### PartisolPlus 2025i Metals/Mass Sampler

**Arrival time:**
- 10:30 AM
- 12:00 PM
- 1:00 PM

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Any status flags on main screen?</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Is sampler date/time correct within 60 sec?</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Have data from last run been collected?</td>
<td>N</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>Has sampled filter magazine been collected?</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Has COC form for retrieved samples been filled out?</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Have samples been packed for shipping?</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Have samples been shipped to lab?</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Have sample data been sent to Austin staff?</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Is cassette magazine in good condition?</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Are cassettes available in feed magazine for next sample?</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Is sampler inlet and downtube clean?</td>
<td>Y</td>
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<td>Y</td>
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<td>Y</td>
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#### Comments section

- 4/10, perform QC checks.
- 4/15, changed time on carbon Part. from 14:26 to 14:28

### PartisolPlus 2025i Carbon Sampler

**Arrival time:**
- 10:30 AM
- 12:00 PM
- 1:00 PM

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#### Comments section

- 4/10, collected cassettes that ran on 4/2, 4/5, and 4/8.
- 4/15, changed time on carbon Part. from 14:26 to 14:28
- 4/15, collected cassettes that ran on 4/11 and 4/14.

### MAINTENANCE LIST FOR 2025i

- **Each Visit:** Inspect filter cassettes and magazines; discard damaged cassettes, and lubricate cassette seals as needed
- **Weekly:** Perform external leak check
- **Monthly:** Perform internal leak check
- **Biannually:** Change the large in-line filter
- **Annually:** Check and rebuild pump if needed

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**URS**

Rev 1 (1/2014)
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**Comments section**

4/10, perform QC checks.
4/10, collected cassettes that ran on 4/2, 4/5, and 4/8.
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**MAINTENANCE LIST FOR 2025i**

| Each Visit: Inspect filter cassettes and magazines; discard damaged cassettes, and lubricate cassette seals as needed |
| Weekly: Perform external leak check |
| Monthly: Perform internal leak check |
| Biannually: Change the large in-line filter |
| Annually: Check and rebuild pump if needed |
# Site ID List:

- **NT-NW** = Northwest BAM site (Meteorological monitors)
- **NT-NE** = Northeast BAM site (Partisol samplers)
- **NT-SE** = Southeast BAM site
- **NT-SW** = Southwest BAM site

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## MAINTENANCE LIST FOR METEOROLOGICAL STATION

<table>
<thead>
<tr>
<th>Each Visit</th>
<th>Monthly</th>
<th>Biannually</th>
<th>Annually</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect sensors and cables for signs of deterioration or damage and replace as needed</td>
<td>Inspect temperature aspirator and remove dust accumulation</td>
<td>Perform calibration check on sensors</td>
<td>Replace wind sensor bearings</td>
</tr>
<tr>
<td>Perform flow rate and leak check</td>
<td>Clean BAM nozzle and vane</td>
<td>Check wind sensor bearings</td>
<td></td>
</tr>
<tr>
<td>Inspect filter tape for pinholes and irregular PM deposits</td>
<td>Clean inlet hardware, capstan shaft and pinch roller</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verify BAM settings file</td>
<td>Flow system Calibration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disassemble and clean inlet</td>
<td>Test filter RH and Temperature sensors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test smart heater function</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perform zero background test</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean internal debris filter</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remove and check membrane span foil</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beta detector count rate and dark count test</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rebuild vacuum pump</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace nozzle o-ring</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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## MAINTENANCE LIST FOR BAM-1020

<table>
<thead>
<tr>
<th>Each Visit</th>
<th>Monthly</th>
<th>Biannualy</th>
<th>Annually</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect filter tape and replace when needed (~2 months/roll; run SELF-TEST function in the TAPE menu).</td>
<td>Perform flow rate and leak check</td>
<td>Disassemble and clean inlet</td>
<td></td>
</tr>
<tr>
<td>Inspect filter tape for pinholes and irregular PM deposits</td>
<td>Clean BAM nozzle and vane</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verify BAM settings file</td>
<td>Clean inlet hardware, capstan shaft and pinch roller</td>
<td></td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test filter RH and Temperature sensors</td>
<td></td>
<td></td>
<td></td>
</tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>Rebuild vacuum pump</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace nozzle o-ring</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Comments Section

- 4/4, NT-SE BAM surrounded by deep water and mud.
- 4/8, perform QC checks.
### Meteorological Station

<table>
<thead>
<tr>
<th>Arrivial time:</th>
<th>12:00 PM</th>
<th>1:00 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the temperature aspirator fan running?</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Are all signal cables secured and intact?</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Are wind vane/ anemometer cups intact and operational?</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Is datalogger date/time correct within 60 sec?</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Are conditions shown on logger consistent with ambient observations?</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

### BAM-1020 PM10 Monitors

<table>
<thead>
<tr>
<th>Arrivial time:</th>
<th>12:00 PM</th>
<th>1:00 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any status error flags showing?</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Are all monitor dates/times correct within 60 sec?</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Are all filter transport systems operational?</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Are hourly data being collected?</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Is sampler inlet and downtube clean?</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Is water collection bottle clean?</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Are O-rings in good condition?</td>
<td>Y</td>
<td>Y</td>
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### Comments section

4/8, perform QC checks.

### Site ID List:

- ST-NW = Northwest BAM site
- ST-N = North BAM site
- ST-NE = Northeast BAM site (Partisol samplers)
- ST-M = Meteorological Monitoring Site
- ST-CE = Center East BAM site
- ST-SW = Southwest BAM site

### MAINTENANCE LIST FOR METEOROLOGICAL STATION

- **Each Visit:**
  - Inspect sensors and cables for signs of deterioration or damage and replace as needed
  - Inspect temperature aspirator and remove dust accumulation
  - Perform calibration check on sensors
  - Check wind sensor bearings
- **Monthly:**
  - Perform flow rate and leak check
  - Clean BAM nozzle and vane
  - Clean inlet hardware, capstan shaft and pinch roller
  - Verify BAM settings file
  - Flow system calibration
  - Disassemble and clean inlet
  - Test filter RH and Temperature sensors
  - Test smart heater function
- **Annually:**
  - Replace wind sensor bearings

### MAINTENANCE LIST FOR BAM-1020

- **Each Visit:**
  - Inspect filter tape and replace when needed (~2 months/roll; run SELF-TEST function in the TAPE menu).
  - Inspect filter tape for pinholes and irregular PM deposits
- **Monthly:**
  - Perform flow rate and leak check
  - Clean BAM nozzle and vane
  - Clean internal debris filter
  - Remove and check membrane span foil
  - Beta detector count rate and dark count test
- **Quarterly:**
  - Test filter RH and Temperature sensors
  - Test smart heater function
- **Annually:**
  - Perform zero background test
  - Rebuild vacuum pump
  - Replace nozzle o-ring