

ADEC AERMET Data Summary

2007 – 2011 Prudhoe Bay Unit A Pad

Issue/Revision Date: June 20, 2014

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: **Prudhoe Bay Unit A Pad**

Data Period: **2007 – 2011**

General Location: **Alaska North Slope – Prudhoe Bay**

Data Collected By: **BP Exploration (Alaska), Inc. (BPXA)**

Data Processed By: **Alaska Industrial Development and Export Authority (AIDEA)**

AERMET Version: **13350**

Anemometer Height (m): **10**

Base Elevation (m): **13.9**

Upper Air Station (Name/WBAN #): **Barrow (27502)**

Permit Record with Documentation: **AIDEA North Slope LNG Facility Modeling Protocol**

Comments: *AIDEA substituted missing temperature and solar radiation data in years 2007 and 2008 with temperature and cloud cover data collected at the Deadhorse National Weather Service station (27406). The 2009 – 2011 data did not require substitution due to improved data capture.*

Revision Notes:

- Oct. 17, 2012: ADEC posted a 2006 – 2010 data set that was processed by BPXA using AERMET version 11059. BPXA processed the data in support of minor permit for Gathering Center 3 (Permit AQ0184MSS02).
- Dec. 5, 2013: AIDEA updated the data set using the current version of AERMET (version 12345). They used the same approach and surface parameters as previously used by BPXA, but updated the data period from 2006 – 2010 to 2007 – 2011.
- June 20, 2014: AIDEA updated the 2007 – 2011 data set using AERMET version 13350. They later reran the 2011 meteorological year with the newly released AERMET version

14134 as part of a sensitivity analysis. ADEC is providing the 2007 – 2011 data generated with AERMET version 13350, as well as the 2011 data generated with AERMET version 14134.