

How the perimeter air monitoring CURRENT RUNNING AVERAGE is determined

Step 1	A third-party air monitoring consultant for PSE&G collects a confirmatory air sample every 5 working days of soil disturbance activity during excavation. Utilizing a SUMMA Cannister (a stainless steel container that pulls in air), a confirmatory sample is collected over 10 hours to approximate a typical work shift. The sample is collected at a location expected to have the highest potential concentration of airborne contaminants.			
Step 2	The SUMMA Cannister with the air sample is sent to a NJDEP-certified laboratory for analysis.			
Step 3	The lab analyzes the air sample for a range of contaminants, including volatile organic compounds (VOCs). The project reports the chronic action level for benzene because it has the most stringent action level.			
Step 4	 The PSE&G air monitoring consultant calculates the "Current Running Average" for benzene data by: Adding the current benzene data to the data from all previous confirmatory samples, and Dividing the total benzene data by the total number of confirmatory samples taken. 			
All benzene data combined \div Total number of samples = Current Running Average				

Example of how to calculate a current running average (Not actual measurements from the project):

	Measurement	Current Running Average	How it's calculated
Sample 1	0.7	0.7	0.7 ÷ 1 sample = 0.7
Sample 2	0.2	0.45	$(0.7 + 0.2) \div 2$ samples = 0.45
Sample 3	0.8	0.57	(0.7 + 0.2 + 0.8) ÷ 3 samples = 0.57

Step **5**

The Current Running Average is posted to the project website Air Monitoring page.