

SORENSEN

Monthly Site Environmental Audit

SPILL CONTROL
OIL
ABSORBENT
GRANULES

INVASIVE
PLANT
SPECIES
AREA



Glanmire Flood Relief Scheme

29/07/24 To 26/08/24

ENVIRONMENTAL AUDIT

Details			
Project:	Glanmire Flood Relief Scheme		
Auditor:	SD/LD	Audit Period:	August
Locations Audited:	All sites		

Week Commencing 29th July**Comments/Observations**

- Cofferdams at Hazelwood Bridge electrofished prior to infilling 31/07/24. Fish salvage – 1 European Eel & 1 Brown Trout.
- Works commenced at Brooklodge culvert 30/07/24 – 2 additional silt curtains installed prior to digging of pump sump. Area electrofished 01/08/24 – fish salvaged = 201 juvenile Brown Trout, 14 European Eel, & 6 Lamprey. Fish guard installed around the sump and upstream of the sump prior to dewatering operations. Fish guards maintained by the Environmental Team daily.
- Digging for headwall installation at Area 1 (Japanese knotweed infested area) and embankment and drainage works supervised by LD. Biosecurity measures in place as per the Biosecurity Management Plan Rev 02.
- Biosecurity measures improved with new fencing and signage at the J. knotweed temporary storage area, 09/08/24.
- Silt fence installed at Hazelwood to accommodate dewatering of the eastern cofferdam 02/08/24.
- 29th July – 4th Aug: No Otter sightings on cameras monitoring N2, C2, N6C and N6D.

Week Commencing 5th August**Comments/Observations**

- Silt curtains (8 no.) installed in Area 1 to accommodate rock armour works 07/08/24. Works supervised by SD or LD at all times. Curtains adjusted as required. River gravels recovered for reuse.
- Environmental Tour 08/08/24 – Main Findings: silt mitigation improvements needed at the rock armour works. It is to be ensured that subcontractors use the designated concrete wash out area when required. Housekeeping required at New Line vegetated area.
- 5th – 11th August: No Otter sightings on cameras monitoring N2, C2, N6C and N6D.

Week Commencing 12th August**Comments/Observations**

- Gravel check dam installed for rock armour works at Sallybrook/Eurofins 12/08/24.
- IFI visit 14/08/24 – silt mitigation improvements requested for the rock armour works. 2no. additional curtains added to the river. Tracking of machinery in the river is being avoided where possible.
- 6 no. Sycamore and 2no. Ash and 3 no. Alder trees removed at Springmount under instruction from the RE, 15/08/24. Trees and understory surveyed for nesting birds and bat potential, no bat potential and no bird nests observed.
- Silt curtains removed from Eurofins 16/08/24 and powerwashed.
- Pumps vandalized at Brooklodge resulting in overtopping of the river into the works area the morning of 16/08/24. Fish guards still in place and functional, dewatering of works area supervised by the Environmental Team – 2no. European Eels recovered and translocated downstream of works.
- Flagstone installation completed at Cois na Gleann culverts, 15/08/24.
- 12th – 18th August: No Otter sightings on cameras monitoring N2, C2, N6C and N6D.

ENVIRONMENTAL AUDIT
Week Commencing 19th August
Comments/Observations

- Silt curtains installed at Evcore gym for continuation of Area 1 rock armour works, 19/08/24.
- Flagstones (Old Red Sandstone) placed in Brooklodge culverts and seeded with river gravels recovered during Area 1 rock armour works by the Environmental Team, supervised by the ECoW. Thalweg created using small flagstones in the centre of the culvert and by placing an additional row of boulders on the depositing side.
- Recovered river gravels from rock armour works were utilised in the new stream bed on the Springmount Stream. Old Red Sandstone boulders were randomly installed in the new stream bed to provide refugia for salmonids and macro-invertebrates and exposed rocks for foraging Dippers.
- Grass seed spread at Copper Valley Vue.
- 19th – 27th August: No Otter sightings on cameras monitoring N2, C2, N6C and N6D.
- Status yellow rain weather warning 5pm 26/08 – 8am 27/08. All silt curtains and fencing removed from the river on the evening of 26/08/24 to prevent loss of equipment and said equipment becoming pollutants in the river.
- Penstock installed on the Millrace at Grandons – sandbags and oil booms placed instream perpendicular to the millrace walls in case of an accidental release. Water levels monitored and managed during works. Four stickleback removed using hand nets from the instream works area, 27/08/24.

Ecological Licenses Schedule
GFRS – Ecological Licences

ECOLOGICAL FEATURE	LICENCE TYPE	STATUS	START DATE	EXPIRY DATE
Badgers	Derogation	Not Required	N/A	N/A
Bats	Derogation	Not Required	N/A	N/A
IAPS	Reg 14 – Transport JKW	Active	02/01/2024	31/06/2024
IAPS	Reg 14 – Transport JKW + HB	Pending	01/08/2024	
Otters	Derogation	Active – Holts N2, C2, N6C & N6D	22/02/2024	31/12/2024
Otters	Photograph/Film Wild Animals	Active	01/04/2024	31/10/2024
E-Fishing – Cois na Gleann	Section 14	Received	01/07/2024	31/07/2024
E-Fishing – All Areas	Section 14	Received	01/07/24	31/09/2024

August Look Ahead

Area	Activity/Sensitive Feature
Eurofins/Gym	Completion of rock armour – will require instream tracking. Silt control required.
Grandons	Rock armour at the mill race – silt control and contamination containment required.
Hazelwood	Bridge extension works – monitoring of dewatering activities and silt control.
Meadowbrook	Dredging/regrading of Riverstown bridge's western eye. Silt control and diversion of channel flow required.
Springmount	Monitoring of works and overpumping.
Copper Valley Vue/Brooklodge	Monitoring of fish guards and overpumping.
New Line	Reconnection of river to original route. Silt control may be required.

Audit Acceptance/Sign-Off	
Auditor Signature	Site Representative Signature
S. Dale L. Dolan	M. Snow

Space provided on following pages for Figure



Figure 1			Figure 2		
					
Caption 1			Caption 2		
Silt curtain installation at Brooklodge.			Western cofferdam at Hazelwood bridge with silt fencing placed prior to sheet pile installation.		



Figure 3			Figure 4		
					
Caption 3			Caption 4		
Placing of sump at Brooklodge. Sump wrapped with green mesh to prevent fish accessing the intake hose.			Electrofishing completed by the Env Team at Brooklodge.		

Figure 5			Figure 6		
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Caption 5

Juvenile Brown Trout recovered during efishing operations at Brooklodge.



Caption 6

Rock armour works in Area 1

Figure 7



Caption 7

Rock armour works in Area 1

Figure 8



Caption 8

Silt curtain effectively containing silt generated during rock armour works at Area 1.

Figure 9

Figure 10



Caption 9			Caption 10		
Rock armour works in Area 1, silt curtains installed parallel to works as well as diagonally downstream of works.			Gravel checkdam installed at the lower extent of works to aid in the containment of silt.		



Caption 11			Caption 12		
Trees surveyed prior to removal at Springmount.			Flagstones placed in Brooklodge culvert and seeded with gravels.		

Figure 13	Figure 14
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Caption 13

Flagstones placed at Brooklodge culvert.



Caption 14

Fish guard with wire mesh to prevent debris damaging the guard at Brooklodge.