

File No(s). 2008 – 071A/096A

August 5, 2008

Jolene Scott
Monitoring Systems Auditor
Northern Region

Dear Jolene,

Re: Peace Air Shed Zone Association (PASZA) Ambient Air Monitoring Station Audits

Below are a summary of the actions taken to address non-compliance items, manufacturer specifications not met and/or inspection issues found at the time of the AENV audit:

Smokey Heights

Audit failures:

- **Issue:** TEOM main flow failed.
- **Action:** Adjusted to proper flows the week following the audit.

Manufacturer specifications not met:

- **Issue:** The ambient temperature sensor is outside the +/- 1 deg tolerance used by the auditors.
- **Action:** It is not PASZA's intention to use the embedded circuit board thermistors as a quantitative tool to indicate precise internal station temperature. Rather, they are used as a qualitative indicator of station temperature stability. These thermistors are only indicative of temperature changes outside of 1 degree Celsius and are useful in examining stability of environmental control systems in the station.

Inspection items:

- **Issue:** Manifold is dirty – cleaned by contractor.
- **Action:** Addressed during the audit.
- **Issue:** Sample TEOM heads dirty.
- **Action:** The TEOM heads were cleaned the week following the audit.

Beaverlodge

Audit failures:

- **Issue:** TEOM main flow failed.
- **Action:** Adjusted to proper flows the week following the audit.

Manufacturer specifications not met:

- None at the time of the audit.

Inspection items:

- **Issue:** The site documentation is completed but was not available at the trailer.
- **Action:** Site documentation binders have been printed and will be dropped off at the station next regular visit.

- **Issue:** Sample lines are dirty.
- **Action:** Cleaned with water and blown dry after the audit.

- **Issue:** Manifold is dirty.
- **Action:** The manifold was cleaned the week following the audit.

Spirit River - Rover

Audit failures:

- **Issue:** The NO₂ failed the last GPT point as it was greater than 15% out.
- **Action:** The last point where the audit failure occurred was generated below the manufacturers specified output range; the O₃ generator is certified from 0.05 – 1.50 ppm. PASZA is unsure about how to address this issue and would like some direction on Alberta Environment's expectations regarding the auditing of this analyzer.

Manufacturer specifications not met:

- **Issue:** The station temperature sensor is outside the +/- 1 deg tolerance used by the auditors.
- **Action:** See Smokey Heights.

- **Issue:** The ambient temperature sensor is outside the +/- 1 deg tolerance used by the auditors.
- **Action:** PASZA will compare with audit standard and adjust accordingly.

Inspection items:

- **Issue:** Manifold is dirty.
- **Action:** The manifold was cleaned the week following the audit.

Henry Pirker

Audit failures:

- None at the time of the audit.

Manufacturer specifications not met:

- **Issue:** The station temperature sensor is outside the +/- 1 deg tolerance used by the auditors.
- **Action:** See Smokey Heights.

Inspection items:

- **Issue:** Sample lines dirty.
- **Action:** Sample lines will be cleaned in August.
- **Issue:** TEOM heads are dirty.
- **Action:** TEOM heads will be cleaned in August.

Evergreen

Audit failures:

- None at the time of the audit.

Manufacturer specifications not met:

- None at the time of the audit.

Inspection items:

- **Issue:** The site documentation is completed but was not available at the trailer.
- **Action:** A copy was printed and placed at the station.
- **Issue:** Manifold is dirty.
- **Action:** Addressed during the audit.
- **Issue:** Sample lines dirty
- **Action:** Sample lines will be replaced or cleaned as required.
- **Issue:** Spare manifold ports not capped.
- **Action:** Addressed during the audit.
- **Issue:** Pumps not properly exhausted from the room or scrubbed.
- **Action:** Vents will be installed during August calibrations.
- **Issue:** TEOM heads are dirty.
- **Action:** Frequency of cleaning is occurring every 2 months; this will be increased to monitor dust deposit within dichotomous head.
- **Issue:** TEOM bypass filter dirty.

- **Action:** The filter was replaced during routine maintenance.

Girouxville - PAML

Audit failures:

- None at the time of the audit.

Manufacturer specifications not met:

- None at the time of the audit.

Inspection items:

- **Issue:** Manifold dirty.
- **Action:** The manifold was cleaned the week following the audit.

- **Issue:** Sample lines dirty.
- **Action:** Sample lines will be cleaned or replaced during August maintenance.

Valleyview

Audit failures:

- None at the time of the audit

Manufacturer specifications not met:

- **Issue:** The station temperature sensor is outside the +/- 1 deg tolerance used by the auditors.
- **Action:** See Smokey Heights .

- **Issue:** The ambient temperature sensor is outside the +/- 1 deg tolerance used by the auditors.
- **Action:** PASZA will compare with audit standard and adjust accordingly.

Inspection items:

- **Issue:** Site documentation not on site.
- **Action:** Site documentation will all be in-place by August.

- **Issue:** Pumps not properly exhausted from the room or scrubbed.
- **Action:** Vents will be installed during August calibrations.

- **Issue:** Teom heads are dirty.
- **Action:** TEOM heads will be cleaned in August.

Issue: During the audit the QAP was assessed on sections 2.3 through 3.0. A few observations were noted as follows. The AGAT SOPs are listed under PASZA reference number 13.0. Contractor stated is Focus. Also as per 8.3 monitoring/procedures, the monitoring methods are not separated, they are mentioned all as one. PASZA's QAP references contractor as being responsible for monitoring methods, but nothing from the contractor is actually listed.

Action: Agreeably, this was a major oversight. These items will be addressed during the month of August and a corrected version of the QAP will be placed in the stations by September.

PASZA very much values the Alberta Environment audit process and believes that it is an important "confidence check" and communication tool for our stakeholders. It is PASZA's intention to post the audit results on our new website within the next couple of months.

I would like to invite you to attend our August 26th, 2008 meeting (9 am – noon at the Grande Prairie ERCB Office) to discuss the audit results with the Board Members.

Thanks,



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