



PAMZ | Parkland Airshed Management Zone

Minutes: Technical Working Group Meeting
Date: April 12, 2013
Location: ERCB Boardroom, # 202, 4909 - 49th Street, Red Deer

Participants:

Shaminder Cheema - NOVA	Jeff Cooper - Focus	John Cuttress - Focus
Lenin Flores - Focus	Brian Goliss - Shell	Warren Grimes - AESRD
Colin Long - Keyera	Dale Nylund - Altagas	Aaron Rognvaldson - Husky
Jim Saltvold - Public	Janice Steffler - Imperial Oil	Kevin Warren - Amarok
Reg Watson – Public		

Bolded Items are Action Items

1. The meeting was called to order by Aaron Rognvaldson, at 0905 hrs
2. All attendees introduced themselves.
3. The agenda was reviewed and accepted with no additions.
4. The minutes of the January 25, 2013 meeting were accepted.
5. The status of action items arising from the January 25, 2013 meeting was reviewed.

Kevin will discuss a media release concerning 2009-11 assessment results with board and communications committee at their next meetings. Done Media release issued. **DONE** The media release resulted in a newspaper article and three radio interviews (2-Red Deer, 1 Lacombe). PAMZ provided its constant contact stakeholder mailing list to ESRD for stakeholder notifications. To date and to PAMZ's knowledge stakeholders have not yet been notified by AESRD.

Kevin will distribute a copy of the Red Deer Advocate Article to TWG members via e-mail.

Focus will set up dataloggers or adjust raw data so that a Minus 1 hour offset correction is applied for the BAM 1020 PM2.5 data beginning January 1, 2013 **CARRY FORWARD**

Focus & Kevin will arrange a meeting with Matt Eisentraut and Sharon Whiteley to discuss data treatment options and will provide an update at next TWG Meeting

Kevin will apply to ESRD for use of the PAML for the last 6 months of 2013 at the Lancaster site and for the funds required to operate it. If the application is successful, at its June meeting the TWG will revisit the idea of using one of the portables for a shortened three-

month monitoring campaign in July-September **DONE** Kevin was asked by AESRD to prioritize funding requests. And put monitoring above the annual report. There were questions about our PAMZ's costing for 6 months. Kevin used Red Deer Riverside monthly rate + trucking to/from site + fees for mgmt., admin, & Assessment. \$42K + \$5K

Kevin will defer Invoicing of EPEA member facilities until after this funding issue has been discussed at next week's Board Meeting. **DONE**. Kevin invoiced all member companies including Penn West Wimborne at the end of January. AESRD's local reps were not present at the meeting therefore no update was available on AESRD follow-up action(s) with Penn West..

Kevin will report back to the TWG as more developments around the EMC become known. **DONE** On Today's Agenda

Aaron and/or Kevin will communicate the group's decision to not conducting a Passive Rationalization Study to the board at their upcoming meeting. **DONE**

6. PAMZ AQM Program

Focus Developments

Kevin met with Jeff Cooper & Jon Cuttress Tuesday April 9 for Focus's performance review. He is comfortable with improvements in operating efficiencies, adhering to SOPs and alarm protocol better field decision-making, improved communications. B+

Kevin is still waiting for amended SOPs (action arising from Audit Report). Jon has largely completed them and they are undergoing internal review. Ray Brassard was hired as an independent 3rd party and toured stations as part of internal audit program. Focus is currently reviewing and implementing his report's recommendations.

Jon to provide Kevin with copies of the site documentation for all 2012 and 2013 portable monitoring sites.

Caroline

- All levels within historical normals since Jan 25, 2013 TWG Meeting
- The HVAC Heater Failed after a series of power interruptions on Sunday night. The thermal fuse is being replaced by an Olds-based contractor.
- The BAM PM2.5 monitor is frequently pegging off scale and this trend is increasing. FOCUS is talking to factory about source life and other possible contributors. Kevin plans to use this site as the first site for a replacement SHARP monitor.

Kevin will talk to AESRD McIntyre about issues they have been having with SHARPs they recently purchased as bet warren Grimes' info.

- A new bottle of NO calibration gas recently installed at the site has improved the NO2 analyzer's NOx-NO balance
- Focus replaced the Li-Cor Solar Rad Sensor
- The station's calibrator unit is being audited by ESRD this week

Red Deer

- There have been seven 24-hour PM2.5 AAAQO exceedences since last meeting

- 267083 Feb. 6, 2013 44 µg/m³ South
- 267134 Feb. 7, 2013 34 µg/m³ South
- 267906 Mar. 8, 2013 50 µg/m³ South
- 267931 Mar. 9, 2013 36 µg/m³ South
- 268370 Mar 25, 2013 40.9 µg/m³ South
- 268433 Mar 27, 2013 41.2 µg/m³ South Southeast
- 268484 Mar 28, 2013 36.9 µg/m³ South Southeast
- Contributors to the exceedences include Inversions and fog conditions, urban emissions & open burning
- All other parameters have within historical normal ranges
- THC Baseline drops in January & February were corrected by replacement of actuator valve in early March

**Focus will install surplus wind vane & cups for checking ultrasonic measurements
Focus will conduct a Spring Cleanup at site**

Martha

- The Martha Station was located at a Devon Water Well (Ferrier Acres) at 10-22-39-8 W5 from Jan. 11- March 25, 2013
- A separate SO₂ analyzer was installed at French Residence (Satellite) at 7-22-39-8 W5 with high volume sample train in yard south of the residence
- No significant SO₂ observed at either site except for two spikes that appear to not be related to oil & gas activity
- Have observed some elevated THC, NO_x and high PM_{2.5} levels during inversions
- When SO₂ was present at Satellite also has been observed at Ferrier Acres
- Focus repaired the Teco 55 and reinstalled in mid-January

Kevin will arrange to meet with the Ferrier Acres, Marg French to discuss the monitoring results.

- A new Li-Cor Solar Rad sensor will be installed while at the new Everdell site
- The station was at ITB Coaldale March 26-April 10, 2013 for removal of old AC unit and installation of new HVAC and collapsible roof railings
- The station was installed April 10 @ Everdell Site east of Imperial east southeast of the Everdell Sweet Gas plant at 09-20-38-7W5
- The resident at the Everdell Site has a history of concerns with hydrocarbon odours and monitoring with ERCB failed to identify source(s) as apparently did not monitor THC
- This is more of a cold weather issue so the schedule has been adjusted to monitor April and December 2013.
- Next site will be in Rocky Mountain House downwind of the Sewage Lagoon

McCoy

- The station was installed at the Lancaster site Nov. 27, 2012 through March 28, 2013
- Wind direction patterns are very different at the Riverside and Lancaster sites
- Riverside monitors PM_{2.5} with TEOM FDMS while McCoy at Lancaster employs a BAM 1020
- Average PM_{2.5} levels recorded at Riverside In February are higher than those recorded at Lancaster but trend closely even with different wind directions
- Five 24-hour PM_{2.5} AAAQO exceedences since last meeting
 - 267083 Feb. 6 2013 31 µg/m³ Northwest
 - 267907 Mar. 8, 2013 31 µg/m³ Southwest

- 268370 Mar 25, 2013 30.9 µg/m3 West Southwest
- 268399 Mar 26, 2013 40.1 µg/m3 West Southwest
- 268433 Mar 27, 2013 38.4 µg/m3 West
- New ambient temperature sensor was installed while at Lancaster
- The station was installed Wednesday at Eagle Hill Site (last monitored in 2003) all levels at or near baseline
- The new Campbell Scientific Datalogger will be installed when relocated to Sylvan Lake Site beginning of May

Passives

- Levels and patterns consistent with historical normals for January-February 2012.
- 2012 levels and patterns consistent with 2011 and previous trends
- Site 8 Fallen Timber - SO2 sample damaged December (not analyzed)
- Site 6 Limestone Mtn - one set of duplicates missing January, results based on one sample
- Site 11 Twin Lakes – all samples missing February, no results

2013 Monitoring Schedule

The current monitoring schedule for the portables is:

	Martha	McCoy
Jan-13	Ferrier Acres	Lancaster Reservoir
Feb-13	Ferrier Acres	Lancaster Reservoir
Mar-13	Ferrier Acres	Lancaster Reservoir
Apr-13	Everdell	Eagle Hill
May-13	Sylvan Lake East	Rocky Mountain House North
Jun-13	Flaring Site	Class 2 Landfill
Jul-13	Red Deer Lancaster	Crossfield-Carstairs
Aug-13	Red Deer Lancaster	Crossfield-Carstairs
Sep-13	Red Deer Lancaster	Crossfield-Carstairs
Oct-13	Sylvan Lake East	Eagle Hill
Nov-13	Flaring Site	Class 2 Landfill
Dec-13	Everdell	Rocky Mountain House North

7. Alberta Environmental Monitoring Commission

Kevin ran through a presentation by the Environmental Monitoring Commission executive director, Ernie Hui given to the CASA-AAC Joint Standing Committee on March 6, 2013. The overall message was to expect change. There seems to be a lack of clarity about the role and value of airsheds, so the AAC felt it needs to ensure the message concerning the role and value airsheds provide is being heard by the right people in a timely manner. A letter is being sent from the AAC-CASA JSC outlining airsheds' roles and values and the AAC will have a follow-up meeting with Ernie in October. The new monitoring agency is focusing first on the three northern airsheds, and a new funding formula will affect airshed governance. The AAC feels airsheds need to be responsive to stakeholder needs or they will cease to exist. Airsheds are concerned that regions are getting different or little messaging from ESRD and are not hearing back about grant applications in a timely manner.

Kevin will send a copy of the PowerPoint presentation to TWG members.

8. PAMZ AQM Program Future Changes
- Recent funding shortfalls (\$38K) have resulted in actions to ensure that PAMZ does not incur deficit
 - For 2013, no funds will be transferred into Capital Expenses Reserve should have been \$60k, will leave approximately \$50K in reserve at end of 2013
 - Given age of some instrumentation and support equipment this cannot continue into 2014
 - At its March 26 meeting the PAMZ executive tasked TWG with looking at changes to monitoring program to reduce costs
 - Martha monitoring station responsive to issues of concern to zone stakeholders unique feature of PAMZ Program, the McCoy station was added after start of program and currently spends ¼ of Each year at Crossfield
 - 12 years of data, CRAZ now in existence and TAQA Crossfield monitors SO2 and H2S at two nearby locations
 - Geographic monitoring could be assigned to Martha for 2 of 6 sites per year or dropped completely
 - Technical issues could be treated as special projects with PAML & Funding applied for from ESRD
 - Station could be permanently located at 2nd Red Deer Site (Lancaster) and operating funds obtained through contract from ESRD
 - Or station could be rented out privately or to other monitoring organizations and generate revenue (\$4K per month)
 - Dropping O3 passives and reassigning McCoy Station would result in slight cost decrease (-0.4%) for large facilities in 2014

After much discussion the group agreed to the following actions.

Conditional approval on the discontinuation of O3 passive monitoring and withdrawal of the McCoy station from portable monitoring.

Kevin will have enter into discussions with ESRD about proposed changes

Final TWG Decision will be made at the June 14 Meeting

The next steps would be:

1. Board Approval at June 19 Meeting
2. Apply to ESRD to change program
3. Approval required from ESRD by end of October
4. Budget incorporating changes approved November
5. McCoy out of service Dec 31, 2013
6. Installed and Commissioned at Lancaster by Apr 1, 2014

9. Other Business

NONE

10. Upcoming Events

- CPANS Convention and AGM April 16-17 in Edmonton – Not attending or having booth as sessions moving away from air and second day fell on board meeting date.
- PAMZ board meets next Wednesday, April 17 in Red Deer at GH Dawe Centre.

- The Annual Issues Identification Meeting will be May 15 in Didsbury.
- The 2012 Action Hero Awards will be presented on Clean Air day (June 5) in Red Deer, still looking for nominations especially industries.
- PAMZ will be holding a two-day vehicle Emissions Testing Clinic June 7 & 8 in Red Deer at the Parkland Mall and volunteers are needed.
- The AGM will be held on June 19 and the location will be finalized at next week's board meeting.

11. Next Meeting

The next TWG meeting will be held Friday, June 14, 2013 at the Red Deer ERCB office. There will be no teleconferencing on this date.

12. Adjournment

The meeting was adjourned at 1200 hrs.