**Data Dictionary for the 2008 Field Study – Mitigation of mobile source impact by vegetative and structural barriers.**

There are several data sets that are provided in ScienceHub for this study, including the following:

* GMAP\_EEPS\_YYYYMMDDN.txt or GMAP\_FMPS\_YYYYMMDD.txt: These data sets are for the Engine Exhaust Particle Sizer or Fast Mobility Particle Sizer, for the specified date embedded into the file name. The column headers are incorporated into the data file.
* GMAP\_GPS\_YYYYMMDD.txt: These data sets are GPS data output in a NMEA format, which has the following comma-delimited columns:
  + Column 1: GGA indicating Global Positioning System Fix Data
  + Column 2: HHMMSS in UTC
  + Column 3-4: Latitude (e.g., 4807.038,N = 48 deg 07.038' N)
  + Column 5-6: Longitude (e.g., 01131.000,E Longitude 11 deg 31.000' E)
  + Column 7: Fix quality (0=invalid, 1= GPS fix, 2=DGPS fix)
  + Column 8: Number of satellites being tracked
  + Column 9: Horizontal dilution of position
  + Column 10-11: Altitude in meters above mean sea level
  + Column 12-13: Height of geoid (mean sea level) above WGS84 ellipsoid
  + Column 14: Time in seconds since last DGPS update
  + Column 15: DGPS station ID number, with checksum data
* SUV\_CO\_YYYYMMDD.xls: These data are for the carbon monoxide measurements made onboard the SUV mobile vehicle. The column headers are incorporated into the data file.
* SUVN\_SMPSN\_YYYYMMDD.txt: These data sets are for the Scanning Mobility Particle Sizer located on top of the SUV mobile vehicle or the SUV2 mobile vehicle (had 2 SMPS units). The column headers are incorporated into the data file.