

14-004

The study team of this project notified the AQRP in September 2015 that they recently discovered that CMAQ simulations performed for Projects #14-002 and 14-004 utilized incorrect exit velocities of elevated point source emissions. This may result in artificially high free tropospheric concentrations of various species rather than increased values in the boundary layer. The study team will correct the exit velocities, re-run CMAQ, and re-do the analyses for these projects. CMAQ will be re-run for all modeling domains (36, 12, 4, and 1 km horizontal resolution domains) and evaluated with observations made during the DISCOVER-AQ field campaign. Additional CMAQ simulations will be performed after the updated base case simulations. For Project #14-004 the 4 km CMAQ domain will be re-run with the ozone source apportionment tool to examine the impact of emissions from several emissions source regions on air quality in the greater Houston metropolitan area.

The AQRP will provide a no cost extension to Project 14-004 through November 30, 2015, to allow time to re-run the models, analyze the data and revise the final report. No additional funds will be made available for the project.

Presentation materials will be updated to reflect the results once the reanalysis is complete.