## Progress Report STP 2021-038 (FY 2020-2021)

# Environmental DNA as a tool to monitor fish movement in the Canning River

### Ecosystem Science

### Project Core Team

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| **Supervising Scientist** | Josie Hyde |
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### Project status as of May 16, 2022, 10:53 a.m.

Approved and active

### Document endorsements and approvals as of May 16, 2022, 10:53 a.m.

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|---|---|
| **Project Team** | granted |
| **Program Leader** | granted |
| **Directorate** | required |

# Environmental DNA as a tool to monitor fish movement in the Canning River

J Hyde, S Thompson

## Progress Report

This project investigates the potential of eDNA to monitor fish in the Canning River. It will compare fish assembly data from (1) traditional fyke netting, (2) active filtration eDNA, and (3) passive eDNA to explore the sensitivity of eDNA survey techniques and the role that barriers play in limiting distribution of feral fish. It is hypothesised that eDNA will detect the same range of fish species as fyke netting and will have a greater sensitivity in detecting species in low densities. This research will further the development of an eDNA monitoring protocol to complement traditional methods, leading to the potential for improved stewardship of biodiversity in waterways.

Ten sites, spaced between dams and weirs, were surveyed in April 2021. DNA extractions are complete and PCR analysis and sequencing are underway.