



Minutes: Technical Working Group Meeting
Date: June 14, 2013
Location: AER 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 - ESRD
Noor Alif - ESRD	Pervez Sunderani - ESRD	Aaron Rognvaldson - Husky
Jim Saltvold - Public	Kevin Warren - Amarok	Reg Watson – Public

Bolded Items are Action Items

1. The meeting was called to order by Aaron Rognvaldson, at 0908 hrs
2. All attendees introduced themselves.
3. The agenda was reviewed and accepted with the addition of summaries about the Didsbury Issues Identification Meeting and Vehicle Emissions testing clinic under other business.
4. The minutes of the April 12, 2013 meeting were accepted.
5. The status of action items arising from the April 12, 2013 meeting was reviewed.

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** Matt Eisentraut's schedule has prevented a meeting with him, Sharon Whiteley and Kevin to discuss data treatment options. Kevin will arrange for a meeting and will provide an update at next TWG Meeting

Jon to provide Kevin with copies of the site documentation for all 2012 and 2013 portable monitoring sites. **IN PROGRESS** Jon has completed a new template for the station documentation that requires Kevin's approval. Once he has that he will proceed to finish.

Kevin will talk to AESRD McIntyre about issues they have been having with SHARPs they recently purchased as per Warren Grimes' info. **DONE** The issue is extra caution in the installation to prevent water leakage around the roof penetration for the sample intake. PAMZ will have the station manufacturer look after the installation so that station remains under warranty.

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

Kevin will arrange to meet with the Ferrier Acres resident, Marg French to discuss the Jan-Mar 2013 monitoring results. **DONE** Kevin has arranged to meet with Marg prior to the next Board meeting and AGM in Rocky Mountain House on June 19.

Kevin will send a copy of the Environmental Monitoring Commission PowerPoint presentation to TWG members. **DONE**

Kevin will enter into discussions with AESRD about proposed changes to the PAMZ AQM Program. **CARRY FORWARD** Two scheduled meetings had to be cancelled due to schedule conflicts. Kevin will arrange to meet with Bob Myrick before September meeting.

Final TWG decision on Program changes will be made at the June 14 Meeting. **DROP** Not enough information available at time to put to Board for a decision.

6. PAMZ AQM Program

PAMZ-Focus

- Communication with Focus much improved since Jon Cuttress joined Focus.
- Field staff are still fairly green but are getting management and technical support from Jon, Lenin & others
- Have received updated site documentation template
- Received inspection reports from Jon Cuttress's March 2013 Station Inspections
- Still waiting for amended SOPs (action arising from Audit Report)
- Waiting for Ray Brassard's report from station visit
- Some server access issues (Telus) June 4-5 were resolved

Caroline

- No exceedences of any air quality objectives or guidelines since April 12 TWG Meeting
- O3 zero/span solenoid failed and was replaced April 19
- BAM PM2.5 May 15 reference membrane alarms triggering off-scale analyzer responses, may have been reason for some of previous high scaling episodes. Still some episodes but most seem to be associated with power interruptions.
- NOx Analyzer switching valve leaking May 17-24, analyzer was swapped, a new valve is on order
- 115 hrs of Solar Radiation data invalidated for May (84%) Cow chew toy

Red Deer

- No exceedences of any objectives or guidelines, including PM2.5, since the April 12 TWG Meeting
- PM2.5 down April 18-22, maintenance 18-19, filter improperly seated 19-22
- May 17 – TEOM Cooler Alarms – AESRD providing new part
- Some O3 spans out of spec in May, timing control problem with PAMZ's Omron

- THC/CH4 Analyzer pump failed June 5-6
- Environment Canada provided new TECO 5030 Sharp to replace TECO FDMS will be installed in June or July.
- FOCUS will install new analyzer and run min 9 months to compare data esp. wintertime
- National Trailer will cut new hole in roof and install roof flange

Martha

- Station was at ITB Factory March 28 - April 11 for retrofit of HVAC unit and installation of collapsible roof rails
- Everdell Site April 11- May 8
- Rocky Mountain House North May 8 - June 5
- Didsbury West June 5 – Present
- Moving to Lancaster Reservoir site first week of July for entire 3rd quarter

Everdell

- Station located at Ted Langford, a resident east of Imperial Everdell Sweet Gas plant at 09-20-38-7W5 with history of concerns about hydrocarbon odours
- Odours experienced primarily late at night or early in morning and previous monitoring by AER failed to identify source(s) as apparently did not monitor THC
- Monitoring indicates elevated levels of THC and NMHC during periods especially at night and early morning
- Recommend follow-up with AER FLIR and monitoring during Nov-Dec monitoring.

Rocky Mountain House North

- Previously monitored in Rocky Mountain House in Dec 2003-Jan 2004 (TCPL) and July-August 2008 (Hospital)
- Issue was concerns about emissions from sewage treatment ponds
- Site is located due south of RMH ponds.
- TRS levels at or near lower detectable limit in May
- One PM2.5 Exceedence 127 ug/m3 W 22 1500 May 12. Don't feel the source was the Nordegg fire based on reading's appearance and the associated wind direction

Didsbury West

- Resident came to Didsbury Issues identification meeting and has concerns with extended flaring and venting at three wells in immediate vicinity of her home
- Health concerns primarily with VOCs
- Other concerns in addition to air quality
- Operator is Angle Energy, sweet gas
- Had requested some 24 hr SS canisters from AESRD in case we see elevated NMHC, cancelled request as we are not seeing any elevated THC

McCoy

- Lancaster Reservoir site Nov. 27, 2012 through March 28, 2013
- Eagle Hill site March 28 - May 2
- Sylvan Lake East site May 2 – Present
- Was scheduled to move to Louis Lake site June 4 but resident changed his mind about having station back (last monitored July 2010)
- Moving to Lancaster Reservoir site first week of July for entire 3rd quarter pending receipt of development permit from City

Eagle Hill

- PAMZ last monitored at Fred Bay residence in July 2003
- Levels observed in April 2013 at or near background for most compounds with exception of THC & NMHC
- Recommend AER conduct a survey of surrounding facilities with FLIR
- Will return to site for 2nd month of monitoring in October

Kevin will have Sharon generate a THC windrose for concentrations greater than 2.5 ppm to help identify potential sources.

Sylvan Lake East

- New site selected because its downwind of most of Sylvan Lake assuming northwest winds are the predominant wind direction
- Sewage treatment ponds 1 km north, cattle feedlot 2 km south southeast, wetlands to immediate southeast
- No exceedences but several TRS readings late at night/early in morning in 6-8 ppb range May 6, 18 & 20 and June 3 & 7
- Near calm winds 1-3 km/hr and SE predominant direction suggest source is most likely wetlands

Passives

- Levels and patterns consistent with historical normals for March & April 2013
- 60 day Exposure for Station 6 (March & April) access road was closed because of flooding at end of March

2013 Monitoring Schedule

The current monitoring schedule for the portables is:

	Martha		McCoy
13-Jan	Ferrier Acres	13-Jan	Red Deer Lancaster Reservoir
13-Feb	Ferrier Acres	13-Feb	Red Deer Lancaster Reservoir
13-Mar	Ferrier Acres	13-Mar	Red Deer Lancaster Reservoir
13-Apr	Everdell	13-Apr	Eagle Hill
13-May	Rocky Mtn House	13-May	Sylvan Lake
13-Jun	Didsbury West	13-Jun	Sylvan Lake
13-Jul	Crossfield-Carstairs	13-Jul	Red Deer Lancaster Reservoir
13-Aug	Crossfield-Carstairs	13-Aug	Red Deer Lancaster Reservoir
13-Sep	Crossfield-Carstairs	13-Sep	Red Deer Lancaster Reservoir
13-Oct	Rocky Mtn House	13-Oct	Eagle Hill
13-Nov	Sylvan Lake	13-Nov	Everdell
13-Dec	Didsbury West	13-Dec	Everdell

7. PAMZ AQM Program Future Changes

Ozone Passive Monitoring program

- Discontinuation of the O3 passive monitoring program was discussed
- Ozone passives affected by natural background, stratospheric and anthropogenic ozone

- Areas with higher concentrations generally located in remoter areas of PAMZ and not related to human activity, populated regions show lower levels
- Air quality objectives and CWS/CAAQS are based on short term exposure to peak levels – hourly and 8-hour averages only
- Passives do not provide data for short-term exposure
- Dropping O3 passives would reduce analysis costs from \$72K to \$47k, a savings of \$25K
- No savings to changeout costs as all stations would still need to be changeout monthly and time savings per visit will be minimal

Portables Continuous Monitoring Program

- 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
- 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 AESRD
- Station could be permanently located at 2nd Red Deer Site (Lancaster) and operating funds obtained through contract from AESRD
- Or station could be rented out privately or to other monitoring organizations and generate revenue (\$4K per month)
- Continuous Monitoring Program - \$407,432 + \$27,268
- Caroline \$71,880 + \$13,865 = \$85,745
- Riverside \$85,308 + \$13,865 = \$99,173
- Caroline & Riverside Permanent Stations and considered part of Provincial AAQMS – data used for AQHI, CWS/CAAQS and SOE Reporting
- Martha \$100,740 + \$9,000 + \$13,865 = \$123,605
- McCoy \$78,444 + \$6,600 + \$13,865 = \$98,909
- Dropping O3 passives and reassigning McCoy Station would result in slight cost decrease (-0.4%) for large facilities in 2014

The group spent time discussing and assessing the risks and consequences of the proposed program cuts. At this time there is not enough information to make a final recommendation to the Board concerning the proposed changes.

Aaron and Kevin will summarize the risks and consequences discussion into a table to be presented to the board at their June 19 meeting.

The TWG will reassess the proposed program changes at its September meeting.

9. Other Business

Didsbury Public Issues Identification Meeting

The annual public meeting was held May 15 in Didsbury. The following monitoring locations were recommended for 2014, in order of the number of votes received:

- Daunheimer residence (Didsbury West) – flaring and venting 22
- Johnston residence – battery loading and unloading 17
- Highway 2 – transportation emissions 11
- Delburne site – follow up from 2010 and 2012 monitoring 10
- Kuusamo Industrial Park – industrial emissions 8
- Linden area – winter smog 7
- Louis Lake – Class 2 landfill 2

The IRG will meet in August to review complaint records and recommendations from the public meeting and propose a schedule for 2014 using a one- and a two-portable station scenario.

Vehicle Emissions Testing Clinic

The clinic was conducted June 7 & 8th at the Parkland Shopping Mall in Red Deer. Kevin reported that they tested 100 vehicles over the 2 days. He does not have the pass/ fail report yet from NOVA but believes there were only a few failures. What we have learned from this event for next year is that we:

- need a better location
- should explore doing it for only one day with shorter shifts
- may want to change the daytime hours, as many people do not come in the AM
- need to look at ways to attract media to the event

10. Upcoming Events

- The Ozone Management Committee will be meeting later this afternoon to review the progress of plan's implementation and discuss PAMZ's involvement in the ESRD's upcoming PM2.5 management plan development process..
- Next Board Meeting and 16th AGM will be Next Wednesday June 19 at the Walking Eagle Inn in Rocky Mountain House.

11. Next Meeting

The next TWG meeting will be held Friday, September 20, 2013 at the Red Deer AER office. There will be no teleconferencing on this date.

12. Adjournment

The meeting was adjourned at 1150 hrs.