



RUBY CANYON ENVIRONMENTAL

Validation and Verification Report Addendum

ACR 564 Tradewater HFC Reclamation

August 3, 2022

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ADDENDUM

This addendum is to the original validation and verification report that Ruby Canyon Environmental, Inc. (RCE) issued on March 19, 2021 for ACR564 Tradewater HFC Reclamation Project (Project), made in accordance with the Methodology for the Quantification, Monitoring, Reporting and Verification of Greenhouse Gas Emissions Reductions and Removals from Certified Reclaimed HFC Refrigerants, Version 1.1 (September 2018) for the reporting period December 26, 2019 to September 21, 2020.

In April 2022, version 2.0 of the methodology—Methodology for the Quantification, Monitoring, Reporting and Verification of Greenhouse Gas Emissions Reductions and Removals from Certified Reclaimed HFC Refrigerants, Propellants, and Fire Suppressants—was released, allowing validated projects for vintages 2019 onwards, that used 10-year emission rates from previous versions of the methodology, to be eligible to re-calculate the baseline and project emissions and emission reductions using the quantification equations provided in version 2.0 of the methodology.

Tradewater submitted an updated version of the Project Plan and Monitoring Report to show the new calculated baseline emissions, project emissions, and emission reductions for the reporting period December 26, 2019 to September 21, 2020 in accordance with version 2.0 of the methodology.

RCE verified the quantification of emissions reductions based on the equations in version 2.0 of the methodology. All eligibility and all other required checks of the original validation and verification remain unchanged. RCE verified the following revisions to the updated Project Plan (August 2, 2022) and Monitoring Report (August 2, 2022):

- Tradewater revised the crediting period from 12/26/2019 – 12/25/2029 to 12/26/2019 – 12/25/2034.
- Tradewater reported the updated baseline emissions, project emissions, and emissions reductions including the outstanding balance of ERTs for the reporting period December 26, 2019 to September 21, 2020.

Based on the review and the historical evidence collected, RCE concludes to a reasonable level of assurance that the updated GHG assertion is free of material misstatement. The emission reductions resulting from HFC reclamation for the reporting period December 26, 2019 to September 21, 2020 can be considered in conformance with the following criteria:

- ACR Standard, Version 6.0 (July 2019),
- ACR Validation and Verification Standard Version 1.1 (May 2018),
- Certified Reclaimed HFC Refrigerants, Version 1.1 (September 2018),
- Certified Reclaimed HFC Refrigerants, Propellants, and Fire Suppressants, Version 2.0 (April 2022) for quantification of emission reductions only, and
- ISO 14064-3:2006, Greenhouse gases – Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions.

Tables 1 and 2 provide summaries of the emissions reductions verified for the Project including the new ERTs, Original ERTs, and the Outstanding ERTs.

Table 1. Tradewater HFC Emission Reductions

Vintage	Baseline Emissions (MTCO₂e)	Project Emissions (MTCO₂e)	Emissions Reductions (MTCO₂e)
2019	158	N/A	158
2020	10,193	N/A	10,193
Total	10,352	N/A	10,352

Table 2. Tradewater HFC Emission Reductions Tonnes (ERTs) to be issued

Vintage	New ERTs (MTCO₂e)	Original ERTs (MTCO₂e)	Outstanding ERTs (MTCO₂e)
2019	158	112	47
2020	10,193	7,201	2,992
Total	10,352	7,313	3,039

Lead Validator and Verifier



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