

Conversation Record



Date: November 12, 2014 **Time:** 3:25 PM

Location: Conversation with Austin Kerr of Ascent Environmental

Subject: Selecting Met Data for Dispersion Modeling

Type: Incoming Telephone Visit
 Outgoing Conference Call Other: _____

Name of Person: Leland Villavazo, Supervising AQS (Modeling/Inventory)
San Joaquin Valley Air Pollution Control

Organization: District (SJVAPCD), Fresno, CA **Contact Number:** (559) 230-6000

SUMMARY OF CONVERSATION

Leland Villavazo provided modeling guidance and preparation of meteorological data to the Yolo Solano Air Quality Management District.

Austin Kerr and Leland Villavazo discussed what data to use in the dispersion modeling in the HRA for the Nishi project site. Leland explained the following:

- He looked at the data that is collected by the met stations operated by the UC Davis Atmospheric Studies Department. Working with the raw data that is collected by the met stations on the UC Davis campus would be challenging. Those stations do not collect temperature and wind parameters at a high enough elevation. Also, the weather conditions values provided by these stations are recorded as 2-letter code, a format that EPA has deemed insufficient for developing AERMOD-ready met data. (This is the same reason EPA will not allow met data collected from SAMSON met stations.)
- Of the three off-site locations with available met data, data from the Sacramento International Airport would be most representative of the Nishi project site. This is because the surface parameters (i.e., ground cover characteristics) around the Sacramento International Airport are most similar to those around Davis (i.e., flat, agriculture).
- Data from the Nut Tree Airport in Vacaville is not a good choice because met conditions at that location are largely influenced by the nearby Coastal Range, especially diurnal parameters.
- Data from the Sacramento Executive Airport is inferior because this is an area that is much more urbanized than Davis. The land use characteristics are very different.