



PARKLAND AIRSHED MANAGEMENT ZONE TECHNICAL WORKING GROUP (TWG)

MEETING MINUTES

Date: Friday, June 6, 2008
Time: 0905-1215
Location: AEUB, 2nd Floor, 4909 - 49 Street, Red Deer
Chair: Shane Lamden

Attendees: Mansoor Ahmad - AENV
Harold Gold - Bonavista
Marianne Keller – BSR/Public
Lonnie Melnychyn - PetroCan
Murray Philips - Trident
Kevin Warren - Amarok
Shelise Berteig - Husky
Brian Goliss - Shell
Shane Lamden - NOVA
Darren Morrisette - AGAT
Aaron Rognvaldson - Husky
Reg Watson - Public
Lloyd Cumming - Public
Warren Grimes - AENV
Jennifer Lutz - EUB
Dale Nylund -Taylor
Alan Simcoe - West Fraser

Bolded Items are Action Items

1. The meeting was called to order by the chair Shane Lamden at 0905.
2. Those present introduced themselves.
3. The agenda was reviewed and accepted. Item 6 - AQM Program RSLs-AGAT Update was moved to follow Item 8 so that discussion could be in camera after Darren Morrisette left. Discussion of the May 5-14 AENV Audit Results was added into Item 7 PAMZ AQM Program. Item 8.4 PAML 2 at Big Valley was added
4. The minutes of the March 28 meeting were accepted.
5. The status of action items arising from the March 28 meeting were reviewed.

AGAT will provide Kevin with a final Hardcopy of their QAP, their complete upgraded Standard Operating Procedures and a Table of Contents that can be included in the PAMZ QAP Appendix. **Carry Forward.** Kevin received an updated Table of Contents and SOP manual. SOP Manual is incomplete and needs more detail.

AGAT to meet with RSLs ASAP and make arrangements to transfer the historical data. **Carry Forward.** AGAT has discussed with RSLs but has not transferred data.

AGAT and Kevin will meet monthly at a minimum to discuss AGAT's progress in achieving the deliverables outlined above and the operation of the PAMZ Program. **Ongoing.** Kevin, Brian, Dale, Reg, Aaron, Shane and Wayne Boyd met with AGAT in Red Deer on April 29. Discussed further in AGAT Transition Update

Shane will table the TWG's recommendation that PAMZ accept the proposal at the April 2 Board Meeting. Implementation of the program will be pending AENV Director Approval. **Done.** The Board

accepted the TWG's recommendation.

Dorothy will provide more details on missing Sundre Forest products results at next meeting.
Carry Forward. Darren will follow-up with Dorothy

6. AQM Program and Special Programs Update

Kevin presented summaries of the operation of the PAMZ AQM network since the previous meeting. Allk the PAMZ Stations were audited by AENV May 5-7 and 14. The results were not good as there were nine failures, the worst audit performance in the history of the PAMZ Program.

6.1 Caroline

- All levels at the Caroline Station have been within historically observed ranges since last meeting except at for a 47 ppb 1-hour average (118 ppb Max) observed on May 13 and attributed to flaring at the Caroline Plant due to a process upset.
- The station was audited on May 6 by Alberta Environment. The TRS response failed low, the THC and NO/NO_x responses failed high and the total flow and leak check for the PM_{2.5} sampler failed. Concerns were expressed about safety hazard posed by broken steps. AENV has asked for the 1 and 5 minute data that was collected just prior and during the audit.

Action: AGAT is following up the audit results and will have their calibration rig checked by AENV. They are concerned that same calibrator was used at Riverside where the NO/NO_x passed and at Bighorn where the NO/NO_x failed low.

Action: Kevin will obtain the AENV PM_{2.5} Audit Protocol and Met One recommended Flow Check procedures and forward onto Darren.

Action: Kevin will investigate how FAP BAM 1020 PM_{2.5} monitor fared with its audit.

6.2 Red Deer Riverside

- All levels at the Red Deer Riverside have been within historically observed ranges since last meeting.
- The station was audited May 5 and all parameters passed with the exception of the PM_{2.5} monitor whose bypass and sample flows both failed low.
- With warmer weather the station temperature has been exceeding 25 C and the air conditioner needs to be overhauled/replaced.
- The CO monitor status on recent daily reports is flagged with a "Bad" status.

Action: Darren will follow up on air conditioner issue and CO monitor status.

6.3 Martha

- For the months of March and April the station was at the Niobe Site, north of Innisfail, collecting background data east of the site of a proposed biofuels plant. All observed levels were within historically observed ranges and NO₂ and THC levels correlate to directions associated with motor vehicle traffic.
- The station was relocated to the Bighorn Reserve in early May to monitor smoke from a proposed controlled burn in the upper North Saskatchewan River area. Wet weather has

delayed the burn and it may be postponed to the fall. The trailer will be on site through the end of June.

- Any PM data collected as a result of the burn will be part of the CASA PM_{2.5} assessment Data Set because it is not a natural forest fire.
- The station was audited on May 7. The NO/NO_x failed low and PM_{2.5} sample flow and leak test failed. The time on the BAM 1020 was offset by a half hour and the windhead was aligned to magnetic north instead of true north.

6.4 Raven

- Raven has been at the Olds College Site for the second quarter and will be moved to Rocky Mountain House for the 3rd quarter. There is a history of air quality concerns in town related to odors from sewage treatment ponds, town dump and livestock auction mart. The site is on the east side of town and is downwind from all of these sources.
- The station was down for over a week in may when a groundskeeper cut the power to the station and there was an extended delay in getting the line repaired.
- The station was audited on May 14. The TRS analyzer failed as it took too long to stabilize and the PM_{2.5} sample flow failed low and failed the leak test.
- The THC Monitor failed on June 1 and has been removed for repairs. AGAT is looking for a replacement rental unit.

6.5 Passives

- The passive network displayed normal patterns for the first quarter of 2008 with the highest SO₂ levels observed in NE portion of the zone.

7. Special Projects

7.1 Ram River AQM Program

- The Tay River Program is now a part of the Husky RAM River Stack Top Temperature Reduction program and is a part of Husky's amended approval. The passive program switched to Husky at the end of March and the Swan lake Trailer will be switched at end of June.
- Two additional passive stations (11 & 12) have been added to fill in a geographic gap the east and east-southeast of the plant.
- There are ongoing communication issues at the Swan lake Trailer and Kevin has not been able to access data from the station for some time. AGAT has been to station twice in recent weeks and found that HVAC had shutdown and believes this is the source of the problem.
- Kevin has not received any Swan Lake AQM reports since November 2007 from AGAT.

Action: Darren will arrange for a visit to site to restore communications and Aaron will see that Husky Operators visit the station regularly to ensure HVAC is running. Darren will coordinate AGAT's station visits with Aaron.

Action: Darren will follow-up and see that Kevin gets the Swan Lake AQM Reports.

7.2 Sundre Forest Products PM Sampling

- This program was originally intended to be a one-year program with a review of data at the end of the year to determine if the program could be terminated (i.e. no ambient PM issue).
- A number of samples were not collected during the months of Feb, March and April and it now appears that the Program will have to run through the end of June at a minimum. (see earlier action item re: Darren follow up on missing results).

7.4 Mercury Deposition Sampling Program

- Samples collected since late January were not being shipped to laboratory in Winnipeg by AGAT. GSC did not realize until recently as they were not notified by lab that they had received no samples. Darren has been in contact with Hamed and made shipping arrangements to get program back on track. The backlogged samples have been submitted, though there will be some missing results as there are only three sets of samples and AGAT had all of them in their possession.

7.5 PAML 2

- AENV approved use of PAML 2 with funding for Monitoring near Stettler for four months (July-Oct). PAMZ will have to cover the costs of the one month of monitoring at Big Valley in June.
- CCS talked to Penngrowth and Bearspaw about sharing the total monitoring and reporting cost for the Big Valley monitoring (approx 13K) between them. They declined and CCS has agreed to foot the costs of the installation themselves. They were also extremely helpful in groundtruthing the site.
- The station was installed this week and the installation costs were much higher than normal because of power issues (needed a very long cable) and the need for a gravel pad and rig mats as site is quite low-lying and wet.
- There was some confusion on the installation of the station as AENV had not paid tow truck driver who brought station on site. (CCS paid)
- Kevin is hoping to have an open house for school students next week and is waiting to hear back from local school principal.

8. AQM Program AGAT Transition Update

- Contractor performance review sub-group met with AGAT on April 29 to review their performance, and from that meeting AGAT submitted a corrective action plan on April 30.
- Using the action plan and issues raised at the April 29 meeting the subgroup developed a performance indicator list to assess AGAT's performance
- Sub-group held a teleconference on June 5 to review AGAT's performance since April 29 meeting and decide upon next steps.
 - Serious concerns that AGAT was not meeting its own deadlines, plus regulatory reporting deadlines and deadlines for other action items identified by sub-group
 - Concerns with poor audit results, excessive equipment downtime and delays in

- recognizing and reporting non-compliances
- Recently received invoice from City of Red Deer for two false alarms that AGAT failed to investigate
- AGAT's April 29 Action plan indicated there would be a follow-up report on May 30 but none has been received
- PAMZ has to April 25 to submit a letter detailing follow-up actions taken to resolve issues identified in the Audit report

Action: Shane Lamden will send letter to Mike Hartwick detailing PAMZ's assessment of AGAT's performance since April 29 Meeting and concern over the poor performance with a warning that PAMZ is investigating options to ensure the operation and maintenance of its AQM Program are improved.

- The subgroup will meet at end of month to discuss AGAT's response to the letter and performance and actions since June 5 meeting and make a recommendation as to the appropriate course of action up to and including termination.

9. Ozone Management Plan

- The ozone management committee is still waiting for a revision of the current state assessment from Kevin McCullum who has left Focus and is now with AMEC. The original provided limited episode analysis with a focus on the actual calculations used in the assessment and correlations where done using a data mining technique.
- Report needs to do a better job linking monitoring results with ozone episodes that triggered the need to do a management plan.
- Environment Canada Modeling results are available but without monitoring that supports modeling conclusions it will be hard to approach sectors about taking action to reduce emissions.
- There is a need for more work:
 - Analysis of highest episodes
 - Add Caroline data to the assessment
 - More back-trajectory analysis to determine where air parcels originate
- To make the November deadline, a report must be done by the end of summer. Development of a plan will be difficult until this info is in hand and November deadline may have to be revisited by AENV

10. Annual Report

The report is behind schedule and has not been completed but should be ready in time for the Annual General Meeting; the original target date was 3 weeks prior to the AGM.

11. Other Business

There was no other business.

12. Upcoming Events

- The Red Deer River Cleanup is being held on Sunday, June 8.
- Shell Caroline is holding an Open House at their Caroline Plant on Wednesday, June 11.
- The PAMZ Executive is meeting with the Calgary Region Airshed Zone (CRAZ) on June 13 in Olds to areas of mutual interest including boundaries.
- The CASA Board is meeting June 14 in Edmonton. The Alberta Airsheds Council will be making a presentation requesting membership on the CASA board.
- The next PAMZ Board and 11th Annual General Meeting is Thursday, June 19 at the Hainstock Community Hall west of Olds.
- SPOG is holding their annual neighbour's day on September 12 at the Arena in Olds.

13. Next Meeting

The next meeting will be **Friday, Sept 26, 2008** from 0900-1200 hrs. at the EUB Boardroom, Red Deer.

14. Adjournment

The meeting was adjourned at 12:15

DRAFT