

PASQUA Objectives:

The first objective is to conduct spatial surveys of BTEX (benzene, toluene, ethyl benzene, and m-xylene, p-xylene and o-xylene) in and around PAPA using passive samplers to establish the spatial distribution of aromatic VOCs.

- This objective is designed to assist assessments required by the 2008 Record of Decision.

The second objective is to carry out spatial surveys of the nitrogen oxides (NO_x, NO₂ and NO) using passive sampling to establish spatial distribution patterns.

- Knowledge of relative ambient ozone precursor concentrations is anticipated to be useful for ozone mitigation.

The third objective is an assessment of the spatial behavior of VOCs through the use of canister sampling.

- This information is anticipated to highlight VOC emissions and distribution, which is understood to play a role in the formation of ozone.

The fourth objective is to conduct continuous air quality monitoring downwind of the PAPA using the UW Mobile Air Quality Laboratory. At this time the mobile lab is anticipated to be placed at the intersection of Boulder Road South and US Hwy 191. The mobile lab will be equipped to measure VOCs, NO_x, ozone, carbon monoxide and meteorology.

- Analysis of this objective is expected to help determine the relative importance of different pollution sources and emission areas.

Milestones:

August 15th: Complete procurement of VOC system software

August 31st: Electrical upgrade of mobile laboratory. Upgrade of VOC system in ATSC lab.

September 15th: Re-modeling of mobile laboratory benches and sampling inlet.

September 30th: Installation of VOC system into mobile laboratory. Integration of VOC system hardware and software.

October 15th: Remote test of mobile lab at Laramie Airport ATSC hanger.

October 30th: Deploy to monitoring site.

November 1st: Initiate monitoring campaign.

November 31st: Completion of 1st VOC spatial survey.