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| **1. PROJECT DETAILS** | | | |
| **Project name** | Instrumentation and observation package for improving model frameworks | | |
| **DBCA project number** | RSP16UWA03 | | |
| **Funding recipient** | University of Western Australia | | |
| **Project contact** | Dr Matt Hipsey | | |
| **Project partners** | Dept of Biodiversity Conservation and Attractions; University of Western Austalia | | |
| **Project objectives** | Specific objectives of this project are to:   1. Improve our understanding of process variability across biogeochemical ‘hot-spots’ within the Swan Canning estuarine system; 2. Improve performance of the SCERM by resourcing and installing equipment that will provide enhanced spatiotemporal resolution for key water quality data (e.g.: dissolved oxygen, PAR, CDOM, turbidity) collected in the Swan Canning estuary. 3. Use the high frequency datasets and improved understanding of the Swan Canning estuary water quality dynamics to guide the further development of the SCERM. | | |
| **Scheduled start date** | 1 June 2017 | **Actual start date**: |  |
| **Scheduled completion date** | 30 June 2020 | | |
| **Funding allocated (Ex GST)** | $100,000 (DBCA); $15,317 (DBCA in-kind salary); $126,195 (UWA in-kind); $50,000 (UWA – cash) | | |
| **Name of person completing this report** | Dr Matt Hipsey | | |

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| **2. BUDGET DETAILS AND DELIVERABLES** | |
| **2a. Summary of Project Funding** | | |
| **Please report on expenditure for this project.** | | |
| **Total funding allocated (Ex GST)** | $100,000 | |
| **Total funding spent to 31/12/2016 (Ex GST)** | $ | |
| **Remaining Funds 31/12/2016 (Ex GST)** | $ | |

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| **2b. Project variation across budget and/or milestones** |
| Please check the milestones in your collaborative arrangement. Do you need to seek a variation of milestones? Yes 🞎 No 🞎 |
| If yes, please provide details and reason for the request below: |
| Current milestone –  Varied milestone – |
| Reason and implications: |

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| 2c. Project Milestones (please refer to the Contract Letter / Collaborative Arrangement for your project) | | | | | | | | |
| Milestones | Activity | Due date | Progress towards milestones(inc. details on key achievements, dot points acceptable) | Behind | **On- track** | Completed | Not completed |
| Project Start | Funded PhD student enrolled | **31 January 2018** |  |  |  |  |  |
| Project development | Scope and develop a project that utilizes access to a flow cytometer to provide information useful to understanding the algal dynamics of the Swan Canning Riverpark and can be used to improve the SCERM | Draft **2 July 2018**  Final accepted PhD proposal – **August 2018** |  |  |  |  |  |
| Equipment establishment | Purchase, install and maintain two telemetered monitoring stations at agreed locations to deliver year-round data. | **1 January 2019** (ongoing) |  |  |  |  |  |
| Establish a framework for the sharing of data generated by the instrumentation. | **1 December 2018** |  |  |  |  |  |
| Project meetings | Researchers to meet with Departmental representatives (and other stakeholders where appropriate) to provide project updates, seek input and discuss operational and management requirements | **February 2018** |  |  |  |  |  |
| **May 2018** |  |  |  |  |  |
| **October 2018** |  |  |  |  |  |
| **May 2019** |  |  |  |  |  |
| **October 2019** |  |  |  |  |  |
| **May 2020** |  |  |  |  |  |
| **October 2020** |  |  |  |  |  |
| Thesis | Deliver research thesis (1 hardcopy & 1 pdf) reporting on all aspects of the project including data generation and interrogation, identification of key hotspots for ongoing high frequency data collection, critical parameters of importance and an empirical assessment of the benefit the project has provided in terms of improvement in SCERM accuracy. | Draft – **November 2020** |  |  |  |  |  |
| Final – **March 2021** |  |  |  |  |  |
| Data management | Ensure all data collated as part of the project has been provided to the Department, including a metadata statement. | Prior to project completion |  |  |  |  |  |
| Oral Presentation | Provide an oral presentation of project results and implications to the Department and other appropriate partners. | TBA |  |  |  |  |  |
| Value-add to Swan Canning research | Prepare grant proposals (e.g. ARC-LIEF; ARC-Linkage) to build on current investment, progress understandings of the Swan Canning and further the development and application of the SCERM | December 2018 |  |  |  |  |  |
| December 2019 |  |  |  |  |  |

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| **3. ADDITIONAL INFORMATION** |
| If you have any additional information or comments that you wish to include in this report please include it in the box below (please feel free to include a summary of results-to-date; attachments welcome): |
| Last project variation was in January 2018 |

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| 4. REPORT VERIFICATION | | | | |
| Please complete the section below to verify the details contained in this report. | | | | |
| **The information provided in this report and attachment (if applicable) is a true and accurate record:**  Dr Matt Hipsey | | | | |
| Project Manager (Name) |  | Project Manager (Signature) |  | Date |
|  |  |  |  |  |
| Deputy Vice Chancellor of Researchor representative (Name / Title) |  | Deputy Vice Chancellor of Researchor representative (Signature) |  | Date |

***Thank you for completing this report***

Please contact Dr Kerry Trayler on 9278 0955 if you would like more information

regarding this report.

**Please return the completed signed report and any attachments to:**

Department Biodiversity, Conservation and Attractions

Rivers and Estuaries Division

Locked Bag 104

BENTLEY DELIVERY CENTRE WA 6983

**or**

[kerry.trayler@dbca.wa.gov.au](mailto:kerry.trayler@dbca.wa.gov.au) (cc: [jeff.cosgrove@dbca.wa](mailto:jeff.cosgrove@dbca.wa).gov.au)

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| ***Rivers and Estuaries Division internal use only*** |
| Comments and recommendations:  Project manager name and signature: *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* Date:\_\_\_\_\_\_\_ |