Annex B: Assessment, Monitoring, and Testing Methods

The regenerative plan is specific to the **holding**. Testing methods are to be identified, depending on the risk assessment detailed in the **Regenerative Plan**, and detailed to reflect the specific **holding's** regenerative journey. The appropriate testing method to be used, if required, will be discussed and detailed within the **Regenerative Plan** by the **holding's Qualified Expert**.

There are a range of tests that can be incorporated, dependent on the specific risks, targets, and outcomes as detailed in a **holding's** individual **Regenerative Plan**. The key is using the same method on an ongoing basis. The following testing methods, measuring techniques, and assessments are commonly accepted by A Greener World. They include, but are not limited to:

1. **Soil**

Examples of Tests, Methods and Assessments	
Column A: Soil Biodiversity Measures	**Column B: Other Soil Measures**
Soil Biology/Biodiversity Assessments, transects	Soil pH
Worm Counts per Square Metre	Soil Structure Assessment
Soil Life Suites (bacteria and fungi, number, species and diversity)	Percolation Testing
Pitfall Trapping	Surface and Subsurface Hardness
Soil Respiration	Standard Soil Test (Macro- and Micronutrients & pH)
Soil Organic Matter	Soil Pit/Profile (Assessment of horizons, exact location of compacted layers, root depth, etc.)
Soil Active Carbon	Soil Protein Index
Resources and References	
Global Soil Partnership: Biodiversity	
AHDB Principals of Soil Management	
AHDB Measuring and Managing Soil Organic Matter	
AHBD Testing Soil Health	
AHBD Soil Assessment Methods	
Cornell Comprehensive Assessment of Soil Health	

Guidance on Assessments by Dr. Jennifer Dungait Example of Laboratory Testing Suites

2. Water

Examples of Tests, Methods, and Assessments	Resources and References
Consumption - Irrigation - Aquifer Conditions and Changes Pollution - Dissolved Oxygen - Turbidity and Total Suspended Solids (TSS) - Bioindicators - Nitrates - pH Scale - Temperature	UNSW Groundwater Levels and Aquifer Storage Measuring Groundwater with Steel Tape Measuring Methods for Groundwater-Surface Water Interactions Measuring Dissolved Oxygen Levels of Water Measuring Turbidity and Total Suspended Solids (TSS) Bioindicators Nitrates Measuring the pH of Water

3. Air

Examples of Tests, Methods, and Assessments	Resources and References
Dust / Particulate Matter - Visual Assessment (example: dust fall, accumulation of spilled feed) - Reflectometer - Staining - Visual by Weight (example: Measurement of the mass deposition rate to a horizontal sampling surface as a surrogate for nuisance. The units are mass / area / unit time (mg/m^2/day). Ammonia and Hydrogen Sulfide - Sniff Test - Pull Tubes - Diffusion Tubes - Emissions from **Holding** Emissions Data (local datasets)	Monitoring Particulate Matter in Ambient Air Environmental Permit Compliance Review of Odor Character and Thresholds Ammonia Monitoring in Barns United Kingdom Emissions Data United States Emissions Data Canada Emissions Data

- Ammonia - Carbon Dioxide - Methane - Nitrous Oxide	

4. Biodiversity

Examples of Tests, Methods, and Assessments	Resources and References
Bird Counts Wildlife Counts Insect Counts Line Transects Square Transects Photographs	Bird Counts Earthworm Counts Insect Counting Line Transects Square Transects Photographs HMI Biological Monitoring NZ Department of Conservation: Biodiversity Inventory and Monitoring Toolbox The Biodiversity Monitoring System

5. Human

Examples of Tests, Methods, and Assessments	Resources and References
Performance Reviews Fair Measures - Notification of employees with written or verbal notice of suspension or dismissal H2A Housing Inspection Reports Living Wages	UN Universal Declaration on Human Rights United States Living Wages Canada Living Wages

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Monitoring

This table may be used to describe the monitoring techniques and frequency to demonstrate delivery of your plan.

Action or feature you plan to monitor	What method will be used	Frequency of monitoring	What indicators will demonstrate success	Who is responsible for monitoring	Results