

Release Notes **BREEZE AERMOD 13.1**

What's New in Version 13.1

- Incorporated all remaining updates from the latest U.S. EPA AERMOD 24142 executable and U.S. EPA AERMAP 24142 executable, which were released on November 20, 2024, including the following:
 - Removed BETA restriction for RLINE source type
 - Removed BETA restriction for GRSM NO2 conversion option
- Updated the source type in the AERMAP input file for RLINE, RLINEXT, buoyant line, open pit, capped point, and horizontal point sources when using AERMAP 24142
- Included new debug options for RLINE/RLINEXT source processing, buoyant line source processing, and urban options for AERMOD version 22112 and later
- Included a new Displacement Height Removal ALPHA option for RLINE/RLINEXT sources for AERMOD version 22112 and later
- Included two new low wind ALPHA options, minimum meander factor and alternate momentum balance approach to determine plume meander, for AERMOD version 22112 and later
- Included a new TTRM2 NO2 conversion ALPHA option and a related debugging output option for AERMOD version 22112 and later
- Included an offshore platform downwash ALPHA option for point sources and a related debugging output option for AERMOD version 22112 and later
- Implemented a buoyant line source group option for AERMOD version 21112 and later
- Included regulatory and non-regulatory turbulent options for AERMOD version 21112 and later
- Added intuitive notes to the Method2 particle deposition option and the gas deposition option for AERMOD version 21112 and later
- Added an intuitive note to the pollutant's background unit selection
- Added compatibility to read in AERMOD input files with source ID range(s) defined. As noted in the BREEZE AERMOD user guide, the user is strongly encouraged to check the summary of model inputs to ensure that the source ranges were interpreted as expected.

Fixed Issue

- Fixed an issue that dropped the in-stack NO2/NOx ratio for individual sources when the GRSM NO2 conversion method was specified

Known Issues

- When the multi-year option is enabled in the Control Options, subsequent years must be run immediately after prior years in order to properly read the output files.
- Some USB Hardware Keys (dongles) for licenses of AERMOD Parallel that were issued for use with AERMOD version 11103 and earlier executables will not be compatible with the most recent

editions of the AERMOD Parallel and BREEZE AERMOD Parallel executables. These dongles may need to be updated. Please contact the BREEZE Support Team at support@trinityconsultants.com .

- When a number of one unit is converted to another unit, the total decimal places of the original number are retained for the converted number. This may result in a reduced number of significant digits of the converted number and a loss of precision.
- In certain situations, polygon buildings drawn in the Map tab may not be displayed properly in the 3D tab. This is a graphical issue and will not affect the modeling results. Please contact the Support Team at support@trinityconsultants.com .

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