

SORENSEN

Monthly Site Environmental Audit

**INVASIVE
PLANT
SPECIES
AREA**

**SPILL CONTROL
OIL
ABSORBENT
GRANULES**



Glanmire Flood Relief Scheme

28/09/2023 To 27/10/23

Details

Project:

Glanmire Flood Relief Scheme

Auditor:

Tim Field

Audit Period:

October

Locations Audited: All site.

Week Commencing 2nd October

Comments/Observations

- Permit to pump system implemented across the site, permit system in place to better control pumping activities across the project. (see photo 1)
- Tree felling continuing AT Meadowbrook estate – Permit to clear vegetation in place for this activity and signed off by ECoW (See photo 2).
- Concrete poured at Bleach hill culvert works, ECoW supervision in place and pH monitoring of the water continuing during the pour. pH remaining stable at 8.1
- Review of Knotweed exclusion zone deemed unsatisfactory – Action to improve the exclusion barriers in this zone (See photo 3)
- Oil spill occurred on Thursday 5th by the tree surgeon supply chain partner, spill originating from a failure in a hydraulic hose. Emergency spill response plan deployed and the spill was contained with absorbent granules. Road sweeper deployed to clean up any residual oil from the public highway. (See photo 4 & 5)

Week Commencing 9th October

Comments/Observations

- Pumping activities continuing at Bleach hill to complete the in stream works under extension for in stream works.
- Pumping activities continuing at Sallybrook under Permit to pump – Settlement tank in place to remove silt from the water. Water discharging over ground at the rear of Sallybrook house which caused the discharging water to pick up more silt. Pumping was stopped and control measures reviewed with stone being placed at the discharge point to prevent eroding of the ground and silting of the water. (see photo 6)
- Tree felling continuing at Meadowbrook, Ivy covered trees were removed under ECoW and placed on the ground for over 48 hours. (see photo 7)
- Backfilling at Bleach hill continuing to complete the works in this area – no ecological or environmental impact observed during these activities. Stone placed in the culvert was replaced with the correct stone.
- Incorrect storage of waste drums in Area 1 compound (see photo 8)
- Flood event occurred on Wednesday 11th of October. Flooding overtopped the temporary sheet piles around the back of Sallybrook house – Floodwaters were allowed to escape via a designed channel released back into the river, mitigating the risk of trapping fish behind the sheet piles, area was assessed by the ECoW and confirmed that no fish were stranded behind the sheet piles. (see photo 9)

ENVIRONMENTAL AUDIT

- Otter derogation license has been extended to the end of December 2023. Ongoing monitoring of the holts is being undertaken by specialist consultant.
- Tree mulching at site compound in area has finalised, with full biosecurity measures implemented (Washdown of machinery etc.) (See photo 10, 13, 14, 15).

Week Commencing 16th October**Comments/Observations**

- Concrete poured at Sallybrook manholes, pH recorded above the threshold for pH (9.3) so water was not pumped. Water was tinkered and discharged over ground to prevent elevated pH water entering the watercourse.
- Storm Babat hit on Wednesday the 18th, causing extensive flooding across the project. Emergency response allowed for the prevention of a lot of flooding to the Hazelwood shopping center.
- Recovery/ clean up works following the flooding events for the rest of the week.
- Oil boom remains in river by Eurofins/Sallybrook house – to be removed.
- Otter holt monitoring cameras have been damaged during the flood event of storm Babet, cameras will be replaced and monitoring will recommence when cameras are available.

Week Commencing 23rd October**Comments/Observations**

- Drainage works move into JK exclusion zone this week. Area to be closed off once plant is in, plant to remain in exclusion zone for duration of works, plant to be power washed once works completed. Record sheet to be signed.
- Sondes off hired Fri 27th. Handheld monitor on site to record water discharges.
- Fencing placed beside otter holt N6 exclusion zone. Derogation licence in place.
- Tree banded in front of Sallybrook House – Action to remove the bund from under the canopy of the tree to prevent the suffocating of the tree.
- Riverbank erosion at Bleach hill. + damaged/unstable tree. – Area to be assessed over the winter months and decision to be made on any corrective actions needed during the in season works.
- TBT given on working in areas with Japanese Knotweed and on the Permit to Pump water process.
- Knotweed exclusion zone in area 1 compound has improved. (See photo 11 & 12)

Ecological Licenses Schedule

Comments/Observations

GFRS – Ecological Licences

| <u>Ecological Feature</u> | <u>Licence Type</u> | <u>Status</u> | <u>Start Date</u> | <u>Expiry Date</u> |
|---------------------------|---------------------|------------------------|-------------------|--------------------|
| Badgers | Derogation | Not Required | N/A | N/A |
| Bats | Derogation | Not Required | N/A | N/A |
| IAPS | Transport - JKW | Active | 31/08/2023 | 31/12/2023 |
| Otters | Derogation | Active – Holts N2 & N6 | 28/08/2023 | 31/12/2023 |

Environmental Look Ahead

Comments/Observations

Works for the month ahead will entail the following from an environmental perspective.

- Pumping of water across project will remain to be an environmental risk on the project. Permit to pump water has been implemented and is being used across the project and will continue.
- Works in Hazelwood shopping center will commence with topsoil stripping. Silt runoff mitigation will be assessed and implemented where required.
- Water samples at the drainage at Grandon's station will be taken and results submitted to the ER for interpretation.
- Bat boxes will be procured and placed in strategic location as per the requirements of the specification and in consultation with the ER ECoW.
- A sample plan will be undertaken for material to be removed from Pat O Donnell's yard to determine the extent and location of any potential contamination at the site.
- Erosion protection matting will be placed on any exposed surfaces to prevent soil degradation and silt runoff.
- Spill response refresher training to be organised in the coming month for site operatives.

ENVIRONMENTAL AUDIT

| Action | Assigned to | Action Close Out Date |
|--|-------------|-----------------------|
| Sample plan of material to be excavated at Pat O Donnell's | TF/SD/MW | 30/11/23 |
| Spill response training to be organized | TF/SD | 30/11/23 |
| Erosion Matting to be placed on exposed soil | TF/SD/MB | 15/11/23 |
| Bund around tree in Sallybrook to be removed from under the canopy | MB | 03/11/23 |
| Further signage required for the knotweed area in area 1 compound | MD/TF | 10/11/23 |
| Remove oil boom from river | MB | 10/11/23 |
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| Audit Acceptance/Sign-Off | |
|---------------------------|-------------------------------|
| Auditor Signature | Site Representative Signature |
| T. Field | J. O'Sullivan |

Space provided on following pages for Images

Photo 1

Caption 1 Section

Example of Permit to Pump

Photo 2

Caption 2 Section

Example of Permit to Clear Vegetation

Photo 3



Caption 3 Section

Unsatisfactory management of Japanese Knotweed Exclusion Zone

Photo 4



Caption 4 Section

Emergency spill response at New Line Road (5th Oct) Spill contained with absorbent granules and drains banded.

Photo 5



Caption 5 Section

Contaminated granules removed by hand and double bagged for disposal.

Photo 6



Caption 6 Section

Stone placed at Sallybrook discharge point to prevent eroding of ground and silting of water.

Photo 7



Caption 7 Section

Ivy-covered tree felled 10th Oct – left on ground until 13th Oct.

Photo 8



Caption 8 Section

Incorrect storage of waste drums – Area 1 compound

Photo 9



Photo 10



Caption 9 Section

Caption 10 Section

Designated flow out channel dry after overtopping event (11th Oct) no fish trapped. Image taken morning of 12 Oct.

Cut tree material mulched into Area 1 JK exclusion zone

Photo 11



Photo 12



Caption 11 Section

Caption 12 Section

JK exclusion zone demarcation improved (refer to photo 3 above)

JK exclusion zone demarcation improved (refer to photo 3 above)

Photo 13



Caption 13 Section

Wash down of mulcher exiting JK area

Photo 14



Caption 14 Section

Washdown of tractor exiting JK area

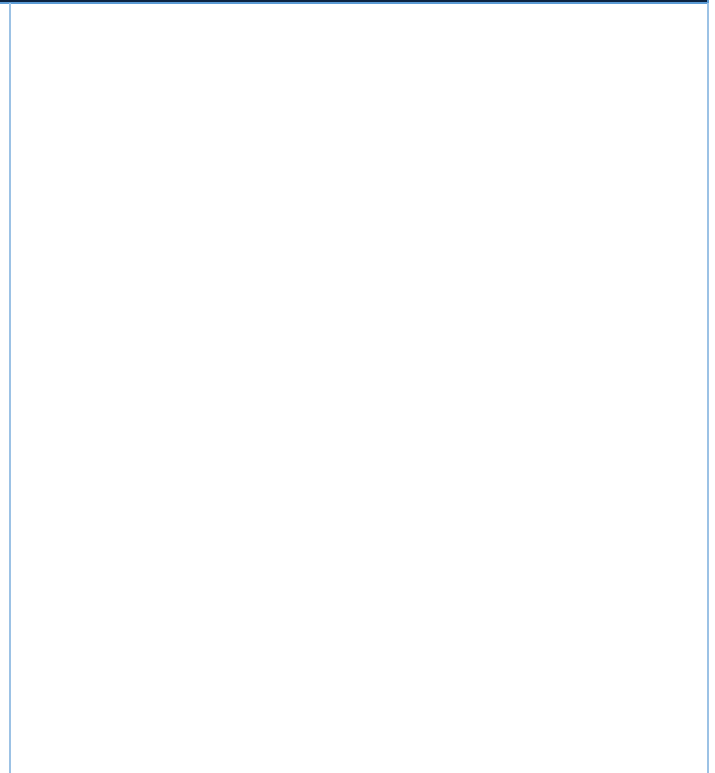
Photo 15



Caption 15 Section

Washdown of bucket used in JK area.

Photo 16



Caption 16 Section

