

**MetOne BAM Recommended Service Schedule
Colerain BAM PM2.5**

Annual Service	Date	6-month Service	Date	2-month Service	Date	Monthly Service	Date		
2012 <u>Operator staff tasks</u> Clean downtube Inspect pump tubing - Replace pump tubing if needed Clean or replace internal filter 72 hour BKGD test - update correction factor <u>Calibration staff tasks</u> Beta detector and dark count tests Test DAC output Check membrane span foil Annual ambtemp, ambpress, flow calibration - verify relative humidity sensor Other Calibration notes: Factory recalibration/maintenance? Details:		1st half OEPA audit Zero BKGD check Test Smart Heater		Jan/Feb	Replace tape Clean PM head and VSCC - inspect/replace o-rings Inspect roof/downtube seals	January	Checks/verification* Cleaning** Data download*** Data comparison		
				Feb		February	Checks/verification* Cleaning** Data download*** Data comparison		
				Mar/Apr	Replace tape Clean PM head and VSCC - inspect/replace o-rings Inspect roof/downtube seals	March	Checks/verification* Cleaning** Data download*** Data comparison		
				Apr		April	Checks/verification* Cleaning** Data download*** Data comparison		
				May/June	Replace tape Clean PM head and VSCC - inspect/replace o-rings Inspect roof/downtube seals	May	Checks/verification* Cleaning** Data download*** Data comparison		
				June		June	Checks/verification* Cleaning** Data download*** Data comparison		
		2-year Service <u>Calibrator staff tasks</u> Rebuild or replace vacuum pump Replace lithium coin cell battery		2nd half OEPA audit Zero BKGD check Test Smart Heater		July/Aug	Replace tape Clean PM head and VSCC - inspect/replace o-rings Inspect roof/downtube seals	July	Checks/verification* Cleaning** Data download*** Data comparison
						Aug		August	Checks/verification* Cleaning** Data download*** Data comparison
						Sept/Oct	Replace tape Clean PM head and VSCC - inspect/replace o-rings Inspect roof/downtube seals	September	Checks/verification* Cleaning** Data download*** Data comparison
						Oct		October	Checks/verification* Cleaning** Data download*** Data comparison
						Nov/Dec	Replace tape Clean PM head and VSCC - inspect/replace o-rings Inspect roof/downtube seals	November	Checks/verification* Cleaning** Data download*** Data comparison
						Dec		December	Checks/verification* Cleaning** Data download*** Data comparison

* Monthly checks include: leak check, data logger/BAM clock synchronization and flow, ambtemp, ambpress verifications

** Monthly cleaning includes: capstan shaft and pinch rollers, nozzle and vane, dust trap of head and VSCC

*** Monthly data downloads include: digital data log, error log and configuration settings (all data should be reviewed and used to verify monthly data in EDAS)

Always perform "as found checks" prior to any BAM work. Only need to do "as left" checks if problems with "as found" check that have been corrected.

For annual/2-year maintenance, do "as found" and "as left checks"