ADEC AERMET Data Summary

2008 – 2012 Kenai NWS

Issue/Revision Date: November 9, 2018

The Alaska Department of Environmental Conservation (ADEC) is providing the following AERMOD-ready meteorological data files for general use. Applicants who use these files should state that they obtained them from ADEC's web-site. Applicants will still need to demonstrate that the data are representative of the transport conditions at their stationary source, but they will not need to provide quality assurance information or the supporting AERMET files.

Data Set (Name/WBAN #): **Kenai NWS (26523)**

Data Period: **2008 – 2012**

General Location: **Kenai, Alaska**

Data Collected By: **National Weather Service**

Data Processed By: **AECOM and then reran by ADEC with AERMET 18081**

AERMET Version: **18081**

AERMINUTE Version: **15272**

Anemometer Height (m): **7.92**

Base Elevation (m): **28**

Upper Air Station (Name/WBAN #): **Anchorage (26409)**

Permit Record with Documentation: **See Comments and Revision Notes**

Comments: *The Kenai NWS data has been used by numerous permit applicants over the years. The most recent and notable uses for purposes of this posting are summarized in the Revision Notes.*

Revision Notes:

- July 7, 2014: ADEC posted a 2008 – 2012 dataset processed by Hilcorp using AERMINUTE 11325 and AERMET 14134. Hilcorp submitted the data in support of Minor Permit AQ1286MSS01.
- October 23, 2015: ADEC posted the 2008 – 2012 dataset after it had been reprocessed by AECOM (on behalf of the Drill Rig Workgroup) using AERMINUTE 15272 and AERMET 15181. AECOM changed the METHOD WIND_DIR setting in AERMET Stage 3 from RANDOM to NORAND and added the command "THRESH_1MIN 0.5" in

order to be consistent with EPA's March 8, 2013 memorandum, *Use of ASOS meteorological data in AERMOD dispersion modeling*.

- November 9, 2018: ADEC posted the 2008 – 2012 dataset after reprocessing it with AERMET 18081. ADEC did not rerun AERMINUTE since AERMINUTE 15272 is still current. ADEC conducted this effort as part of its review of the Alaska Gasline Development Corporation's Prevention of Significant Deterioration permit application for a Liquefaction Plant in Kenai. ADEC did not use EPA's newly developed algorithm for adjusting the surface friction velocity (u*) in order to maintain consistency with the settings in AGDC's permit application.