

THE INTERNATIONAL SMALL GROUP AND TREE PLANTING PROGRAM, UGANDA, VCS-005 VERIFICATION REPORT



Document Prepared By: Environmental Services, Inc.
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Summary:

Environmental Services, Inc., (ESI) was contracted by Clean Air Action Corporation (CAAC) on 15 November 2012 to conduct the project verification of *The International Small Group and Tree Planting Program (TIST), Uganda, VCS-005* [Project Description (PD) dated 04 March 2013].

As stated in the PD, “TIST is a combined reforestation and sustainable development project in Uganda carried out by subsistence farmers. The farmers plant trees on their land and retain ownership of the trees and their products. They receive training from TIST and a share of the carbon revenues from CAAC. Carbon credit sales generate participant income and provide project funding to address agricultural, HIV/AIDS, and nutritional and fuel challenges.

TIST provides an administrative backbone that supplies training in building nurseries, tree planting, conservation farming, building fuel-efficient stoves and malaria and HIV/AIDS prevention. Part of the backbone is a two-way communications network that includes newsletters, weekly meetings at the Small Group level, monthly meetings where groups of Small Groups receive training, periodic seminars at the national level, and an award winning monitoring system based on hand-held computers and Global Positioning Systems (GPS).”¹

This PD is for a subset of the TIST project in Uganda and initially applies to 301 of the Small Groups; 1,799 members; 953 project areas; and 722.6 hectares (ha). The main species planted are *Pinus patula*, *Eucalyptus* spp., and *Cupressus* spp.

The verification objective included an assessment of compliance with Verified Carbon Standard (VCS) (Version 3 and associated updates) criteria, the selected methodology (Clean Development Mechanism Methodology AR-AMS0001 Version 06), and the validated PD. The verification process closely followed ESI’s procedures for VCS verifications outlined within our Management System Manual. This included utilizing VCS documents and ISO 14064-3 to develop and implement a sampling plan. A total of 7.3% of the project trees and 2.2% of discrete project areas, or groves, within the Grouped Project geographic boundary were sampled.

The scope of the verification included the GHG project and baseline scenarios; physical infrastructure, activities, technologies and processes of the GHG project; GHG sources, sinks and/or reservoirs; types of GHGs; and time periods covered. The geographic verification scope was defined by the project boundary, which included multiple project areas (grouped), the carbon reservoir types, management activities, growth and yield models, inventory program, and contract periods.

The verification criteria followed the guidance documents provided by VCS and included the following: VCS Program Guide (04 October 2012, v3.4), VCS Standard (04 October 2012, v3.3), Program Definitions (04 October 2012, v3.4), Agriculture, Forestry and Other Land Use (AFOLU) Requirements (04 October 2012, v3.3), AFOLU Non-Permanence Risk Tool (04 October 2012, v3.2), the grouped project PD entitled *The International Small Group and Tree Planting Program, Uganda, VCS-005* (dated 04 March 2013), and Clean Development Mechanism (CDM) Methodology AR-AMS0001 Version 06.

¹ Clean Air Action Corporation, The International Small Group and Tree Planting Program, Uganda, VCS-005, Version 01, 04 March 2013.

A summary of all findings is included in Appendix A. There are no restrictions of uncertainty.

ESI confirms all verification activities, including objectives, scope and criteria, level of assurance, monitoring, adherence to the validated PD, and the project documentation are complete and in adherence to the VCS Version 3 and all associated updates as documented in this report. ESI concludes without any qualifications or limiting conditions that *The International Small Group and Tree Planting Program, Uganda, VCS-005* has been implemented in accordance with the validated PD, dated 04 March 2013 and meets the requirements of VCS Version 3 and all associated updates.

The GHG assertion provided by CAAC and verified by ESI has resulted in the GHG emissions reduction or removal of 56,329 tCO₂ equivalents by the project during the verification/reporting period (01 January 2003 to 12 November 2012). As permitted by the methodology, emissions are reported as zero. This does not include the 10% buffer withholding.

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1 INTRODUCTION

1.1 Objective

The verification objective included an assessment of compliance with Verified Carbon Standard (VCS) (Version 3 and associated updates) criteria, the selected methodology (Clean Development Mechanism (CDM) Methodology AR-AMS0001 Version 06), and the validated Project Description (PD): *The International Small Group and Tree Planting Program, Uganda, VCS-005* (dated 04 March 2013). This verification assessed the Greenhouse Gas (GHG) emission removals through an Agriculture, Forestry and Other Land Use (AFOLU) project – specifically, an Afforestation, Reforestation and Revegetation (ARR) grouped project.

1.2 Scope and Criteria

The scope of the verification included:

- the GHG project and baseline scenarios
- physical infrastructure, activities, technologies and processes of the GHG project
- GHG sources, sinks, and/or reservoirs
- types of GHGs
- time periods covered

The geographic verification scope was defined by the project boundary, which will include multiple project areas (grouped), the carbon reservoir types, management activities, growth and yield models, inventory program, and contract periods. The scope of *The International Small Group and Tree Planting Program, Uganda, VCS-005* was outlined by the project developer prior to the verification initiation and is re-defined as follows:

Baseline Scenario	The baseline field observation as detailed in the "Grove Summary" worksheet indicates the project areas are grassland and cropland prior to implementation of the project activity
Activities/Technologies/Processes	ARR Grouped Project
Sources/Sinks/Reservoirs	Above- and below-ground living tree biomass
GHG Type	CO ₂
Time Period	30 years, beginning on 01 January 2003 and ending on 31 December 2032
Project Boundary	Bushenyi, Kabale, Kanungu, Kisoro, Mbarara, Ntungamo, and Rukungiri Districts of Uganda Small Groups: 301 Members: 1,799 Groves: 953 Hectares (ha): 722.6

1.3 Level of assurance

The level of assurance was used to determine the depth of detail that the verifier placed in the Verification and Sampling Plan to determine if there are any errors, omissions, or misrepresentations (ISO 14064-3:2006). Environmental Services, Inc., (ESI) assessed the project (general principles, data, sampling descriptions, documentation, calculations, etc.) to provide reasonable assurance to meet the project level requirements of the VCS Program. The evidence used to achieve a reasonable level of assurance is specified in the following sections.

1.4 Summary Description of the Project

As stated in the Project Description (PD), “The International Small Group and Tree Planting Program (TIST) is a combined reforestation and sustainable development project in Kenya carried out by subsistence farmers. The farmers plant trees on their land and retain ownership of the trees and their products. They receive training from TIST and a share of the carbon revenues from CAAC.

TIST empowers Small Groups of 6-to-12 subsistence farmers in India, Kenya, Tanzania and Uganda to combat the devastating effects of deforestation, poverty and drought. Combining sustainable development with carbon sequestration, TIST already supports the reforestation and biodiversity efforts of over 64,000 subsistence farmers. Carbon credit sales generate participant income and provide project funding to address agricultural, HIV/AIDS, and nutritional and fuel challenges. As TIST expands to more groups and more areas, it ensures more trees, more biodiversity, more climate change benefit and more income for more people.

TIST provides an administrative backbone that supplies training in building nurseries, tree planting, conservation farming, building fuel-efficient stoves and malaria and HIV/AIDS prevention. Part of the backbone is a two-way communications network that includes newsletters, weekly meetings at the Small Group level, monthly meetings where groups of Small Groups receive training, periodic seminars at the national level, and an award winning monitoring system based on hand-held computers and Global Positioning Systems (GPS). TIST is available to everyone, and all are considered equal. The rotating leadership and the Small Group rules empower women and the undereducated. Those who are the most successful, regardless of education levels or gender, become mentors and leaders.”²

This PD is for a subset of the TIST project in Uganda and initially applies to 301 of the Small Groups; 1,799 members; 953 project areas; and 722.6 hectares (ha). The main species planted are *Pinus patula*, *Eucalyptus* spp., and *Cupressus* spp.

² Clean Air Action Corporation, The International Small Group and Tree Planting Program, Uganda, VCS-005, 04 March 2013.

2 VALIDATION PROCESS, FINDINGS AND CONCLUSION

2.1 Validation Process

Please refer to Section 2 of the VCS Validation Report (Report ID VO12054.00val) dated 07 March 2013 prepared by ESI and submitted to Verified Carbon Standard Association (VCSA).

2.2 Validation Findings

2.2.1 Gap Validation

Not Applicable.

2.2.2 Methodology Deviations

The PD and Monitoring Plan meet all of the requirements of the methodology and do not deviate from the baseline scenario, additionality determination, or inclusion of project GHG sources, sinks and reservoirs.

2.2.3 Project Description Deviations

The Monitoring Report meets all of the requirements of the methodology and does not deviate from the baseline scenario, additionality determination or inclusion of project GHG sources, sinks and reservoirs defined in the PD.

2.2.4 New Project Activity Instances

Although this is a grouped project, this is the initial group of instances/

2.3 Validation Conclusion

ESI confirmed all validation activities including objectives, scope and criteria, level of assurance and the PD are complete and in adherence to the VCS Version 3 and all associated updates as documented in ESI's Validation Report (dated 07 March 2013). ESI concluded without any qualifications or limiting conditions that the PD *The International Small Group and Tree Planting Program, Uganda, VCS-005* (dated 04 March 2013) meets the requirements of VCS Version 3 and all associated updates.

3 VERIFICATION PROCESS

3.1 Method and Criteria

The verification process closely followed ISO 14064-3, ISO 14065, and ESI's procedures for VCS verifications outlined within our Management System Manual. In addition, the verification process was detailed in a separate Verification and Sampling Plan, which was approved by the Project Proponent on 21 November 2012. As defined by ISO 14064-3:2006 (E), "verification is the

systematic, independent and documented process for the evaluation of a greenhouse gas assertion against agreed verification criteria verification criteria”.

For this verification, the sample size for the desktop portion of the verification included a complete review of the PD and supporting documents.

The field verification included an onsite review of a sample of groves³, or initial instances, within the Grouped Project geographic boundary. A risk-based approach was used to select the groves in order to review multiple small groups and TIST members across a wide geographic range of sites sufficient to provide the necessary sample size to meet a reasonable level of assurance, as directed by the professional judgment of the Lead Verifier.

Twenty-one (21) groves were selected for field verification during the site visit. These groves contained a total of 60,954 trees, which is a 7.3% sample. This exceeded our established minimum field verification sampling threshold of 5% of the stated number of trees planted by the project developer in the PD. Each grove was visited and photographed to ensure tree planting activities occurred as stated in the PD.

The verification criteria followed ISO 14064-3, the guidance documents provided by VCS, and included the following:

- VCS Program Guide (04 October 2012, v3.4)
- VCS Requirements Document (04 October 2012, v3.3)
- Program Definitions (04 October 2012, v3.4)
- AFOLU Requirements (04 October 2012, v3.3)
- AFOLU Non-Permanence Risk Tool (04 October 2012, v3.2)
- Grouped Project Description (PD) entitled *The International Small Group and Tree Planting Program (TIST)*, Uganda, VCS-005 (dated 04 March 2013)
- Clean Development Mechanism (CDM) Methodology AR-AMS0001 Version 06 (17 September 2010)

3.2 Document Review

A detailed review of all project documentation was conducted to ensure consistency with, and identify any deviation from, VCS program requirements, the methodology (CDM AR-AMS0001 Version 06: Simplified baseline and monitoring methodologies for small-scale A/R CDM project activities implemented on grasslands or croplands with limited displacement of pre-project activities), and the validated PD. Initial review focused on the validated PD and monitoring report and included an examination of the project details, implementation status, data and parameters, and quantification of GHG emission reductions and removals. Along with a review of the monitoring report, documentation for the selected sample was requested, provided and subsequently reviewed for consistency, accuracy, and appropriateness with regard to VCS program requirements, methodological requirements, and the PD. Documents reviewed include,

³ Note that groves can be either plantations or shambas.

but are not limited to, land ownership documentation, legal support for customary tenure, carbon rights contracts, property boundaries, maps and aerials, data from monitoring, biomass and carbon calculation spreadsheets, and responses to corrective action/clarification requests. Please see Appendix C for a complete list of documents received and reviewed by ESI.

The verification also included a review of the validated Project Description (PD) and Monitoring Report, relative to the field conditions observed and interviews with project management staff.

3.3 Interviews

Interviews were conducted at multiple levels of the TIST program to assess understanding of program requirements and to determine if monitoring conducted in the field was implemented in accordance with the validated PD. Interviews included discussions with CAAC senior management, TIST field managers, trainers, auditors, quantifiers, IT staff and program members, and local stakeholders affected by the project. The following is a list of the main interviewees:

Name	Title
Charlie Williams	CAAC vice president and project developer
Christine Yankel	TIST field manager
Quantifier 1	TIST quantifier
Quantifier 2	TIST quantifier
Quantifier 3	TIST quantifier
Quantifier 4	TIST quantifier
David Murungi	TIST quantifier
Michael Nuwagira	TIST quantifier
Atungye Fidel	TIST member
Eliphaz Rukuuta Bazira	TIST member
Ellen Namara	TIST member
Tumwekwase	TIST member
Bashaasha Willis	Bushenyi District Chairman

Perzi Kakumu	Bushenyi District Forest Officer
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3.4 Site Inspections

Site inspections were performed to verify existence of sites, confirm boundaries, corroborate baseline, and confirm tree age, species, density of plantings, and confirmation of application of SOPs. Site inspections were also conducted to assess the consistency of the quantifiers sampling technique with the PD. When possible, on-site interviews were conducted with landowners to confirm ownership, substantiate their support for the project and assess their comprehension of project requirements. GPS was utilized to confirm project location and boundaries. Inventory data (both digital and hard copy) were utilized to confirm the age, species, and density of plantings. As indicated previously, a total of 7.3% of the project trees and 2.2% of discrete project areas, or groves, within the Grouped Project geographic boundary were sampled/visited during the field verification.

3.5 Resolution of Any Material Discrepancy

During the verification process, there was a risk that potential errors, omissions, and misrepresentations would be found. The actions taken when errors, omissions, and misrepresentations were found included: notifying the client of the issue(s) identified, and expanding our review/sample to the extent that satisfied the Lead Verifier's professional judgment.

During the course of the verification (combined validation/verification), thirty-three (33) Non-conformance Reports (NCRs) /Clarifications (CLs) were identified. One Opportunity for Improvement (OFI) was also 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. For a complete list of all NCRs/CLs and their resolutions, please refer to Appendix A.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

The project activities and monitoring plan, as described in the validated PD, have been fully implemented. There are no remaining issues from the previous validation, and this is the initial verification.

4.2 Accuracy of GHG Emission Reduction or Removal Calculations

ESI conducted an intensive review all input data, parameters, formulas, connections, conversions, statistics and resulting uncertainties and output data to ensure consistency with the VCS standard, the project PD and the methodology. Further, ESI reproduced calculations for selected samples to ensure accuracy of the results. All data, conversion factors, formulas, and calculations were provided by the project proponent in spreadsheet format to ensure all formulas were accessible for review. The project proponent also provided a step-by-step overview of calculations to ensure ESI understood the approach and could confirm its consistency with the methodology and PD.

ESI also conducted a comprehensive assessment of all data collection and storage procedures to ensure all opportunities for error in transposition of data between data were minimized.

Uncertainty was assessed as required. ESI recalculated the statistics independently to confirm the accuracy of the reported precision.

Field data collection utilized appropriate principles of forestry data collection, including appropriate tools and methods. Collected data was handled appropriately, including a structured process for quality check. Analysis of collected data used appropriate formulas, conversions, and parameters, supported by scientific literature. Where ranges of parameters exist, or other types of formulaic uncertainty, appropriately conservative values were used in data analysis.

4.3 Quality of Evidence to Determine GHG Emission Reductions or Removals

During ESI's verification the evidence provided by the project proponent was more than sufficient in both quantity and quality to support the determination of GHG emission removals reported by the project. Throughout the verification, Clean Air Action Corporation demonstrated a strong commitment toward conservativeness and took all measures appropriate to ensure the reliability of all evidence provided. Interviews conducted (oral evidence) are outlined in Section 3.3, and the final documents received from Clean Air Action Corporation are outlined in Appendix C.

4.4 Management and Operational System

The management system employed by Clean Air Action Corporation utilizes appropriate field measurement methods (systematic, appropriate measurement tools and techniques), high quality data collection and management techniques (web-based, controlled data entry system; clearly identified responsibilities for data accuracy; appropriate data quality control), and data analysis (web-based calculation system). Staff is thoroughly familiar with their responsibilities and is

appropriately trained for these responsibilities. Accordingly, in the process of the verification, ESI confirmed the suitability and appropriateness of Clean Air Action Corporation's management system for monitoring and reporting.

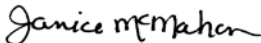
5 VERIFICATION CONCLUSION

After review of all project information, procedures, calculations, and supporting documentation and selected site visits, ESI confirms that the monitoring conducted by Clean Air Action Corporation, along with the supporting monitoring report, are accurate and consistent with all aforementioned VCS criteria, the validated PD, and the selected methodology. ESI confirms that *The International Small Group and Tree Planting Program, Uganda, VCS-005* has been implemented in accordance with the validated PD, dated 04 March 2013.

ESI confirms all verification activities, including objectives, scope and criteria, level of assurance, monitoring, adherence to the validated PD, and the project documentation are complete and in adherence to the VCS Version 3 and all associated updates as documented in this report. ESI concludes without any qualifications or limiting conditions that *The International Small Group and Tree Planting Program, Uganda, VCS-005* has been implemented in accordance with the validated PD, dated 04 March 2013 and meets the requirements of VCS Version 3 and all associated updates.

The GHG assertion provided by CAAC and verified by ESI has resulted in the GHG emissions reduction or removal of 56,329 tCO₂ equivalents by the project during the verification/reporting period (01 January 2003 to 12 November 2012). As permitted by the methodology, emissions are reported as zero. This does not include the 10% buffer withholding.

GHG Emission Reductions or Removals	tCO ₂ e
Baseline Emissions	0
Project Emissions	0
Leakage	0
Net GHG emission reductions or removals	56,329

Report Submitted to:	Voluntary Carbon Standard Association 1730 Rhode Island Ave. NW, Suite 803, Washington, D.C. 20036 Clean Air Action Corporation 7134 South Yale Avenue, Suite 310 Tulsa, OK 74136
Report Submitted by:	Environmental Services, Inc. -Corporate Office 7220 Financial Way, Suite 100 Jacksonville, Florida 32257
ESI Lead Verifier Name and Signature	 Shawn McMahon Lead Verifier
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Date:	7 March 2013

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APPENDIX A – NCR/CL/OFI SUMMARY

Summary - Project Validation/Verification Non-Conformance Reports (NCR) / Clarification (CL) Requests

1. Clarification

VCS Standard 3.3 Criteria:	
3.4.2 Grouped projects shall have one or more clearly defined geographic areas within which project activity instances may be developed. Such geographic areas shall be defined using geodetic polygons as set out in Section 3.10 below.	
Evidence Used to Assess Conformance:	
TIST UG PD VCS 005a Section 1.9 and 1.13.1	
Clarification (CL):	
CL: Please clarify in PD Sections 1.9 and 1.13.1 the grouped project's geographic boundary.	
Date issued:	11 January 2013
Project proponent response/actions and date:	
Both sections of the PD were modified to refer to the areas within the kml file defining the area of the grouped project rather than the country of Uganda.	
Evidence used to close CL:	
TIST UG PD-VCS-005a PD Text 130208.doc: Confirmed modifications to PD as indicated. This item has been satisfactorily addressed.	
Date closed:	21 February 2013

2. Clarification

VCS Standard 3.3 Criteria:	
3.10.3 Project location for AFOLU projects shall be specified using geodetic polygons to delineate the geographic area of each AFOLU project activity and provided in a KML file.	
Evidence Used to Assess Conformance:	
Section 1.9 of PD; Monitoring report Section 1.7; Appendix 06; Appendix 03; tist.org	
Clarification (CL):	
CL: Please clarify the Districts of Uganda where project areas are located in PD Sections 1.9 and Monitoring Report Section 1.7. There are discrepancies in those listed and where the project areas fall according to Appendix 03.	
Date issued:	11 January 2013
Project proponent response/actions and date:	
This was resolved in a telephone discussion with ESI, and no action is required.	
Evidence used to close CL:	
Conference call on 17 January 2013: Client described how the project is designed to allow for inclusion of future instances within the defined grouped project geographic boundary. This is permitted under VCS, and the PD text is written in a way that will allow the addition of future instances. This item was addressed in satisfactory detail that allows this issue to be closed.	
Date closed:	21 February 2013

3. Non-Conformance Report

VCS Standard 3.3 Criteria:	
3.11.1 The project description shall be accompanied by documentary evidence establishing conclusively one or more of the following rights of use (see VCS document Program Definitions for definition of right of use) accorded to the project proponent(s):	
1) A right of use arising or granted under statute, regulation or decree by a competent authority.	
2) A right of use arising under law.	
3) A right of use arising by virtue of a statutory, property or contractual right in the plant, equipment or	

process that generates GHG emission reductions and/or removals (where such right includes the right of use of such reductions or removals and the project proponent has not been divested of such right of use).

4) A right of use arising by virtue of a statutory, property or contractual right in the land, vegetation or conservational or management process that generates GHG emission reductions and/or removals (where such right includes the right of use of such reductions or removals and the project proponent has not been divested of such right of use).

5) An enforceable and irrevocable agreement with the holder of the statutory, property or contractual right in the plant, equipment or process that generates GHG emission reductions and/or removals which vests the right of use in the project proponent.

6) An enforceable and irrevocable agreement with the holder of the statutory, property or contractual right in the land, vegetation or conservational or management process that generates GHG emission reductions or removals which vests the right of use in the project proponent.

7) A right of use arising from the implementation² or enforcement of laws, statutes or regulatory frameworks that require activities be undertaken or incentivize activities that generate GHG emission reductions or removals.

Evidence Used to Assess Conformance:

PD Section 1.12.1. Exhibit 03, Exhibit 04, and contracts.

Non-Conformance report (NCR):

NCR	Information	Request:
Please provide individual completed contract samples for the following small groups as demonstration of control over right to use project areas for carbon sequestration:		
MuhendeTreePlanting		
kabakomba		
TUKWATANISE		
MuroleGoodSamaritan		
Nyabwina .Twimukye		

Date issued: 11 January 2013

Project proponent response/actions and date:

MuhendeTreePlanting:	Online	at	http://www.tist.org/i2/blobs/bin_contract/16/16C9.PDF
kabakomba:	Online	at	http://www.tist.org/i2/blobs/bin_contract/12/12E8.PDF
TUKWATANISE:	Online	at	http://www.tist.org/i2/blobs/bin_contract/07/07A8.PDF
MuroleGoodSamaritan:	Online	at	http://www.tist.org/i2/blobs/bin_contract/1F/1F90.PDF
Nyabwina .Twimukye:	Online	at	http://www.tist.org/i2/blobs/bin_contract/1D/1D66.PDF

Evidence used to close NCR:

Completed contract samples were reviewed and found to be adequate and satisfactory. The documents adequately demonstrate control over right to use project areas for carbon sequestration. Item is addressed.

Date closed: 21 February 2013

4. Non Conformance Report

VCS Standard 3.3 Criteria:

3.16.6 The Monitoring Report shall include all the data and information as set out in the monitoring requirements of the project description and the applied methodology. It shall be prepared using the VCS Monitoring Report Template and shall include the following:

Evidence Used to Assess Conformance:

TIST UG PD-VCS-005h App07 Monitoring Rpt 121112.doc

Non Conformance Report (NCR):

NCR: Please revise PD Section 4.3.3 to include calculation assumptions presented in the Monitoring Report Sections 3.3.1 and 3.3.2. See Monitoring report with highlighting.

Date issued: 11 January 2013

Project proponent response/actions and date:

The PD and Section 3.3.1 are correct. Section 3.3.2 was changed to indicate the setting the circumference of all one year old strata is temporary.

"The project counts all trees, but no circumference measurements are taken if the trees are less than breast height. It was identified in a previous verification (TIST has multiple PDs) that the Quantifiers were leaving the circumference blank and not entering a zero. The Quantifiers have been trained on the difference between entering a zero and leaving the circumference blank and new data for one year old trees is now being collected. However, to make sure this issue does not bias the results, the circumference of all one-year-old trees was set at zero. When the data set is corrected, in subsequent verifications the one year old trees will be added back to the he monitoring system."

Evidence used to close NCR:

TIST UG PD-VCS-005i App08 Monitoring Data 130208 Group.xlsx: The setting of the circumference of all one year old trees was confirmed by reviewing the monitoring data. TIST UG PD-VCS-005h App07 Monitoring Rpt 130208.doc: Section 3.3.2 of the Monitoring report was confirmed as now including an explanation of the temporary 0 circumference value and that it will be updated in subsequent verifications as the trees grow to a height that allows for a measurement of circumference. Issue is addressed.

Date closed:	21 February 2013
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5. Opportunity for Improvement

VCS Standard 3.3 Criteria:

4) The calculation of net GHG emission reductions and removals.

Evidence Used to Assess Conformance:

Monitoring Report Section 3

Opportunity for Improvement (OFI):

OFI: Include the step-by-step procedures for quantification of project removals (in Section 3.3.1) and Section 3.3.2 in Section 4 2 of Monitoring Report

Date issued:	11 January 2013
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Project proponent response/actions and date:

We disagree with this suggestion. The template says that the monitoring system is to be described in Section 3 and the results reported in Section 4. We have 10 other successfully validated and verified PDs that have described the monitoring system in Section 3 and wish to stay consistent.

Evidence used to close NCR:

Disagreement accepted. This was a suggested OFI, and does not representing any calculation errors or deviations from the methodology or VCS requirements.

Date closed:	21 February 2013
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6. Clarification

VCS Standard 3.3 Criteria:

3.1.1 As set out in the VCS Standard, standards and factors used to derive GHG emissions data as well as any supporting data for establishing baseline scenarios and demonstrating additionality shall be publicly available and derived from a reputable and recognized source, such as IPCC 2006 Guidelines for National GHG Inventories or the IPCC Good Practice Guidance for Land Use, Land-Use Change and Forestry.

Evidence Used to Assess Conformance:

TIST UG PD VCS 005a and supporting documents

Clarification (CL):

CL: Please indicate in the PD and/or Appendix 04 the source of the baseline increment growth factor of .5 cm per year as stated in the assumptions on page 31, Section 3.1.3 Assumptions

Date issued:	11 January 2013
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Project proponent response/actions and date:

"David Shoch, TerraCarbon LLC, personal communication, 2009" was added as a footnote.

Evidence used to close NCR:

TIST UG PD-VCS-005a PD Text 130208.doc (Section 3.1.3): Confirmed the footnote was added to PD Section 3.1.3 as indicated. This reference is consistent with previously verified projects and Mr. Shoch is a reputable source. Issue is addressed.

Date closed: 21 February 2013

7. Clarification

VCS Standard 3.3 Criteria:

3.2.1 As set out in the VCS Standard, the project start date of an AFOLU project shall be the date on which activities that lead to the generation of GHG emission reductions or removals are implemented. Such activities may include preparing land for seeding, planting, changing agricultural or forestry practices, rewetting, restoring hydrological functions, or implementing management or protection plans.

Evidence Used to Assess Conformance:

PD Section 1.5; TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx

Clarification (CL):

CL: Please make the necessary correction in the Grove Summary Worksheet of Appendix 04 to indicate that all instances were planted on or after the project start date.

Date issued: 11 January 2013

Project proponent response/actions and date:

Grove Summary worksheet was reviewed and the corrections were made.

Evidence used to close NCR:

TIST UG PD-VCS-005e App04 Data 130208 Group.xlsx: Grove summary worksheet was reviewed and it is confirmed to have no instances that were planted before 01 January 2003. Issue is addressed.

Date closed: 21 February 2013

8. Clarification

VCS AFOLU Non-Permanence Risk Tool, Version 3.2 Criteria:

Species planted (where applicable) associated with more than 25% of the stocks on which GHG credits have previously been issued are not native or proven to be adapted to the same or similar agro-ecological zone(s) in which the project is located.

Evidence Used to Assess Conformance:

Appendix 05; TIST UG PD-VCS-005i App08 Monitoring Data 121112 Group.xlsx

Clarification (CL):

CL: Please include in the Risk Report a valid link for reference number 2.

Date issued: 11 January 2013

Project proponent response/actions and date:

A new reference has been added: "Uganda National Forestry Authority website. TIST UG PD-VCS-Ex 28 Uganda NFA Pinus Patula.pdf"

Evidence used to close NCR:

TIST UG PD-VCS-005f App05 Risk Analysis 130208.doc: Confirmed that the new reference was added as indicated.

TIST UG PD-VCS-Ex 28 Uganda NFA Pinus Patula.pdf: Exhibit 28 has been provided to verifiers and is available on the TIST website. This is a pdf of one of the Uganda NFA web pages and indicates that *Pinus patula* is one of Uganda's primary timber species. Issue is addressed.

Date closed: 21 February 2013

9. Clarification

VCS AFOLU Non-Permanence Risk Tool, Version 3.2 Criteria:

Project cash flow breakeven point is less than 4 years from the current risk assessment

Evidence Used to Assess Conformance:

Appendix 05; TIST UG PD-VCS-Ex 09 Financial Plan.xls

Clarification (CL):

CL: Please indicate what is included in project management costs	
Date issued:	11 January 2013
Project proponent response/actions and date:	
These are costs not incurred in the host country and include the US staff, rent, international travel, hosting and maintaining the TIST website, programming and technical support for the monitoring system, purchase of the monitoring system equipment, phone, internet, legal, accounting, rent, cost of validation and verification (both internal and external), development to training curricula.	
Evidence used to close NCR:	
Response above and TIST UG PD-VCS-Ex 09 Financial Plan.xls: The items identified as project management cost appear to be reasonable. Further, their values, as shown in the TIST Financial Plan, also appear to be reasonable. Issue addressed.	
Date closed:	21 February 2013

10. Non-Conformance Report

VCS AFOLU Non-Permanence Risk Tool, Version 3.2 Criteria:	
Project has secured 80% or more of funding needed to cover the total cash out before the project reaches breakeven	
Evidence Used to Assess Conformance:	
Appendix 05; TIST UG PD-VCS-Ex 09 Financial Plan.xls	
Non-Conformance report (NCR):	
NCR: Please provide evidence that the funding is secured as per VCS AFOLU Risk tool Section 2.2.2.4. Also, please document carbon credit pricing assumptions.	
Date issued:	11 January 2013
Project proponent response/actions and date:	
Note: The project financial plan is for the entire TIST program, all countries, all PDs and all project areas whether in a PD or not. Revenues are shared to operate the program.	
Funding: Confidential. Modification 4 from USAID indicating an aggregate award of \$7.4 million under the current award (Mar 2009 to Mar 2014) was forwarded to Stewart McMorow Feb 06.	
Pricing Assumptions: See row 15, Finance worksheet.	
Evidence used to close NCR:	
USAID KE Award 2009-2014 Mod 04 120109.pdf: This document was reviewed and suffices as appropriate evidence showing that the project has secured 80% or more of funding needed to cover the total cash out before the project reaches breakeven.	
TIST UG PD-VCS-Ex 09 Financial Plan.xls: The TIST financial plan was revisited and it is confirmed that carbon credit pricing assumptions are documented in row 15 of the "Finance Worksheet." Further, they are conservative considering projected market conditions.	
Date closed:	21 February 2013

11. Non-Conformance Report

VCS AFOLU Non-Permanence Risk Tool, Version 3.2 Criteria:	
Mitigation: Project has available as callable financial resources at least 50% of total cash out before project reaches breakeven	
Evidence Used to Assess Conformance:	
Appendix 05; TIST UG PD-VCS-Ex 09 Financial Plan.xls	
Non-Conformance report (NCR):	
NCR: Please identify callable financial resources and provide evidence of access to such resources as per VCS AFOLU Risk Tool Section 2.2.2.5.	
Date issued:	11 January 2013
Project proponent response/actions and date:	

Note: The project financial plan is for the entire TIST program, all countries, all PDs and all project areas whether in a PD or not. Revenues are shared to operate the program.

Confidential: See NCR 10. The most recent \$1,460,000 shown in 13.A (Funding History) exceeds the 50% level.

Evidence used to close NCR:

USAID KE Award 2009-2014 Mod 04 120109.pdf: This document was reviewed and suffices as appropriate evidence showing that the project has available as callable financial resources at least 50% of total cash out before project reaches breakeven as identified in TIST UG PD-VCS-Ex 09 Financial Plan.xls. The project has already reached breakeven (2009) and the funding award from USAID exhibits callable financial resources available to expand the TIST program. Issue is addressed.

Date closed:	21 February 2013
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12. Non-Conformance Report

VCS AFOLU Non-Permanence Risk Tool, Version 3.2 Criteria:

Less than 50 percent of households living within the project area who are reliant on the project area, have been consulted

Evidence Used to Assess Conformance:

Appendix 05

Non-Conformance report (NCR):

NCR: Please indicate in Risk Report (and provide the verifier) the evidence that supports the statement for Table 7, Item A.

Date issued:	11 January 2013
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Project proponent response/actions and date:

The project area as used in the tool is the aggregate of each discrete project area of the TIST PDD. In order for them to be in the PDD, they had to join TIST, sign a GhG contract and allow our quantifiers to enter their lands. Therefore 100% have been consulted and chose to join TIST. The evidence is the GhG contracts which you have requested under NCR 3.

Evidence used to close NCR:

Justification for this score of 0 for this item is confirmed through past experience with TIST program operations, the project site visit, as well as interviews and observations. Further, completed contract samples provided in response to Item #3 above provide adequate and satisfactory evidence supporting the justification. Item is addressed.

Date closed:	21 February 2013
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13. Non Conformance Report

VCS AFOLU Non-Permanence Risk Tool, Version 3.2 Criteria:

Mitigation: The project generates net positive impacts on the social and economic well-being of the local communities who derive livelihoods from the project area

Evidence Used to Assess Conformance:

Appendix 05

Non Conformance Report (NCR):

NCR: Please only refer to appropriate evidence that supports the claims for mitigation under Table 7, Item C. Also, please provide evidence that the CDM Sustainable Development Criteria Report was accepted by the DNA office.

Date issued:	11 January 2013
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Project proponent response/actions and date:

The External Risk, Community Engagement Table was changed. The previous references, including the CDM, were removed and replaced with:

This is a true statement as supported by verification of a similar subset of the TIST Uganda program under the CCB standard.

The following reference was added: TIST UG PD-VCS-Ex 29 ESI Val-Ver Report 120511.pdf	
Evidence used to close NCR: TIST UG PD-VCS-005f App05 Risk Analysis 130208.doc: Confirmed that the External Risk, Community Engagement Table was changed as indicated. TIST UG PD-VCS-Ex 29 ESI Val-Ver Report 120511.pdf serves as appropriate evidence supporting the claim for mitigation under Table 7, Item C of the VCS AFOLU Non-Permanence Risk Tool. Item is addressed.	
Date closed:	21 February 2013

14. Clarification

VCS AFOLU Non-Permanence Risk Tool, Version 3.2 Criteria: Governance score of -0.79 to less than -0.32	
Evidence Used to Assess Conformance: Appendix 05 ; Exhibit 11	
Clarification (CL): CL: Please confirm that the most recent five years of data were used to quantify the governance score.	
Date issued:	11 January 2013
Project proponent response/actions and date: The text has been corrected to match with the Exhibit 11, i.e. 2007-2011	
Evidence used to close NCR: TIST UG PD-VCS-005f App05 Risk Analysis 130208.doc: Confirmed that the text was corrected to match with Exhibit 11(TIST UG PD-VCS-Ex 11 Governance Indices.xls) as indicated. The fundamental issue with this CL was that the most recent five years of available data (2007-2011) was not used to quantify the governance score. However, the verifiers independently calculated the governance score using the 2007-2011 data, and the results were equivalent (a mean governance score of -0.58). Additionally, the Project Developer updated to 2007-2011 in later correspondence. This, combined with the updated text in the Non-Permanence Risk Report, indicates this item is addressed.	
Date closed:	04 March 2013

15. Clarification

VCS AFOLU Non-Permanence Risk Tool, Version 3.2 Criteria: Fire Risk	
Evidence Used to Assess Conformance: Appendix 05	
Clarification (CL): CL: Please identify/provide the baseline data used to justify the likelihood category chosen for Risk of Fire	
Date issued:	11 January 2013
Project proponent response/actions and date: Reference has been made in Appendix 5 to Appendix 1, Land Sat 1990 imagery.	
Evidence used to close NCR: TIST UG PD-VCS-005f App05 Risk Analysis 130208.doc: Confirmed that reference to Appendix 01 (1990 Landsat Imagery) has been made as indicated. The Landsat imagery (dated 1990 and 2000) does not indicate that there have been issues related to fire and justifies the likelihood category chosen (every 10 to less than 25 years). Item is addressed.	
Date closed:	21 February 2013

16. Clarification

VCS AFOLU Non-Permanence Risk Tool, Version 3.2 Criteria: Pest/Disease Risk	
Evidence Used to Assess Conformance:	

Appendix 05; Exhibit 12	
Clarification (CL): CL: Please include in Risk Report the source of pest/disease info for <i>Pinus patula</i> . Also, please confirm that 1 is the correct Risk value for Pest/Disease Risk.	
Date issued:	11 January 2013
Project proponent response/actions and date: The source is TIST UG PD-VCS-Ex 12 Pests and Diseases 2008.pdf. Reference has been made. One appears to be correct. The LS is listed as 2 and the migration allows us to reduce it by half.	
Evidence used to close NCR: TIST UG PD-VCS-005f App05 Risk Analysis 130208.doc: Confirmed that reference to TIST UG PD-VCS-Ex 12 Pests and Diseases 2008.pdf has been made as indicated. It is confirmed that this is a reliable reference. Further, the risk value (1) for Pest/Disease Risk is calculated and reported correctly. Based on the verifier's personal experience in the region and observations made while on the site visit, the mitigation is applicable. Item is addressed.	
Date closed:	21 February 2013

17. Clarification

VCS AFOLU Non-Permanence Risk Tool, Version 3.2 Criteria: Geologic Risk	
Evidence Used to Assess Conformance: Appendix 05	
Clarification (CL): CL: Please include information supporting the claim that the active volcanoes listed are not close enough to affect TIST trees	
Date issued:	11 January 2013
Project proponent response/actions and date: The paragraph was changed to: There are three active ones in DRC. ⁴ May-Ya-Moto is a thermal area about 30 km from the nearest TIST grove. Thermal areas do not erupt or make cones. Mount Nyamuragira is a shield volcano 75 km from the nearest TIST grove. It is currently erupting but too far from TIST groves to have an effect. Mount Nyiragongo is a stratovolcano 73 km from the closest TIST groves. It erupted in 2002 but was too far away to have an effect on the TIST project areas.	
Evidence used to close NCR: TIST UG PD-VCS-005f App05 Risk Analysis 130208.doc: Confirmed the paragraph was modified as indicated. This supplemental information adequately supports the claim that the active volcanoes listed are not close enough to affect TIST trees. Item is addressed.	
Date closed:	21 February 2013

18. Non-Conformance Report

AR-AMS0001 Criteria:	
(a) Project activities are implemented on grasslands or croplands;	
(b) Project activities are implemented on lands where the area of the cropland within the project boundary displaced due to the project activity is less than 50 per cent of the total project area;	
(c) Project activities are implemented on lands where the number of displaced grazing animals is less than 50 per cent of the average grazing capacity ¹ of the project area;	
(d) Project activities are implemented on lands where $\leq 10\%$ of the total surface project area	

⁴ Ibid.

is disturbed as result of soil preparation for planting.	
Evidence Used to Assess Conformance: PD Section 2.2; TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx; TIST UG PD-VCS-Ex 23 Best Forest Practices 130110.doc	
Non-Conformance report (NCR): NCR: Please provide evidence of surveys supporting the statements and data indicating that the project meets the requirements of AR-AMS0001 Sections I.1.b and I.1.c. Please provide individual completed survey samples for the following groves: 2007UG266-Petience A 2007UG204-Mercy 2005UG46-Agaba10 2010UG157-MuhumuzaW02 2010UG103-KinyagiFrancis Also, CL: please provide evidence that Landowners/Farmers were given a recommended hole size for planting as stated in PD Section 2.2.	
Date issued:	11 January 2013
Project proponent response/actions and date: The surveys are collected electronically using Palm PDAs, relayed to the TIST website through the internet and stored on the database for retrieval. There are no hard/paper copies of the surveys. What is presented in the PD is what is downloaded from the database. See Grove Summary Work sheet for the survey results for each Project Area. For recommended hole size, please see "TIST UG PD-VCS-Ex 30 Tree Planting SOPs.pdf" which is part of the TIST training curriculum.	
Evidence used to close NCR: This issue was discussed in person with project developers during development of the NCRs. This NCR was issued but later addressed as indicated by the responses above.	
Date closed:	21 February 2013

19. Clarification

AR-AMS0001 Criteria: (b) The project activity is additional, using the procedures for the assessment of additionality contained in Appendix B.	
Evidence Used to Assess Conformance: PD Section 2.5; TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx	
Clarification (CL): CL: A. Please identify in Appendix 04 and/or PD what organization the individual identified as the reference for seedling costs is associated with. B. Also, please discuss the UWESO and BSF and how it relates to additionality in PD Section 2.5. C. Lastly, Information Request: please provide the verifiers with the data used to construct Table 2.5.A.	
Date issued:	11 January 2013
Project proponent response/actions and date: A. See cell A18, worksheet 2.5 Plantation Costs, Appendix 04. Ara Banyanga is the UG director of TIST and got the information from seedling sellers. B. A discussion of UWESO and BSF is beyond the scope of the PD because the case for additionality is based on the conclusion cited by the reference document and their conclusion already takes UWESO and BSF into consideration. C. Two emails to Stewart McMorow on Jan 15, 2013 to address this request.	
Evidence used to close NCR: A. TIST UG PD-VCS-005e App04 Data 130208 Group.xlsx: Confirmed that Ara Banyanga is	

referenced regarding seedling costs as indicated. Confirmed that Mr. Banytanga is the Director of TIST in Uganda and that the seedling prices are plausible.

B. Project proponent's response above and in-person discussions with project developer: The arguments and included references justify that the project is additional. The discussion contained in the PD regarding additionality is sufficient and no further corrective actions are necessary.

C. TIST UG PD-VCS-005e App04 Data 130208 Group.xlsx and INCOME LEVEL.doc: Data was provided (based on a sample of 4400 farmers) and reference is given to the average monthly income (from the Bushenyi District Planner). Further, interviews conducted during the site visit confirmed the difficulty in acquiring and maintaining seedlings in the absence of the TIST program. While the incomes may have changed in the last several years, observations and interviews indicate that the problem remains.

All items here have been adequately addressed.

Date closed:	21 February 2013
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20. Clarification

AR-AMS0001 Criteria:

8. Baseline carbon stocks will be determined by the equation:

Evidence Used to Assess Conformance:

PD Section 3.1.1

Clarification(CL):

CL: Please indicate in the PD, where the application of Equation 1 of AR-AMS0001 can be found in the supporting documents

Date issued:	11 January 2013
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Project proponent response/actions and date:

TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx, worksheet "Table 3.3.B", columns D and E. The Area is pulled in from the Grove Summary worksheet and the carbon comes from "3.1 Baseline Trees" column D. Since the formula in column D is combined AG and BG biomass, the addition step was not necessary.

Evidence used to close NCR:

TIST UG PD-VCS-005a PD Text 130208.doc: Confirmed that the project proponent's response above was added as a footnote in Section 3.1.1 of the PD. Item is addressed.

Date closed:	21 February 2013
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21. Clarification

AR-AMS0001Criteria:

9. For above-ground biomass BA(t) is calculated per stratum i as follows:

Evidence Used to Assess Conformance:

PD Section 3.1.1

Clarification (CL):

CR: Please indicate in the PD where the application of Equation 2 of AR-AMS0001 can be found in the supporting documents

Date issued:	11 January 2013
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Project proponent response/actions and date:

Please see TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx, worksheet "3.1 Baseline Trees," column E.

Evidence used to close NCR:

TIST UG PD-VCS-005a PD Text 130208.doc: Confirmed that the project proponent's response above was added as a footnote in Section 3.1.1 of the PD. Item is addressed.

Date closed:	21 February 2013
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22. Clarification

AR-AMS0001 Criteria: If living biomass carbon pools are expected to be constant according to paragraph 6.a and 6.c, the average below-ground carbon stock is estimated as the below-ground carbon stock in grass and in biomass of woody perennials:	
Evidence Used to Assess Conformance: PD Section 3.1.1	
Clarification(CL): CL: Please indicate in the PD where the application of Equation 6 of AR-AMS0001 can be found in the supporting documents	
Date issued:	11 January 2013
Project proponent response/actions and date: The BG biomass of the woody stocks is calculated in TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx, worksheet "3.1 Baseline Trees," column D. It is the factor 1.48, where 0.48 is the belowground component. See seventh assumptions for PDD Table 3.1.A Baseline Strata.	
Evidence used to close NCR: TIST UG PD-VCS-005a PD Text 130208.doc: Confirmed that the project proponent's response above was added as a footnote in Section 3.1.1 of the PD. Item is addressed.	
Date closed:	21 February 2013

23. Non Conformance Report

AR-AMS0001 Criteria: 17. The carbon stocks for the project scenario at the starting date of the project activity ($t=0$) shall be the same as the baseline stocks of carbon at the starting date of the project ($t=0$). Therefore:	
Evidence Used to Assess Conformance: PD Section 3.2.4; TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx	
Non Conformance Report (NCR): NCR: As per AR-AMS0001 Section III.17, please include in the PD the estimated initial baseline carbon stocks as the carbon stocks for the project scenario at project start date.	
Date issued:	11 January 2013
Project proponent response/actions and date: From PD "Table 3.1.B Change in Baseline Carbon Stocks" the baseline values for cropland and grassland have been added and the total shown. That number has been placed before the table.	
Evidence used to close NCR: TIST UG PD-VCS-005a PD Text 130208.doc: Confirmed that the total initial baseline carbon stocking was added to Section 3.1.3 of the PD, just before Table 3.1.B. As the net change in carbon stocks in the baseline are assumed to be zero, the total initial baseline carbon stocking does not affect the quantification of net GHG emission reductions and removals. This item has been adequately addressed.	
Date closed:	21 February 2013

24. Clarification

AR-AMS0001 Criteria: For all other years, the carbon stocks within the project boundary ($N(t)$) at time t shall be calculated as follows:	
Evidence Used to Assess Conformance: PD Section 3.2.1; TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx - Ex Ante Strata Est Tab	
Clarification (CL): CL: Please clarify in the PD that Equation 3.2a provides estimates of total carbon stocks. Also, please indicate in the PD where the application of the equation can be found in the supporting documents.	
Date issued:	11 January 2013
Project proponent response/actions and date:	

Equation 3.2a: The text was changed to “The carbon stock within the project boundary is calculated using the following equation.”

The application of Equation 3.2a takes place in the worksheets “3.2 Ex-Ante Carbon Est” and “3.2 Ex-Ante Strata Est” of TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx. N_A and N_B are derived in 3.2 Ex-Ante Carbon Est (example see columns E, F and G). The area is applied in “3.2 Ex-Ante Strata Est”.

Evidence used to close NCR:

TIST UG PD-VCS-005a PD Text 130208.doc: Confirmed that the text was modified in PD Section 3.2.1 as indicated above. Also, the project proponent’s response above regarding the application of Equation 3.2a was appropriately added as a footnote in Section 3.2.1 of the PD. Item is addressed.

Date closed: 21 February 2013

25. Clarification

AR-AMS0001 Criteria:

18. For above-ground biomass $NA(t)_i$ is calculated per stratum i as follows:

Evidence Used to Assess Conformance:

PD Section 3.2.1; TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx - Ex Ante Carbon Est Tab

Clarification (CL):

CL: Please indicate in the PD, where the application of Equation 3.2b (Equation 13 of AR-AMS0001) can be found in the supporting documents

Date issued: 11 January 2013

Project proponent response/actions and date:

See worksheet 3.2 Ex-Ante Carbon Est, column E

Evidence used to close NCR:

TIST UG PD-VCS-005a PD Text 130208.doc: Confirmed that the project proponent’s response above was added as a footnote in Section 3.2.1 of the PD. Item is addressed.

Date closed: 21 February 2013

26. Clarification

AR-AMS0001 Criteria:

19. If biomass tables or equations are available then these shall be used to estimate $T(t)_i$ per stratum i . If volume table or equations are used then

Evidence Used to Assess Conformance:

PD Section 3.2.1; TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx - Ex Ante Carbon Est Tab

Clarification (CL):

CL: Please indicate in the PD, where the application of Equation 3.2c (Equation 14 of AR-AMS0001) can be found in the PD or supporting documents. Also, please ensure consistency in WD value reported in the PD for Other Africa, Dry Tropical Species and that which was used in Appendix 04.

Date issued: 11 January 2013

Project proponent response/actions and date:

See referenced Excel sheet, “3.2 Ex-Ante Carbon Est” worksheet. Different columns for different species groups.

$T_{(t)_i}$ = example column D
 $SV_{(t)_i}$ = example column B
 BEF = example column C
 WD = example column D

The WD value reported in the PD for Other Africa has been changed to 0.61.

Evidence used to close NCR:

TIST UG PD-VCS-005a PD Text 130208.doc: Confirmed that the project proponent’s response above

regarding the application of Equation 3.2c was appropriately added as a footnote in Section 3.2.1 of the PD. The WD value was appropriately updated in the PD as well. Item is addressed.

Date closed: 21 February 2013

27. Clarification

AR-AMS0001 Criteria:

20. Values for SV(t)_i shall be obtained from national sources (such as standard yield tables). Documented local values for BEF should be used. In the absence of such values, national default values should be used. If national values are also not available, the values should be obtained from Table 3A.1.10 of the IPCC good practice guidance for LULUCF. If national default values for wood density are not available, the values should be obtained from Table 3A.1.9 of the IPCC good practice guidance for LULUCF.

Evidence Used to Assess Conformance:

PD Section 3.2.3; TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx - Ex Ante Carbon Est Tab

Clarification (CL):

CL: Please include the correct R value for *Pinus patula* in PD Section 3.2.3. Also, the footnote reference for *Pinus patula* should indicate the use Conifer Forest/Plantation values. Also, please clarify in the PD the sources of WD values for *Maesopsis eminii* and *Symphonia globilifera*.

Date issued: 11 January 2013

Project proponent response/actions and date:

a) We believe the R value is correct.

b) The footnote reference for *Pinus patula* has been corrected to refer to "Conifer Forest/Plantation."

c) The reference code is 5, Browne, Sandra. Estimating biomass and biomass change in tropical forests, FAO Forestry Paper 134, Appendix 1 - List of wood densities for tree species from tropical America, Africa, and Asia, 1997. Accessed October 24, 2011 at <http://www.fao.org/docrep/W4095E/W4095E00.htm>. The link works and the WD is there.

Evidence used to close NCR:

a). This CL was miss-stated on the part of the verifier. It should have stated "Please include the correct **BEF** value for *Pinus patula* in PD Section 3.2.3." The project proponent was informed of this via email on 22 February 2013. The project proponent immediately included the correct value for *Pinus patula* BEF in the PD and provided the verifiers with the updated version.

b). TIST UG PD-VCS-005a PD Text 130208.doc: Confirmed that the footnote reference for *Pinus patula* has been updated appropriately in PD Section 3.2.3.

c). <http://www.fao.org/docrep/W4095E/W4095E00.htm>: This reference was revisited and WD values for *Maesopsis eminii* and *Symphonia globilifera* were located. The WD values presented in this reputable source for these species are presented appropriately in the PD. Further, the WD values are used accordingly in the *ex ante* calculations.

All items here have been adequately addressed.

Date closed: 22 February 2013

28. Clarification

AR-AMS0001Criteria:

21. For below-ground biomass, NB(t) is calculated per stratum i as follows:

Evidence Used to Assess Conformance:

PD Section 3.2.1; TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx - Ex Ante Carbon Est Tab

Clarification (CL):

CL: Please indicate in the PD, where the application of Equation 3.2d (Equation 15 of AR-AMS0001)

can be found in the PD or supporting documents	
Date issued:	11 January 2013
Project proponent response/actions and date:	
See referenced Excel sheet, "3.2 Ex-Ante Carbon Est" worksheet. The factors are in different columns for different species groups.	
$T_{(t)}$ = example column F	
R = example column F	
0.5 = example column E	
Evidence used to close NCR:	
TIST UG PD-VCS-005a PD Text 130208.doc: Confirmed that the project proponent's response above was added as a footnote in Section 3.2.1 of the PD. Item is addressed.	
Date closed:	22 February 2013

29. Clarification

AR-AMS0001 Criteria:	
24. The removal component of actual net GHG removals by sinks can be calculated using Equation 17.	
Evidence Used to Assess Conformance:	
TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx - Ex Ante Carbon Est Tab	
Clarification(CL):	
CL: Please indicate in the PD, where the application of Equation 17 of AR-AMS0001 can be found in the supporting documents	
Date issued:	11 January 2013
Project proponent response/actions and date:	
Equation 17 was added as Equation 3.2.e.	
To determine ΔC_{PROJ} see referenced Excel sheet. The value for N_t comes from column G of worksheet "3.2 Ex-Ante Carbon Est." It is transferred to the appropriate cell in the strata array set up in worksheet "3.2 Ex-Ante Strata Est." The values for similar age strata are summed in (example) column L. The values of the age strata of the species are summed in column AY. This is still N_t but now summed. N_{t-1} is to symbolize time difference and is not needed because all this is done on an annual basis. $(44/12)$ is multiplied in column AZ. Δt is done in column BA. The value for ΔC_{PROJ} is cell BA35.	
Evidence used to close NCR:	
TIST UG PD-VCS-005a PD Text 130208.doc: Confirmed that Equation 17 of AR-AMS0001 was included in the PD in Section 3.2.1 as indicated. Also, the project proponent's response above regarding the application of this equation was appropriately added as a footnote. Item is addressed.	
Date closed:	22 February 2013

30. Clarification

AR-AMS0001 Criteria:	
26. The <i>ex ante</i> actual net greenhouse gas removals by sinks in year t are calculated using Equation 18.	
Evidence Used to Assess Conformance:	
PD Section 3.2.5	
Clarification (CL):	
CL: Please indicate in the PD where the application of Equation 18 of AR-AMS0001 can be found in the supporting documents.	
Date issued:	11 January 2013
Project proponent response/actions and date:	
Equation 18 was added to PD Section 3.2.1 as equation 3.2. f. Reference was made to PD Section	

3.2.5, where $GHG_{PROJ} = \text{zero}$. And therefore $C_{ACTUAL} = \Delta C_{PROJ}$ which is in cell BA35, "3.2 Ex-Ante Strata Est."

Evidence used to close NCR:

TIST UG PD-VCS-005a PD Text 130208.doc: Confirmed that Equation 18 of AR-AMS0001 was included in the PD in Section 3.2.1 as indicated. Also, the project proponent's response above regarding the application of this equation was appropriately added as a footnote. Item is addressed.

Date closed: 22 February 2013

31. Non-Conformance Report

AR-AMS0001 Criteria:

27. According to decision 6/CMP.1, annex, Appendix B, paragraph 9: "If project participants demonstrate that the small-scale afforestation or reforestation project activity under the CDM does not result in the displacement of activities or people, or does not trigger activities outside the project boundary, that would be attributable to the small-scale afforestation or reforestation project activity under the CDM, such that an increase in greenhouse gas emissions by sources occurs, a leakage estimation is not required. In all other cases leakage estimation is required."

Evidence Used to Assess Conformance:

PD Section 3.3

Non-Conformance report (NCR):

NCR: Please provide evidence of surveys used to demonstrate the project meeting requirement IV.27 of AR-AMS0001. Note that the surveys are also requested under Item 18 above

Date issued: 11 January 2013

Project proponent response/actions and date:

As noted, in response to NCR 18, the surveys were collected electronically and the data only exists on the TIST data base. The results of the survey were provided in the Grove Summary worksheet of TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx.

Evidence used to close NCR:

As noted under Item #18 above, this issue is addressed.

Date closed: 22 February 2013

32. Clarification

AR-AMS0001 Criteria:

(i) For reforestation project activities, demonstrate that the land was not forest by demonstrating that the conditions outlined under (a) above also applied to the land on 31 December 1989.

Evidence Used to Assess Conformance:

PD Section 1.13.1; TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx

Clarification (CL):

CL: Please clarify what question landowners were asked in order to provide evidence of meeting the requirement of 1.b.i of this tool

Date issued: January 11 2013

Project proponent response/actions and date:

The question asked are:

Was this grove ever a forest? (Yes / Not to my knowledge)

If "Yes" then: When were the trees cut down? (year) (free form numeric field)

The answers in the Grove Summary sheets are derived as follows:

If the answer to the first question is Not to my knowledge, a "No" is displayed.

If the answer is yes, then the second question is asked.

If the answer is before 1995 the project areas is eligible under the VCS ten year rule and a "No" is displayed.

All other answers result in "Yes" and these project areas are deemed ineligible for the PD and not included.

Evidence used to close NCR:

This answer is consistent with the interviews and discussions with project participants and project developers during the site visit. Item is addressed.

Date closed: 22 February 2013

33. Non-Conformance Report

Site Visit:

The following Instances had issues that were discovered during the site visit. Each of these instances is listed here along with the issues found.

2007ug270Tumwekwase- This grove was clearly over counted. Farmer admitted he only planted 150 trees, half of which had been harvested recently. Grove was listed as having 591 trees, but the verifier only counted 64. A complete count of all standing trees was performed.

2007ug248Namara 01- Major boundary issues on this grove. The verifier measured a track around this grove that was significantly different, however technical difficulties on site (satellites) made correction of the project area in Ha impossible, and there was not a way to identify the actual area. The grove was well stocked with trees. The boundaries of this grove need to be corrected.

2007ug248Maganyiro 01- Boundary found to be incorrect. Lack of satellites made correction of polygon impossible. Track needs to be corrected and resubmitted.

2007ug248Namara 02- Boundary found to be incorrect. Lack of satellites made correction of polygon impossible. Track needs to be corrected and resubmitted.

2009UG78Mugasha E- This site had a bad track. TIST needs to correct it. The project area was much larger than the polygon submitted. Verifier traced his own track and found that the actual project area was 4.75 ha. Also all Eucalyptus were removed from the project which resulted in the total number of trees being less than the original report. TIST needs to correct the polygon for this grove and resubmit.

General- applies to all instances- During the site visit, it was found that many instances did not have 'closed' polygons. Where these sites were visited, most had correct tracks that outlined the grove; however a few (indicated above) had more serious issues with correctness. It appears that several groves within the project need to be quality checked for complete tracks so that all project sites (instances) can be represented with complete polygons.

Evidence Used to Assess Conformance:

Site visit findings

Non-Conformance Report (NCR):

Please address the field visit findings by either removing the instances or demonstrate corrective measures for each.

For all instances- Please demonstrate that all project instances now have complete tracks. Please resubmit the project maps and data with corrected polygons.

Date issued: 11 January 2013

Project proponent response/actions and date:

2007UG270-Tumwekwase: An audit team was sent to the grove on 22 January 2013 and counted 591 trees confirming our database count. We believe the Validator was in 2007ug270Tumwekwase G where 145 trees are listed on the database but only 64 *Pinus* were present during the audit.

2007UG248-Namara 01 (Kabal2, 17367) - The project area was re-tracked and the new area is

1.6698 ha.	
<u>2007 UG 248-Maganyiro 01 (Kabal2, 17361)</u> - The project area was re-tracked and the new area is 0.7359 ha.	
<u>2007 UG 248-Namara 02 (Kabal2, 17368)</u> - The project area was re-tracked and the new area is 1.2934 ha.	
<u>2009UG78-Mugasha E (Bushenyi, Kitag, 31474)</u> – The project area was re-tracked and the new area is 4.4536 ha.	
Regarding the polygon issue, the official KML file of the project areas are and were polygons. The issue was raised because we ran special GPX files for your field visit that did not necessarily close the polygons.	
Evidence used to close NCR: Re-tracked files were compared between initial submissions and subsequent submitted KML track files. The updated track files correlate with what was observed during the site visit. Updated area values were confirmed in both ex ante (TIST UG PD-VCS-005e App04 Data 130208 Group.xlsx) and ex post (TIST UG PD-VCS-005i App08 Monitoring Data 130208 Group.xlsx)	
Polygons were confirmed to be closed by viewing the KML files and comparing to the GXP files.	
Date closed:	01 March 2013

34. Non-Conformance Report

AR-AMS0001 Criteria: VI. Simplified monitoring methodology for small-scale afforestation and reforestation projects under the clean development mechanism	
B. Ex post estimation of the actual net greenhouse gas removals by sinks	
42. Estimate of above-ground biomass at time t achieved by the project activity E(t) shall be estimated through the following steps:	
(b) Step 2: Measure the diameter at breast height (DBH) or DBH and tree height, as appropriate this measure and document it in the Monitoring Reports;	
Evidence Used to Assess Conformance: PD Section 4.3.3; TIST UG PD-VCS-005i App08 Monitoring Data 121112 Group.xlsx	
Non Conformance Report (NCR): NCR: Please demonstrate how using monitoring data from areas external to the project sites would be in conformance with AR-ASM0001. This relates to the use of project measurements from outside the VCS005 project areas. It appears data from other project areas was used for this calculation. This issue could also be addressed by demonstrating that the statistical requirements of the methodology would be met using only monitoring data from the project sites.	
Date issued:	January 11 2013
Project proponent response/actions and date: The dataset has been replaced and only contains circumference data from project areas in PD 005.	
Evidence used to close NCR: TIST UG PD-VCS-005i App08 Monitoring Data 130208 Group.xlsx: Monitoring data were reviewed and now include only circumference data from project areas included in the PD. Further, the project is still in conformance with the statistical requirements of AR-ASM0001. TIST UG PD-VCS-005h App07 Monitoring Rpt 130208.doc: The Monitoring Report has been updated to reflect the results of the new dataset. Item is addressed.	
Date closed:	22 February 2013

APPENDIX B – GROVES SAMPLED

- 2007ug248-Ellen01
- 2003ug328ephance
- 2010ug181 kyabo 01
- 2010UG181 Kyabo 02
- 2007ug270grever T
- 2007ug270 Tumwekwase
- 2007ug248Namara 01
- 2007ug248 maganyiro 01
- 2007ug248namara 02
- 2007ug248Namara03
- 2003UG281 bitarikwata 03
- 2009UG78Mugasha E
- 2009UG78Charity
- 2010UG138 Geofrey 01
- 2007UG270 Kabakyesha A03
- 2003UG281 Alexb 02
- 2003UG281 Honst B
- 2003UG281 Alex
- 2006UG38Mbonabucha
- 2010UG154 Kampikaho/Rwamutemba
- 2010UG154 Bazira/Rukuta

APPENDIX C- DOCUMENTS RECEIVED / REVIEWED

Documents Received 14 November 2012

- TIST UG PD-VCS-006e App04 Data 121112.xlsx
- TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx

Documents Received 20 November 2012

- TIST UG PD-VCS-Ex 21 GL2 Community Survey Template.doc
- TIST UG PD-VCS-Ex 22 GL2 Community Survey Result.doc
- TIST UG PD-VCS-Ex 01 Environmental Screening 060803.pdf
- TIST UG PD-VCS-Ex 02 NEMA EA Approval 070515.pdf
- TIST UG PD-VCS-Ex 03 GhG Contract UG 051014.doc
- TIST UG PD-VCS-Ex 04 GhG Contract UG 080319.doc
- TIST UG PD-VCS-Ex 05 Winrock Report 021215.doc
- TIST UG PD-VCS-Ex 06 KE EIA Report NAREDA 100506.doc
- TIST UG PD-VCS-Ex 07 Mgt Resumes 110215.doc
- TIST UG PD-VCS-Ex 08 Mgt Experience 110215.doc
- TIST UG PD-VCS-Ex 09 Financial Plan.xls
- TIST UG PD-VCS-EX 10 CDM SD Review 060925.pdf
- TIST UG PD-VCS-Ex 11 Governance Indices.xls
- TIST UG PD-VCS-Ex 12 Pests and Diseases 2008.pdf
- TIST UG PD-VCS-Ex 13 Dist Enviro Profile Bushenyi.doc
- TIST UG PD-VCS-Ex 14a Public Comments CCB-001.doc
- TIST UG PD-VCS-Ex 15 Quantifier Safety 110110.doc
- TIST UG PD-VCS-Ex 16 Employee Rights.doc
- TIST UG PD-VCS-Ex 17 UN Human Dev Rpt 2011.pdf

- TIST UG PD-VCS-Ex 18 FAO Enviro Degradation.pdf
- TIST UG PD-VCS-Ex 19 UNEP Tree Benefits.pdf
- TIST UG PD-VCS-Ex 20 Dist Enviro Profile Kabale.pdf

Documents Received 15 January 2013

- INCOME LEVEL.doc

Documents Received 8 February 2013

- TIST UG PD-VCS-005i App08 Monitoring Data 130208 Group.xlsx
- TIST UG PD-VCS-005 NCR Round 1 130207.docx
- TIST UG PD-VCS-005a PD Text 130208.doc
- TIST UG PD-VCS-005b App01 LSat1990 Map.htm
- TIST UG PD-VCS-005b App01 LSat1990 Map.jpg
- TIST UG PD-VCS-005c App02 LSat2090 Map.htm
- TIST UG PD-VCS-005c App02 LSat2090 Map.jpg
- TIST UG PD-VCS-005d App03 PA Plots.kml
- TIST UG PD-VCS-005e App04 Data 130208 Group.xlsx
- TIST UG PD-VCS-005f App05 Risk Analysis 130208.doc
- TIST UG PD-VCS-005g App06 Geo Area of Groups.kml
- TIST UG PD-VCS-005h App07 Monitoring Rpt 130208.doc

Documents Received 04 March 2013

- TIST UG PD-VCS-005a PD Text 130222.doc

Documents Received from TIST Website 04 March 2013

- TIST UG PD-VCS-005e App04 Data 121112 Group.xlsx
- TIST UG PD-VCS-005a PD Text 121112.doc

- TIST UG PD-VCS-005d App03 PA Plots121112.kml
- 2013-01-10
 - o TIST UG PD-VCS-005i App08 Monitoring Data 121112 Group_WithJPChecks.xlsx
 - o IST UG PD-VCS-005b App01 LSat1990 Map.jpg
 - o TIST UG PD-VCS-005c App02 LSat2090 Map.jpg
 - o TIST UG PD-VCS-005f App05 Risk Analysis 121112.doc
 - o TIST UG PD-VCS-005g App06 Geo Area of Groups.kml
 - o TIST UG PD-VCS-005h App07 Monitoring Rpt 121112.doc
 - o TIST UG PD-VCS-005i App08 Monitoring Data 121112 Group.xlsx
- 2013-01-11
 - o TIST UG PD-VCS-Ex 23 Best Forest Practices 130110.doc
- TIST UG PD-VCS-005 GPX Track Files by Center
 - o TIST UG PD-VCS-005 GPX Track Files by Center\pdd_UG_vcs_005_Ryeru(175).gpx
 - o TIST UG PD-VCS-005 GPX Track Files by Center\pdd_UG_vcs_005_Bumba(162).gpx
 - o TIST UG PD-VCS-005 GPX Track Files by Center\pdd_UG_vcs_005_Burer(163).gpx
 - o TIST UG PD-VCS-005 GPX Track Files by Center\pdd_UG_vcs_005_Bushenyi_Town(164).gpx
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 - o TIST UG PD-VCS-005 GPX Track Files by Center\pdd_UG_vcs_005_Kabal2(177).gpx
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- o TIST UG PD-VCS-005 KML
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Center\pdd_UG_vcs_005_Rugyeoyo.kml

Documents Received from TIST Website 4 March 2013

- TIST UG PD-VCS-005f App05 Risk Analysis 130304.doc
- TIST UG PD-VCS-005a PD Text 130304.doc