

KCBX TERMINALS CO NORTH (NT-NE)	SITE VISIT DATE							
	3/7/2014	3/11/2014	3/17/2014	3/26/2014				
PartisolPlus 2025i Metals/Mass Sampler								
<i>Arrival time:</i>	11:00 AM	10:30 AM	11:00 AM	11:00 AM				
Any status flags on main screen?	N	N	N	N				
Is sampler date/time correct within 60 sec?	Y	N	Y	Y				
Have data from last run been collected?	Y	Y	Y	Y				
Has sampled filter magazine been collected?	Y	Y	Y	Y				
Has COC form for retrieved samples been filled out?	NA	NA	NA	NA				
Have samples been packed for shipping?	N	N	N	N				
Have samples been shipped to lab?	N	N	N	N				
Have sample data been sent to Austin staff?	N	N	N	N				
Is cassette magazine in good condition?	Y	Y	Y	Y				
Are cassettes available in feed magazine for next sample?	Y	Y	Y	Y				
Is sampler inlet and downtube clean?	Y	Y	Y	Y				
Is water collection bottle clean?	Y	Y	Y	Y				
Are O-rings in good condition?	Y	Y	Y	Y				
PartisolPlus 2025i Carbon Sampler								
<i>Arrival time:</i>	11:00 AM	10:30 AM	11:00 AM	11:00 AM				
Any status flags on main screen?	N	N	N	N				
Is sampler date/time correct within 60 sec?	Y	N	Y	Y				
Have data from last run been collected?	Y	Y	Y	Y				
Has sampled filter magazine been collected?	Y	Y	Y	Y				
Has COC form for retrieved samples been filled out?	NA	NA	NA	NA				
Have samples been packed for shipping?	N	N	N	N				
Have samples been shipped to lab?	N	N	N	N				
Have sample data been sent to Austin staff?	N	N	N	N				
Is cassette magazine in good condition?	Y	Y	Y	Y				
Are cassettes available in feed magazine for next sample?	Y	Y	Y	Y				
Is sampler inlet and downtube clean?	Y	Y	Y	Y				
Is water collection bottle clean?	Y	Y	Y	Y				
Are O-rings in good condition?	Y	Y	Y	Y				
Comments section								
3/11, changed the time on NT-metals from 09:55 to 09:57.								
3/11, changed the time on NT-carbon from 09:50 to 09:53.								

3/11, removed 3/3, 3/6, 3/9 cassettes.

3/17 removed 3/12 and 3/15 cassettes.

3/17, clean PM10 sample heads and tubes.

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

Clean PM₁₀ inlet

Biannually: Change the large in-line filter

Clean the rain hoods and air screens

Annually: Check and rebuild pump if needed

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Rev 1 (1/2014)

SITE VISIT DATE								
KCBX TERMINALS CO SOUTH (ST-NE)	3/7/2012	3/11/2014	3/17/2014	3/26/2014				
PartisolPlus 2025i Metals/Mass Sampler								
<i>Arrival time:</i>	12:00 PM	11:30 AM	12:00 PM	12:00 PM				
Any status flags on main screen?	N	N	N	N				
Is sampler date/time correct within 60 sec?	Y	N	Y	Y				
Have data from last run been collected?	Y	N	Y	Y				
Has sampled filter magazine been collected?	N	Y	Y	N				
Has COC form for retrieved samples been filled out?	NA	NA	NA	NA				
Have samples been packed for shipping?	N	N	N	N				
Have samples been shipped to lab?	N	N	N	N				
Have sample data been sent to Austin staff?	N	N	N	N				
Is cassette magazine in good condition?	Y	Y	Y	Y				
Are cassettes available in feed magazine for next sample?	Y	Y	Y	Y				
Is sampler inlet and downtube clean?	Y	Y	Y	Y				
Is water collection bottle clean?	Y	Y	Y	Y				
Are O-rings in good condition?	Y	Y	Y	Y				
PartisolPlus 2025i Carbon Sampler								
<i>Arrival time:</i>	12:00 PM	11:30 AM	12:00 PM	12:00 PM				
Any status flags on main screen?	N	N	N	N				
Is sampler date/time correct within 60 sec?	Y	N	Y	Y				
Have data from last run been collected?	Y	Y	Y	Y				
Has sampled filter magazine been collected?	N	Y	Y	N				
Has COC form for retrieved samples been filled out?	NA	NA	NA	NA				
Have samples been packed for shipping?	N	N	N	N				
Have samples been shipped to lab?	N	N	N	N				
Have sample data been sent to Austin staff?	N	N	N	N				
Is cassette magazine in good condition?	Y	Y	Y	Y				
Are cassettes available in feed magazine for next sample?	Y	Y	Y	Y				
Is sampler inlet and downtube clean?	Y	Y	Y	Y				
Is water collection bottle clean?	Y	Y	Y	Y				
Are O-rings in good condition?	Y	Y	Y	Y				
Comments section								
2/28, both samples jammed, reran on 3/1.								
3/3, both samples jammed, reran on 3/4.								
3/11, removed 3/4, 3/6, 3/9 cassettes.								
3/17 removed 3/12 and 3/15 cassettes (ST-metals for 3/15 jammed).								
3/17, clean PM10 sample heads and tubes.								
3/26, found ST-metals jammed again. Lost 3/21 and 3/24 samples. Made more adjustments to samplers per Thermo instructions.								

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
Clean PM₁₀ inlet
- Biannually:* Change the large in-line filter
Clean the rain hoods and air screens
- Annually:* Check and rebuild pump if needed

KCBX TERMINALS CO NORTH	SITE VISIT DATE							
	3/7/2014	3/11/2014	3/17/2014	3/26/2014				
Meteorological Station								
<i>Arrival time:</i>	11:00 AM	10:30 AM	11:00 AM	11:00 AM				
Is the temperature aspirator fan running?	Y	Y	Y	Y				
Are all signal cables secured and intact?	Y	Y	Y	Y				
Are wind vane/ anemometer cups intact and operational?	Y	Y	Y	Y				
Is datalogger date/time correct within 60 sec?	NA	NA	NA	NA				
Are conditions shown on logger consistent with ambient observations?	NA	NA	NA	NA				
BAM-1020 PM₁₀ Monitors								
<i>Arrival time:</i>	11:00 AM	10:30 AM	11:00 AM	11:00 AM				
Any status error flags showing?	N	N	N	N				
Are all monitor dates/times correct within 60 sec?	Y	Y	Y	Y				
Are all filter transport systems operational?	Y	Y	Y	Y				
Are hourly data being collected?	Y	Y	Y	Y				
Is sampler inlet and downtube clean?	Y	Y	Y	Y				
Is water collection bottle clean?	Y	Y	Y	Y				
Are O-rings in good condition?	Y	Y	Y	Y				
Comments section								
3/17, clean PM10 sample heads and tubes.								

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

MAINTENANCE LIST FOR METEOROLOGICAL STATION

Each Visit: Inspect sensors and cables for signs of deterioration or damage and replace as needed
Monthly: Inspect temperature aspirator and remove dust accumulation
 Inspect tower for plumb, and verify that all fasteners are intact and tight
Biannually: Perform calibration check on sensors
 Check wind sensor bearings
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 inlet hardware, capstan shaft and pinch roller
Quarterly: Verify BAM settings file
 Flow system Calibration
 Disassemble and clean inlet
Biannually: Check pump muffler and tubing and replace as needed
 Test filter RH and Temperature sensors
 Test smart heater function
Annually: Perform zero background test
 Clean internal debris filter
 Remove and check membrane span foil
 Beta detector count rate and dark count test
 Rebuild vacuum pump
 Replace nozzle o-ring



Rev 1 (1/2014)

KCBX TERMINALS CO SOUTH	SITE VISIT DATE							
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Meteorological Station								
<i>Arrival time:</i>	12:00 PM	11:30 AM	12:00 PM	12:00 PM				
Is the temperature aspirator fan running?	Y	Y	Y	Y				
Are all signal cables secured and intact?	Y	Y	Y	Y				
Are wind vane/ anemometer cups intact and operational?	Y	Y	Y	Y				
Is datalogger date/time correct within 60 sec?	NA	NA	NA	NA				
Are conditions shown on logger consistent with ambient observations?	NA	NA	NA	NA				
BAM-1020 PM₁₀ Monitors								
<i>Arrival time:</i>	12:00 PM	11:30 AM	12:00 PM	12:00 PM				
Any status error flags showing?	N	N	N	N				
Are all monitor dates/times correct within 60 sec?	Y	N	Y	Y				
Are all filter transport systems operational?	Y	Y	Y	Y				
Are hourly data being collected?	Y	Y	Y	Y				
Is sampler inlet and downtube clean?	Y	Y	Y	Y				
Is water collection bottle clean?	Y	Y	Y	Y				
Are O-rings in good condition?	Y	Y	Y	Y				
Comments section								
3/7, could not inspect ST-SW BAM due to an active train blocking the way.								
3/11, found BAM NT-SE with no power. Notified M. Estadt.								
3/17, clean PM10 sample heads and tubes.								

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
Monthly: Inspect temperature aspirator and remove dust accumulation
 Inspect tower for plumb, and verify that all fasteners are intact and tight
Biannually: Perform calibration check on sensors
 Check wind sensor bearings
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 inlet hardware, capstan shaft and pinch roller
Quarterly: Verify BAM settings file
 Flow system calibration
 Disassemble and clean inlet
Biannually: Check pump muffler and tubing and replace as needed
 Test filter RH and Temperature sensors
 Test smart heater function
Annually: Perform zero background test
 Clean internal debris filter
 Remove and check membrane span foil
 Beta detector count rate and dark count test
 Rebuild vacuum pump
 Replace nozzle o-ring