) under Permit to Pump No. 130. In addition to visual checks, the turbidity (NTU) of the pumped water was monitored and tested daily prior to discharge with a handheld device, by the Site Ecologist, or other nominated member of the SCE's Environmental Unit. Where turbidity levels were found to be at an unacceptable level, pumping was ceased and/or silt control measures were adjusted/enhanced.

- Given previous encounters which hydrocarbon contamination during drainage works in Sallybrook Industrial Estate, phased testing involving the slow release of potable water into the stormwater network at Pat O Donnells was undertaken on the 20/03/25 in advance of the diversion of the last 150m of Sallybrook Stream into the stormwater drainage network. Hydrocarbon control measures were put in place at the outfall to the Glashaboy River in the event of any evidence of hydrocarbon contamination. SCEs Environmental Unit were also on standby with Bioversal HC. As no hydrocarbons were evident, Sallybrook Stream was diverted into the stormline. Sallybrook Stream was then monitored for the unlikely presence of European eel or lamprey during and after the diversion, during which 1 no. Brown trout was recovered from the stream. The permanent diversion works were supervised by the Site Ecologist.

- An Environmental Incident occurred at approx. 9.00am on 27/03/2025 at Sallybrook Stream, when hydrocarbons were accidentally released into the Glashaboy River further to the commencement of drainage works. It would appear that the drainage works disturbed sediments in the stream bed which had been historically contaminated with hydrocarbons. Summary of incident:

    - Sallybrook Stream is a small unmapped (no EPA code) Eroding/upland river (FW1) and a 1st order tributary of the Glashaboy River, which outflows into the Glashaboy River at Sallybrook House within Sallybrook Industrial Estate. It receives stormwater from Sallybrook Industrial Estate and Sallybrook House. The heavily modified stream is culverted underground through Sallybrook Industrial Estate apart from the last 150m's of open channel which flows through dense scrub with mature adjoining treelines (at Sallybrook House). The stream is considered to be of very poor fisheries value (see Triturus Environmental Ltd., 2021).

    - The water flowing through the last 150m of Sallybrook Stream was permanently diverted (within Pat O' Donnell's yard) to the stormwater drainage network on the 20/03/25.

    - Further to the commencement of drainage works at Sallybrook Stream on the 27/03/2025 visual evidence of hydrocarbon contamination was observed in the bed of Sallybrook Stream during the attempted removal of an existing 300mm black corrugated drainage pipe which had connected Sallybrook Stream to a flap valve outlet to the main channel of the Glashaboy River.

    - Immediate action was taken by the machine operator who placed a 'plug' of soil at the entrance to the drainage pipe to prevent hydrocarbons gaining access to the main channel of the Glashaboy River via the flap valve.

    - The onsite 240L Hydrocarbon Spill Kit was deployed. Hydrocarbon absorbent pads were placed in Sallybrook Stream by the Site Ecologist. The Site Ecologist activated the Emergency Response Plan by notifying the Employers Representative (ER) i.e. Brian Cunningham (ARUP) and the Emergency Spillage Response Plan by notifying Mark Snow (SCE).

    - Meanwhile a member of SCEs Environmental Unit deployed Bioversal HC at the flap valve outlet to the Glashaboy River and placed oil booms around the outlet for containment purposes under the supervision of the Site Ecologist.

- Under instruction from the Site Ecologist, timber was utilised to temporarily 'wedge' the flap valve door closed in order to prevent any further contamination from entering the channel while a rubber bung was being sourced on site.
- The surface of the water in the Glashaboy River, at the outlet, was treated with Bioversal HC as was the rock armouring along the left-hand bank downstream of the outlet on numerous occasions, where a hydrocarbon film was evident, under the supervision of the Site Ecologist.
- Under instruction from the Site Ecologist members of SCEs Environmental Unit walked the Glashaboy River instream as far as the weir below Grandons deploying Bioversal HC to any visible film of hydrocarbons.
- Further to ongoing monitoring it was noticed that groundwater was pooling in the newly open excavation behind the sheet piles which was putting pressure on the rubber bung. The excavation was subsequently backfilled to minimise the pooling of ground water.
- A berm of soil was also placed in Sallybrook Stream to increase the capacity of the channel to accommodate the temporary containment of hydrocarbons.
- As groundwater is continuing to pool behind the sheet piles, there is a risk of hydrocarbons seeping through the 'clutches'. SCE put a clay plug in place parallel to, and on the dry side of the sheet pile wall, to minimise the risk of any further hydrocarbon contamination gaining entry to the Glashaboy River while awaiting further instruction from the ER team.
- SCE are continuing to monitor and adjusting oil booms, oil absorbent pads and Bioversal HC on a daily basis.
- An Environmental Incident Report is in preparation.

Week Commencing 21st March

Comments/Observations

- An Environmental Incident occurred at approx. 12.00pm on 21/03/2025 at Copper Valley Vue – a hydraulic hose burst on an excavator. The machine operator contacted SCE's Environmental Unit requesting back-up support. The On-board 20L spill kit was deployed at the location of the spill zone. This was followed by the deployment of further oil pads from the SCEs Environmental Storage Unit at New Line and the use of Bioversal by SCE's Environmental Unit. An Environmental Incident Report is in preparation.
- Permit to Pump No. 131 was issued on 21/03/2025 to dewater the excavation/cofferdam in order to facilitate the construction of the RC Wall upstream of the culvert at New Line (GFRS-PTP-131). Pumping commenced on 21/03/2025, along with monitoring of the silt control measures and the discharge from the settlement tank under Permit to Pump No. 131. In addition to visual checks, the turbidity (NTU) of the pumped water was monitored and tested daily prior to discharge with a handheld device, by the Site Ecologist, or other nominated member of the SCE's Environmental Unit. Where turbidity levels were found to be at an unacceptable level, pumping was ceased and/or silt control measures were adjusted/enhanced. Alternatively, the pumped water in the settlement tank was removed via a vacuum tanker and discharged to a contained/bermed area at Area 1 Sallybrook Site Compound.

- Permit to Pump No. 133 was issued on 27/03/2025 to dewater the excavation/cofferdam in order to facilitate the construction of the Overflow Culvert at Hazelwood Bridge (GFRS-PTP-133). Pumping commenced on 27/03/2025, along with monitoring of the discharge to the stormwater drainage network under Permit to Pump No. 133. In addition to visual checks, the turbidity (NTU) of the pumped water was monitored and tested daily prior to discharge with a handheld device, by the Site Ecologist, or other nominated member of the SCE's Environmental Unit. Where turbidity levels are found to be at an unacceptable level, pumping will cease and pumped water will be rerouted to the infiltration area which remains in place under Permit to Pump No. 130.
- Monitoring of the overpumping of the existing stormwater drainage line at New Line continued under Permit to Pump No. 126.
- Monitoring of dewatering of the pump station chamber at Meadowbrook continued under Permit No. 129.
- Monitoring of silt control measures and discharge at the Overflow Culvert at Hazelwood Bridge continued under Permit to Pump No. 130.

Week Commencing 28th March

Comments/Observations

- Permit to Pump No. 132 was issued on 27/03/2025 to dewater the excavation/cofferdam in order to facilitate the construction of drainage works at Sallybrook Stream (GFRS-PTP-132). [These works did not proceed due to the accidental release of hydrocarbons].
- Monitoring of the overpumping of the existing stormwater drainage line at New Line continued under Permit to Pump No. 126.
- Monitoring of the dewatering of the pump station chamber at Meadowbrook continued under Permit No. 129.
- Monitoring of silt control measures and discharge at the Overflow Culvert at Hazelwood Bridge continued under Permit to Pump No.s 130 and 133.
- Monitoring of site control measures and discharge from settlement tank at New Line continued under Permit to Pump No. 131.
- SCE have replenished stock levels of Environmental Control Measures having acquired Bioversal HC and oil booms.

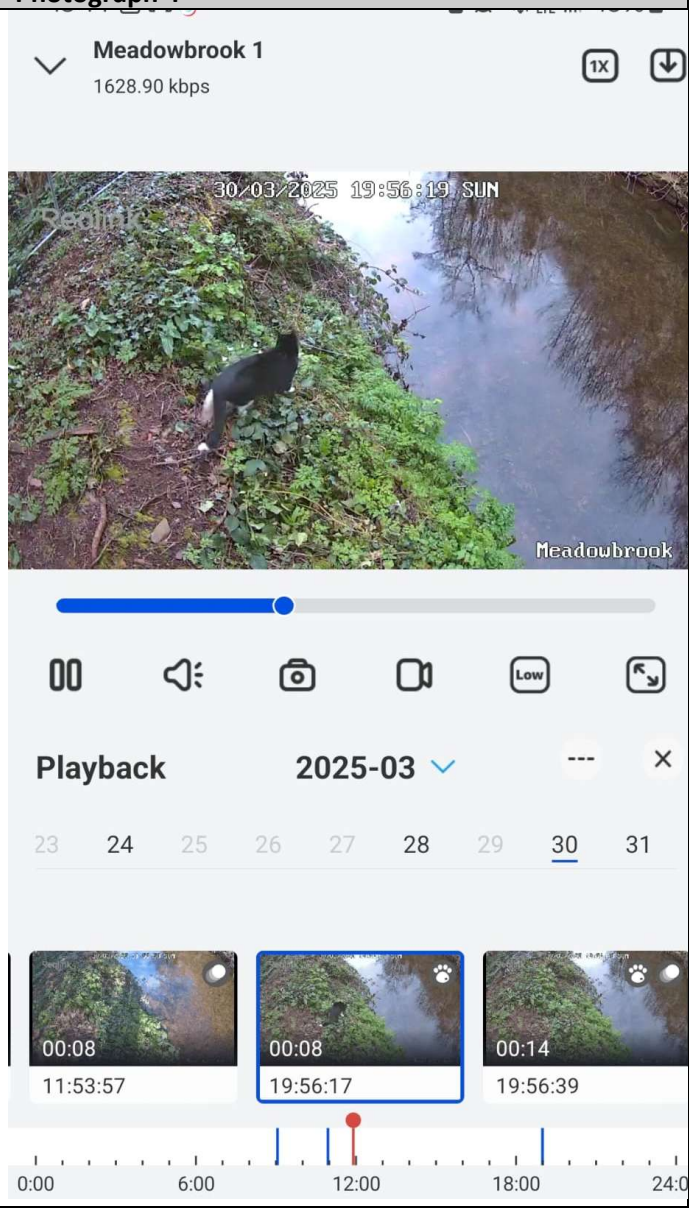
Environmental Licenses Schedule

Ecological Licences

Ecological Receptor	Licence Type	Licence No	Details	Start Date	Expiry Date	Status
Badgers	N/A	N/A	Not required	N/A	N/A	N/A
Bats	N/A	N/A	Not required	N/A	N/A	N/A
Birds	N/A	N/A	N/A	N/A	N/A	N/A
Amphibians	N/A	N/A	Not required	N/A	N/A	N/A
IAPS	Reg 49(2)		Japanese knotweed	02/01/2024	30/06/2024	Expired
IAPS	Reg 49(2)	Reg 49 58/2024	Japanese knotweed, Himalayan balsam	06/09/2024	30/06/2025	Active
Otters	Reg 54 Derogation	DER-OTTER-2024-47	Active holts N2, C2, N6C and N6D	22/02/2024	31/12/2024	Expired
	Reg 54 Derogation	DER-OTTER-2025-07	Active holts and couch H3, H4, H5, AH1, H7A, H7B and H8, C1	27/02/2025	31/12/2025	Active
	Section 23(6)b Photograph/Film	Reg 034/2024	Trail cameras for Otter	01/04/2024	31/10/2024	Expired
	Section 23(6)b Photograph/Film	Reg 024/2025	Trail cameras for Otter	03/03/2025	31/12/2025	Active
E-Fishing	Section 14 – Cois na Gleann		Cois na Gleann	01/07/2024	31/07/2024	Expired
	Section 14 – All works areas		Glashaboy, Glenmore River	01/07/24	31/09/2024	Expired

March 2025 Look Ahead	
Area	**Activity/Sensitive Receptor**
All Areas	N/A
New Line	Monitoring of dewatering activities is ongoing to facilitate the construction of the RC Wall. The existing stormwater drainage line which is currently being overpumped to facilitate works on the RC Wall will be put back online
Copper Valley Vue	Removal of Bailey Bridge
Sallybrook	Monitoring of Sallybrook Stream outlet to the Glashaboy River is ongoing in light of accidental release of hydrocarbons Installation of erosion matting is continuing on the embankment
Grandons	Installation of the Petrol Interceptor to commence
Meadowbrook	Monitoring of dewatering activities is ongoing to facilitate the fit out of the pump station
	Capping beams works on sheet piles continuing
Circus Field	Monitoring of dewatering activities is ongoing to facilitate the construction of the overflow culvert
Hazelwood Bridge	Bailey bridge to be installed New abutment to be constructed
The Grove	Pump Station and RC Walls works to commence

Audit Acceptance/Sign-Off	
Auditor Signature: Lisa Dolan	**Site Representative Signature:** Mark Snow
	

Photograph 1	Photograph 2
	
Captions 1 & 3 **Meadowbrook**	**Captions 2 & 4** **Meadowbrook**
Acoustic barrier and signage in place for Otter holts N7A and N7B as per the Derogation licence	Cameras in place for Otter holts N7A & N7b as per the Derogation licence. A domestic short hair cat is a regular visitor to Holt N7A and has entered the holt. No Otter activity has been recorded
Photograph 3	**Photograph 4**
	

Photograph 5	Photograph 6
	
Caption 5 **Silt Control Measures at New Line**	**Caption 6** **Silt Control Measures at New Line**
Silt control measures (settlement tank and manifold system discharging to a woodland area) in respect of the RC Walls at New Line	

Photograph 7	Photograph 8
	
Caption 7 Silt Control Measures at Overflow Culvert	**Caption 8 Silt Control Measures at Overflow Culvert**
Silt control measures (silt fences and gravel checks dams) in place at the discharge point for the Overflow Culvert at Hazelwood Bridge	Silt control measures (silt fences and gravel checks dams) in place at the discharge point for the Overflow Culvert at Hazelwood Bridge

Photograph 9	Photograph 10
	
Caption 9 Sallybrook Stream outlet	**Caption 10 Sallybrook Stream outlet**
Hydrocarbon control measures in place at Sallybrook Stream outlet	Hydrocarbon control measures in place at Sallybrook Stream outlet