



October 1, 2024

## TECHNICAL SERVICE REPORT

**Name of Client** : Camp John Hay Corporation  
**Main Office** : JHMC Office Complex  
John Hay Special Economic Zone  
Camp John Hay, Baguio City 2600 P.O. Box 1088

### Equipment:

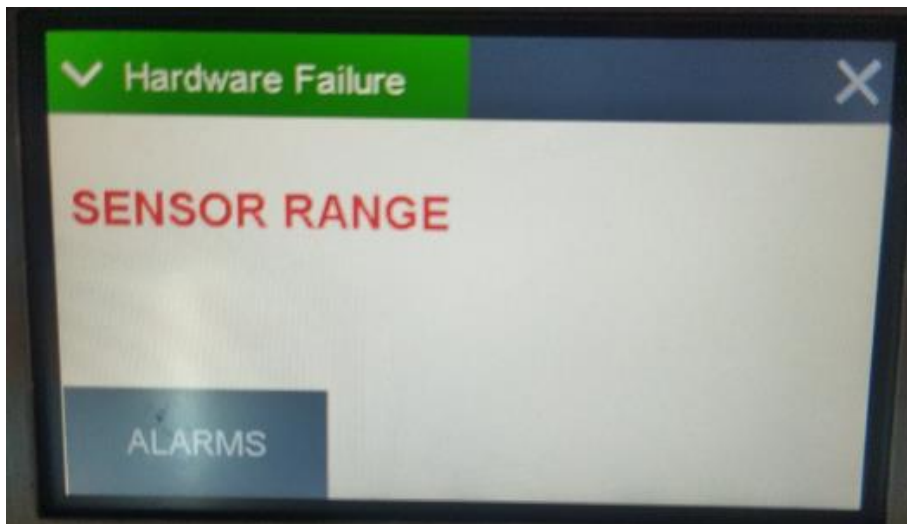
|   | Brand/Model      | Description       | Serial Number |
|---|------------------|-------------------|---------------|
| 1 | METONE/Ebam Plus | Portable Analyzer | SN: A23544    |

### 1. Initial Findings:

1.1. Ebam Plus Portable Analyzer has a defective Sensor board.

### 2. Physical inspection:

2.1 Sensor Range



### 3. Possible Causes:

|   | Fault/Alarm  | Description  | Action Required   |
|---|--------------|--|---|
| 1 | Sensor Range | The event occurs when an analog sensor reading (AT, RH, BP, UPPER, LOWER, FT, FRH) is outside the designated limits. | <ul style="list-style-type: none"><li>Replacement of Sensor Board</li></ul> |



#### 4. Recommendation:

Due to its design, the Met-One Ebam Plus requires simplified maintenance only. However, to guarantee its described characteristics for continuous operation, maintenance should be carried out frequently on the analyzer.

| Item No. | Nature of the operations  | Frequency        |
|----------|---|------------------|
| 1        | Replace the filter tape - U.S. EPA PM2.5 FEM Application        | 8 Weeks          |
| 2        | Replace the filter tape (for alternative tape advance settings) | As needed        |
| 3        | Basic leak check  | 8 Weeks          |
| 4        | Nozzle and vane cleaning  | 8 Weeks          |
| 5        | Flow audit (verify and/or calibrate flow system)                | 8 Weeks          |
| 6        | Clean PM10 inlet particle trap (if in use)                      | 3 Months or Less |
| 7        | Clean PM2.5 cyclone particle trap (if in use)                   | 3 Months or Less |
| 8        | Verify or set the clock.  | 6 months         |
| 9        | Mass Audit  | 6 months         |
| 10       | Background determination  | As needed        |
| 11       | Internal Nozzle Cleaning  | 6 months         |
| 12       | AT, RH, and BP Filter sensor audits                             | 6 months         |
| 13       | Replace the pump muffler  | 6 months         |
| 14       | Test analog output voltage (if used)                            | 6 months         |
| 15       | Rebuild AC pump   | 24 months        |

#### 2. Recommended Maintenance Kit:

| Item | Description            | Qty   |
|------|------------------------|-------|
| 1    | Annual Maintenance Kit | 1 set |
| 2    | Consumables            | 1 set |
| 3    | Pump Maintenance kit   | 1 set |

#### 3. Recommended Spare Parts:

| Item | Description         | Qty   |
|------|---------------------|-------|
| 1    | Sensor Board        | 1 set |
| 2    | Communication Board | 1 set |

#### Performed By:

Mario Capa  
Field Technician