

MEMORANDUM

Date: June 19, 2024
To: AMS Recruitment File
From: Chris Lanane, Air Monitoring Specialist
Subject: **Air Monitoring Specialist Applicant Supplemental Assignment**

Presented below is the supplemental assignment for the District's Air Monitoring Specialist position applicants. Please complete the assignment in full and submit it along with your application.

Question 1

Your organization has received an Air Quality Data Action notice indicating that your ozone level II transfer standard is out of specification. This standard is necessary for the certification of your ozone station calibrator and your ambient air ozone pollutant monitor. You send the transfer standard to the California Air Resources Board (CARB) standards laboratory for recertification. The laboratory contacts you, indicating that the transfer standard that you sent in did not meet their zero response criteria when initially tested and, therefore, cannot be recertified. The CARB lab ships your transfer standard back to you, uncertified. You send the unit back to the manufacturer to have it repaired. The manufacturer tests your transfer standard and contacts you to tell you that the unit needs no repair and meets their operational criteria.

Describe, in detail, how you would address this problem and remedy this situation. Your response should be no more than one page.

Question 2

Your organization has produced an annual network monitoring plan for the current year. You have received comments during the mandatory 30-day public inspection period. In reviewing the comments, you find a comment that Owens Lake (one of the largest sources of PM10 pollution in the United States) has too many monitors around the lakebed and that many of those are redundant and should be removed from operation. Please write a response to this comment as to why this action should or should not be taken. Reference specific regulations where possible. Your response should be no more than two pages in length.

Question 3

Please produce a rough schematic/flow diagram of the primary operational components of a medium-flow rate (16.7 liters per minute) filter-based particulate monitor/sampler, noting the components and how they affect/enhance the operation of the monitor/sampler.