

SITE VISIT DATE								
KCBX TERMINALS CO NORTH (NT-NE)	4/4/2014	4/10/2014	4/15/2014					
<b>PartisolPlus 2025i Metals/Mass Sampler</b>								
<i>Arrival time:</i>	10:30 AM	12:00 PM	1:00 PM					
Any status flags on main screen?	N	N	N					
Is sampler date/time correct within 60 sec?	Y	Y	Y					
Have data from last run been collected?	N	N	Y					
Has sampled filter magazine been collected?	N	Y	Y					
Has COC form for retrieved samples been filled out?	NA	NA	NA					
Have samples been packed for shipping?	N	N	N					
Have samples been shipped to lab?	N	N	N					
Have sample data been sent to Austin staff?	N	N	N					
Is cassette magazine in good condition?	Y	Y	Y					
Are cassettes available in feed magazine for next sample?	Y	Y	Y					
Is sampler inlet and downtube clean?	Y	Y	Y					
Is water collection bottle clean?	Y	Y	Y					
Are O-rings in good condition?	Y	Y	Y					
<b>PartisolPlus 2025i Carbon Sampler</b>								
<i>Arrival time:</i>	10:30 AM	12:00 PM	1:00 PM					
Any status flags on main screen?	N	N	N					
Is sampler date/time correct within 60 sec?	Y	Y	N					
Have data from last run been collected?	N	N	Y					
Has sampled filter magazine been collected?	N	Y	Y					
Has COC form for retrieved samples been filled out?	NA	NA	NA					
Have samples been packed for shipping?	N	N	N					
Have samples been shipped to lab?	N	N	N					
Have sample data been sent to Austin staff?	N	N	N					
Is cassette magazine in good condition?	Y	Y	Y					
Are cassettes available in feed magazine for next sample?	Y	Y	Y					
Is sampler inlet and downtube clean?	Y	Y	Y					
Is water collection bottle clean?	Y	Y	Y					
Are O-rings in good condition?	Y	Y	Y					
<b>Comments section</b>								

4/10, perform QC checks.

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  
Clean PM<sub>10</sub> inlet
- Biannually:* Change the large in-line filter  
Clean the rain hoods and air screens
- Annually:* Check and rebuild pump if needed

		SITE VISIT DATE						
KCBX TERMINALS CO SOUTH (ST-NE)	4/4/2012	4/10/2014						
<b>PartisolPlus 2025i Metals/Mass Sampler</b>								
<i>Arrival time:</i>	12:00 PM	1:00 PM						
Any status flags on main screen?	N	N						
Is sampler date/time correct within 60 sec?	Y	Y						
Have data from last run been collected?	N	N						
Has sampled filter magazine been collected?	N	Y						
Has COC form for retrieved samples been filled out?	NA	NA						
Have samples been packed for shipping?	N	N						
Have samples been shipped to lab?	N	N						
Have sample data been sent to Austin staff?	N	N						
Is cassette magazine in good condition?	Y	Y						
Are cassettes available in feed magazine for next sample?	Y	Y						
Is sampler inlet and downtube clean?	Y	Y						
Is water collection bottle clean?	Y	Y						
Are O-rings in good condition?	Y	Y						
<b>PartisolPlus 2025i Carbon Sampler</b>								
<i>Arrival time:</i>	12:00 PM	1:00 PM						
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Is sampler date/time correct within 60 sec?	Y	Y						
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Has sampled filter magazine been collected?	N	Y						
Has COC form for retrieved samples been filled out?	NA	NA						
Have samples been packed for shipping?	N	N						
Have samples been shipped to lab?	N	N						
Have sample data been sent to Austin staff?	N	N						
Is cassette magazine in good condition?	Y	Y						
Are cassettes available in feed magazine for next sample?	Y	Y						
Is sampler inlet and downtube clean?	Y	Y						
Is water collection bottle clean?	Y	Y						
Are O-rings in good condition?	Y	Y						
<b>Comments section</b>								
4/10, perform QC checks.								
4/10, collected cassettes that ran on 4/2, 4/5, and 4/8.								
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  
Clean PM<sub>10</sub> 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						
	4/4/2014	4/10/2014	4/15/2014				
<b>Meteorological Station</b>							
<i>Arrival time:</i>	10:30 AM	12:00 PM	1:00 PM				
Is the temperature aspirator fan running?	Y	Y	Y				
Are all signal cables secured and intact?	Y	Y	Y				
Are wind vane/ anemometer cups intact and operational?	Y	Y	Y				
Is datalogger date/time correct within 60 sec?	NA	NA	NA				
Are conditions shown on logger consistent with ambient observations?	NA	NA	NA				
<b>BAM-1020 PM<sub>10</sub> Monitors</b>							
<i>Arrival time:</i>	10:30 AM	12:00 PM	1:00 PM				
Any status error flags showing?	N	N	N				
Are all monitor dates/times correct within 60 sec?	Y	Y	Y				
Are all filter transport systems operational?	Y	Y	Y				
Are hourly data being collected?	Y	Y	Y				
Is sampler inlet and downtube clean?	Y	Y	Y				
Is water collection bottle clean?	Y	Y	Y				
Are O-rings in good condition?	Y	Y	Y				
<b>Comments section</b>							
4/4, NT-SE BAM surrounded by deep water and mud.							
4/8, perform QC checks.							

**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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<i>Arrival time:</i>	12:00 PM	1:00 PM						
Is the temperature aspirator fan running?	Y	Y						
Are all signal cables secured and intact?	Y	Y						
Are wind vane/ anemometer cups intact and operational?	Y	Y						
Is datalogger date/time correct within 60 sec?	NA	NA						
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Any status error flags showing?	N	N						
Are all monitor dates/times correct within 60 sec?	Y	N						
Are all filter transport systems operational?	Y	Y						
Are hourly data being collected?	Y	Y						
Is sampler inlet and downtube clean?	Y	Y						
Is water collection bottle clean?	Y	Y						
Are O-rings in good condition?	Y	Y						
<b>Comments section</b>								
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  
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 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

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 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