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## **Landfill Project Protocol Summary of Changes from Version 4.0 to Version 5.0**

April 24, 2019

The Landfill Project Protocol Version 5.0 incorporates the following significant changes from Version 4.0.

### **Section 2. The GHG Reduction Project**

- Updated project definition to stipulate that expansion of landfill gas collection into a new cell(s) at an existing project may optionally be considered part of the existing project or submitted as a new project (Section 2.2)

### **Section 3. Eligibility Rules**

- Added flexibility to the rules around application for a second crediting period (Section 3.3)
- Updated the Performance Standard Test, removing the size threshold for landfill gas to energy projects (Section 3.4.1)
- Added a credit stacking section to place limits on projects receiving any form of high-Btu transport fuel production (and potentially other) incentives (Section 3.4.2)
- Updated Legal Requirement Test guidance to reflect updated Federal Regulations (Section 3.4.3.1)
- Updated Legal Requirement Test guidance to remove local NMOC threshold, reflecting changes in market conditions (previously Section 3.4.2.3)
- Updated Regulatory Compliance guidance such that for projects co-located at a single landfill, the rebuttable presumption will be that a regulatory issue at the landfill will be considered relevant to all projects at that landfill (Section 3.5)

### **Section 5. Quantifying GHG Emission Reductions**

- Updated guidance related to the OX factor, incorporating the Clarification issued on June 18, 2015 to make clear that it only applies for the relevant number of days, rather than the entire reporting period (Section 5.1)
- Updated guidance for destruction efficiency values to incorporate the Clarification issued on January 21, 2014, with a hierarchy of options, including those for site-specific values (Section 5.1)

### **Section 6. Project Monitoring**

- Incorporated Clarification from October 2011 on the use of single flow meters to monitor multiple destruction devices (Section 6.1)

- Incorporated Clarification from January 2015 on the monitoring of off-site destruction of landfill gas (Section 6.1)
- Updated guidance for weekly methane monitoring, stipulating the methodology employed be articulated clearly and applied consistently by the project (Section 6.1)
- Updated guidance for demonstrating operational activity of devices other than flares (Section 6.1)
- Introduced new alternative monitoring option, whereby protocol requirements can be met without direct monitoring of LFG flow and CH<sub>4</sub> content, when utility meters are used, conditional upon Reserve approval and verifier review (new Section 6.1.1)
- Incorporated Clarification from June 3, 2013 to update QA/QC requirements by clarifying factory calibration requirements need only apply when meters are actually employed to gather data for project use (Section 6.2)
- Updated QA/QC factory calibration requirements to allow projects to follow manufacturer requirements, and only in the absence of any such requirements will projects need to calibrate devices every 5 years (Section 6.2)
- Updated QA/QC requirements, adding guidance for when temporary stationary meters are used at the project, or meters are removed during the reporting period (Section 6.2)
- Updated QA/QC requirements, adding guidance for cleaning after a meter is found to be outside the allowable drift requirements, incorporating previous E&C guidance (Section 6.2)
- Incorporated Clarification from October 2011, adding guidance for additional field checks carried out by landfill staff, in excess of protocol requirements (Section 6.2)
- Incorporated Clarification from June 2013, clarifying which instruments are subject to QA/QC requirements (Section 6.2)

## **Section 7. Reporting and Record Keeping**

- Introduced flexible options to extend verification periods to up to 24 months, to allow for optional verification of 2 reporting periods in a single verification (Section 7.3)
- Introduced option for deferment of a site visit for a single reporting period, subject to certain conditions (Section 7.3)

## **Appendices**

- Updated summary of Performance Standard Test analysis (Appendix A)