

Participant Data

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Emissions Model	IEUA Digester Model 2004 (03-21-06)
MRV Protocol:	Inland MRV Protocol (03-21-06)

Summary

Based on its review, ERT has verified the information submitted by IEUA as being consistent with the attached monitoring, reporting, and verification protocol. ERT has registered a total of 8,072 metric tons of CO₂ equivalent emission reductions in 2003 and 5,848 tons of CO₂-e reductions in 2004, conditioned on the following findings and adjustments.

Key Findings*

Project Boundaries & Dates:	The project boundaries are consistent with those described in the MRV Protocol. The project dates associated with the emission reductions verified in this statement are 1 January 2003 through 31 December 2004.
Additionality & Leakage:	The emission reductions were verified to be additional, given existing regulatory requirements. No leakage of emissions outside the project boundaries was identified.
Baseline:	The baseline is unmitigated release of all air pollutants, both from the local dairies where manure was stockpiled and stored in lagoons, and from agricultural fields where manure was land applied.

<p>Monitoring, Data Collection, & Methodology:</p>	<p>In general, procedures were in keeping with the MRV protocol. The following deviations were determined to be acceptable.</p> <p>Measurements of biogas characteristics (composition, methane content, sulfur content, heat content) are taken sporadically by IEUA and contractors. A more systematic and regular testing procedure would enhance data quality.</p> <p>Incoming honey vacs and transfer containers delivering manure to the digester are weighed on a tipping scale at RP-5. Also, measurements of total solids and volatile solids are taken at RP-5. There is no scale at RP-1 requiring an estimation of weight based on the assumption that density is identical to loads received at RP-5. Although this is likely to be an accurate assumption a scale at RP-1 would enhance data quality.</p> <p>Measurements of TS and VS at RP-1 are taken after water is added to achieve desired dilution. This invalidates the data for use in the baseline calculations, requiring an assumption that solids content of undiluted loads at RP-1 have identical TS and VS properties as manure received at RP-5. Again, this is unlikely to cause a bias in the data.</p> <p>The efficiency of methane destruction in the flare was based on typical flare manufacturer's guaranteed value of 98 percent, which is also supported by the default value in EPA's AP-42 volume.</p>
<p>Quality Control, Reporting, Documentation, & Uncertainties:</p>	<p>Quality control, reporting, and documentation procedures followed were in keeping with the MRV protocol. Although the methane content measurements were only taken sporadically, relatively low variability was observed between measurements.</p>

Incremental Account Adjustment

<p>Valid as of:</p>	<p>21 March 2006</p>
<p>Registered reductions (metric tons of CO₂-equivalents):</p>	<p>5,848</p>
<p>Vintage Year(s):</p>	<p>2004</p>
<p>ERT Serial Numbers:</p>	<p>120,145,048 – 120,150,872 137,419,839 – 137,419,861</p>

Incremental Account Adjustment

Valid as of:	21 March 2006
Registered reductions (metric tons of CO ₂ -equivalents):	8,072
Vintage Year(s):	2003
ERT Serial Numbers:	119,244,246 – 119,252,268 137,419,790 – 137,419,838

Attachments/Exhibits

*Special Notes

Note that the registration of the project reduction at IEUA is performed in the context of ongoing efforts at IEUA to complete a corporate-wide inventory and register entity wide emissions with ERT.

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