



Environmental Report November 2024

Glashaboy Flood Relief Scheme

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The following is the clients Ecological Clerk of Works (ECoW) monthly review of the Glashaboy River (Glanmire/Sallybrook) Drainage Scheme. It details observations made on site regarding environmental and ecological factors involved in the scheme. This formulates a monthly review to be submitted to the Environmental Monitoring Group (EMG).

The main work areas for November 2024 included:

- Cois na Gleann - Stonemasonry cladding.
- Area 1 – Capping beams installations.
- Circus field - Stonemasonry cladding.
- Hazelwood Overflow Culvert – Precast walls installed
- Hazelwood Bridge – Gas main diverted
- Meadowbrook estate – Capping beams, wall demolition, flood defence wall.
- Copper Valley Vue (CVV) – Waterproofing bridge deck.
- Brooklodge culvert – Filter drain. Drainage line 6/S1.
- New Line - Waterproofing bridge deck.
- Areas 1/2/3 – Ducting and Drainage.

General Comments



The site ecologist was not available full time this month due to periodic illness. This delayed some actions following ECOW recommendations.

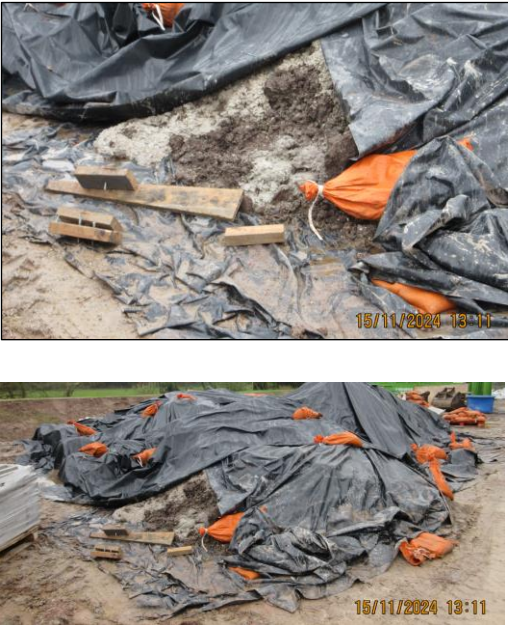

Environmental Tour 020 (ET020) took place 15th November 2024 between the site ecologist and client's ecologist (ECOW).



Table 1. Outstanding items to be addressed by Sorensen



Item No.	Issue	Action
5.9	Hydrocarbon pollution leaking into the Glashaboy river emanating from underneath Grandon's four courts. The black liquid on the surface of the water is used motor oil which has escaped from a faulty holding tank beneath the car showroom. This type of pollution is especially damaging as it contains polycyclic aromatic hydrocarbons, heavy metals and residual fuels.	<p>The responsibility for this pollution is with Grandons and not the main contractor Sorensen. The ECoW will continue to monitor the situation.</p> <p>November Update: A number of visual inspections were conducted over the month of November with no obvious signs that contamination is still leaking from Grandons into the Glashaboy river. Given that Grandons has not taken direct action to address the leak, it is assumed that the installation of the sheet pile wall, part of the flood relief works, may have intercepted the pollution source beneath the showroom and forecourt, preventing further contamination into the Glashaboy River. The issue appears resolved. However, the area in question will still receive periodic inspection from the ECOW.</p>
10.19	Eroding earth bank located between the Brooklodge and Copper Valley Vue structures.	Regrading of riverbank and erosion control required. This work was not carried out this month. Delays due to watermain diversion.
7.48 / 10.4	Contaminated boulders temporarily stored to undergo treatment with Bioversal HC. Stored adequately at Area 1 compound.	Treatment of the material originally planned for this month was not initiated. The reuse of this material within the project has now been cancelled. Consequently, the need for material treatment is no longer required. Boulders to be removed of site.


Table 2. Main table of the months ecological and environmental related activities


Item number	Date	Comment	Image	ECoW Action/Recommendation	Sorensens's Action response
11.1	15/11/24	Excavation risings from recent drainage works on the wet side of the sheet pile wall at Grandon's South, should be compacted and graded. This would help minimise runoff and erosion into the adjacent watercourse.		Compact and grade the mound of stony excavated material to ensure stability and minimise the risk of erosion or runoff.	Risings were regraded and compacted to a satisfactory standard later in the month. Since the material is largely made of gravels there is no need for coir mesh in this circumstance.
11.2	15/11/24	A substantial amount of waste, particularly spent angle grinder cutting discs, was observed discarded on the ground around the sheet pile wall near the car wash facility at Grandons.		Construction waste must be disposed of properly. A toolbox talk should be conducted for the subcontractors/ personnel installing the capping beams.	The area was tidied and construction waste removed. Site ecologist reports that Toolbox talk to be provided in December.




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11.3	15/11/24	Material removed from Grandon's during drainage works now stored at the Sallybrook compound, appears to have been added too with concrete waste. This section has also been left uncovered.		<p>Why is concrete waste being added to this stockpile?</p> <p>Advised that material be tested asap and recovered exposed material to prevent run off.</p>	<p>Material tested and returned non-hazardous. Results of testing submitted to client 20/11/24.</p> <p>Non-hazardous concrete waste added to stockpile for ease of disposal off site.</p> <p>Stockpile was recovered. Removal scheduled for December.</p>
11.4	15/11/24	At the northernmost part of Sallybrook, a fenced-off area lacks signage to alert workers that it is a Japanese Knotweed exclusion zone.		<p>Install appropriate signage in this area to ensure biosecurity measures are clearly communicated.</p>	<p>Site ecologist reports that the signage will be installed in December.</p>



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11.5	15/11/24	Steel reinforcing offcuts are being inappropriately stored within the Holding Cell at Sallybrook. This misuse of the Holding Cell sets a poor precedent for further incorrect storage practices and undermines the biosecurity protocols established to prevent the spread of Japanese knotweed (JKW). The situation is further exasperated as there is inadequate JKW signage located on this side of the holding cell.		It is recommended that the rebar be relocated to an alternative location and that additional signage be installed along the holding cell fencing that runs adjacent to the access road.	<p>Site ecologist reports that additional signage is to be erected and rebar to be relocated on 06/12/24.</p> <p>Delays are accepted as not ideal by SCE. Non urgent in this circumstance so actioned when personal and machinery were available to carry out action.</p> <p>While this timeline is not ideal, the issue is non urgent and therefore the delay</p>
11.6	15/11/24	Storage of Eurofins contaminated material at Sallybrook is inadequate. There are indications of encroachment by wheeled vehicles into the stockpile. There are also signs of wash-out / run-off as surface water is accessing the contaminated stockpile.		Improve the temporary storage of this hazardous material until such time as it is removed off site.	<p>Removal and disposal of material commenced 25/11/24 by ENVA.</p> <p>Remaining material awaiting removal covered and bunded.</p>



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11.7	15/11/24	Pumping of groundwater at the Hazelwood Bridge overflow culvert works area was carried out without a silt sock attached to the outlet of the hose, as per the conditions outlined in the Permit to Pump. Additionally, no sump was in use during the dewatering of excavations, which should have been implemented to minimise sediment generation.	 	<p>Given the reduced presence of the ecologist on-site, what measures are being implemented to ensure the conditions of the pumping permits are adhered to and properly enforced?</p> <p>Ensure that pumping is carried out in accordance with the conditions outlined in the Permit to Pump and the Work Requirements to minimise the</p>	<p>The site ecologist reports that in the absence of a Site Ecologist, the Site Foremen and Engineers are intrusted to issue and enforce the Permit to Pump (PtP) Water as required.</p> <p>The site ecologist reports that a refresher toolbox talk is to be provided regarding the PtP.</p>


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				generation of silt during excavation dewatering.	
11.8	15/11/24	Hazelwood bridge overflow culvert works area: The concrete pour conducted the previous day suggests that seepage of wet concrete into the open dewatering area, which was located directly adjacent to the concrete slab being poured, likely resulted in the pumping of cementitious material.		<p>As it is now after event, review Permit to Pump procedures and how they are implemented.</p> <p>How can it be ensured that there will not be a repeat to this event?</p> <p>It is suggested that ground personnel receive a toolbox talk instructing on the correct procedures</p>	The site ecologist reports that a refresher toolbox talk is to be provided regarding the PtP.

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				when dewatering excavations and dewatering while concrete pouring.	
11.9	15/11/24	Meadowbrook temporary slipway: As noted in the previous Environmental Tour (ET019), Item 11, although the waste material has been removed from this area, the work was completed without implementing the required biosecurity measures.		Indications suggest that the material removed is likely contaminated with Japanese Knotweed. Where is the waste material currently located? Why were biosecurity measures not implemented during this work?	The site ecologist reports that material was removed on 30/10/24. The material was gradually scraped away and checked for the presence of rhizomes by the Site Ecologist. The material was disposed of offsite without evidence of knotweed infestation.

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11.10	22/11/24	Storage of Eurofins contaminated material at Sallybrook lacks bunding on the side nearest the access road. The material is also exposed on top.		Bund and recover over contaminated material with black plastic sheeting until ready for transport off-site.	Site ecologist reports that the removal and disposal of material commenced 25/11/24. Remaining material banded and covered while awaiting removal.
11.11	22/11/24	Housing keeping at Sallybrook. Construction waste material has potential to access the adjacent watercourse and spread off-site.		Clean up waste asap to avoid possible waste spreading.	Site ecologist reports that to be completed on 06/12/24.
11.12	22/11/24	Grandons drainage works (next to Centra) Pumping operations were being conducted without silt mitigation measures in place. Additionally, a Permit to Pump was not available for inspection when requested from the grounds crew; one was later issued by an engineer. This is contrary to the CEMP (Rev5), which specifies that the Permit to		Implement site specific silt mitigation at this location while pumping continues. Please inform the ER how the permit of pump system will operate going	Site ecologist reports that a permit to pump was issued on 22/11/24. Permit issued shortly after pumping had commenced. The site Ecologist will be contacted to prepare permits as required. Site Foremen and Engineers also entrusted to sign off on permits.

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		Pump should be designed and implemented by the site ecologist.		forward when pumping is required when no site ecologist is on site?	
11.13	22/11/24	The hoarding installed as part of the otter mitigation measures at Meadowbrook estate, as directed by the otter specialist, is being encroached upon and is partially compromised. Clarity was sought to make absolutely sure that no otter were present in the nearby holts.	 	An update was requested.	No otters have not used the potential holts during monitoring in this area therefore do not require the hoarding in place for the completion of works at this location.

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11.14	22/11/24	At Meadow Brook Estate, the recent removal of the wall has resulted in damage to several tree limbs in the adjacent treeline.		<p>What measures were taken to avoid causing damage to the trees during the removal process?</p> <p>The damaged limbs should be cleanly cut with a saw to promote the health of the trees and minimise the visual impact of the damage.</p>	<p>Site ecologist reports that this will be completed 06/12/24.</p> <p>The protection of trees is a requirement for contractors. In this instance, the works would have been significantly improved with ecological supervision, which regrettably did not occur.</p>
11.15	22/11/24	During concrete pouring at the Brooklodge culvert parapet walls, concrete waste was improperly deposited, creating a risk of runoff into the Glenmore River. The waste had direct access to the		<p>Greater care must be taken when pouring concrete, particularly in close proximity to watercourses,</p>	<p>The site ecologist reports that a refresher toolbox talk to be provided Thu 12/12/24.</p>

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		watercourse, posing potential environmental risks.		to prevent environmental contamination and protect aquatic ecosystems. The concrete waste should be transported to the designated Waste Storage Area and securely contained until appropriate disposal arrangements are made.	

Appendix A. Sorensen's October Environmental Audit. Dated 26/10/24 To 29/11/24.

This month's audit adequately covered the primary environmental concerns aimed at alignment with project standards and environmental obligations.