

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**RHODES UNIVERSITY SUSTAINABLE LAND MANAGEMENT FOR RURAL RESILIENCE PROJECT (RU-SLMRR), GEF5**

**QUARTERLY PROGRESS REPORT**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Report compiled by**: Dugal Harris

**Organization**:

**Quarter and year**: 032017

**Reporting outputs**: 3.1b

**Date of report:** 28082017

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# INSTRUCTIONS

# Please refer to Sections A-E below and include the necessary information and attachments to document your progress toward one or more outputs of the GEF5 SLMRR Project (use the examples provided to guide you).

# Please submit your completed progress report on or before the 12th day of the final month of a particular quarter. This is according to reporting regulations set by Department of Environmental Affairs for the GEF5 SLM Project.

# Please submit your report to: Rebecca Powell (rebeccajoub@gmail.com) and cc James Gambiza (j.gambiza@ru.ac.za).

# SECTION A: OUTPUTS PROGRESS & CHALLENGES (Please complete columns A-F in the table below)

**\***Progress toward achieving planned activities indicated in column C.

**\*\*** Challenges to achieving progress on activities, as identified in columns C and D

| AOutput code | BYR1 goals (deliverables) | CPlanned activities for reporting quarter | DProgress\*1 = completed, no concerns; 0.5 = partial progress, some concerns; 0 = no progress, major concerns | EChallenges\*\* | FAddressing challenges |
| --- | --- | --- | --- | --- | --- |
| 3.1b | Report on the development of a new carbon methodology for Spekboomveld rehabilitation projects and applicability to these kinds of projects | 1) Basic literature survey of remote sensing of biomass with multi-spectral imagery2) Identify appropriate satellite image(s) for 2005 Baviaanskloof carbon stock ground truth (“2005 CS GT”) area3) Field trip to gather sub-meter ground control points (GCP’s) for orthorectification and validation of satellite image4) Acquire Quickbird satellite image of 2005 CS GT area5) Orthorectify and radiometrically correct Quickbird satellite image6) Conduct preliminary regression analysis on 2005 CS GT and corrected Quickbird satellite image7) Basic literature survey for carbon stock inventory8) Review standard operating procedure (SOP) for GEF5 carbon stock inventory9) Generate plantable area map for GEF Baviaanskloof study sites | 1) 12) 13) 14) 15) 0.56) 0.87) 18) 19) 1 | 2) Limited to pre 2005 imagery due to destructive sampling conducted 2005 and onwards. Only partial coverage of 2005 CS GT area was possible. Limited resolution of available satellite sensors for pre 2005 time frame.3) Land cover changes between present and date of image (2003) were unknown, making it difficult to identify landmarks that would have existed at the time of imaging. There were limited landmarks clearly distinguishable on the ground and in the aerial imagery.4) Initially Digital Globe provided the wrong image processing level (2A), preventing accurate orthorectification.5) Digital Elevation Model (DEM) inaccuracies impacted orthorectification accuracy and prevented precise | 2) Identified a compromise area containing a substantial portion of the 2005 plots that was covered by a 2003 Quickbird image3) More GCP’s than necessary were gathered and invalid ones discarded after acquiring and analysing the Quickbird image.4) A replacement level 1B image was subsequently obtained, allowing the best possible orthorectification. |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

# SECTION B: IDENTIFIED RISKS AND SOLUTIONS

# Describe the identified risks to the project outputs

# *Examples:*

# *There is a potential for no buy-in to project by communal farmers after several months of engagement. Project activities will need to be moved elsewhere (commercial land) which will result in time delays.*

# *Equipment may be stolen or trained personnel may fall ill during carbon baseline assessment which will precipitate budget and time constraints on achieving the output.*

# Describe possible solutions to identified risks

# *Examples:*

# *Will place a defined engagement period of 6 months for engagement and buy-in to GEF5 project related activities by local communities. If there is no buy-in after this time period then will begin engagement with commercial farmers.*

# *Identify back-up personnel with skills to be able to implement field work if others should fall ill. Set protocols for handling and storing equipment in and out of the field.*

# SECTION C: SUMMARY OF LESSONS LEARNT DURING THE REPORTING QUARTER

# *Example:*

# *Engagement with stakeholders around land rehabilitation needs to be at a household level as the leaders of the community are not communicating well with household level stakeholders.*

# SECTION D: BUDGET TRACKING

# Please note that you will be required to submit a financial report at the end of 2017 (Before December) detailing your expenditure for the year. This requires that you keep a record of all invoices and receipts relating to project expenditure. The format for the report will be sent closer to the time.

**SECTION E: APPENDICES**

**APPENDIX 1:** *e.g. Minutes of expert workshop held on planting protocols (include one or two photographs and an attendance register if possible)*

**APPENDIX 2:** *e.g. Raw carbon baseline data collected for 50 ha on communal farms in Baviaanskloof (include map of where data was collected)*

**APPENDIX 3:** *Photos, maps anything to justify or prove your activities and expenditure.*

**APPENDIX 4**