DIVISION OF AIR QUALITY

Ambient Monitoring Section 217 West Jones Street / 1641 Mail Service Center Raleigh, NC 27699-1641

5/26/2022

QA BULLETIN NUMBER DAQ-17-009.2				
TO:	Steve	Ensley, Asheville Regional Office Ambient Monitoring Coordinator Sture Ensley A815A50DA1EE 4A6, m		
	Mike ⁻	Turner, Acting Fayetteville Regional Office Ambient Monitoring Coordinator		
	Roger	Caulder, Fayetteville Regional Office BAM1020/1022 Operator		
	Paul C	Chapin, Mooresville, Regional Office Ambient Monitoring Coordinator		
	Jay Pa	apuga, Mooresville, Regional Office BAM 1022 Operator Robert Papuga		
	Tim Sl	kelding, Raleigh Regional Office Ambient Monitoring Coordinator		
	Jimmy	y Reske, Raleigh Regional Office BAM1020/1022 Operator Jimmy Ruse 6/6/2022		
	Jennif	fer Sides, Washington Regional Office Ambient Monitoring Coordinator Docusigned by 6/6/2022 Docusigned by: Junifur Sidus		
	Sam N	Mellott, Washington Regional Office BAM1020/1022 Operator (6/8123852929B403 (6/812022		
	Tony S	Sabetti, Wilmington Regional Office Ambient Monitoring Coordinator		
	Rober	rt Hodges, Wilmington Regional Office BAM1020/1022 Operator		
	Cheng	gqing Xiao, Winston-Salem Regional Office Ambient Monitoring Coordinator bocusigned by 7/19/2022		
	Kimbe	erly Hornberger, Winston-Salem Regional Office BAM1020/1022 Operator 7/19/2022 FIBBET 1400 Horn		
	Roger	Locklear, Electronics and Calibration Branch Electronics Technician		
	Joel Li	ittle, Electronics and Calibration Branch Electronics Technician Koper Locker & Cousigned by: 5/24/2022 1/11/10		
	Mike	Lane, Projects and Procedures Branch Environmental Chemist October 1, 1975 Docusigned by: Octobe		
THRO	UGH:	Patrick Butler, Ambient Monitoring Section Chief Patrick Butler		
		Joette Steger, Projects and Procedures Branch Supervisor DocuSigned by: 5/23/2022		
		Derrick House, Electronics and Calibration Branch Supervisor		
		Brendan Davey, Asheville Regional Office Air Quality Supervisor		
		Heather Carter, Fayetteville Regional Office Air Quality Supervisor C44ACE681BC6437 Peather 5/23/2022		
		BCE8652CCD594C2		

SUBJECT:	Updates for the Met One Beta Attenuation Monitor (BAM) 1020 and 1022
	Travis Fuel/28/24/2024
FROM:	Travis Funderburk, Environmental Chemist, Projects and Procedures Branch Docusigned by:
	D2198E8B1113434
	Ray Stewart, Winston-Salem Regional Office Air Quality Supervisor
	F70A8469A439452 Pay Stowart Minston Salom Regional Office Air Quality Supervisor DocuSigned by: (24, (2022)
	Brad Newland, Wilmington Regional Office Air Quality Supervisor
	DocuSigned by: 58BE67BC9AD545F
	Betsy Huddleston, Washington Regional Office Air Quality Supervisor
	3193BD42A80246F DocuSigned by: /22 /2022
	Taylor Hartsfield, Raleigh Regional Office Air Quality Supervisor Taylor Hartsfield, Raleigh Regional Office Air Quality Supervisor
	E36416E5FF674C8
	Melinda Wolanin, Mooresville Regional Office Air Quality Supervisor

Leak Checks:

Initially the Met One BAM operations manuals indicated the pump flow rate drop should be less than 1.0 liters per minute (lpm) for a passing leak check. The Division of Air Quality's (DAQ's) BAM standard operating procedures (SOPs) reflected the leak check requirements in the Met One operations manual. The last several revisions (including the latest revisions of the BAM 1022 BAM 1022-9805 REV F and BAM 1022-9800 REV G) indicates a pump flow rate of 1.5 lpm or less as a passing leak check. Beginning May 26, 2022, DAQ shall follow the manufacturer's changes on this matter and will use 1.5 lpm or less as the criteria for passing leak checks.

Zero Background Tests:

DAQ has been performing a 48-hour minimum zero background test for the BAM 1020 and 1022. Starting on May 26, 2022, DAQ will extend the zero-background test from a 48 to 72 hour minimum to: 1) better meet our measurement quality objectives for the zero test (<2.4 microgram per cubic meter [ug/m³] standard deviation), 2) gain technical troubleshooting support from the manufacturer and 3) increase the accuracy of the BKGD calculation.

Replace and Discard Original	
Add Material to Document	
Retain this bulleting until further notice	\boxtimes
Discard this bulleting after noting contents	
This bulleting will be invalid after:	Click or tap to enter a date.
This bulletin will be incorporated into the PM QAPP, Northampton	
QAPP, Background QAPP, Near Road QAPP and NCORE QAPP and	
associated BAM 1020 and 1022 SOPs by	9/30/2022