



## **PAMZ** | Parkland Airshed Management Zone

**Minutes:** Technical Working Group Meeting  
**Date:** September 7, 2012  
**Location:** ERCB Boardroom, # 202, 4909 - 49th Street, Red Deer

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### Participants:

Shaminder Cheema - NOVA Chemicals	Jeff Cooper - Focus	DJ Cruikshank – Imperial Oil
Al Duben - ERCB	Lenin Flores - Focus	Harold Gold - Bonavista
Shane Lamden - NOVA Chemicals	Colin Long - Keyera	Dale Nylund - Altagas/Taylor
Aaron Rognvaldson - Husky	Jim Saltvold - Public	Pervez Sunderani - AESRD
Kevin Warren - Amarok	Reg Watson - Public	

### **Bolded Items are Action Items**

1. The meeting was called to order by Aaron Rognvaldson, at 0905
2. All attendees introduced themselves.
3. The agenda was reviewed and accepted with the addition of 2008-10 CWS Assessment Results under Other Business.
4. The minutes of the June 15, 2012 meeting were accepted with the removal of the sentence referring to Novus Environmental at the end of Section 8. Diagnostic Engineering Presentation.
5. The status of action items arising from the June 15, 2012 meeting was reviewed.

Kevin will follow-up with Harry, before Harry leaves AESRD, concerning N2 carrier gas conversion and replacement wind system. **IN PROGRESS** Kevin has made inquiry to Shell Morris, the interim AESRD Data, Monitoring and Validation Manager and is waiting for a response.

Kevin will distribute Passives Precision and Accuracy study and report to TWG when available. **CARRY FORWARD** Report not completed yet, now expected in October.

Kevin will use report in designing scope of work for Passive rationalization study. Draft for September meeting. **CARRY FORWARD** See above

6. PAMZ AQM Program

#### **AENV Audit Status**

Kevin submitted letter to AESRD on June 22 and second one on August 15 summarizing

actions that were taken or are planned to address the findings of the May Audits. The Red Deer Ozone was re-audited Aug 27. Currently waiting for a response to August 15 letter.

#### **Caroline**

All levels have been within historical normals since June 15, 2012 TWG Meeting  
No elevated H<sub>2</sub>S or THC readings since Plains Midstream pipeline leak near Sundre on June 7

#### **Red Deer**

Lots of elevated H<sub>2</sub>S readings (< 10 ppb) in June & July attributed to Three Mile Bend Sewage Treatment facilities. All other levels within historical normals since June 20 Board meeting

O<sub>3</sub> analyzer (new in 2011) was returned to Environment Canada, and repaired and reinstalled in early August. AESRD Audited repaired O<sub>3</sub> Analyzer on August 29, and results were within 2%

The PM<sub>2.5</sub> analyzer recorded lots of negative values through summer – FOCUS replaced drier and pump in early August and this seems to have rectified things.

#### **Martha**

The station was located at the Mirror Site from June 6 - Sept 5 and is now at Bluffton. While at Mirror there were no NO<sub>2</sub> exceedences, but strong of NO<sub>2</sub> and THC readings with westerly winds from railyard. Monitoring uncovered an issue with ambient TRS exceedences (H<sub>2</sub>S) accompanied by elevated CH<sub>4</sub> levels at night and in early morning. In total there were 73 hourly exceedences & 12 daily exceedences. The source(s) is suspected to be the hamlet's sewer system or a nearby wetland. The ERCB's Mobile monitor failed to narrow down sources. AESRD is leading the investigation but as levels have fallen back to normal baseline this may have to be deferred to 2013. AESRD may request Portable to assist in the investigation in 2013. PM<sub>2.5</sub> from forest fires July 12-14, 16 & 21 resulted in 17 exceedences of hourly guideline (80 ug/m<sup>3</sup>) and 2 exceedences of daily objective (30 ug/m<sup>3</sup>)

#### **McCoy**

The station has been at Lacombe from June 6 – present. Levels at Lacombe have been within historical normals and also some low level TRS (H<sub>2</sub>S) with no distinct wind direction correlations.

There have been problems and delays securing Red Deer Site looking at Lancaster Reservoir. Kevin is working with Red Deer environmental services on obtaining all the required permissions. The station will stay at the Lacombe site or be relocated to Ponka site until Red Deer site is ready.

#### **Kevin will report back to group on station status at next TWG meeting**

#### **Passives**

Levels and patterns are consistent with historical normals for May to July 2012. Station 20 destroyed in June so no June Samples. The passives at Mirror were left in for June & July in error.

#### **DAP Colocation Study**

After a presentation from Environmental Diagnostics in June, no proposal was received over summer and ED now indicating they do not have sufficient inventory to free up a unit in the immediate future.

**Kevin will ask Brian to follow up with Environmental Diagnostics on the status of the colocation study proposal.**

7. 2013 Monitoring Sites

Two three month slots for the McCoy station have been left open to be flexible to respond to a possible AESRD request for Mirror and more monitoring at prospective new permanent sites in Red Deer. The McCoy Station will be used to address the Ferrier Air cold weather SO<sub>2</sub> odour issue during the cold winter months of Jan, Feb & March.

	Martha	McCoy
Jan-13	Class 2 Landfill	Ferrier Acres
Feb-13	Sewage Lagoon	Ferrier Acres
Mar-13	Eagle Hill	Ferrier Acres
Apr-13	Flaring Site	TBD
May-13	Rocky Mtn House Area	TBD
Jun-13	Sylvan Lake	TBD
Jul-13	Class 2 Landfill	Crossfield-Carstairs
Aug-13	Sewage Lagoon	Crossfield-Carstairs
Sep-13	Eagle Hill	Crossfield-Carstairs
Oct-13	Flaring Site	TBD
Nov-13	Rocky Mtn House Area	TBD
Dec-13	Sylvan Lake	TBD

8. Focus Action Plan

Focus was to have prepared an action plan summarizing plans to prevent recurrence and improve operations. Kevin and Aaron met with Focus to discuss draft July 24. A final draft was due Aug 7, however Kevin has received nothing to date. Focus's manager, Jeff Cooper, indicated he had been too busy with new hires and takeover of the FAP contract and would complete it when time permits.

The TWG's response was discussed and agreed to once Focus had left meeting.

**Kevin and Aaron will meet with Chuan Kuan, Jeff Cooper's boss. Following the meeting, Focus will be given 10 more working days for a draft plan and 15 for the final. If no plan is received Kevin indicated to Focus that PAMZ will consider options up to and including 30 day contract termination notice.**

9. Other Business

2008-10 CWS Assessment Results

For the 2008-2010 CWS assessment, the Red Deer Station exceeded the CASA CWS Management Framework's management planning trigger and indications are that for the 2009-11 assessment the station will exceed the actual CWS. PAMZ anticipated this and started looking at options to relocate the Red Deer station to better reflect the city's overall air quality, rather than being, in effect an industrial fence line station. Kevin has asked AESRD to consider excluding data collected at this station since 2009 from the assessment as they had not considered the Novus Environmental Report in their assessment. The

PM2.5 numbers are expected to fall when the station is relocated but PAMZ would also continue to monitor PM at the old site to determine what the differences are.

AESRD has asked if PAMZ will take on the task of developing a management plan and if PAMZ wants ESRD to notify stakeholders that the trigger has been exceeded. There are essentially two main issues:

- With the move of the civic yards to near the current Red Deer station, PAMZ feels this station should no longer be in the PAMZ network, and the data should not be part of the assessment.
- If the data are used and a PM management plan must be prepared, it doesn't make sense to do it alone, as Edmonton and Calgary are also required to do a plan. The impact of the new air management zones that will be proposed as part of the new National AQMS are not fully understood. The biggest source of PM is motor vehicles and the three plans would have many similarities so it would be more efficient to do a joint plan.

**Kevin will ask the Board to make a decision on taking on the development of a PM2.5 management plan at its September 19 meeting. Kevin will communicate that decision to AESRD.**

#### 10. Upcoming Events

- NOVA Vehicle Emissions Testing Clinic, Sep. 12 Joffre Facility
- SPOG Neighbour's Day, Sept. 14 Sundre Culing Rink
- PAMZ Board Meeting Sep. 19, 3:00-7:00 GH Dawe Centre, Red Deer
- Alberta Airsheds Council, Sep 28, Canmore
- Synergy Alberta Conference, Oct. 28-30, Red Deer

#### 11. Next Meeting

The next TWG meeting will be held Nov. 16, 2012.

#### ADJOURNMENT

The meeting was adjourned at 12:00