

REVISION AND EXTENSION TO VM0007: REDD+ METHODOLOGY FRAMEWORK FIRST ASSESSMENT REPORT





Document Prepared By: Aster Global

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Version	1.6	
	Methodology	
Methodology Category	Methodology Revision	Х
	Module	
	Tool	
Sectoral Scope(s)	Agriculture, Forestry and Land Use	

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Summary:

Aster Global was commissioned by Restore America's Estuaries to perform the first methodology revision assessment of the revision and extension of VM0007 REDD Methodology Modules in accordance with the VCS Methodology Approval Process, VCS Standard, VCS Program Guide and the VCS AFOLU Requirements.

The VM0007 methodology provides a series of modules and tools which form the basic framework for a complete REDD baseline and monitoring methodology. It now includes and integrates modules for Restoring Wetland Ecosystems (RWE) projects and Conservation of Intact Wetlands (CIW) in coastal areas. Identification of the most plausible VCS eligible activity is guided by a decision tree located in the REDD+MF module, which provides the overarching structure for the implementation of the VM0007 Methodology.

The purpose and scope of the methodology element first assessment was to evaluate whether or not the revisions to the methodology elements were prepared in line with VCS program requirements. ASTER GLOBAL's assessment included a detailed review of changes related to the new RWE elements with regard to eligibility criteria, baseline approach, additionality, project boundary, emissions, leakage, monitoring, data and parameters, adherence to the project level principles of the VCS program (relevance, completeness, consistency, accuracy, transparency and conservativeness). ASTER GLOBAL's assessment also included a detailed analysis of the methodology, literature reviews, technical reviews and Restore America's Estuaries' (RAE) responses to all non-conformity reports (NCRs) clarifications (CLs) and opportunities for improvement (OFIs).

The ASTER GLOBAL's assessment team identified 47 NCRs/CLs/OFIs. All were addressed satisfactorily by Restore America's Estuaries. These NCRs and CLs provided necessary clarity to ensure that the methodology was in compliance with VCS rules and requirements.

ASTER GLOBAL confirms all methodology assessment activities, including objectives, scope and criteria, level of assurance and the methodology adherence to the VCS Program and VCS Standard Version 3.7, as documented in this report, are complete. ASTER GLOBAL concludes without any qualifications or limiting conditions that the revised methodology element (VM0007 REDD Methodology



Modules) meets the requirements of VCSA. ASTER GLOBAL recommends that VCSA approve the revisions to the methodology element.

Table of Contents

1	Intro	duction	6
	1.1	Objective	6
	1.2	Summary Description of the Methodology	6
2	ASS	ESSMENT APPROACH	6
	2.1	Method and Criteria	6
	2.2	Document Review	7
	2.3	Interviews	7
	2.4	Assessment Team	. 12
	2.5	Resolution of Findings	. 14
3	ASS	ESSMENT FINDINGS	. 15
	3.1	Relationship to Approved or Pending Methodologies	. 16
	3.2	Stakeholder Comments	. 16
	3.3	Structure and Clarity of Methodology	. 24
	3.4	Definitions	. 24
	3.5	Applicability Conditions	. 24
	3.6	Project Boundary	. 29
	3.7	Baseline Scenario	. 30
	3.8	Additionality	. 31
	3.9	Quantification of GHG Emission Reductions and Removals	. 32
	3.9.1	Baseline Emissions	. 32
	3.9.2	Project Emissions	. 33
	3.9.3	Leakage	. 34
	3.9.4	Net GHG Emission Reductions and Removals	. 35
	3.10	Monitoring	. 36



VCS VERIFIED METHODOLOGY ELEMENT ASSESSMENT REPORT: VCS Version 3

4	Assessment Conclusion	38
5	report reconciliation	39
6	evidence of fulfilment of VVB eligibility requirements	39
7	Signature	39
Apı	pendix A – NCRs/CL/OFIs	41



1 INTRODUCTION

1.1 Objective

This methodology first assessment was performed to evaluate the likelihood that implementation of the methodology, would result in accurate calculations and appropriate eligibility criteria for GHG emission reduction/removal (ISO 14064-3:2006). This report summarizes the findings of the first methodology assessment of the Verified Carbon Standard (VCS) double approval process for a methodology element framework, hereafter referred to as the "Methodology" and consisting of individual methodology components, hereafter referred to as "Modules". Restore America's Estuaries., referred to as the "Methodology Developer", has commissioned Aster Global Environmental Solutions, Inc. (Aster Global), referred to as the "Assessment Team" to perform an assessment of revisions

to the VM0007 Methodology and associated Modules.

This report presents the findings of a qualified assessment team of auditors and experts in methodologies for GHG emissions or who have assessed the methodology and modules for compliance under the applicable rules of the Verified Carbon Standard. Section 3 below provides the assessment methods and criteria. Section 2.5 presents summary findings of the methodology assessment and Appendix B provides details of individual findings.

1.2 Summary Description of the Methodology

The VM0007 methodology provides a series of modules and tools which form the basic framework for a complete REDD+ baseline and monitoring methodology. The modules and tools were developed to work together for the purpose of quantifying GHG emission reductions and removals from avoiding unplanned (AUDD) and planned deforestation (APD), as well as afforestation, reforestation and revegetation activities (ARR), and for activities which occur on peatlands and are combined with peatland rewetting or conservation (WRC). The recent updates incorporate restoring tidal wetland ecosystem (RWE) projects and conserving tidal wetland ecosystem (CIW) projects into the REDD framework. Identification of the most plausible VCS eligible activity is guided by a decision tree located in the REDD+MF module which provides the overarching structure for implementation of the VM0007 Methodology.

2 ASSESSMENT APPROACH

2.1 Method and Criteria

This assessment is based upon standard auditing techniques in line with VCS Requirements to assess the correctness of the information provided. In accordance with VCS rules, a methodology assessment encompasses applicability conditions, project boundary, procedure for demonstrating additionality, procedure for determining baseline scenario, baseline emissions, leakage, quantification of net GHG emission reduction and/or removals, monitoring, data and parameters, and relationships to approved or pending methodologies. Per section 6.2 of the Methodology Approval Process, the scope of this methodology revision assessment encompassed the revised modules as well as how they fit into the broader VCS VM0007 Methodology. Further, the assessment team evaluated whether any provisions of the methodology might have impacted by



the proposed revisions.

The guidance documents used to assess the methodology revision were the:

- VCS Program Guide (v3.7 21 June 2017)
- VCS Standard (v3.7 21 June 2017)
- Program Definitions (v3.7 21 June 2017)
- Methodology Approval Process (v3.7 21 June 2017)
- Agriculture, Forestry and Other Land Use (AFOLU Requirements (v3.6 21 June 2017)
- AFOLU Non-Permanence Risk Tool (v3.3 19 October 2016)
- VM0007 REDD Methodology Modules (REDD MF) (revisions being made to v1.5)

2.2 Document Review

Documents received 22 February 2017

- ADD-AM v1.0 public comment.docx
- BL-TW v1.0 public comment.docx
- M-TW_v1.0_public comment.docx
- VM0007 REDD+MF_v1.6_public comment.docx
- VMD0007 BL-UP v3.3 public comment.docx
- VMD0016 X-STR_v1.2_public comment.docx
- VMD0017 X-UNC v2.2 public comment.docx
- VMD0041 BL-ARR_v1.1_public comment.docx
- VMD0045 M-ARR v1.1 public comment.docx

Documents received 27 March 2017

- SG export.shx
- Butt thesisUPDATE.docx
- MG export.cpg
- MG export.dbf
- MG export.prj
- MG export.sbn
- MG export.sbx
- MG export.shp
- MG export.shp.xml
- MG export.shx
- MPAS export.cpg
- MPAS_export.dbf
- MPAS export.prj
- MPAS_export.sbn
- MPAS export.sbx
- MPAS export.shp
- MPAS_export.shx



- SG_export.cpg
- SG export.dbf
- SG_export.prj
- SG export.sbn
- SG_export.shp
- SG export.shp.xml
 - o 01 Data
 - WCMC027 Metadata v4.SOURCE ID.atx
 - 14 001 WCMC027 Saltmarsh pt v4.CPG
 - 14_001_WCMC027_Saltmarsh_pt_v4.dbf
 - 14 001 WCMC027 Saltmarsh pt v4.prj
 - 14 001 WCMC027 Saltmarsh pt v4.sbn
 - 14 001 WCMC027 Saltmarsh pt v4.sbx
 - 14 001 WCMC027 Saltmarsh pt v4.shp
 - 14 001 WCMC027 Saltmarsh pt v4.shp.xml
 - 14 001 WCMC027 Saltmarsh pt v4.shx
 - 14 001 WCMC027 Saltmarsh py v4.CPG
 - 14_001_WCMC027_Saltmarsh_py_v4.dbf
 - 14_001_WCMC027_Saltmarsh_py_v4.prj
 - 14_001_WCMC027_Saltmarsh_py_v4.sbn
 - 14 001 WCMC027 Saltmarsh py v4.shp
 - 14 001 WCMC027 Saltmarsh py v4.shx
 - WCMC027 Metadata v4.cpg
 - WCMC027 Metadata v4.dbf
 - WCMC027 Metadata v4.dbf.xml

Documents received 08 May 2017

• ACR AR of Degraded Lands v1.2M.pdf

Documents received 16 May 2017

- VMD0045 M-ARR v1.1 ESI RD1 20170515.docx
- Mayer 1994 Surface area control of organic carbon accumulatio.pdf
- VCS-VMD0013-Estimation-GHG-Emissions-Biomass-Peat-E-BPB-2015-1.pdf
- 052 RAE-Silvestrum VCS Round 1 Findings Final 20170515.xlsx
- ADD-AM_v1.0_ESI RD1_20170515.docx
- \BL-TW v1.0 ESI RD1 20170515.docx
- M-TW v1.0 ESI RD1 20170515.docx
- VM0007 REDD+MF v1.6 ESI RD1 20170515.docx
- VMD0016 X-STR v1.2 ESI RD1_20170515.docx
- VMD0017 X-UNC v2.2 ESI RD1 20170515.docx
- VMD0041 BL-ARR v1.1 ESI RD1 20170515.docx



Documents received 26 June 2017

- VMD0045 M-ARR v1.1 ESI RD2 20170609.docx
- 052 RAE-Silvestrum_VCS_Round 2 Findings Final 20170626 DRAFT.xlsx
- VM0007 REDD+MF v1.6 ESI RD2 20170612.docx
- VMD0013 E-BPB v1.1 ESI-RD2 20170612.docx
- VMD0016 X-STR v1.2 ESI RD2 20170613.docx
- VMD0017 X-UNC v2.2 ESI RD2 20170613.docx

Documents received 11 July 2017 (Public comments from VCS site)

- Questions methoology VM0007.pdf
- WILDCOAST comments for VM0007 revision 0.pdf

Documents received 12 July 2017

VMD0045 M-ARR v1.1 ESI RD2 20170613.docx

Documents received 13 July 2017 – VCS Responses

- Response to Wildcoast.docx
- Response to South Pole.docx

Documents received 19 July 2017-VCS Responses

- Response to Wildcoast.docx
- Response to South Pole v2.docx

Documents received 24 August 2017 – VCS Responses

- VMD0045 M-ARR v1.1 ESI RD2 20170613 AS.docx
- 052_RAE-Silvestrum_methvalreport_FINAL_v1_AS.pdf
- ADD-AM v1.0 ESI RD1 20170515 AS.docx
- BL-TW v1.0 ESI RD1 20170515 AS.docx
- M-TW_v1.0_ESI RD1_20170515_AS.docx
- VM0007 REDD+MF v1.6 ESI RD2 20170612 AS.docx
- VMD0007 BL-UP v3.3 public comment AS.docx
- VMD0013 E-BPB v1.1 ESI-RD2 20170612 AS.docx
- VMD0017 X-UNC v2.2 ESI RD2 20170613 AS.docx
- VMD0041 BL-ARR v1.1 ESI RD1 20170515 AS.docx



Documents received 13 September 2017 -VCS Responses

• RAE Meth Report-Post VCS.docx

Documents received 22 September 2017-VCS Responses

• RAE Meth Report-Post VCS 2 2.docx

Documents received 02 March 2020

- M-TW v1.0 SCS RD2 28FEB2020.docx"
- VM0007 REDD+MF v1.6 SCS RD2 02MAR2020.docx"
- BL-TW v1.0 SCS RD2 28FEB2020.docx"

Documents received 03 April 2020

- VMD0013 E-BPB v1.1 03JAN2020.docx"
- VMD0015 M-REDD, v2.1 RD2 SCS 28JAN2020.docx"
- VMD0017 X-UNC v2.2 ESI RD2 27SEP2017 RD1 15DEC2017.docx"
- VMD0042 BL-PEAT v1.0 SCS RD2 23MAY2019.docx"
- VMD0044 LK-ECO v1.0 RD2 26JUL2018.docx"
- VMD0046 M-PEAT v1.0 SCS RD2 08NOV2019.docx"
- X-STR 2nd val changes.docx"
- ADD-AM v1.0 ESI RD1 27SEP2017 SCS RD1 15DEC2017.docx"
- BL-ARR 2nd val changes.docx"
- BL-PL 2nd val changes.docx"
- BL-TW 2nd val changes.docx"
- BL-UP 2nd val changes.docx"
- M-ARR 2nd val changes.docx"
- M-TW 2nd val changes.docx"
- OneDrive-2020-04-07.zip"
- REDD+ MF 2nd val changes.docx"
- VMD0009 LK-ASP v1.2_RD2 SCS_17APR2019.docx"
- VMD0010 LK-ASU v1.1 RD2 SCS 03JAN2020.docx"

Documents received 03 April 2020

BL-TW v1.0 SCS RD2 09MAR2020

Documents received 01 May 2020

v3.1



- VMD0007 BL-UP v3.3 01NOV2019 CLEAN.docx"
- VMD0009 LK-ASP v1.3 17APR2019 CLEAN.docx"
- VMD0010 LK-ASU v1.2 03JAN2020 CLEAN.docx"
- VMD0013 E-BPB v1.2 03JAN2020 CLEAN.docx"
- VMD0015 M-REDD, v2.2 28JAN2020 CLEAN.docx"
- VMD0016 X-STR v1.2 02JAN2020 CLEAN.docx"
- VMD0017 X-UNC v2.2 15DEC2017 CLEAN.docx"
- VMD0041 BL-ARR v1.1 02JAN2020 CLEAN.docx"
- VMD0042 BL-PEAT v1.1 23MAY2019 CLEAN.docx"
- VMD0044 LK-ECO v1.1_26JUL2018 CLEAN.docx"
- VMD0045 M-ARR v1.1 02JAN2020 CLEAN.docx"
- VMD0046 M-PEAT v1.1 08NOV2019 CLEAN.docx"
- ADD-AM v1.0 15DEC2017 CLEAN.docx"
- BL-TW v1.0 09MAR2020 CLEAN.docx"
- M-TW v1.0 28FEB2020 CLEAN.docx"
- VM0007 REDD+MF v1.6 02MAR2020 CLEAN.docx"
- VMD0007 BL-PL_v1.3_01NOV2019 CLEAN.docx"

affiliation for this first methodology assessment.

2.3 Interviews

The objective of the interview process was to resolve requests for clarifications, corrective actions and other outstanding issues which were required as part of the methodology revision assessment. After issuance of a round of NCRs/CLs, conference calls between the assessment team and the authors were arranged to reconcile understanding of the issues. As a guarantee of transparency in the resolution process, concerns raised and responses given were documented in greater detail, given in Section 3.5.

The official opening meeting was conducted on 13 March 2017 between representatives from the methodology developer with authority to approve the Methodology Assessment Plan; the Lead Validator and prAster Globaldent of ASTER GLOBAL. The agenda of the meeting consisted of review and mutual understanding of the components in the Methodology Assessment Plan including potential revisions, project timeframes and the standardized processes to solicit feedback from parties.

On 20 March 2017, a walk-through meeting was held, where the methodology developers generally went over the changes to the methodology and its modules with the assessment team After confirmation of the Assessment Plan and the walk-through meeting, the methodology assessment audit process commenced and lead to a Round 1 of Non-conformance Reports (NCRs), Clarification Requests (CLs), and Opportunities for Improvement (OFIs). Additional interviews were arranged, as needed, after the authors addressed NCRs/CLs in subsequent versions of the methodology and reviewers required additional clarification on changes applied. The table below lists the individuals involved in the major meetings and their organizational

Attendee Affiliation



Shawn McMahon	Environmental Services
Igino Emmer	Silvestrum Climate Associates
Stephen Emmet Mattox	Restore Americas Estuaries
Richard Scharf	Environmental Services
Barbara Toole O'Neil	Adelante Consulting
Tony Poole	Environmental Services

2.4 Assessment Team

The assessment team consisted of qualified individuals linked to the sectoral scope and technical areas of the methodology. The composition of the assessment team operated at several qualification levels:

- Lead Assessor (L)
- Assessment Team Member (TM)
- Assessment Expert (E)
- Assessment QA/QC (QA/QC)

Team Member	Expertise/Experience			
Shawn McMahon (L)	Senior Project Manager, Lead Assessor, VCS WRC Non-			
	Peatlands Expert. Approved to conduct third-party carbon			
	sequestration validations and verifications under VCS (WRC			
	expert). Specializes in third-party carbon offset validations and			
	verifications, carbon sequestration project development,			
	development and implementation of management plans for enhancement of carbon stocks, development of carbon and			
	environmental asset tracking programs, and team management.			
Dr. Guy Pinjuv (TM)	Senior Scientist, Lead GHG Validator/Verifier. Expertise lies in			
	forest carbon growth modeling, carbon project development, forest			
	offset project validation and/or verification and forestry related			
	methodology assessments. Responsible for team management,			
	client coordination, and performance of senior technical project			
	management. Climate Action Reserve Forest and Urban Forest			
	Project Lead Verifier.			
Richard Scharf (TM)	Senior Soil Scientist, NCLSS, SC Soil Classifier. Over twenty-two			
	years of experience in a variety of soils-related projects. Duties			
	include managing and conducting soils work for wastewater			
	projects, stormwater projects and wetland delineation. Provides expertise and experience on carbon offset projects/methodologies			

	associated with agricultural land management and/or soil carbon pools.
Matthew Perkowski (TM)	Project Forester and Forest Biometrician. Responsibilities include meeting the internal and external client objectives in the fields of forest inventory and sampling, growth and yield modeling, and directly in support of offset validation/verification projects. In addition, he is focusing on streamlining and developing quantitative tools for the GHG group to increase product service value for clients.
Eric Jaeschke (TM)	Project Forester and Remote Sensing Specialist. Duties include technical GIS and remote sensing support for carbon offsetting projects through validations/verifications under various rule sets, data analysis and field validations.
Kevin Markham (E)	Wetlands Expert/Assessment Team Member. A Vice PrAster Globaldent and Senior Manager for ASTER GLOBAL, Mr. Markham provides technical oversight and QA/QC for compliance with the CWA, CAMA, NEPS and ESA. He has extensive experience in wetland delineation, assessment, mitigation planning and permitting.
Barbara Toole O'Neil (E)	VCS-Standardized Methods Expert/Validation Team Member. Since 2012, Ms. Toole O'Neil has focused on climate services, corporate responsibility and energy efficiency projects from the industrial manufacturing to ecosystems services sectors. Her work responsibilities have addressed a wide range of environmental issues from preparing inventories or offset project documents to assessing methodologies submitted to the Verified Carbon Standard (VCS) (forestry to energy efficiency); supporting the development of the ARB Mine Methane Capture Protocol as part of the working group, managing energy efficiency surveys and measurement projects on farms, validating/ verifying inventories and carbon offset projects, corporate social responsibility auditing, developing governance for sustainability non-profits, to writing a social standard to assess the impact of environmental projects (carbon, water, forestry, agriculture) on the quality of life for women in emerging third world countries.
Tony Pooley (TM)	Methodology assessment trainee.
Janice McMahon (QA/QC)	President of Aster Global Environmental Solutions, Inc. Specializes in natural resource management projects including carbon sequestration feasibility assessments, development/implementation of management plans for enhancement of ecosystem services, assessment of GHG emissions and reductions, development of environmental asset tracking programs, GHG validations and verifications,



endangered/	threatened	species	assessments,	habitat
management p	olans, and int	tegrated ec	cosystem service	s plans.
Responsible fo	r leading the I	Forestry, Ca	arbon, and GHG	Services
Division, which	includes clie	ent and tea	m coordination,	proposal
preparation and	d review, marl	keting prese	entations, mainte	nance of
ASTER GLOBA	AL's ANSI acc	reditation a	and management	System,
and quality ass	urance and qเ	ality contro	I for projects in th	e United
States as well a	as the internat	ional marke	et.	

2.5 Resolution of Findings

The process of methodology revision assessment involved 3 formal rounds of evaluation by the assessment team and resulted in a methodology version which was in conformance to VCS rules. Findings related to corrective action, clarification requests or other findings were resolved during communication between the assessment team and the methodology developer. More specifically, where noted by the assessment team, the methodology developer implemented corrective actions by amending methodology modules and providing written clarification responses. Types of findings were characterized in the following manner:

Non-Conformance Reports (NCRs) were issued as a response to material discrepancies in a part of the methodology and generally fell into one of the following categories:

- Non-conformance to a VCS guiding document listed in Section 2.1
- Internal consistency among modules was lacking
- Mathematical formulae in modules were incorrect
- Additional information was required by the assessment team in order to confirm reasonable assurance for compliance

Clarifications (CL) were issued when language within a module needed extra clarification to avoid ambiguity.

Opportunities for Improvement (OFI) were issued to the methodology developer when an opportunity for improvement was identified.

During the course of the methodology revision assessment, 47 NCRs, CLs, and OFIs were identified. All NCRs/CLs were satisfactorily addressed. The NCRs/CLs provided necessary clarity to ensure the project was in compliance with the requirements of the VCS for GHG projects and the selected methodology. Detailed summaries of each finding, including the issue raised, responses and final conclusions are provided in Appendix B. Selected important findings and points of discussion from all components of the methodology assessment are presented in the table below.

Finding/Discrepancy	Resolution



It is not clear if the methodology used a standardized method for additionality and a project method for the crediting baseline.	Test was added that is sufficient to address this item. The module now states "This module provides a determination, based on an activity method, of additionality for tidal wetland restoration and conservation of intact wetland project activities that meet the applicability conditions set out in Section 4 below. A project method must be used for the crediting baseline."	
Non-human induced elevation of non-vegetated wetlands is not discussed in BL-TW or the proposed update of VM0007.	Modules BL-TW and X-STR were revised to require project developers to account for naturally formed vegetated wetlands due to elevation change in the baseline, and to account for bathymetric changes that might expand seagrass meadows in the baseline case, respectively.	
While VCS specifically states that expert opinion may be used to justify performance benchmarks and other elements, they do not specifically state that it can be used in activity methods to demonstrate activity penetration. Please show how expert opinion is permissible to use in place of the required APy equation.	VCS has provided a communication to RAE and ASTER GLOBAL confirming that the use of expert opinion is allowable.	

3 ASSESSMENT FINDINGS

The proposed revisions to the VM0007 methodology element were found to be in full compliance with the principles set out in the VCS Standard and other VCS rules and requirements. The new modules and revisions enlarge the eligible environments and activities to be more broadly applicable for a variety of project types including restoring and conserving wetland ecosystems in coastal and inland wetlands. New baseline, leakage, stratification, uncertainty and monitoring modules are consistent with best practice and scientific consensus by following previously validated methods for determining emissions. The assessment team evaluated adherence of the methodology to the VCS Standard and further concluded that the methodology references specific VCS approved modules. Applicable VCS approved tools are appropriately invoked for determining project significance, baseline, additionality and risk.

The assessment addressed specific issues that arose in the methodology which are pertinent to the principles set forth by the VCS Standard, including relevance, completeness, consistency, accuracy, transparency, and conservativeness.



3.1 Relationship to Approved or Pending Methodologies

The methodology and revision and accompanying modules fit into the modular framework where modules are interchangeable among various approved VCS methodologies. The revision is directly related to previously approved versions of the methodology VM0007 v.1.5 and builds upon a strong modular structure.

3.2 Stakeholder Comments

VM0007 REDD Methodology Modules were posted for comments from 21 February 2017 to 23 March 2017. Two sets of comments were received: one from South Pole Group, the other from Wildcoast.

The methodology developers responded to each comment appropriately. Several of the comments caught mistakes of one kind or another, which were changed in later draft versions of the methodology. Some of the comments appeared to stem from the confusion that sometimes occurs when using a modular methodology. Some comments from Wildcoast may stem from unfamiliarity with the requirements of carbon registries in general, and VCS in particular.

The developer's responses to the comments are reasonable and sometimes resulting in a change in the document. In two cases, the developers offer to communicate directly with the commenter to gather more background to answer the questions.

Comments and Developer Responses

South Pole Comment	Response	Validator Remarks
If there is a REDD combined with	All WRC projects, whether or not	Section 7 of REDD+MF
another activity, is it necessary to	combined with other categories, are	and the associated
do the additionality for each	deemed additional. We will clarify this	modules adequately
activity (REDD and also the other	in the MF and the ADD module.	explain how additionality is
activities)?		determined and ensures
		that demonstration of
		additionality is applied
		separately to each project
		activity
If a wetland is not a peatland or	The methodology only covers	The description provided
tidal wetland (for instance inland	peatlands and tidal wetlands. For	by the methodology
wetlands), an inland wetland can	other types of wetland (eg island	developer is sufficient.
be included to this methodology?	wetland) the procedures would have	The methodology is
	to be screened with the necessary	sufficiently descriptive in
	expertise. Our expertise is limited to	its geographic limitations.
	peatland and tidal wetland.	Inland wetlands are not
		permitted.
What is an intact wetland?	There is no strict definition of intact	The methodology
	wetland but the AFOLU requirements	developers description is
	refer to such wetland as intact or	sufficient given the lack of
	partially altered while still maintaining	formal definition in the
	their natural functions. (Addition from	VCS documentation.



VCS VERIFIED STANDARD METHODOLOGY ELEMENT ASSESSMENT REPORT: VCS Version 3

	VCS: 'Degradation' is defined in the Program Definitions. Although 'degraded forest' is not specifically defined, it would be a forest that has undergone degradation per the definition in the Program Definitions (i.e. forest land with a reduction in canopy cover and/or carbon stocks due to human activities such as animal grazing, fuelwood extraction, timber or removal or other such activities, but that has not been converted to non-forest land).)	
Which criteria are used to prove that a forest is degraded or not?	The methodology does not provide a definition of degraded forest. It uses the term as per the AFOLU requirements and assumes that a degraded forest has lost in part or completely its natural functions.	Again the VCS program definitions do not detail a definition for "degraded forest" and the response is sufficient.
According to the methodology, enrichment activities in a degraded wetland is an ARR activity?	As long as enrichment is not IFM (ie when forest management is in place in the baseline) this is indeed ARR.	Basic difference between IFM and ARR.
In Table 3, column 3, line 4 from REDD+MF, "Avoiding deforestation/forest degradation" is only referring to peatlands or to all wetlands? Why wetland degradation is separated from forest degradation?	The table should be read as follows: if the pre-project conditions is a drained peatland or a degraded tidal wetland with a land cover that is forest with deforestation or with forest degradation, the project activity may be peatland rewetting or tidal wetland restoration in combination with avoiding deforestation or forest degradation. This implies a combination of a restoration activity (wetland) with a conservation activity (forest).	Two project types is logical in this circumstance.
If it is possible to use enrichment as ARR, how this can be monitored? How is the carbon stock monitored? Is there a module or SOP to monitor it?	GHG accounting in ARR, whether replanting, enrichment or other, is a matter of comparing forest growth in the baseline and the project scenario. The baseline is not monitored and must be quantified ex ante.	The question seems beyond the scope of the methodology revision.
Table 11 from REDD+MF: Refers to AUDD, APD and REDD as three different categories. However, AUDD and APD are	This table is just a translation of language in the BL-PL and BL-UP modules when they are used for CIW	Agreed that a new classification is not being proposed by the methodology here.

17 v3.1



VCS | VERIFIED METHODOLOGY ELEMENT ASSESSMENT REPORT: VCS Version 3

included to DEDD projects. This is	astivities. The table does not intend to	
included to REDD projects. This is	activities. The table does not intend to	
not clear. Can you please specify	propose a classification.	
it or provide some clarification?		
Conservation of intact wetlands	This is determined in Table 4 of	Agreed that table 4
are included in the methodology,	REDD-MF. CIW is represented in the	addresses.
but this is not mentioned in the	top row as AUWD and APWD.	
modules of the methodology.		
Therefore, how can we include		
Conservation of Intact Wetland in		
this methodology?		
Table 3 from REDD+MF is not	i) The baseline for REDD is covered	Agreed that each project
consistent/clear: (i)the	in modules BL-UP and BL-PL; ii)	activity is sufficiently
methodology has a baseline for	Table 3 distinguishes various AFOLU	delineated within the
carbon estimation for restoration	project activities, not whether terrain	existing modules.
activities, but does not include	is drained, undrained, degraded or	existing medales.
baseline for REDD; (ii) the	intact. Each project activity has a set	
suggestion is to separate the	of mandatory and optional modules.	
	We do not see any inconsistency	
drained peatland to the degraded		
tidal wetland and the undrained	here.	
peatland to the intact tidal wetland		
to avoid confusion to the user.		
There is no baseline for degraded	In the case of avoiding wetland	The question is not
wetlands in the module for REDD	degradation in combination with	understood as the
to avoid unplanned deforestation	REDD, Table 3 points to the	baseline for each type of
and degradation.	mandatory use of certain baseline	category is defined within
	modules. The user must select	the modules.
	AUDD, APD or AD as REDD sub-	
	categories, as well as AUWD or	
	APWD as CIW sub-categories, and	
	the table then tells which modules are	
	relevant. Eg for AUDD combined with	
	AUWD in tidal wetlands, baseline	
	modules BL-UP and BL-TW are	
	mandatory.	
The module BL-UP mentioned	The principles applied in BL-UP for	The response is sufficient.
degradation for tidal wetlands in	determining deforestation and forest	,
the title. However, it is not clear	degradation baselines are used	
how the baseline and monitoring	mutatis mutandis for wetland	
is performed for degradation.	degradation. This is explained in	
periorinea ior aogradationi	Section 8.1.3 while the difference in	
	language is outlined in Table 11.	
Modules BL-TW and M-TW	This is not the way it works. BL-TW	Again possibly the intent of
include restoration, but not	-	
conservation.	and M-TW provide procedures for	the question is not
	quantification of emissions and	understood as the
	removals that cover both degradation,	procedures for
	restoration and avoided degradation	

18 v3.1



BL-TW: When you mention degradation, are you only referring to soil degradation?	scenarios. While BL-UP and BL-PL help determine the baseline scenarios, BL-TW and M-TW help quantify emissions and removals in those scenarios. We refer to degradation of tidal wetland and this is not limited to soil degradation. It can also pertain to eg changes in hydrology.	quantification appear appropriate. Explanation appears sufficient as degradation can also impact hydrology.
There is no module for the risk of degradation in the soil and this is one of the main sources of emission. Therefore, the project cannot claim for the avoided emission from soil degradation. How can I get carbon credits for conserving an intact wetland? If the conservation of intact wetland is not included in the methodology, this need to be excluded. In addition, in the module M-TW the activities for intact wetlands (e.g. improving water management on drained wetlands, maintaining or improving water quality for seagrass meadows, protecting atrisk wetlands) is not included.	This is not covered in the monitoring module for the project scenario. In baseline module BL-TW you will find procedure for quantifying emissions related to soil degradation. Please note that your wording (quote) activities for intact wetlands (e.g. improving water management on drained wetlands, maintaining or improving water quality for seagrass meadows, protecting at-risk wetlands) (unquote) is in part incorrect. Activities for intact wetlands can only be conservation, not improving conditions.	The argument provided by the methodology developer is accurate.
Page 8, Equation 6: there is a parenthAster Globals missing in the equation.	Thanks for spotting this. We will remove the parenthAster Globals.	ParenthAster Globals removed. It was discovered that in fact there was an extra parenthAster Globals that needed to be removed.
Number and location of plots for monitoring purposes? This is not clear in the module. Also, the frequency of measurement is missing.	Sample size is not provided by the monitoring module but is governed by procedures in module X-UNC. Frequency is provided in the parameter tables in Section 6.2.	The response is accurate, sample size is determined through application of X-UNC.
According to the methodology, it is possible to monitor the first time and then wait 10 years until the next one. Is this possible? Please, provide clarification on it. Specially on monitoring frequency vs. verification X-STR	The methodology needs to comply with methodology requirements. The monitoring interval and its relation to verification is governed by project requirements. Please see there.	The methodology developer correctly refers the commenter to the VCS Standard (i.e. project requirements).
Chapter 5.2. Third paragraph, line 3 mentioned to refer to "4(a)	Thanks for spotting this. We will remove this reference.	Reference removed in later versions.



below", but 4(a) does not appear in the text.		
Page 11: Equation 8. VC is missing in the explanation of the parameters.	Will be added.	VC was added to the list of parameters.
BL-ARR		
Equation 1: how should the project owner need to monitor the baseline? Is it necessary to measure plots in 2 different times? Or why do you use delta in the formula as a change? Please, have in mind that some projects are retroactive and this is not that easy to monitor when the project activities started already.	There is no monitoring of the baseline. The baseline is quantified ex ante. Carbon stock change is a proxy to CO2 emissions and hence the delta is used. In the baseline, a CO2 emission can be quantified by taking the difference in the forecast of C stock of two points in time.	The methodology developer correctly states that the baseline is not monitored.
Which land cover should have the baseline? Because it says that can include degraded land. How can we define the degraded land?	A suited area can support a higher tree/shrub C stock than in the baseline achieved through ARR activities. Degraded land is a wellestablished term in forestry and land use and expert judgement should be sufficient to make the claim.	The VCS program definitions treat this issue similarly, referring to degraded lands within the definition of forestry but not defining. The inference being that the term "degraded" is understood and assessed for each project at project validation.
Why do the peatland need to be drained to be eligible? And why is it not possible to include an undrained peatland without forest cover?	The applicability conditions require the peatland area to be degraded, either seen from its forest condition or from its state of drainage, which seems logical for a project activity that intends to improve the situation. Nonforested peatland thus must be drained. This avoids undrained natural non-forested peatland to be afforested.	Explanation from the methodology developer regarding drained peatland is sufficient
M-ARR: Why is necessary to use LTA for conservation projects? We believe this only needs to be used when harvest take place.	This module is not for conservation but for ARR. The LTA pertains to harvesting, as pointed out in the heading "Long-term average in case of harvesting".	LTA is only relevant to projects including afforestation.
M-ARR: Why soil is not included anymore?	Thanks for spotting this. This also points to a problem with Table 5 in REDD+ MF. Both BL-ARR and M-ARR are focused on biomass compartments, since modules CP-S, PEAT and TW cover soil. We will clarify how litter, deadwood and soil	Soil was added to the later versions of the module.



	are accounted for in both terrestrial	
	and wetland situations.	
X-UNC: The title does not	The "REDD+" is intended to cover all	Agreed that "REDD+MF"
mention WRC. The content of the modules should be consistent	activities and situations, as in the title	is all encompassing and
with the title.	of the framework document "REDD+	sufficient to include WRC
with the title.	MF".	within its scope.
BL-UP: The title is not very clear.	For both forested terrestrial sites and	The procedures are
Deforestation can be included to	wetlands, the module provided	sufficient within the
wetland? For instance, page12	procedures for accounting the loss of	module.
point b., mentioned "deforestation	forest cover in the baseline. The	
agents". According to the title, deforestation cannot be included	module, however, also provides	
to wetland. Please, clarify.	procedures for wetland degradation.	
to welland. I lease, claimy.	For example, a salt marsh (ie. without	
	forest cover) may degrade or get lost	
	in the baseline, and this can be	
	quantified using this module and	
If deforestation is allowed in	taking account of translation table 1. See above.	See above
wetlands, there is not enough	See above.	See above
detailed guidelines for the		
baseline.		
Wildcoast Comment	Developer's Response	Validator Remark
In general, I think that the	As we strive to satisfy the user's need	Agreed that the scope of
methodology could include clearer	for an understandable and –easy-to-	the revision was not to
and easy to use decision trees, both for the reader and for	use document, we must find a middle	make all portions of the
potential project dAster	ground between, on one end, simple	methodology more reader
Globalgners. This will expedite	language and more extensive	friendly, rather to include
the decision process of whether to	narratives, and bullet-pointed	the WRC scope which has
start a carbon credit project or	instruction combined with equations,	been accomplished. The
	instruction combined with equations,	
not. Also it would be useful if the	on the other.	· ·
not. Also it would be useful if the methodology uses a simpler	-	use of the methodology as
not. Also it would be useful if the methodology uses a simpler language whenever possible and	on the other.	use of the methodology as a decision tool as is being
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the	on the other. We argue that a methodology is not a	use of the methodology as a decision tool as is being requested here should be
not. Also it would be useful if the methodology uses a simpler language whenever possible and	on the other. We argue that a methodology is not a complete tool for assessing project	use of the methodology as a decision tool as is being requested here should be taken up by the
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in	use of the methodology as a decision tool as is being requested here should be
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in essence – needs to meet VCS	use of the methodology as a decision tool as is being requested here should be taken up by the
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in essence – needs to meet VCS methodology requirements. We	use of the methodology as a decision tool as is being requested here should be taken up by the
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in essence – needs to meet VCS methodology requirements. We suggest VCS to communicate with	use of the methodology as a decision tool as is being requested here should be taken up by the
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in essence – needs to meet VCS methodology requirements. We suggest VCS to communicate with Wildcoast about what can be	use of the methodology as a decision tool as is being requested here should be taken up by the
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the viability of potential projects.	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in essence – needs to meet VCS methodology requirements. We suggest VCS to communicate with Wildcoast about what can be expected form a methodology.	use of the methodology as a decision tool as is being requested here should be taken up by the commenter with the VCS.
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the viability of potential projects. The methodology seems to be	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in essence – needs to meet VCS methodology requirements. We suggest VCS to communicate with Wildcoast about what can be	use of the methodology as a decision tool as is being requested here should be taken up by the
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the viability of potential projects.	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in essence – needs to meet VCS methodology requirements. We suggest VCS to communicate with Wildcoast about what can be expected form a methodology.	use of the methodology as a decision tool as is being requested here should be taken up by the commenter with the VCS.
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the viability of potential projects. The methodology seems to be applicable to a mangrove conservation project in Mexico. However, after reading it, there is	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in essence – needs to meet VCS methodology requirements. We suggest VCS to communicate with Wildcoast about what can be expected form a methodology.	use of the methodology as a decision tool as is being requested here should be taken up by the commenter with the VCS.
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the viability of potential projects. The methodology seems to be applicable to a mangrove conservation project in Mexico. However, after reading it, there is still some uncertainty to assess	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in essence – needs to meet VCS methodology requirements. We suggest VCS to communicate with Wildcoast about what can be expected form a methodology.	use of the methodology as a decision tool as is being requested here should be taken up by the commenter with the VCS.
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the viability of potential projects. The methodology seems to be applicable to a mangrove conservation project in Mexico. However, after reading it, there is still some uncertainty to assess the probability of project success	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in essence – needs to meet VCS methodology requirements. We suggest VCS to communicate with Wildcoast about what can be expected form a methodology.	use of the methodology as a decision tool as is being requested here should be taken up by the commenter with the VCS.
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the viability of potential projects. The methodology seems to be applicable to a mangrove conservation project in Mexico. However, after reading it, there is still some uncertainty to assess the probability of project success (i.e. knowing if carbon credit for	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in essence – needs to meet VCS methodology requirements. We suggest VCS to communicate with Wildcoast about what can be expected form a methodology.	use of the methodology as a decision tool as is being requested here should be taken up by the commenter with the VCS.
not. Also it would be useful if the methodology uses a simpler language whenever possible and includes a quiz to evaluate the viability of potential projects. The methodology seems to be applicable to a mangrove conservation project in Mexico. However, after reading it, there is still some uncertainty to assess the probability of project success	on the other. We argue that a methodology is not a complete tool for assessing project viability and that a methodology – in essence – needs to meet VCS methodology requirements. We suggest VCS to communicate with Wildcoast about what can be expected form a methodology.	use of the methodology as a decision tool as is being requested here should be taken up by the commenter with the VCS.



actually apply and invest on the methodology to make sure if an specific project will meet all conditions required by VCS. Maybe a quiz to evaluate project feasibility can be included to help project proponents.		
For the reader, especially for those new on the carbon credits world, it is not easy to follow the first decision tree to define the type of project to be developed. We suggest using more mainstream language and whenever possible provide clear examples of projects and/or activities.	See response above.	See above.
Also, it seems that a CIW project must be always combined with a REDD project, but there is uncertainty if a CIW project can stand by itself. Those, is it difficult to determine which models and tools to use or when to use them. The methodology and decision tree should be clearer about this.	This is helpful feedback. CIW can be a stand-alone project activity. In fact, REDD and ARR can be too. We will make this explicit in the language of section "Identification of the Most Plausible VCS-eligible Activity(ies)" in chapter 2. Note that Table 3 indicates that RWE and CIW can be done not combined with another category.	Appropriate revision added.
A clear definition/description with examples should be provided for UPWD and APWD.	Definitions of these categories are provided in the VCS AFOLU Requirements. The methodology assumes knowledge and understanding of VCS Standard, AFOLU Requirements and Program Definitions.	Agreed. The AFOLU sufficient describes all project types.
With the information provided, it is difficult to decide if a leakage area and leakage avoidance activities are needed for a specific WRC project.	This comment re leakage is not specific enough for an appropriate response. We will be happy to communicate directly with Wildcoast.	Agreed that insufficient detail was provided by the commenter.
Page 15-16 and other parts of the ms, the following paragraph is confusing "Baseline agents of deforestation must: (i) clear the land for tree harvesting, settlements, crop production (agriculturalist) or ranching or aquaculture, where such clearing for crop production or ranching or aquaculture does not amount to large scale industrial agriculture or aquaculture activities*; (ii) have no documented and uncontested legal right to deforest the land for	See response above	See above.



these purposes; and (iii) be either rAster Globaldents in the reference region for deforestation or immigrants. Under any other condition this methodology must not be used". We suggest to use a simpler language and/or provide examples.	L DEDD: ME	
On page 16, the conditions contained in Modules BL-TW and M-TW that also apply to avoiding unplanned wetland degradation, should be described in this document to expedite the review and decision making for project dAster Globalgners (potential new partners for VCS).	In REDD+ MF we include conditions that apply across the board for each eligible project category. In modules, we include applicability conditions that apply to that specific module. To us this seems the best way to structure applicability conditions and to avoid overwhelming the user when reading the framework document.	The public comment refers to a stylistic preference. The applicability condition is sufficiently addressed within the module.
On page 20, number 5.1.4: The acronyms for avoiding planned and unplanned wetland degradation are mixed up.	Thanks for spotting this.	Acronyms in 5.1.4 are no longer mixed up.
On page 22, the table for carbon pools of REDD project activities is missing (Table 4).	Section 5.3.2 REDD points out: "The carbon pools (and corresponding methodology modules) included in or excluded from the boundary of REDD project activities are shown in Table 4." This is a left-over of the first version of VM0007. In subsequent versions of the methodology it was decided to not duplicate the required information on carbon pools for REDD.	The justification provided to avoid duplication is sufficient.
On page 18, it would be useful to know if data, statistics and geographic information, can be taken from official governmental reports or published peer-reviewed science for the project area, and if so, what are the conditions to be able to use published technical information.	Point appreciated. We will consider if such information can be taken from official governmental reports or published peer-reviewed science for the project area.	Page 18 indicates "The project proponent must demonstrate (a), (b) or (c) above, based on verifiable information such as laws and bylaws, management plans, annual reports, annual accounts, market studies, government studies or land use planning reports and documents." The appropriateness of the source is determined by the validator on an individual basis for each



		project as the scope was determined to be too broad to provide sufficient criteria.
On page 24 the Table numbers seems to be defaced/wrong.	We do not see this problem in our document version (the one for public review obtained from VCS)	The issue was not able to be found in the version of the methodology provided to the validators.
On sections 6-8 a decision tree should be provided to help the reader understand and decide what modules to use. It would be very useful.	See response above.	The comment is unclear. A decision tree and table 4 "Determination of When Module/Tool Use is Mandatory (M) or Optional (O)" is included in section 2 to address this issue.

3.3 Structure and Clarity of Methodology

The VM0007 REDD Methodology Modules were reviewed by the assessment team for clarity and logical consistency in accordance with VCS rules for methodology assessments (Methodology Approval process v3.6, 25 March 2015). Methodology developers have followed the VCS templates closely and have included the specific criteria and procedures in the appropriate sections. The terminology used in the revised methodology element is consistent with the VCS Program and GHG accounting and language chosen is precise. Definitions are defined at the beginning of modules to reference the reader. Specific key terms were used appropriately; must, should, and may to indicate a firm requirement and permissible or allowable options, respectively. Key words for outlining mandatory requirements are used consistently for permissible or allowable options. Criteria and procedures for the methodology were written by the methodology developers in a clear, concise and coherent manner to allow the project to be unambiguously audited by the assessment team. The notation of the methodology makes sufficient use of VCS rules and procedures. Overall, it is of the assessment team's opinion that the structure of the document meets the strict requirements of the VCS Program.

3.4 Definitions

The key terms defined in the methodology element modules are presented clearly and appropriately in a definition section at the beginning of the document for ease of use by methodology developers. The comprehensive list of terms relevant to the methodology is ordered alphabetically and definitions for acronyms are provided. Definitions of key terms are presented concisely and assist the reader in comprehension for effective implementation of the methodology.

3.5 Applicability Conditions

The methodology includes the following project category level applicability conditions to ensure adherence to VCS rules and requirements, and to address specific issues that arose in the



methodology assessment process. This assessment determined that the applicability conditions contained within the methodology are appropriate, adequate and in compliance with the VCS rules. The following table summarizes applicability conditions as written, changes made during the revision of the methodology, and the final evaluation of those changes during the assessment.



Applicability Conditions (REDD+MF) Assessment Team Findings All activity types All land areas registered under the CDM or The methodology ensures land areas are under any other carbon trading scheme (both transparently reported in compliance voluntary and compliance-oriented) must be AFOLU Requirements and this applicability transparently reported and excluded from the condition is sufficiently clear to determine if a project area. project meets the condition. b. REDD activity types Unplanned deforestation: Baseline agents of This applicability condition is written in a clear deforestation shall: (i) clear the land for tree and precise manner to ensure that projects are harvesting, settlements, crop production able to properly evaluate whether baseline (agriculturalist) or ranching or aquaculture, agents for unplanned deforestation are where such clearing for crop production or appropriate for the methodology. ranching or aquaculture does not amount to large scale industrial agriculture activities (ii) have no documented and uncontested legal right to deforest the land for these purposes; and (iii) are either rAster Globaldent in the Reference Region for Deforestation or immigrants. Under any other condition this methodology shall not be used. Planned deforestation/degradation: This applicability condition addresses the Conversion of forest lands to a deforested practicality of project activities and is written in condition must be legally permitted. such a manner so as projects are not able to fall out of line of the condition. Avoiding Forest Degradation The applicability condition is practical to (fuelwood/charcoal): Fuelwood collection and include in order to account for carbon loss due charcoal production must be "non-renewable" baseline degradation. The forest (as defined in Module BL-DFW) in the applicability condition allows baseline period. If degradation is caused by demonstration of conformance at time of either illegal or legal tree extraction for timber, project validation and ensures projects are this framework cannot be used. unable to fall out of line with the condition. ARR Procedures for estimating carbon stock This applicability condition is written in a changes in ARR project activities are sufficiently precise manner to direct projects to provided in BL-ARR and M-ARR. In strata use of the appropriate modules for estimating with drained, organic soil, ARR activities carbon stock changes in ARR project activities. must be combined with rewetting. Where **AFOLU** Further. Requirements section exclusion of project activities on wetlands 4.2.20.2 specifies ARR activities involving



exist in the applicability conditions of methodologies and tools, such applicability conditions can be disregarded for the purpose of their use within this Methodology, as quantification procedures for peat and tidal wetland soil are provided in BL-PEAT, M-PEAT, BL-TW and M-TW.

Project activities where at least a part of the project activity is implemented on organic soils or wetlands and that wish not to account for soil emissions, intentional manipulation of the water table is not allowed (i.e., the project activity shall not involve manipulation of hydrology or otherwise affect hydrology), no more than 10% of their area may be disturbed as result of soil preparation for planting and species planted are restricted to those likely to have occurred under historic natural forest conditions in the project area,

The with-project scenario does not involve the application of nitrogen fertilizers.

nitrogen fertilization are not eligible project activities.

d. WRC Activity Types

Project activities that lower the water table, unless the project converts open water to tidal wetland or improves the hydrological connection to impounded waters, are ineligible.

Changes in hydrology must increase SOC, or if salinity is changed to reduce CH4 emissions, change in SOC stock must be accounted for.

If hydrological connectivity of project area with adjacent areas lead to increased emissions outside project area, project is ineligible.

Project activities including the burning of organic soil are ineligible.

Projects including the use of nitrogen fertilizers are ineligible.

This condition is consistent with and ensures that a project satisfies all the requirements in AFOLU sections 4.2.16 - 4.2.19. The methodology developer chose to address peatland rewetting exclusively and allows it to be combined with the ARR criteria. See also AFOLU Requirements v3.2 for specifics on subcategories for rewetting drained peatlands (RDP) and conservation of undrained and partially drained peatlands (CUPP).

Per AFOLU-WRC section 4.6.20 there can be no significant hydrological effect on adjacent lands, either by using a large enough buffer or physical barriers. The water table depths in adjacent lands will be monitored to detect ecological leakage.



VCS | VERIFIED METHODOLOGY ELEMENT ASSESSMENT REPORT: VCS Version 3

RWE Project Activities	
Peatland Rewetting: Projects that reduce fire on peatlands that do not include rewetting are ineligible. RWE projects in combination with ARR activities must include rewetting unless it is a tidal system where the tidal system is restored or continues to be in place.	Satisfies AFOLU requirement 4.2.19 1) b. Combines requirements of 4.2.19 1) a) ii) and 4.2.20 1)
Tidal Wetland Restoration may include the following project activities: Creating, restoring and/or managing hydrological conditions. Altering sediment supply. Changing salinity characteristics Improving water quality. Reintroducing native plant communities. Improving management practices. Prescribed burning of herbaceous and shrub	Relates to the requirements of 4.2.19. RWE projects generally revolve around activities that increase SOC or increase carbon in biomass. Changing salinity may reduce methane emissions.
aboveground biomass may occur. CIW (conservation of intact wetlands) projects are eligible under the following conditions: AUWD: Baseline agents of degradation cause an alteration in the hydrology of the project area, have no documented, uncontested legal right to degrade and are rAster Globaldents or immigrants in the reference area. APWD: Conversion of intact wetlands to a degraded condition must be legally permitted. Peatland Conservation (both AUWD and APWD): REDD project activities on peatland	Applicability conditions describes the difference between planned and unplanned degradation – planned degradation is a legal activity, according to requirement 4.2.19. By AFOLU requirement 4.2.19, projects on peatlands may not lower water table depth. The final applicability conditions reduce or eliminate leakage.

v3.1 28



that increase drainage are ineligible.

Additional conditions for tidal wetland conservation projects (both AUWD and APWD):

Activities may include protecting at-risk wetlands, improving water management on drained wetlands, maintaining/improving water quality for seagrass meadows, recharging sediment to avoid drowning of wetlands and creating accommodation space for wetlands migrating with sea-level rise.

The area is free of any land use that could be displaced outside the project area OR the land use could be displaced outside the project area, but baseline emissions for this use are not accounted for, OR the area is under a land use that will continue during the project crediting period

3.6 Project Boundary

The VCS Standard requires that the methodology establish criteria and procedures for describing the project boundary and identifying and selecting optional carbon pools, i.e. sources, sinks, and reservoirs relevant to the baseline and project scenarios. Procedures to quantify emissions are appropriately included in all new and revised methodology modules for all relevant pools and sources.

The methodology appropriately addresses the establishment of spatial, temporal and gaseous boundaries to meet VCS AFOLU Requirements for REDD, ARR, and WRC project categories and applicable to AUDD, APD, Degradation (fuelwood/charcoal) project scenarios. Mandatory and optional pools in this methodology are confirmed suitable based on the choosing of appropriate modules for a project specific methodology.

The spatial boundaries in this methodology were assessed for conformance to VCS rules and found to be sufficiently detailed, appropriate, and adequate for project scenarios and in compliance with AFOLU Requirements section 4.2.14. The assessment team reviewed accounting procedures of effects of sea -level rise on project boundaries for WRC project activities in tidal zones. The procedures provided in Module X-STR were found to be in compliance with VCS rules and requirements (such as the conservative use of default factors and IPCC guidance). Spatial boundaries with respect to sea level rise were also assessed in Module X-STR, where the project proponent is required to provide a projection of relative sea-level rise within the project area based on IPCC regional forecasts or peer-reviewed literature applicable to the region. In addition, the project proponent may also utilize expert judgment.



Similarly, temporal boundaries were reviewed within the context of VCS rules and found to detailed and sufficient. The revised methodology with respect to the WRC project scenario, was found to appropriately account for the Peat Depletion Time (PDT) and Soil organic carbon Depletion Time (SDT) in the baseline scenario. This is the temporal period during which the project can claim emission reductions from rewetting, restoration or conservation. The review team confirmed that revised procedures for determining the PDT or SDT are provided in Module X-STR. The methodology further defines temporal boundaries according to project category for historical reference period, project crediting period, and monitoring period. Significant sources of gaseous emissions accounted for are in compliance with AFOLU Requirements sections 4.3.19, 4.3.20, and AFOLU WRC requirements 4.5.25.

The methodology allows for flexibility in selecting carbon pools depending on project category and associated scenario or otherwise demonstrable conservative exclusion. The assessment team evaluated the appropriateness of mandatory or optional carbon pools and sources of GHG for project scenarios under the methodology and determined the project developers' choices were justified. The assessment team concludes that procedures outlined in the methodology for selection of pools, sources, sinks, and reservoirs are clearly specified and suitable for the project activities covered by the methodology.

3.7 Baseline Scenario

The determination of the most likely baseline scenario is essentially unchanged from the previous version. The existing procedures are appropriate given the revision for WRC activities, because WRC activities are eligible to apply the activity method for determining additionality per the VCS standard 4.1.11. The revised module ADD-AM provides a determination, based on an activity method, of additionality for tidal wetland restoration and conservation of intact wetland project activities that meet the applicability conditions set out in Section 4 of the methodology. The baseline scenario for WRC project activities is determined through a Project method using the module T-ADD, and these procedures are appropriate because they are also required per 4.1.11. The determination of the most likely baseline scenario for all other project activities is determined through the use of T-ADD, the CDM combined tool to identify the baseline scenario and demonstrate additionality in A/R CDM project activities, with the following understanding:

From Table 10 of VM0007:

Where the tool refers to:	It must be understood as referring to:
A/R, afforestation, reforestation or forestation	REDD, ARR or WRC project activity
Net greenhouse gas removal by sinks	Net greenhouse gas emission reductions
CDM	vcs
DOE	VVB
TCERs, ICERs	VCUs



The tool contains steps to select the most conservative baseline scenario depending on the amount of information available to generate baseline estimations. Applying the CDM tool appropriately allows for transparent identification of baseline scenarios and encourages conservative baseline net greenhouse gas removals by reductions, further it is appropriate for use with WRC projects as there are no additional requirements for assessing additionality for this project type in section 4.2 – 4.6.22 of the AFOLU WRC requirements.

3.8 Additionality

Tidal wetland conservation and restoration project activities and peatland rewetting use an activity method for demonstrating additionality. The new module ADD-AM (Demonstration of Additionality of WRC projects) is used. It involves two steps:

- 1. Demonstrate regulatory surplus, in accordance with the VCS Standard.
- 2. Applicability conditions represent the positive list.

ASTER GLOBAL used a standardized methods expert in the assessment of the activity method, this exert added value to the overall assessment of the new activity method module by reviewing requirements for the use of the activity method including: VCS Standard requirements 4.1.10 – 4.1.12, 4.3.7- 4.3.10, and 4.6.8 – 4.6.9. The demonstration of regulatory surplus and conditions that represent a positive list. Justification for the positive list is included in an appendix. The positive list was determined to be appropriate for tidal wetland and sea grass restoration activities in VM0033, where the level of restoration was determined to be 2.74% or less in the U.S. Expert opinion was used to justify extension of the positive list for restoration activities to the rest of the world¹. ASTER GLOBAL determined that the expert (Pieter van Eijk) was qualified to provide an expert opinion on expanding the positive list globally as he is a Masters educated ecologist with 10 years of international experience in coastal wetland restoration, with many peer reviewed publications on the topic.

Additional analysis, described in the module and reviewed by ASTER GLOBAL, found that the penetration of conservation activities to be about 3.6% in the world. Given the low penetration (much less than 5%) of these activities throughout the world, the new module is appropriate for determining additionality.

For all activities ineligible for the activity method, the methodology uses T-ADD (CDM combined tool to identify the baseline scenario and demonstrate additionality in A/R CDM project activities) is used to demonstrate additionality. This is the same tool used for the related, accepted VM0033

¹ The use of an expert opinion was approved by VCS guidance providing a communication (On 22 Jun 2017) to ASTER GLOBAL. This guidance states, "In our view, we do believe it can be appropriate for expert opinion to be used to show that datasets and conclusions are applicable more broadly for the purpose of determining activity penetration. We note that this sort of approach was used for VM33, and so if it can be shown that expert opinion is being used in a similar manner to that instance, we would be comfortable for expert opinion to be used in this case as well."



methodology, and uses standard methods to determine alternative land use scenarios, barrier analysis, economic analysis and common practice analysis. It is appropriate for determining additionality in REDD+MF projects.

The only exception is for tidal wetlands projects that are eligible to apply the activity method for determining additionality.

3.9 Quantification of GHG Emission Reductions and Removals

3.9.1 Baseline Emissions

Procedures for quantifying the baseline emissions for REDD, ARR, and WRC project activities are determined by baseline type and selected carbon pools per AFOLU Requirements section 4.5.19. In the case of combined project types, the methodology appropriately requires development of a unique baseline to account for peat as a soil carbon pool. For instance, module BL-PEAT appropriately operates in combination with Modules M-PEAT and E-BPB to provide conservative procedures for quantification of the baseline. New and existing modules for quantification of baseline emissions encompass all GHG sources, sinks, and carbon pools as specified by the delineated project boundary. The following baseline modules BL-PL, BL-UP, BL-PEAT, BL-TW and BL-ARR, contain procedures for calculating baseline GHG emissions. The methodology appropriately uses annual accounting procedures in all modules for determination of the baseline emissions.

Some changes were made to include tidal wetlands. BL-ARR is now used to measure living and dead biomass pools only. There is no longer a WRC component in Δ CBSL-ARR. Instead, BL-TW calculates emissions from the soil pool separately, then adds the biomass emissions from BL-ARR (and fuel emissions) to calculate baseline emissions for (GHGBSL-TW).

Carbon pools included in projects are presented in the same way as in the previous version of REDD-MF (v.1.5). One change is the inclusion of the burning of woody biomass as a GHG source. Another change, in WRC projects, includes emissions from fossil fuel use in the project scenario, as degraded wetland restoration often requires significant use of earth moving equipment, etc. Methodology users are referred to M-PEAT and M-TW for monitoring procedures of the soil pool for WRC projects.

For CIW project activities, module BL-UP or BL-PL is used, applying a "terminology conversion" table in order to encompass wetlands.

The VCS AFOLU requirements regarding the calculation of baseline (and project) emissions in this revision of the REDD+ MF methodology are covered. For example:

- Peat Depletion Times (PDT) and Soil organic carbon Depletion Times (SDT) are estimated
 and used in setting the limit on the time period during which GHG emission reductions are
 claimed for a project. SDT was added to the X-STR module.
- Change in water table depths in the baseline are projected into the project crediting period.
- SOC in sediment (allochthanous soil carbon) is accounted for separately from that resulting from vegetative growth (autochthanous soil carbon).



• In order to qualify, projects must demonstrate significant GHG benefits over the baseline for at least a 100-year time frame.

Sea level rise and its effects on GHG emission reductions during the project lifetime is addressed.

The procedures for calculating baseline emissions in the methodology are appropriate and adequate for estimating emissions in both mineral soil and peatland situations. The equations and formulas are used without error and parameters for quantification of baseline emissions are used appropriately in calculating all significant baseline emissions.

3.9.2 Project Emissions

Project emissions for monitoring periods are calculated according to REDD, ARR, and WRC project categories which are accompanied by specific monitoring modules. The modules contained within the methodology appropriately monitor for changes in project carbon stocks from natural or anthropogenic causes and accounts for gains or losses in the previously validated monitoring procedures per AFOLU Requirements section 4.5.20.

For REDD project activities, the module M-MON, is still used, which has not been changed. For ARR activities, the module M-ARR is used, which has been updated to include ARR activities on wetlands. For WRC activities, the modules M-PEAT or M-TW is used, depending on which is appropriate.

M-ARR is now only used for guidance in monitoring changes in biomass. The base methodology refers the user to M-PEAT or M-TW to monitor changes in the soil pool, depending on relevance. GHG emissions from tidal wetlands include emissions from biomass changes, soil, fuel and burning of biomass. M-TW only describes the procedures for the soil component and refers users to M-ARR, E-BPB and E-FFC for biomass changes, burning and fuel use in the project scenario, respectively.

Major findings related to the quantification of baseline emissions in the revised methodology are presented.

- As per AFOLU Requirements (WRC) section 4.5.28, "Where soil carbon is included in the
 project boundary, sedimentation shall be accounted for so that carbon sequestration
 resulting from the growth of vegetation can be estimated separately from carbon
 accumulated in sedimentation." M-TW (and BL-TW) provide methods to differentiate
 between allochthonous and autochthonous soil carbon, so carbon in sediment from outside
 the project area can be separated from soil carbon resulting from vegetative growth within
 the project area
- As per AFOLU Requirements (WRC) section 4.5.31, "As WRC activities are likely to influence CH₄ emissions, methodologies shall establish the criteria and procedures by which the source may be deemed *de minimis* or conservatively excluded." M-TW (and BL-TW) provide methods for estimating CH₄ emissions.





ASTER GLOBAL reviewed GHG sources, sinks and reservoirs identified in version 1.5 of REDD-MF and its associated modules to ensure all were included in the updated versions, plus the addition of any GHG sources, sinks and reservoirs added by including the tidal wetlands modules.

The main carbon pools in REDD+ activities are biomass, both living and dead, and soils. This is true for tidal wetlands as well.

As was always the case, biomass is estimated under REDD or ARR, depending on project activities. Soils are covered under M-TW and BL-TW (or M-PEAT and BL-PEAT, for organic soils). This is appropriate, as changes in wetland soil emissions and sequestration are strongly correlated to changes in drainage, so estimated emissions must consider water table/water level changes, as well as carbon accumulated from decomposing vegetation.

The procedures for calculating project emissions in the monitoring modules are appropriate and adequate for estimating emissions, and cover all GHG sources, sinks and reservoirs included within the project boundaries. The equations and formulas are used without error and parameters for quantification of emissions are used appropriately in calculating all significant project emissions. The procedures for calculating project emissions using monitoring modules conform to VCS rules.

3.9.3 Leakage

Leakage is taken into account in the methodology and associated modules and procedures are in compliance with VCS rules for REDD, ARR, and WRC project activities. Significance of leakage and carbon pools is appropriately determined using the module T-SIG. In the case of significant market decrease in production of timber, fuelwood, or charcoal, leakage is determined using module LK-ME. Where leakage prevention leads to a significant increase in the use of fertilizers, module E-NA is appropriately used. In accordance with AFOLU Requirements section 4.6.6, leakage mitigation measures which can cause any significant increase in GHG emissions associated with these activities are appropriately accounted for, unless deemed *de minimis* (as set out in AFOLU Requirements section 4.3.3).

More specifically, modules used for the different possible project activities are:

- Planned deforestation/degradation: Module LK ASP (LK-ASP is also used for AUDD projects where the deforestation agents can be identified).
- Unplanned deforestation/degradation: Module LK-ASU
- Fuelwood/charcoal collection: LK-DFW
- Pre-project agricultural or aquacultural activity displacement: Module LK-ARR.
- WRC projects not combined with REDD or ARR, where activity shifting is displaced to peatland areas, LK-ASP or LK-ASU is used
- Combined RWE-ARR projects may use: Module LK-ASP





All the leakage modules used are accepted, previously validated modules and are used appropriately for project activities covered by the methodology.

3.9.4 Net GHG Emission Reductions and Removals

The revised methodology calculates the net GHG emissions reductions and removals (NERs) of a project accounting period by adding the NERs for each activity type (REDD, ARR, WRC). Methods for calculation of NERs from each project activity category is included and is appropriate.

The following summarises how the processes to calculate NERs and uncertainty were changed through this revision, and the review that ASTER GLOBAL took to determine that these processes were appropriate. Section 8.2 of the REDD-MF document originally submitted to the review team summarized the net GHG emission reductions and removals generated by the project that had undergone a changes to Module M-ARR, and it was not clear to the review team that the integrity of the overall methodologies use of the tool had not been adversely impacted. Module M-ARR used to depend on CDM methodology AR-ACM0003 Afforestation and reforestation of lands except wetlands and associated tools. The use of this tool had been removed altogether, and the newer version called for GHG emissions and removals under the ARR project scenario on mineral soils to be estimated using the procedures provided in AR-Tool14 "Estimation of carbon stocks and change in carbon stocks of trees and shrubs in A/R CDM project activities". The review teams concern over changes in Module M-ARR not calling the CDM methodology AR-ACM0003 were that these changes may have adversely impacted the integrity of the overall methodologies use of the tool with respect to applicability conditions in the CDM methodology. Through the process of review findings, the original CDM methodology AR-ACM0003 was added back into Module M-ARR, and Section 8.2 of the REDD-MF document was largely unchanged.

The review team also examined equations and the structure of the updated Module X-UNC document and noted the general approach for calculating uncertainty was consistent with the previous version, noting only minor items related to organization and clarity that needed to be addressed.

The final revised methodology calls for quantifying net GHG emissions reductions and removals (NERs) according to project activity in each monitoring period by subtracting gross reductions and removals from the buffer amount allocation. Uncertainty is addressed through the use of weighted standard errors of estimates from the baseline emissions calculations and project case carbon stock measurements. The methods for calculation of emission reductions and removals from the methodology are appropriate, adequate and in compliance with the VCS Standard, section 4.7.1. The review team determined that the equation and formulas are used without error and parameters for quantification of emissions are used appropriately in calculating all significant emissions.



3.10 Monitoring

The data and parameters monitored are unchanged from the previous version of the methodology.

Data and parameters available at validation

Data parameter	Assessment team findings
ΔC _{BSL,degrad-FW/C}	This data/parameter was included because it pertains to net GHG emissions in the baseline caused by degradation induced by fuelwood collection and charcoal production. This value is derived conservatively from approved module BL-DFW and is compliant with VCS rules for default values.
$\Delta C_{BSL,planned}$	This data/parameter was included because it pertains to net GHG emissions in the baseline from planned deforestation. This value is derived conservatively from approved module BL-PL and is compliant with VCS rules for default values.
$\Delta C_{BSL,unplanned}$	This data/parameter was included because it pertains to net GHG emissions in the baseline from unplanned deforestation. This value is derived conservatively from approved module BL-UP and is compliant with VCS rules for default values.
ΔCLK-AS,degrad-FW/C	This data/parameter was included because it pertains to net GHG emissions due to activity-shifting leakage caused by degradation induced by fuelwood collection and charcoal production. Calculating leakage from forest degradation caused by fuelwood/charcoal production was found to be a suitable way to account for leakage. This value is derived conservatively from approved module LK-DFW and is compliant with VCS rules for default values.
ΔC _{LK-AS,planned}	This data/parameter was included because it pertains to net GHG emissions due to activity-shifting leakage from planned deforestation. Calculating leakage from the shifting of an identified deforestation agent was found to be a suitable way to account for leakage. This value is derived conservatively from approved module LK-ASP and is compliant with VCS rules for default values.
ΔCLK-AS,unplanned	This data/parameter was included because it pertains to net GHG emissions due to activity-shifting leakage from unplanned deforestation. Calculating leakage from displaced immigrant agents and local rAster Globaldents was found to be a suitable way to account for leakage. This value is derived conservatively from approved module LK-ASU and is compliant with VCS rules for default values.



Δ C _{LK-ME}	This data/parameter was included because it pertains to net GHG emissions due to market-effects leakage. Calculating leakage from the limit of timber supply of fuelwood supplied to a market was found to be a suitable way to account for leakage. This value is derived conservatively from approved module LK-ME and is compliant with VCS rules for default values.
$\Delta {\sf C}_{BSL ext{-}ARR}$	This data/parameter was included because it pertains to net GHG emissions in the ARR baseline scenario up to year <i>t*</i> . This value is derived conservatively from approved module BL-ARR and is compliant with VCS rules for default values.
$\Delta C_{BSL ext{-WRC}}$	This data/parameter was included because it pertains to net GHG emissions in the WRC baseline scenario up to year <i>t*</i> . This value is derived conservatively from approved module BL-PEAT and is compliant with VCS rules for default values.
E _{FC,it}	This data/parameter was included because it pertains to net GHG emissions in the WRC baseline scenario up to year <i>t</i> *. This value is derived conservatively from approved module E-FFC and is compliant with VCS rules for default values.
N ₂ O _{direct-N,i,t}	This data/parameter was included because it pertains to direct N ₂ O emissions as a result of nitrogen application on the later native land use within the project boundary in stratum <i>i</i> in year <i>t</i> *. This value is derived conservatively from approved module E-NA and is compliant with VCS rules for default values.
GHG _{LK-ECO}	This data/parameter was included because it pertains to net GHG emissions due to ecological leakage from the WRC activity up to up to year <i>t</i> *. This value is derived conservatively from approved module LK-ECO and is compliant with VCS rules for default values.

Data and parameters monitored

Data parameter	Assessment team findings
∆C _{WPS-REDD}	This data/parameter was included because it pertains to net GHG emissions in the REDD project scenario up to year <i>t*</i> . Calculating net GHG emissions using this module is suitable because it has been previously assessed and validated (formerly known as M-MON). This value is derived conservatively from approved module M-REDD and is compliant with VCS rules for default values.
ΔC _{WPS-ARR}	This data/parameter was included because it pertains to net GHG emissions in the ARR project scenario up to year t^* . Calculating



	net GHG emissions using this module is suitable because it is specific to ARR monitoring activities on peat and mineral soils. This value is derived conservatively from approved module M-ARR and is compliant with VCS rules for default values.
GHG,wps-wrc	This data/parameter was included because it pertains to net GHG emissions in the WRC project scenario up to year t^* . Calculating net GHG emissions using this module is suitable because it is specific to WRC monitoring activities on peat carbon pools due to drainage, rewetting, and fire. This value is derived conservatively from approved module M-PEAT and is compliant with VCS rules for default values.

The assessment team concludes that monitoring procedures for the methodology as appropriate, adequate and in compliance with VCS rules.

4 ASSESSMENT CONCLUSION

Environmental Services Inc. completed the first assessment of Revision and Extension of VCS Methodology VM0007. The assessment team confirms that the methodology and new revisions adhere to the criteria established for this assessment and are documented and complete. The latest reviewed versions include:

- VMD0007 BL-UP v3.3 01NOV2019 CLEAN.docx"
- O VMD0009 LK-ASP v1.3 17APR2019 CLEAN.docx"
- VMD0010 LK-ASU v1.2 03JAN2020 CLEAN.docx"
- o VMD0013 E-BPB v1.2 03JAN2020 CLEAN.docx"
- VMD0015 M-REDD, v2.2 28JAN2020 CLEAN.docx"
- o VMD0016 X-STR_v1.2_02JAN2020 CLEAN.docx"
- o VMD0017 X-UNC v2.2 15DEC2017 CLEAN.docx"
- O VMD0041 BL-ARR v1.1 02JAN2020 CLEAN.docx"
- o VMD0042 BL-PEAT v1.1 23MAY2019 CLEAN.docx"
- o VMD0044 LK-ECO v1.1 26JUL2018 CLEAN.docx"
- o VMD0045 M-ARR v1.1 02JAN2020 CLEAN.docx"
- VMD0046 M-PEAT v1.1_08NOV2019 CLEAN.docx"
- o ADD-AM v1.0 15DEC2017 CLEAN.docx"
- o BL-TW v1.0 09MAR2020 CLEAN.docx"
- o M-TW v1.0 28FEB2020 CLEAN.docx"
- O VM0007 REDD+MF v1.6 02MAR2020 CLEAN.docx"
- VMD0007 BL-PL_v1.3_01NOV2019 CLEAN.docx"

ASTER GLOBAL approved changes to the methodology and concludes without any qualifications or limiting conditions that the methodology element documentation (VM0007: REDD + Methodology Framework, version 1.6 6 March 2020) meets the requirements of the: VCS Program Guide v3.7, VCS Standard v3.7, VCS AFLOU Requirements v3.6, and the VCS Methodology Approval Process v3.7. Therefore, ASTER GLOBAL recommends that VCSA approve the revised methodology





element (VM0007: REDD + Methodology Framework, version 1.6 6 March 2020) as prepared by Restore Americas Estuaries and Silvestrum Climate Associates.

5 REPORT RECONCILIATION

The second assessment report and final iterations of the methodological documents were reviewed. Some clarifications were requested, however no additional revisions to the methodology were required.

6 EVIDENCE OF FULFILMENT OF VVB ELIGIBILITY REQUIREMENTS

As set out in the VCS Methodology Approval Process for AFOLU:

- 1) Both validation/verification bodies shall be eligible under the VCS Program to perform validation for sectoral scope 14 (AFOLU); AND
- 2) At least one of the validation/verification bodies shall use an AFOLU expert in the assessment; AND
- 3) At least one of the validation/verification bodies shall have completed at least ten project validations in any sectoral scope. Project validations can be under the VCS Program or an approved GHG program, with the projects having been registered under the applicable program. A validation of a single project under more than one program (e.g., VCS and CDM) counts as one project validation. The validation/verification body that meets this eligibility requirement may be the same validation/verification body that uses an AFOLU expert.

ASTER GLOBAL fulfils the eligibility requirements in the following ways:

- 1) ASTER GLOBAL is accredited by the American Standards Institute under ISO 14065:2007 for GHG Validation and Verification Bodied; including validation/verification of assertions related to GHG emission reductions and removals at the project level for Land Use and Forestry (Group 3). VCS accepts this accreditation.
- 2) ASTER GLOBAL utilized Shawn McMahon, a WRC non-peatlands expert and Dr. Guy Pinjuv, and IFM/REDD expert who participated in all relevant meetings and completed a comprehensive technical review.
- 3) To date, ASTER GLOBAL has completed 30 VCS project validations under AFOLU. Please see Appendix C for the required evidence.

7 SIGNATURE

Signed for and on behalf of:

Name of entity: Aster Global



Janice memphon

Name of signatory:

Janice McMahon

President

Name of signatory:

Shawn McMahon

gu M. Mh

Lead Verifier

Date:

06 May 2020

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Appendix A – NCRs/CL/OFIs

Item 1	
VCS Standard	3.15.1 GHG emissions and/or removals shall be
VCS Version 3 Requirements Document	estimated for each GHG source, sink and/or
08 October 2013, v3.4	reservoir relevant for the project (including
00 0010001 2010, 10.4	leakage) and the baseline scenario.
Evidence Used to Assess (Location in PD/MR	VM0007 REDD+MF v1.6 public comment.docx
or Supporting Documents)	(Section 4.5.5)
ESI Findings - Round 1	Section 4.5.5 Tidal Wetlands of the methodology
ESI Findings - Round 1	states that "For tidal wetlands restoration project activities, prior to the project start date, the project area must meet the following conditions: b) Is under a land use that could be displaced outside the project area (e.g., timber harvesting), although in such case, emissions from this land use shall not be accounted for." It is not clear why land uses that could be displaced outside the project area shall not be accounted for. This is a classic example of leakage that should be included in GHG emissions and/or removals estimated per
	section 3.1.5 of the VCS standard and section
Round 1	4.6.9 of the AFOLU requirements.
NCR/CL/OFI	NCR: Please clarify why land uses that could be
NCR/CL/OFI	displaced outside the project area "shall not be accounted for".
	accounted for .
	Else, please update estimation of GHG emissions and/or removals for each GHG source, sink and/or reservoir relevant for the project (including leakage) and the baseline scenario.
Round 1 Response from Project Proponent	IME: Indeed this may look as if a classical leakage
	emission would not be accounted for. These applicability conditions were copied from VM0033, where, like here, leakage related to WRC restoration projects is excluded by setting certain applicability conditions (see footnote 19). If activity shifting could occur, not accounted for are the baseline emissions from the activity within the project area. We now added 'baseline' to 'emissions' to help clarify this. Any potential leakage emission would be compensated by not accounting baseline emissions. In this approach, a 'stop-loss' component would become null and void. If activity shifting in reality does happen, the project does not benefit since the project was not allowed to account for the emissions associated with the activity. If activity shifting in reality does not happen, the approach is conservative because the project was not allowed to account for the emissions that were in fact a benefit of the project. Note that this applicability condition was included for projects restoring tidal wetlands that may gain significant GHG removals far exceeding any potential leakage loss. Projects just focusing on



	stop-loss and facing activity shifting would not
	result in any emission reduction. In discussions
	with validators of VM0033 and the VCS (Sam
FOI Findings - Down d O	Hoffer) this was considered a valid approach.
ESI Findings - Round 2	If this is the assumption (no leakage in trees
	offsite, because trees are credited onsite, then you
	should have to monitor trees onsite over time to
Final FOI Findings	make sure stocks are not declining over time)
Final ESI Findings	This item was originally pending discussion w Silvestrum and VCS, these are summarized below:
	No finding was issued, and the item was closed. See discussions with VCS, Silvestrum, and ESI below that resolved issue:
	Amy Schmid, VCS 22 June, 2017: "Based on our call, we understand there were a few different options discussed (i.e., either to remove the applicability condition or to require monitoring of carbon pools that are included in the project area, but not credited per this applicability condition). Our understanding is that those options seemed amenable to both the development team and ESI. If that's the case, we are comfortable for either of these options to move forward. Please do let VCS know which option is followed, as VCS will need to update VM33 (which includes the same applicability condition) accordingly."
	Shawn McMahon, ESI: "From last week's discussion we have just one follow up item on the leakage question. As you indicated, "not accounting for the baseline emission either balances potential leakage emissions or is conservative if such leakage would not occur." However, that only works if the baseline forested component remains in place for the duration of the crediting period. If those trees were to suffer mortality, the role they play to balance leakage is negated. More to the point, without measuring those trees at the outset of the project (i.e. baseline) there is little way to know what volume (and potential leakage-balancing ability) has been lost to mortality. In some cases you might be able to reconstruct this from the dead and down tree and allometrics but in many cases this would not be practical and the impact to the leakage-balancing ability would not be quantifiable. For the leakage-balancing argument to be valid it would seem you would need to measure the baseline aboveground biomass pool at the outset and monitor any losses during the crediting period, as suggested in item 3 from Amy's June 22nd email."
	Igino Emmer, Silvestrum 05 July 2017: "The standing stock of trees that exists at t_zero does



not play a role in balancing leakage emission. This balancing is achieved by not accounting for baseline emissions related to baseline tree harvesting. The trees that exist at t_zero become project trees and are measured at t_zero (contrary to your more-to-the-point argument) and in the regular monitoring. The project only benefits from tree growth during the crediting period. If the trees die, the entire loss is accounted for and this may cause a big negative on the credit balance of the project, as discussed."

Guy Pinjuv, ESI 07/07/2017: "Hello Igino, Can you direct me to the section of the methodology where there a requirement for "The trees that exist at t_zero become project trees and are measured at t_zero", in the case that above ground carbon in trees is not included in the project boundary? I believe this is the source of the confusion. Potential leakage in this pool (caused by stopping harvesting in the project area) can only be accounted for if trees are measured, even if they are not included in the project boundary."

Igino Emmer, Silvestrum 10 July 2017: "The mandatory measurement of tree carbon stocks is indicated in Table 5 of REDD+ MF. AR tool 14 provides monitoring procedures. In the stock change approach the stocks at the start and the end of each monitoring event are measured. There is no option to not include trees in de project area. This is a mandatory pool."

Item 2	
VCS Standard	3.15.2 The net GHG emission reductions and
VCS Version 3 Requirements Document	removals generated by the project shall be
08 October 2013, v3.4	quantified.
Evidence Used to Assess (Location in PD/MR	VM0007 REDD+MF_v1.6_public comment
or Supporting Documents)	(Section 8.2)VMD0045 M-ARR_v1.1_public
	comment.docxVM0007 REDD+MF_v1.6_ESI
	RD2_20170612 (Section 1)
ESI Findings - Round 1	Section 8.2 of the REDD-MF document
	summarized the net GHG emission reductions and
	removals generated by the project. This section is
	largely unchanged, and refers to Modules M-ARR
	(that has been modified).However, Module M-ARR
	has been undergone a major changes and it is not
	clear that the integrity of the overall methodologies
	use of the tool has not been adversely
	impacted.These changes may or may not affect the
	integrity of methodologies use of the tool (i.e. older
	projects that used this methodology, or
	consistency). For instance M-ARR used to depend



	on CDM methodology AR-ACM0003 Afforestation and reforestation of lands except wetlands and associated tools. The use of this tool has been removed altogether.NOW in M-ARR: GHG emissions and removals under the ARR project scenario on mineral soils are estimated using the procedures provided in AR-Tool14 "Estimation of carbon stocks and change in carbon stocks of trees and shrubs in A/R CDM project activities"
Round 1	CL: Please discuss the changes to M-ARR, and
NCR/CL/OFI	demonstrate how these changes have not adversely impacted the integrity of the overall methodologies use of the tool.
Round 1 Response from Project Proponent	IME: Instead of referring to ACM0003 we refer to Tool 14, which is the module used by ACM0003 that contains the actual procedures for trees and shrubs. ACM0003 excludes wetlands because procedures covering specific wetlands conditions are lacking (CDM has its dedicated mangrove restoration methodology ARAM0014). Tool 14 contains procedures focussing only on tree and shrub biomass that apply to tree and shrub vegetations in wetlands equally (ACAM0014 also uses tool 14). Tool 14 has no internal applicability conditions. In Sources we added Tool 14 (we now deleted module BL-TW because it is not being used in BL-ARR). In Appl Cond, because we do not anymore refer to ACM0003 and instead use Tool 14 directly, we removed the reference to the appl cond in ACM0003 and the language referring to ACM0003 excluding wetlands; we added a condition that ARR may not occur on undegraded wetland. Procedures now include trees/shrubs (tool 14) as well as herbal vegetation (which is relevant for wetlands). Procedures for herbs are taken from VM0033. Various equations needed to be changed for this but the functionality is unaltered. Since we includes harvesting (see item 14, 17) we added procedures for long-term average carbon stocks in trees and shrubs, supported by procedures in M-ARR. Also added are procedures related to sea level rise to make sure that claiming credits from removals is done conservatively in the face of sea level rise and potential drowning of wetlands and concomitant loss of carbon. Conclusion: procedures for trees and shrub remain unaltered; added are long-term average related to harvesting and loss due to drowning, and herbs.
ESI Findings - Round 2	While reviewers agree that referring directly to Tool
	14 is not a conceptually a problem, as it is one of the tools used in ACM0003. The original version of the methodology (VM0007) also used other sub

v3.1 44



tools that may have affected project accounting, each containing its own set of applicability conditions and accounting procedures, these include:(i) "Combined tool to identify the baseline scenario and demonstrateadditionality in A/R CDM project activities;"iii) "Estimation of carbon stocks and change in carbon stocks in dead wood and litter in A/R CDM project activities;"(iii) "Tool for estimation of change in soil organic carbon stocks due to the implementation of A/R CDM project activities;"(iv) "Estimation of non-CO2 greenhouse gas (GHG) emissions resulting from burning of biomass attributable to an A/R CDM project activity;"(v) "Estimation of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in A/R CDM project activity; Please address the exclusion of each of these tools, discussing the individual applicability conditions and accounting procedures in each, and show that the exclusion will not adversely impacted the integrity of the overall methodology (focusing on M-ARR). One point to address closely will be the exclusion of (Tool for estimation of change in soil organic carbon stocks due to the implementation of A/R CDM project activities) that was previously used in ACM0003. Now it appears that soil carbon is accounted for tool 14 alone, M-ARR now states: "GHG emissions and removals under the ARR project scenario on mineral soils are estimated using the procedures provided in AR-Tool14 "Estimation of carbon stocks and change in carbon stocks of trees and shrubs in A/R CDM project activities". It appears that the use of mineral soil tool (iii) has been removed and has been replaced with VMD0004 for the non-organic soils.

Round 2 NCR/CL/OFI

CL: Please address the exclusion of each of the tools used in ACM0003, discussing the individual applicability conditions and accounting procedures in each, and show that the exclusion will not adversely impact the integrity of the overall methodology. CL: One related point to address is the exclusion of (Tool for estimation of change in soil organic carbon stocks due to the implementation of A/R CDM project activities) that was previously used in ACM0003, and M-ARR currently stating that "GHG emissions and removals under the ARR project scenario on mineral soils are estimated using the procedures provided in AR-Tool14 "Estimation of carbon stocks and change in carbon stocks of trees and shrubs in A/R CDM project activities". It appears that the use of mineral soil tool (iii) has been removed and has been replaced with VMD0004 for



VCS | VERIFIED | METHODOLOGY ELEMENT ASSESSMENT REPORT: VCS Version 3

	the non-organic soils, and this statement may be contradictory.
Round 2 Response from Project	IME: We reverted to using ACM0003 as in version 1.0 with added procedures for herbs, harvesting and submergence due to sea level rise.
Final ESI Findings	Finding Closed: The approach of reverted to using ACM0003 as in version 1.0 with added procedures for herbs, harvesting and submergence due to sea level rise addresses both findings including:the exclusion of both ACM0003, and Tool for estimation of change in soil organic carbon stocks due to the implementation of A/R CDM project activities.

Item 3	
VCS Standard	3.16.1 Data and parameters used for the quantification of
VCS Version 3 Requirements Document	GHG emission reductions and/or removals shall be
08 October 2013, v3.4	provided in accordance with the methodology.
Evidence Used to Assess (Location in PD/MR or	VMD0016 X-STR_v1.2_public comment (section 6)
Supporting Documents)	
	Good Practice Guidance
	for Land Use,
	Land-Use Change and Forestry (section 4.3.5.4)
	VMD0016 X-STR_v1.2_ESI RD2_20170613 (section 6)
ESI Findings - Round 1	The "Source of data", for data and parameters (such as
	Depthsoil,i,t0 from X-STR) does not fully describe what is
	meant by "literature".
Round 1	OFI: Please describe for each of the parameters what
NCR/CL/OFI	sources of literature are considered appropriate (i.e. peer
	reviewed), such that the sources comply with VCS
	requirements for data and parameters.
Round 1 Response from Project Proponent	We refer to datasets. Peer-reviewed would be a little
	overdemanding. We changed 'literature' into 'literature
	datasets'
ESI Findings - Round 2	Finding Open: Data and parameter sources of data do not
	appear to meet the VCS requirements (AFOLU 4.5.1).
	AFOLU 4.5.1 specifies that "Methodologies shall establish
	procedures to quantify the GHG emissions or removals for
	the project and baseline scenario. The IPCC 2006
	Guidelines for National GHG Inventories or the IPCC 2003
	Good Practice Guidance for Land Use, Land-Use Change
	and Forestry shall be used as guidance for quantifying
	increases or decreases in carbon stocks and GHG
	emissions." These good practice guidelines specify both
	good practice procedures used for measurement of
	Mineral soil depth, and also procedures for what types of
	datasets are acceptable.
Round 2	Note, this finding has been changed to a CL, based on
NCR/CL/OFI	requirements in AFOLU 4.5.1
	CL: Please ensure that for each of the parameters, the
	Source of data (literature source considered appropriate
	for datasets), is described such that the sources comply

46



VCS | VERIFIED | METHODOLOGY ELEMENT ASSESSMENT REPORT: VCS Version 3

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	with the IPCC 2006 Guidelines for National GHG Inventories or the IPCC 2003 Good Practice Guidance for Land Use, Land-Use Change and Forestry.
Round 2 Response from Project	IME: In the absence of peer-reviewed data sources, IPCC 2006 allows for assessing each data source individually to make a determination of suitability. IPCC 2006 table 2.2 suggests for survey, measurement and monitoring data to use data from Universities (environmental, measurement and monitoring departments) with the comment that one needs to make sure the factors are representative and that standard methods are used. Based on this we added that the 'project proponent must justify that the data used are representative and that standard methods have been used'.
Final ESI Findings	The language taken from IPCC and added requiring that "factors are representative and that standard methods are used" is sufficient to address the finding. Finding addressed.
W A	
Item 4	4.2.1 Eligible ARR activities are those that increase
VCS AFOLU Requirements Version 3.4 (ARR) (08 October 2013)	carbon sequestration and/or reduce GHG emissions by establishing, increasing or restoring vegetative cover (forest or non forest) through the planting, sowing or human-assisted natural regeneration of woody vegetation. Eligible ARR projects may include timber harvesting in their management plan. The project area shall not be cleared of native ecosystems within the 10 year period prior to the project start date, as set out in Section 3.1.6.
Evidence Used to Assess (Location in PD/MR or Supporting Documents)	VMD0041 BL-ARR_v1.1_public comment.docx (section 4)
ESI Findings - Round 1	The updated module VMD0041 BL-ARR_v1.1_public comment.docx (section 4) has removed 2 applicability conditions of the previous version of the module: • The applicability conditions set out in AR-ACM0003 Afforestation and reforestation of lands except wetlands must be met. • Applicability conditions included in AR-ACM0003 Afforestation and reforestation of lands except wetlands and corresponding tools that exclude project activities on wetlands can be disregarded for the purpose of their use
Round 1 NCR/CL/OFI	in this module, as accounting procedures for the peat soil are provided in module BL-PEAT. It is not clear that this tool revision has maintained the integrity of methodologies that use the tool, and that those methodologies have not been adversely impacted. CL: Please clarify how removing 2 applicability conditions has maintained the integrity of all methodologies that use
Round 1 Response from Project Proponent	this tool, and that those methodologies have not been adversely impacted. IME: Instead of referring to ACM0003 we refer to Tool 14,
Round 1 Response from Project Proponent	which is the module used by ACM0003 that contains the

v3.1 47



actual procedures for trees and shrubs. ACM0003 excludes wetlands because procedures covering specific wetlands conditions are lacking (CDM has its dedicated

mangrove restoration methodology ARAM0014).

Tool 14 contains procedures focussing only on tree and shrub biomass that apply to tree and shrub vegetations in wetlands equally (ACAM0014 also uses tool 14). Tool 14 has no internal applicability conditions. In Sources we

	added Tool 14 (we now deleted module BL-TW because it is not being used in BL-ARR). In Appl Cond, because we do not anymore refer to ACM0003 and instead use Tool 14 directly, we removed the reference to the appl cond in ACM0003 and the language referring to ACM0003 excluding wetlands; we added a condition that ARR may not occur on undegraded wetland. Procedures now include trees/shrubs (tool 14) as well as herbal vegetation (which is relevant for wetlands). Procedures for herbs are taken from VM0033. Various equations needed to be changed for this but the functionality is unaltered. Since we includes harvesting (see item 14, 17) we added procedures for long-term average carbon stocks in trees and shrubs, supported by procedures in M-ARR. Also added are procedures related to sea level rise to make sure that claiming credits from removals is done conservatively in the face of sea level rise and potential drowning of wetlands and concomitant loss of carbon. Conclusion: procedures for trees and shrub remain
	unaltered; added are long-term average related to harvesting and loss due to drowning, and herbs.
Final ESI Findings	Finding Closed: The approach of reverted to using ACM0003 as in version 1.0 with added procedures for herbs, harvesting and submergence due to sea level rise addresses both findings including: the exclusion of both ACM0003, and Tool for estimation of change in soil organic carbon stocks due to the
	implementation of A/R CDM project activities.
Item 5	
VCS AFOLU Requirements Version 3.4 (ARR) (08 October 2013)	4.3.7 Where the methodology is applicable to projects that may reduce the aboveground non-woody biomass, belowground biomass, litter, dead wood or soil pools above de minimis (as set out in Section 4.3.3), the relevant carbon pool shall be included in the project boundary.
Evidence Used to Assess (Location in PD/MR or Supporting Documents)	"VM0007 REDD+MF_v1.6_public comment.docx (Table 5) VM0007 REDD+MF_v1.6_ESI RD1_20170515 (table 5) BL-TW_v1.0_ESI RD1_20170515.docx
	M-TW_v1.0_ESI RD1_20170515.docx
	1



	VMD0013 E-BPB v1.1 ESI-RD2 20170612.docx"
ESI Findings - Round 1	Table 5: Carbon Pools in Baseline and Project Scenario of
Lorr mangs - Round 1	ARR Project Activities includes relevant carbon pools in
	the project boundary. This table has changed slightly in
	the revision of the REDD-MF document and most of the
	changes in the revision were minor. However, some
	information was deleted that should be left in the table for
	clarity.
	For the Deadwood carbon pool, in Wetlands, the following
	text was deleted in the revision "Given the applicability
	conditions that the project area for ARR is non-forest land or land with degraded forest and that the project scenario
	does not involve the harvesting of trees, the dead wood
	carbon pool will increase due to project implementation. It
	is therefore conservative not to include dead wood. <u>If</u>
	included, dead wood must be accounted for using
	procedures in modules CP-D, BL-ARR and M-ARR.".
	The review team agrees, if harvesting is allowed in the
	project scenario most of deleted text is reasonable,
	however the final sentence should be left in for clarity, "If
	included, dead wood must be accounted for using
Round 1	procedures in modules CP-D, BL-ARR and M-ARR." CL: Please include the following sentence in Table 5 for
NCR/CL/OFI	the Deadwood carbon pool in Wetlands, "If included, dead
	wood must be accounted for using procedures in modules
	CP-D, BL-ARR and M-ARR."
Round 1 Response from Project Proponent	IME: We re-inserted the underlined sentence (bar CP-D,
	because this module relates to REDD procedures not ARR).
	This made us realise that we omitted to include
	parameters for biomass burning in the TW modules.
	prescribed burning is an accepted project activity, as in
	VM0033. We added an applicability condition to this end,
	and the term for biomass burning in Table 9 of REDD+MF
	and Eq 1 of M-TW , as per VM0033 . We corrected equations 2, 3 and 4 in M-TW by replacing bls with wps.
	oquations 2, o and + in ivi-1 vv by replacing his with wps.
ESI Findings – Round 2	Finding Open: It is not immediately clear to the verifiers
	why the use of module CD-P was deleted from table 4, as
	this module was included in REDD-MF v1.5. The response indicates that this is related to REDD
	procedures not ARR, however this language was present
	in REDD+ Methodology Framework (REDD-MF) v1.5
	(table 4). CP-D was included in version 1.5 for ARR
	project activities on Mineral Soil and on Peatland.
	New findings related to inclusion of Biomass Burning:
	Equation additions in TW modules to address biomass
	burning are appropriate to this methodology revision.
	Biomass burning will be relevant only to revised modules
	for Tidal Wetlands (RWE, and AUWD). Biomass burning
	is not applicable to ARR projects (see table 4 of the



REDD-MF document).

	TCDD-Will document).
	The module E-BPB will need to be modified to address newly added WRC project activities (Tidal Wetlands). Currently the module only considers peatlands.
Round 2 NCR/CL/OFI	CL: Please clarify why CP-D is not relevant for ARR project scenarios in this version of the methodology, when it was in V1.5.
	CL: Please modify the E-BPB to address newly added WRC project activities (Tidal Wetlands). Currently the module only considers peatlands.
Round 2 Response from Project Proponent	IME CL 1: See also response to item 2. Referring to ACM0003 means that the A/R CDM deadwood tool is now also involved. ACM0003 and its associated tools covers the funtionality of the CP modules. Mentioning CP-D in the previous version was an error.
Final ESI Findings	IME CL2 : E-PBP revised. Thanks for spotting this. CL1: Item addressed, the methodology now refers to ACM0003, meaning that the A/R CDM deadwood tool is now also used.
	CL2: Item addressed, E-PBP revised to address newly added WRC project activities (Tidal Wetlands).
Item 6	4.4.2 (No specific requirements)
VCS AFOLU Requirements Version 3.4 (ARR) (08 October 2013)	4.4.2 (No specific requirements)
Evidence Used to Assess (Location in PD/MR or Supporting Documents)	VMD0045 M-ARR_v1.1_public comment (Page 7)
ESI Findings - Round 1	The Module M-ARR has also been revised with some significant changes that appear to affect baseline and project crediting.
	One of which deals with "ARR on wetlands influenced by sea level rise"
	The revision of M-ARR gives carbon credits for planting trees in ARR situations (afforestation or reforestation). The revision text sounds like it's possible to get more credits for cutting these planted trees down in the future (quantifying carbon in wood products that were not inundated by sea level rise).
	M-ARR states,
	"Biomass may be lost due to subsidence following sea level rise. For strata where conversion to open water is expected before t = 100, the maximum stock in tree and shrub biomass (CTREE,i,t and CSHRUB,t, respectively) used in AR-Tool14 is limited to CAVG-TREE,i, as



	reforestation components may account for long-term carbon storage in wood products in case trees are harvested before dieback. In this case, the parameter CTREE,t in equation 4 must be read as CTREE,i,t + CWP,i,t. CAVG-SHRUB,i is calculated as follows:" Some issues related to this revision include: • The project activity (planting trees in a future tidal flood zone), should not be credited in the first place. In this case, the baseline may not have been originally calculated
	 Giving more credit for cutting these same trees down (or the portion that is fixed in long lived wood products), provides a perverse incentive for planting trees in future flood zones with the intent on harvesting.
Round 1 NCR/CL/OFI	NCR: Please address the review findings, or revise the methodology and module.
Round 1 Response from Project Proponent	IME: An ARR project can claim GHG removals using modules BL-ARR and M-ARR as long as the crediting period lasts. After the crediting period, the risk buffer ensures that if risks of reversal materialises, issued credits are safe. However, sea level rise is not seen as a risk factor, it is a given than needs to be accounted for. One effect of SLR is that project trees drown and die, causing GHG emissions. These emissions need to be accounted for. If submergence occurs withing 100 years (the permanence limit under the VCS standard) all carbon stored previous should be counted as lost. However, of trees were harvested before submergence, that loss can be partially mitigated (given the parameters in the equations only some 20%. This is therefore NOT double counting, this is rather a very prudent and conservative approach.
ESI Findings – Round 2	Finding Open: Sea level rise not accounted for in ARR baseline (i.e. credits are given for planting), while seal level rise is included for baseline consideration in TW. The current approach is double counting, and is only conservative in the sense that whole trees are not counted twice (only portions of trees). If sea level rise is eminent in a project area, the original carbon in planted trees should not be a positive credit (but negative at the project start date) for ARR projects.
Round 2 NCR/CL/OFI	NCR: Please address the review findings, or revise the methodology and module.
Round 2 Response from Project Proponent	IME: An ARR project can claim GHG removals using modules BL-ARR and M-ARR as long as the crediting period lasts. After the crediting period, the risk buffer ensures that if risks of reversal materialises, issued credits are safe. However, sea level rise is not seen as a risk factor, it is a given than needs to be accounted for. One effect of SLR is that project trees drown and die, causing



Final ESI Findings	GHG emissions. These emissions need to be accounted for. If submergence occurs withing 100 years (the permanence limit under the VCS standard) all carbon stored previous should be counted as lost. However, of trees were harvested before submergence, that loss can be partially mitigated (given the parameters in the equations only some 20%. This is therefore NOT double counting, this is rather a very prudent and conservative approach. Finding Closed: Per discussions with VCS, and internally with the ESI team, the volume of biomass in trees grown, will be approximately equal to the carbon lost during inundation. In this case there is no negative additionality
	of planting project trees. Carbon stored in wood products will be additional and accounted for using CP-W.
Item 7	
VCS AFOLU Requirements Version 3.4 (ARR)	SEE EQUATION ON PAGE 45
(08 October 2013)	
Evidence Used to Assess (Location in PD/MR or Supporting Documents)	VMD0045 M-ARR_v1.1_public comment.docx (page 6)
,	VMD0045 M-ARR_v1.1_ESI RD1_20170515 (equation 5)
	VMD0045 M-ARR_v1.1_ESI RD2_20170609 (equations 2 and 3)
	VMD0045 M-ARR_v1.1_ESI RD2_20170613 (equation 2)
ESI Findings - Round 1	The revised tool does not explicitly state the equation to estimate LA = The long-term average GHG benefit.
Round 1 NCR/CL/OFI	CL: Please state the equation to estimate LA = The long- term average GHG benefit in the revised tool (M-ARR)
Round 1 Response from Project Proponent	IME: Equation 5 is used and this is not to calculate the "long-term average GHG benefit" but a "Long-term average carbon stock."
ESI Findings – Round 2	Finding Open: Equation 5 of M-ARR estimates Long-term average carbon stock in baseline or project tree biomass within the project area (CAVG-TREE,i, see related finding below). Please insert equation following Page 45 of AFOLU requirements to estimate LA (The long-term average GHG benefit in the revised tool (M-ARR))
Round 2 NCR/CL/OFI	NCR: Please insert equation following Page 45 of AFOLU requirements to estimate LA (The long-term average GHG benefit in the revised tool (M-ARR))
Round 2 Response from Project Proponent	IME: Equation for LA has been added. Instead of a summation of emissions and removals in baseline and project scenario we use the annualized term NGR-ARR in 8.4.3 in REDD+ MF. Calculations of LTA for harvesting and submergence cases within the crediting period are now similar. For biomass loss due to submergence after the crediting period the equation for LA is not suited and the LTA is limited to tree carbon stocks. In REDD+ MF in section 8.4.3 we added: "Where ARR projects include harvesting, the loss of carbon due to harvesting must be included in the quantification of project



	emissions. The maximum number of GHG credits available to projects does not exceed the long-term
	average GHG benefit, which is calculated using the
	procedure in Module M-ARR."
ESI Findings – Round 3	Finding Open: The equations used to calculate the long-term average (equation 2) GHG benefit does not follow Section 4.5.5 (i.e. an extra term for leakaged is include).
	Section 3.1.9 states, "ARR or IFM projects with
	harvesting activities shall not be issued GHG credits
	above the long-term average GHG benefit maintained by
	the project. The long-term average GHG benefit shall be
	calculated as set out in Section 4.5.5".
Round 3	NCR: Please insert equation calculating long-term
NCR/CL/OFI	average GHG benefit as is set out in Section 4.5.5.
Round 3 Response from Project Proponent	Updatead files sent on 07/12/2017
Final ESI Findings	Finding addressed: The most recent version of M-ARR includes an equation (equation 3) for LA = The long-term average change in carbon stock as is set out in Section 4.5.5.
	The team agrees that leakage is actually included in section 4.5.5, where it states "Project scenario emission reductions and removals shall also consider project emissions of CO2, N2O, CH4 and leakage".

Item 8	
VCS AFOLU Requirements Version 3.4 (ARR)	SEE EQUATION ON PAGE 45
(08 October 2013)	
Evidence Used to Assess (Location in PD/MR or	VMD0045 M-ARR_v1.1_public comment.docx (page 6)
Supporting Documents)	
	VMD0045 M-ARR_v1.1_ESI RD2_20170613 (equation 3)
ESI Findings - Round 1	The revised tool does not explicitly state the equation to
	estimate LC = The long-term average change in carbon
	stock.
Round 1	CL: Please state the equation to estimate LC = The long-
NCR/CL/OFI	term average change in carbon stock in the revised tool
	(M-ARR)
Round 1 Response from Project Proponent	IME: Equation 5 is the same as the equation on p45 of the
	AFOLU requirements, it just has a notation adjusted to the
	application in M-ARR.
ESI Findings – Round 2	Finding Open: Equation 5 of M-ARR does not appear to
	be same as the equation on p45 of the AFOLU
	requirements for LC (The long-term average change in
	carbon stock). This equation should be used to determine
	the number of buffer credits to withhold is based on the
	change in carbon stocks only (not the net GHG benefit),
	as such the buffer credits are based on the long-term
	average change in carbon stock.
	The LC equation contains 2 terms:
	The LC equation contains 2 terms:
	PC = The carbon stock in the project scenario (tCO2e)
	1 0 The sarbon stock in the project section (tooze)



	BC = The carbon stock projected for the baseline scenario (tCO2e)
Round 2	CL: Please state the equation to estimate LC = The long-
NCR/CL/OFI	term average change in carbon stock (equation on p45 of
December 10 December 1 Company 1 of December 1	the AFOLU requirements) in the revised tool (M-ARR).
Round 2 Response from Project Proponent	IME: Equation 5 is the same as the equation on p45 of the AFOLU requirements, it just has a notation adjusted to the application in M-ARR.
ESI Findings – Round 3	Finding Open: The equation used to calculate the LC = The long-term average change in carbon stock (equation 3) does not follow Section 4.5.5 (i.e. an extra term for leakage is included). There also appears to be a typo (i.e. LA is used for the dependent variable)
	Section 3.1.9 states, "ARR or IFM projects with harvesting activities shall not be issued GHG credits above the long-term average GHG benefit maintained by the project. The long-term average GHG benefit shall be calculated as set out in Section 4.5.5".
Round 3 NCR/CL/OFI	NCR: Please insert equation calculating LC = The long- term average change in carbon stock as is set out in Section 4.5.5, and correct typo in equation 3 (LA)
Round 3 Response from Project Proponent	Updated files sent on 07/12/2017
Final ESI Findings	Finding addressed: The most recent version of M-ARR includes an equation (equation 3) for LC = The long-term average change in carbon stock as is set out in Section 4.5.5.

Item 9	
VCS AFOLU Requirements Version 3.4 (ARR) (08 October 2013)	4.6.9 Where deforestation increases outside the project area due to leakage from project activities, the effects of this deforestation on all carbon pools shall be assessed and quantified, unless determined to be de minimis (as set out in Section 4.3.3) or conservatively excluded (as set out in Section 4.3.4).
Evidence Used to Assess (Location in PD/MR or Supporting Documents)	VM0007 REDD+MF_v1.6_public comment.docx (Section 4.5.5)
ESI Findings - Round 1	Section 4.5.5 of the methodology does not appear to properly account for deforestation that may increase outside of the project area. Section 4.5.5 of the methodology states, "For tidal wetlands restoration project activities, prior to the project start date, the project area must meet the following conditions: b) Is under a land use that could be displaced outside the project area (e.g., timber harvesting), although in such case, emissions from this land use shall not be accounted for." It is not clear why land uses that could be displaced outside the project area shall not be accounted for. This is a classic example of leakage that shall be included in GHG emissions and/or removals estimated per section



	3.1.5 of the VCS standard and, is required to be
	accounted for per section 4.6.9 of the AFOLU
	requirements.
Round 1 NCR/CL/OFI	NCR: Please provide a mechanism to assess and quantify the effects of deforestation that increases outside the project area due to leakage from project activities on all carbon pools, that is not determined to be de minimis (as set out in Section 4.3.3) or conservatively excluded (as set out in Section 4.3.4).
Round 1 Response from Project Proponent	IME: Indeed this may look as if a classical leakage emission would not be accounted for. These applicability conditions were copied from VM0033, where, like here, leakage related to WRC restoration projects is excluded by setting certain applicability conditions (see footnote 19). If activity shifting could occur, not accounted for are the baseline emissions from the activity within the project area. We now added 'baseline' to 'emissions' to help clarify this. Any potential leakage emission would be compensated by not accounting baseline emissions. In this approach, a 'stop-loss' component would become null and void. If activity shifting in reality does happen, the project does not benefit since the project was not allowed to account for the emissions associated with the activity. If activity shifting in reality does not happen, the approach is conservative because the project was not allowed to account for the emissions that were in fact a benefit of the project. Note that this applicability condition was included for projects restoring tidal wetlands that may gain significant GHG removals far exceeding any potential leakage loss. Projects just focussing on stop-loss and facing activity shifting would not result in any emission reduction. In discussions with validators of VM0033 and the VCS (Sam Hoffer) this was considered a valid approach.
Final ESI Findings	See item 1. No finding was issued, and the item was closed. See discussions with VCS, Silvestrum, and ESI on row 173 from the standard tab that resolved issue.
Item 10	
VCS AFOLU Requirements Version 3.4 (WRC)	4.2.16 Eligible WRC activities are those that increase net
(08 October 2013)	GHG removals by restoring wetland ecosystems or that reduce GHG emissions by rewetting or avoiding the degradation of wetlands. The project area shall meet an internationally accepted definition of wetland, such as from the IPCC, Ramsar Convention on Wetlands, those established by law or national policy, or those with broad agreement in the peer-reviewed scientific literature for specific countries or types of wetlands. Common wetland

v3.1 55

specific countries or types of wetlands. Common wetland



Evidence Used to Assess (Legation in PD/MP or	types include peatland, salt marsh, tidal freshwater marsh, mangroves, wet floodplain forests, prairie potholes and seagrass meadows. WRC activities may be combined with other AFOLU project categories, as further explained in Section 4.2.20. VM0007 REDD+MF v1.6, sec 4.5 and section 3.
Evidence Used to Assess (Location in PD/MR or Supporting Documents)	VM0007 REDD+MF V1.6, sec 4.5 and section 3.
ESI Findings - Round 1	WRC activities include rewetting and avoided degradation. No definition of wetland given, but definitions section says that definitions in the VCS Programs Definitions document are used. Definition for wetland in program definitions document does not refer to internationally or nationally accepted definitions. RLS 03 April 2017
Round 1 NCR/CL/OFI	CL: Definition for wetland in Program Definitions v3.6 does not refer to internationally, nationally or other accepted definitions. Please identify the acceptable source of the definition for tidal wetlands.
Round 1 Response from Project Proponent	IME: There is a conflict between the AFOLU requirements and the Program Definitions. Formally, a methodology uses the definitions provided in the Program Definitions and the methodology only includes new definitions. To meet the AFOLU methodology requirements requires WRC methodologies to use the definition of wetlands that it provides despite the one in the Program Definitions. We like the definition in the WRC requirement (4.2.16) better than the one in the Program Definitions. The program definition is vague with respect to length and depth of saturation period, and the types of organisms, and most importantly, it only mentions water and plants, it doesn't mention wetland/hydric soil characteristics. A definition for wetland following 4.2.16 has been inserted in REDD+MF.
Final ESI Findings	Section 3 of the version of VM0007, file name VM0007 REDD+MF_v1.6_RD1_20170515.docx, includes the wording from AFOLU Requirement 4.2.16 for the definition of a wetland. Item closed.
Item 11	
VCS AFOLU Requirements Version 3.4 (WRC) (08 October 2013)	4.2.17 Avoiding the degradation or conversion of a wetland can reduce GHG emissions by preventing the release of carbon stored in wetland soils and vegetation. Many wetlands rely on a natural supply of sediments to support soil formation. Sediment supply may be interrupted by a physical alteration to the landscape, such as a river diversion, canal construction or isolation of wetlands behind man-made structures (eg, road or rail embankments, levees or dams). Restoring wetland ecosystems reduces and/or removes GHG emissions by creating the necessary physical, biological or chemical conditions that enhance carbon sequestration. Activities that affect the hydrology of the project area are only eligible where changes in hydrology result in the accumulation or maintenance of soil carbon

v3.1 56

stock.



Supporting Documents)

Evidence Used to Assess (Location in PD/MR or

METHODOLOGY ELEMENT ASSESSMENT REPORT: VCS Version 3

VM0007 REDD+MF v1.6, sec 4.5

Capperting Decaments)	
ESI Findings - Round 1	Applicability conditions exclude lowering water table unless open water is converted to wetlands, which increases and/or maintains SOC stock. Other changes in hydrology include rewetting, restoring tidal flow and otherwise managing hydrological conditions. 03 April 2017.
Round 1 NCR/CL/OFI	CL - Project activities that include changing hydrological conditions appear to be likely to increase or maintain SOC stock, however, all potential changes to hydrology may not be fully imagined by the validators. Please state that changes in hydrology must result in accumulation or maintenance of SOC stock.
Round 1 Response from Project Proponent	IME/BN/KD: Requirement 4.2.17 has a limited scope - i.e. RWE projects geared towards C sequestration - but there is another category of projects focussing on hydrology interventions increasing the salinity and therewith reduce CH4 emissions. A decrease in SOC stocks cannot a priori not be excluded but it is a by-effect that needs to be accounted for, not part of the principle of the intervention. We added a bullet point to this end. The VCS noted that "the ordering in section 4.5 makes it somewhat difficult to follow. It should be clear from the structure of the applicability conditions that APWD and AUWD above are subsets of CIW. This does not need to be updated before public comment, but is something we'll keep an eye out for in the future." We have reordered this section.
Final ESI Findings	In the second bullet point of section 4.5.1, in the version of VM0007, file name VM0007 REDD+MF_v1.6_RD1_20170515.docx, the methodology authors included a statement that changes in hydrology must result in accumulation or maintenance of SOC stock, but specifying that projects meant to reduce CH4 emissions by increasing salinity are not bound by this requirement. Item closed.
Item 12	
VCS AFOLU Requirements Version 3.4 (WRC) (08 October 2013)	3) Non-human induced elevation of non-vegetated wetlands to build vegetated wetlands. Deltaic systems with high sediment load from rivers often do this naturally, and this should be counted as part of the baseline.
Evidence Used to Assess (Location in PD/MR or Supporting Documents)	BL-TW v1.0, sec
ESI Findings - Round 1	Non-human induced elevation of non-vegetated wetlands is not discussed in BL-TW or the proposed update of VM0007.
Round 1 NCR/CL/OFI	NCR: Please address non-human induced elevation of non-vegetated wetlands in BL-TW or another appropriate place in the REDD+MF methodology or associated modules.
Round 1 Response from Project Proponent	BN/KD/MO- Added text to section 5.1.1 of BL-TW to address this issue. Also added language for seagrasses in X-STR.



ESI Findings – Round 2 In section 5.1.1 of the version of BL-TW, file name BL-TW, v1.0 ESI RD1 20170515.5 docx, states, under the subtitle of climate variables: ". Project proponents must account for the possibility of non-human induced elevation of non-vegetated wetlands, to build vegetated wetlands, Deltaic systems with high sediment load from viers often do this naturally, and this must be counted as part of the baseline." No reference to this was found in X-STR, as mentioned in PP response. Round 2 NCRICLIOFI Round 2 Response from Project Proponent INE: New text for seagrasses added to section 5.9 in X-STR Final ESI Findings The version of X-STR with the file name "VMD0016 x-STR X-STR X-12. ESI RD2 20170613.docx" includes instruction to the project developer to determine whether erosion or accretion is occurring in the baseline scenario. Areas of sea grass meadow may be stratified based on whether bathymetric changes in the baseline, and not recit can be taken for seagrass meadow that would expand in the baseline scenario. Areas of sea grass meadow that would expand in the baseline scenario. Areas of sea grass meadow that would expand in the baseline scenario and the project developer to determine whether erosion or accretion is occurring in the baseline, and not critica and proceedures for identifying wetland erosion and/or migration resulting from sea level rise in the baseline case. Item closed. Item 13 VCS AFOLU Requirements Version 3.4 (WRC) (18 Cart Strategies of the project proposed the sea of the baseline scenario on the basis of wetland maps, historical trend data, future projection of sea level rise in the baseline scenario on the basis of wetland maps, historical trend data, future projection of sea level rise in the baseline scenario on the basis of wetland maps, historical trend data, future projection of sea level rise in the baseline scenario on the basis of wetland maps, historical trend data, future projection of sea level rise in the baseline scenario on the basis of wetland maps,		
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ME: New text for seagrasses added to section 5.9 in X-STR Final ESI Findings		CL: Please direct the validators to the change in the
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VCS AFOLU Requirements Version 3.4 (WRC) (08 October 2013) 4.4.17 Where relevant, methodologies shall establish criteria and procedures for identifying wetland erosion and/or migration resulting from sea level rise in the baseline scenario on the basis of wetland maps, historical trend data, future projection of sea level rise and how changes in management would impact carbon stocks. Evidence Used to Assess (Location in PD/MR or Supporting Documents) ESI Findings - Round 1 Section 5.2 of BL-TW establishes procedures for accounting for submergence and erosion. Stratification module offers general guidelines in what must be considered for future projections, and general guidelines for what must be considered for migration. No procedures are explained. Round 1 NCR/CL/OFI OFI: See findings. While it is not feasible to offer explicit procedures, applicable in all situations, to identify and project erosion and migration, examples of techniques that are used or might apply to wetland migration would be useful for further guidance. Round 1 Response from Project Proponent SC/IME: We are not very comfortable providing generalities for a topic that is known for its diversity, but section 5.8 of X-STR already had such guidance to direct the work of the project proponent concerning stratification and SLR. In 5.2 point 2 we mistakenly referred to section 5.3.1 where it should have been 5.8 of X-STR. The validator already noticed that the guidance in 5.8 in X-STR is relevant for 5.2 in BL-TW. In addition, in BL-TW we now provide guidance by referring to a model that can be used for the assessment. Fina ESI Findings Fina ESI Findings	Final ESI Findings	The version of X-STR with the file name "VMD0016 x-STR_v1.2_ESI RD2_20170613.docx" includes instruction to the project developer to determine whether erosion or accretion is occuring in the baseline scenario. Areas of sea grass meadow may be stratified based on whether bathymetric changes in the baseline, and no credit can be taken for seagrass meadow that would expand in the
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	Fina ESI Findings	Section 5.8 of VMD0016 does include some guidance regarding wetland migration, and the version of BL-TW,



	RD1_20170515.docx) now refers to section 5.8 of
	VMD0016 for guidance. In addition, BL-TW refers to a
	model that may help describe vertical building of the
	marsh with SLR. Item closed.
Item 14	
VCS AFOLU Requirements Version 3.4 (WRC)	2) AUWD: The potential for leakage shall be identified and
(08 October 2013)	the project shall address the socio-economic factors that
	drive wetland degradation. Leakage shall be calculated by
	monitoring wetland areas surrounding the project and other wetland areas within the country susceptible to
	leakage from project activities.
Evidence Used to Assess (Location in PD/MR or	VMD0010 LK-ASU v1.1, sec. 5
Supporting Documents)	VIII 500 10 E1(7) 600 V1.11, 500. 0
ESI Findings - Round 1	Leakage is calculated by monitoring the lands in the
	leakage belt. There is also a way to calculate leakage
	beyond the leakage belt but within the nation. No
	requirement to address the socio-economic factors that
	drive degradation.
	NOD DI COLLEGA
Round 1	NCR: Please include a requirement to address the socio-
NCR/CL/OFI	economic factors that drive wetland degradation.
Round 1 Response from Project Proponent	IME: In LK-ASU, an important tool in assessing the role of deforestation/degradation agents is the participatory rural
	appraisal (PRA), which involves socio-economic factors.
	Note that LK-ASU is beyond the scope of the validation.
	The requirement referred to (4.6.21) is the same as for
	REDD AUDD (4.6.15). If LK-ASU is approved to work for
	REDD, it should be likewise for WRC. That was our
	approach with respect to leakage.
Final ESI Findings	The requirements for REDD AUDD are indeed identical to
	that of AUWD, and the participatory rural assessment, as
	described in VMD0010, was deemed sufficient in
	addressing the socio-economic factors driving
	degradation. Item closed.

General Comments

Item	Comments/Findings	Evidence Used to Assess (Location in Methodology or Supporting Documents)	Round 1 NCR/CL/OFI	Response from Methodology Developer	ESI Findings - Round 2 (what was assessed; what did we find?)
15	Nothing appears to be noted in M-TW regarding additional conditions.	VM0007 REDD+MF v1.6, sec. 4.5.2	Bullet states, "Additional conditions are outlined in Modules BL- TW and M- TW," but no additional conditions	BN/KD- References to BL-TW and M- TW deleted	The reference to BL-TW and M-TW, under the subject of AUWD projects, was removed in the version of VM0007,



			were found in M-TW. Please correct.		dated 15 May 2017. Item closed. RLS 25 May 2017
16	Nothing appears to be noted in M-TW regarding additional conditions.	VM0007 REDD+MF v1.6, sec. 4.5.3	Bullet states, "Additional conditions are outlined in Modules BL- TW and M- TW," but no additional conditions were found in M-TW. Please correct.	BN/KD- References to BL-TW and M- TW deleted	The references to BL-TW and M-TW, under the subject of APWD projects, was removed in the verion of MV0007, dated 15 May 2017. Item closed. RLS 25 May 2017
17	BL-TW does not use the same modifiers for the variables in eq. 6, yet the text states it is from BL-TW.	VM0007 REDD+MF v1.6 sec. 8.4.4	Please ensure modifiers for variables agree across modules.	BN/KD- Resolved, added -TW to appropriate modifiers for GHG-BSL and GHG-WPS in BL-TW and M- TW	Modifiers in BSL-TW and M-TW were changed to agree with the parent methodology in the versions of BL-TW and M-TW, dated 15 May 2017. Item closed.
18	M-TW does not appear to include changes in the drainage layout and climate variables in its monitoring procedures for periodically reassessing the project baseline.	VM0007 REDD+MF v1.6 sec. 9.3.2	Under the WRC heading, text describes requirements for reassessing the baseline as specified in M-PEAT or M-TW. M-TW includes no information on this. Please address.	IME: Procedures in 9.3.2 were supposed to refer to BL- PEAT and BL- TW as these modules include baseline procedures. References amended accordingly. We moved this text to TASK 2 because it	The version of VM0007 v1.6, dated 15 May 2017 was changed to refer to BL-TW and BL-PEAT. BL-TW states, "Based on the reassessment criteria specified in REDD+ MF, the revised baseline scenario must be

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19	Nothing appears to be	VM0007	Bullet states,	relates to reassessment of the baseline.	incorporated into revised estimates of baseline emissions." REDD+MF instructs the user of the methodology to include changes in drainage layout and climate variables. Item closed. The reference
	noted in M-TW regarding additional conditions.	REDD+MF v1.6, sec. 4.5.2	"Additional conditions are outlined in Modules BL-TW and M-TW," but no additional conditions were found in M-TW. Please correct.	References to BL-TW and M- TW deleted	to BL-TW and M-TW, under the subject of AUWD projects, was removed in the version of VM0007, dated 15 May 2017. Item closed.
20	Nothing appears to be noted in M-TW regarding additional conditions.	VM0007 REDD+MF v1.6, sec. 4.5.3	Bullet states, "Additional conditions are outlined in Modules BL- TW and M- TW," but no additional conditions were found in M-TW. Please correct.	BN/KD- References to BL-TW and M- TW deleted	The references to BL-TW and M-TW, under the subject of APWD projects, was removed in the verion of MV0007, dated 15 May 2017. Item closed.
21	BL-TW does not use the same modifiers for the variables in eq. 6, yet the text states it is from BL-TW.	VM0007 REDD+MF v1.6 sec. 8.4.4	Please ensure modifiers for variables agree across modules.	BN/KD- Resolved, added -TW to appropriate modifiers for GHG-BSL and	Modifiers in BSL-TW and M-TW were changed to agree with the parent

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22 M-TW does not appear to include changes in the drainage layout and climate variables in its monitoring procedures for periodically reassessing the project baseline. 23 Nothing appears to be noted in M-TW regarding additional conditions. 24 Nothing appears to be noted in M-TW regarding additional conditions. 25 M-TW does not appear to include changes in the drainage layout and climate variables. It was the serious procedures in text describes requirements for precedures in text describes requirements for reassessing the project baseline. 26 WRC heading, Procedures in supposed to procedures in text describes requirements for reassessing the baseline as specified in M-PEAT or M-TW includes no information on this. Please address. 27 Nothing appears to be noted in M-TW regarding additional conditions. 28 Nothing appears to be noted in M-TW regarding additional conditions. 29 Nothing appears to be noted in M-TW regarding additional conditions. 20 Nothing appears to be noted in M-TW regarding additional conditions. 29 Nothing appears to be noted in M-TW regarding additional conditions. 20 Nothing appears to be noted in M-TW regarding additional conditions. 20 Nothing appears to be noted in M-TW regarding additional conditions. 20 Nothing appears to be noted in M-TW regarding additional conditions. 20 Nothing appears to be noted in M-TW regarding additional conditions. 20 Nothing appears to be noted in M-TW regarding additional conditions. 20 Nothing appears to be noted in M-TW regarding additional conditions. 21 Nothing appears to be noted in M-TW regarding additional conditions. 22 Nothing appears to be noted in M-TW deleted to the subject to include conditions are outlined in Modules BL-TW and M-TW, unditional conditions. 22 Nothing appears to be noted in M-TW, unditional conditions.					GHG-WPS in	methodology
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to include changes in the drainage layout and climate variables in its monitoring procedures for periodically reassessing the project baseline. REDD+MF v1.6 sec. 9.3.2 WRC heading, text describes requirements for reassessing the baseline as specified in M-PEAT or M-TW. M-TW includes no information on this. Please address. REFERT or M-TW. M-TW includes no information on this. Please address. REFERT or M-TW. M-TW includes no information on this. Please address. REFERT or M-TW. M-TW include accordingly. We moved this text to TASK 2 because it relates to reassessment of the baseline. REDD+MF instructs the user of the methodolog to include changes in drainage layout and climate variables. It closed. Nothing appears to be noted in M-TW regarding additional conditions. REDD+MF vi.6, sec. 4.5.2						Item closed.
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conditions VM0007,				Modules BL- TW and M- TW," but no additional		AUWD projects, was removed in the version of



			were found in M-TW. Please correct.		dated 15 May 2017. Item closed.
24	Nothing appears to be noted in M-TW regarding additional conditions.	VM0007 REDD+MF v1.6, sec. 4.5.3	Bullet states, "Additional conditions are outlined in Modules BL- TW and M- TW," but no additional conditions were found in M-TW. Please correct.	BN/KD- References to BL-TW and M- TW deleted	The references to BL-TW and M-TW, under the subject of APWD projects, was removed in the verion of MV0007, dated 15 May 2017. Item closed.
25	BL-TW does not use the same modifiers for the variables in eq. 6, yet the text states it is from BL-TW.	VM0007 REDD+MF v1.6 sec. 8.4.4	Please ensure modifiers for variables agree across modules.	BN/KD- Resolved, added -TW to appropriate modifiers for GHG-BSL and GHG-WPS in BL-TW and M- TW	Modifiers in BSL-TW and M-TW were changed to agree with the parent methodology in the versions of BL-TW and M-TW, dated 15 May 2017. Item closed.
26	M-TW does not appear to include changes in the drainage layout and climate variables in its monitoring procedures for periodically reassessing the project baseline.	VM0007 REDD+MF v1.6 sec. 9.3.2	Under the WRC heading, text describes requirements for reassessing the baseline as specified in M-PEAT or M-TW. M-TW includes no information on this. Please address.	IME: Procedures in 9.3.2 were supposed to refer to BL- PEAT and BL- TW as these modules include baseline procedures. References amended accordingly. We moved this text to TASK 2 because it relates to re-	The version of VM0007 v1.6, dated 15 May 2017 was changed to refer to BL-TW and BL-PEAT. BL-TW states, "Based on the reassessment criteria specified in REDD+ MF, the revised baseline scenario must be incorporated into revised



				assessment of the baseline.	estimates of baseline emissions." REDD+MF instructs the user of the methodology to include changes in drainage layout and climate variables. Item closed.
27	Nothing appears to be noted in M-TW regarding additional conditions.	VM0007 REDD+MF v1.6, sec. 4.5.2	Bullet states, "Additional conditions are outlined in Modules BL- TW and M- TW," but no additional conditions were found in M-TW. Please correct.	BN/KD- References to BL-TW and M- TW deleted	The reference to BL-TW and M-TW, under the subject of AUWD projects, was removed in the version of VM0007, dated 15 May 2017. Item closed.
28	Nothing appears to be noted in M-TW regarding additional conditions.	VM0007 REDD+MF v1.6, sec. 4.5.3	Bullet states, "Additional conditions are outlined in Modules BL- TW and M- TW," but no additional conditions were found in M-TW. Please correct.	BN/KD- References to BL-TW and M- TW deleted	The references to BL-TW and M-TW, under the subject of APWD projects, was removed in the verion of MV0007, dated 15 May 2017. Item closed.
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				BL-TW and M- TW	of BL-TW and M-TW, dated 15 May 2017. Item closed.
30	M-TW does not appear to include changes in the drainage layout and climate variables in its monitoring procedures for periodically reassessing the project baseline.	VM0007 REDD+MF v1.6 sec. 9.3.2	Under the WRC heading, text describes requirements for reassessing the baseline as specified in M-PEAT or M-TW. M-TW includes no information on this. Please address.	IME: Procedures in 9.3.2 were supposed to refer to BL- PEAT and BL- TW as these modules include baseline procedures. References amended accordingly. We moved this text to TASK 2 because it relates to re- assessment of the baseline.	The version of VM0007 v1.6, dated 15 May 2017 was changed to refer to BL-TW and BL-PEAT. BL-TW states, "Based on the reassessment criteria specified in REDD+ MF, the revised baseline scenario must be incorporated into revised estimates of baseline emissions." REDD+MF instructs the user of the methodology to include changes in drainage layout and climate variables. Item closed.
31	Nothing appears to be noted in M-TW regarding additional conditions.	VM0007 REDD+MF v1.6, sec. 4.5.2	Bullet states, "Additional conditions are outlined in Modules BL- TW and M- TW," but no additional conditions were found in	BN/KD- References to BL-TW and M- TW deleted	The reference to BL-TW and M-TW, under the subject of AUWD projects, was removed in the version of VM0007, dated 15 May



			M-TW. Please correct.		2017. Item closed.
32	Nothing appears to be noted in M-TW regarding additional conditions.	VM0007 REDD+MF v1.6, sec. 4.5.3	Bullet states, "Additional conditions are outlined in Modules BL- TW and M- TW," but no additional conditions were found in M-TW. Please correct.	BN/KD- References to BL-TW and M- TW deleted	The references to BL-TW and M-TW, under the subject of APWD projects, was removed in the verion of MV0007, dated 15 May 2017. Item closed.
33	BL-TW does not use the same modifiers for the variables in eq. 6, yet the text states it is from BL-TW.	VM0007 REDD+MF v1.6 sec. 8.4.4	Please ensure modifiers for variables agree across modules.	BN/KD- Resolved, added -TW to appropriate modifiers for GHG-BSL and GHG-WPS in BL-TW and M- TW	Modifiers in BSL-TW and M-TW were changed to agree with the parent methodology in the versions of BL-TW and M-TW, dated 15 May 2017. Item closed.
34	M-TW does not appear to include changes in the drainage layout and climate variables in its monitoring procedures for periodically reassessing the project baseline.	VM0007 REDD+MF v1.6 sec. 9.3.2	Under the WRC heading, text describes requirements for reassessing the baseline as specified in M-PEAT or M-TW. M-TW includes no information on this. Please address.	IME: Procedures in 9.3.2 were supposed to refer to BL- PEAT and BL- TW as these modules include baseline procedures. References amended accordingly. We moved this text to TASK 2 because it relates to re- assessment of the baseline.	The version of VM0007 v1.6, dated 15 May 2017 was changed to refer to BL-TW and BL-PEAT. BL-TW states, "Based on the reassessment criteria specified in REDD+ MF, the revised baseline scenario must be incorporated into revised estimates of



					baseline emissions." REDD+MF instructs the user of the methodology to include changes in drainage layout and climate variables. Item closed.
35	Nothing appears to be noted in M-TW regarding additional conditions.	VM0007 REDD+MF v1.6, sec. 4.5.2	Bullet states, "Additional conditions are outlined in Modules BL- TW and M- TW," but no additional conditions were found in M-TW. Please correct.	BN/KD- References to BL-TW and M- TW deleted	The reference to BL-TW and M-TW, under the subject of AUWD projects, was removed in the version of VM0007, dated 15 May 2017. Item closed.
36	Nothing appears to be noted in M-TW regarding additional conditions.	VM0007 REDD+MF v1.6, sec. 4.5.3	Bullet states, "Additional conditions are outlined in Modules BL- TW and M- TW," but no additional conditions were found in M-TW. Please correct.	BN/KD- References to BL-TW and M- TW deleted	The references to BL-TW and M-TW, under the subject of APWD projects, was removed in the verion of MV0007, dated 15 May 2017. Item closed.
37	BL-TW does not use the same modifiers for the variables in eq. 6, yet the text states it is from BL-TW.	VM0007 REDD+MF v1.6 sec. 8.4.4	Please ensure modifiers for variables agree across modules.	BN/KD- Resolved, added -TW to appropriate modifiers for GHG-BSL and GHG-WPS in BL-TW and M- TW	Modifiers in BSL-TW and M-TW were changed to agree with the parent methodology in the versions of BL-TW and



					M-TW, dated 15 May 2017. Item closed.
38	M-TW does not appear to include changes in the drainage layout and climate variables in its monitoring procedures for periodically reassessing the project baseline.	VM0007 REDD+MF v1.6 sec. 9.3.2	Under the WRC heading, text describes requirements for reassessing the baseline as specified in M-PEAT or M-TW. M-TW includes no information on this. Please address.	IME: Procedures in 9.3.2 were supposed to refer to BL- PEAT and BL- TW as these modules include baseline procedures. References amended accordingly. We moved this text to TASK 2 because it relates to re- assessment of the baseline.	The version of VM0007 v1.6, dated 15 May 2017 was changed to refer to BL-TW and BL-PEAT. BL-TW states, "Based on the reassessment criteria specified in REDD+ MF, the revised baseline scenario must be incorporated into revised estimates of baseline emissions." REDD+MF instructs the user of the methodology to include changes in drainage layout and climate variables. Item closed.
39	Nothing appears to be noted in M-TW regarding additional conditions.	VM0007 REDD+MF v1.6, sec. 4.5.2	Bullet states, "Additional conditions are outlined in Modules BL- TW and M- TW," but no additional conditions were found in M-TW. Please correct.	BN/KD- References to BL-TW and M- TW deleted	The reference to BL-TW and M-TW, under the subject of AUWD projects, was removed in the version of VM0007, dated 15 May 2017. Item closed.



40	Nothing appears to be noted in M-TW regarding	VM0007 REDD+MF	Bullet states, "Additional	BN/KD- References to	The references to
	additional conditions.	v1.6, sec. 4.5.3	conditions are outlined in Modules BL-TW and M-TW," but no additional conditions were found in M-TW. Please correct.	BL-TW and M- TW deleted	BL-TW and M- TW, under the subject of APWD projects, was removed in the verion of MV0007, dated 15 May 2017. Item closed.
41	BL-TW does not use the same modifiers for the variables in eq. 6, yet the text states it is from BL-TW.	VM0007 REDD+MF v1.6 sec. 8.4.4	Please ensure modifiers for variables agree across modules.	BN/KD- Resolved, added -TW to appropriate modifiers for GHG-BSL and GHG-WPS in BL-TW and M- TW	Modifiers in BSL-TW and M-TW were changed to agree with the parent methodology in the versions of BL-TW and M-TW, dated 15 May 2017. Item closed.
42	M-TW does not appear to include changes in the drainage layout and climate variables in its monitoring procedures for periodically reassessing the project baseline.	VM0007 REDD+MF v1.6 sec. 9.3.2	Under the WRC heading, text describes requirements for reassessing the baseline as specified in M-PEAT or M-TW. M-TW includes no information on this. Please address.	IME: Procedures in 9.3.2 were supposed to refer to BL- PEAT and BL- TW as these modules include baseline procedures. References amended accordingly. We moved this text to TASK 2 because it relates to re- assessment of the baseline.	The version of VM0007 v1.6, dated 15 May 2017 was changed to refer to BL-TW and BL-PEAT. BL-TW states, "Based on the reassessment criteria specified in REDD+ MF, the revised baseline scenario must be incorporated into revised estimates of baseline emissions." REDD+MF



					instructs the
					user of the
					methodology
					to include
					changes in
					drainage
					layout and
					climate
					variables. Item
					closed.
43	Nothing appears to be	VM0007	Bullet states,	BN/KD-	The reference
	noted in M-TW regarding	REDD+MF	"Additional	References to	to BL-TW and
	additional conditions.	v1.6, sec. 4.5.2	conditions are	BL-TW and M-	M-TW, under
			outlined in	TW deleted	the subject of
			Modules BL-		AUWD
			TW and M-		projects, was
			TW," but no		removed in
			additional		the version of
			conditions		VM0007,
			were found in		dated 15 May
			M-TW. Please		2017. Item
			correct.		closed.
44	Nothing appears to be	VM0007	Bullet states,	BN/KD-	The
	noted in M-TW regarding	REDD+MF	"Additional	References to	references to
	additional conditions.	v1.6, sec. 4.5.3	conditions are	BL-TW and M-	BL-TW and M-
			outlined in	TW deleted	TW, under the
			Modules BL-		subject of
			TW and M-		APWD
			TW," but no		projects, was
			additional		removed in
			conditions		the verion of
			were found in		MV0007,
			M-TW. Please		dated 15 May
			correct.		2017. Item
45	BL-TW does not use the	VM0007	Please ensure	BN/KD-	closed. Modifiers in
43	same modifiers for the	REDD+MF v1.6	modifiers for	Resolved,	BSL-TW and
	variables in eq. 6, yet the	sec. 8.4.4	variables	added -TW to	M-TW were
	text states it is from BL-	366. 0.4.4	agree across	appropriate	changed to
	TW.		modules.	modifiers for	agree with the
			inoduics.	GHG-BSL and	parent
				GHG-WPS in	methodology
				BL-TW and M-	in the versions
				TW	of BL-TW and
					M-TW, dated
					15 May 2017.
					Item closed.
					itelli tioseu.



VCS VERIFIED METHODOLOGY ELEMENT ASSESSMENT REPORT: VCS Version 3

46	M-TW does not appear	VM0007	Under the	IME:	The version of
	to include changes in the	REDD+MF v1.6	WRC heading,	Procedures in	VM0007 v1.6,
	drainage layout and	sec. 9.3.2	text describes	9.3.2 were	dated 15 May
	climate variables in its		requirements	supposed to	2017 was
	monitoring procedures		for reassessing	refer to BL-	changed to
	for periodically		the baseline	PEAT and BL-	refer to BL-TW
	reassessing the project		as specified in	TW as these	and BL-PEAT.
	baseline.		M-PEAT or M-	modules	BL-TW states,
			TW. M-TW	include	"Based on the
			includes no	baseline	reassessment
			information	procedures.	criteria
			on this. Please	References	specified in
			address.	amended	REDD+ MF,
				accordingly.	the revised
				We moved this	baseline
				text to TASK 2	scenario must
				because it	be
				relates to re-	incorporated
				assessment of	into revised
				the baseline.	estimates of
					baseline
					emissions."
					REDD+MF
					instructs the
					user of the
					methodology
					to include
					changes in
					drainage
					layout and
					climate
					variables. Item
					closed.

71 v3.1