

# Final Minutes

## *PM and Ozone Implementation Team Meeting #6*

Date: Thursday, October 4, 2007

Time: 9:30 am – 3:30 pm

Place: CASA Offices, Edmonton



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### In attendance:

Name	Organization
Alan Brownlee	City of Edmonton
Claude Chamberland	Canadian Petroleum Products Institute (CPPI) and CAPP
Andrew Clayton*	Alberta Environment
Long Fu*	Alberta Environment
Myles Kitagawa	Toxics Watch Society
Martha Kostuch <sup>1</sup>	Prairie Acid Rain Coalition
Rachel Mintz	Environment Canada
Bob Myrick	Alberta Environment
Ian Peace	Residents for Accountability in Power Industry Development
Rob Shymanski <sup>2</sup>	City of Calgary
Dave Slubik	EPCOR
John Squarek	CAPP
Dennis Stefani	Calgary Health Region
Karina Thomas <sup>3</sup>	AB Health & Wellness
Darcy Walberg	Agrium
Kevin Warren	Parkland Airshed Management Zone
Brian Free	CASA
Jennifer Allan	CASA

### Regrets:

Name	Organization
David Day	City of Calgary
Shane Lamden	NOVA Chemicals
Keith Murray	AFPA
Stan Nowakowski	City of Calgary
Mike Pawlicki	Lafarge Canada

\*Corresponding member

<sup>1</sup> Absent for latter part of morning

<sup>2</sup> for Stan Nowakowski

<sup>3</sup> Absent for late morning/early afternoon

### Action Items:

Task	Who	When
4.3: Bettina will forward AENV inter-comparison information provided at the last OSC meeting to Rachel.	Brian Free	ASAP
5.3 AENV to follow up on this 2-page progress report on Continuous Improvement & Keeping Clean Areas Clean.	Bob Myrick	October
5.8 Brian Free will distribute a copy of Andrew's PowerPoint presentation to the Team.	Brian Free	ASAP
5.9 Andrew Clayton will check the 2004 ozone data for the Caroline station.	Andrew Clayton	ASAP
5.10 Crystal Parrell will consider how best to revise the	Bob Myrick	ASAP

Task	Who	When
assessment reports to make them more reader-friendly to non-technical stakeholders.		
6.1 Rachel Mintz will provide a web link to the Guidance Document	Rachel Mintz	As soon as available
6.2 Dennis Stefani will find the proper contact person for the David Thompson Regional Health Authority and provide it to Kevin Warren.	Dennis Stefani	ASAP
6.3 Karina Thomas will provide Martha Kostuch with a potential speaker about ozone health effects for a November-20 PAMZ meeting.	Karina Thomas	ASAP
6.4 Bob Myrick will determine if there was an enforcement action related to the high Millennium station PM readings.	Bob Myrick	By next meeting
6.5 Martha Kostuch will write a letter to Environment Canada, asking about the availability of the underlying data.	Martha Kostuch	By next meeting
6.6 Rachel Mintz will find out more about consultation regarding the smog science report and provide details..	Rachel Mintz	ASAP
6.7 Myles Kitagawa will follow the progress of the Task Force on Hemispheric Transport of Air Pollutants and provide an update to the team.	Myles Kitagawa	By next meeting
6.8 The three co-chairs will rate the implementation of the 2003 recommendations.	Ian Peace, Bob Myrick, Claude Chamberland,	End of November
6.9 The draft Guidance Document will be placed on the AENV website with a link from CASA's website.	Bob Myrick	As soon as available
6.10 Brian Free will advise the CASA Secretariat that CASA may be asked to fulfill the administrative role of "banker" for the PM & Ozone Management Plan projects.	Brian Free	ASAP
6.11 The Project Manager will include the review of the Guidance Document on the agenda for the Team's next meeting in April.	Project Manager	March 2008
6.12 The co-chairs will prepare a Team status report for the December '07 CASA Board meeting.	Ian Peace, Bob Myrick, Claude Chamberland	November 7
6.13 The Project Manager will poll the team for an April meeting date.	Project Manager	February 2008

Ian Peace convened the meeting at 9:35 am.

## 1 Administration

- a) Introductions.** Those present introduced themselves. Some changes in membership were noted;
- Karina Thomas (formerly Karina Bodo) is replacing Debra Hopkins for Alberta Health & Wellness.
  - Dennis Stefani is replacing Lisa Strosher for the Calgary Health Region
  - Shane Lamden is replacing Scott Sangster for NOVA
  - Krista Phillips from Cdn Assoc. of Petroleum Producers (CAPP) will be joining as a corresponding member.
  - Crystal Parrell, corresponding member from AENV, is on maternity leave.

Karina, Dennis, Shane and Krista were welcomed and thanks were extended to Debra, Lisa, Scott and Crystal.

b) **Approve agenda and meeting objectives.** The chair reviewed the agenda and meeting objectives.

Additions:

- Martha Kostuch advised that she would have to leave part way through the morning to attend a brief meeting. She asked that the results of the 2004-06 assessments and federal update be moved up in the agenda, so she could hear these items.
- The re-ordered morning agenda was then Items 1, 5, 6, 2, 3.
- With this change, the agenda was approved.

c) **Review and approve Minutes from Meeting #5.** Minutes were approved as distributed.

d) **Review action items from Meeting #5**

2.1 Bob Myrick, Markus Kellerhals to provide the updated GDAD to the PM and O<sub>3</sub> working group members. **Done.** Rachel Mintz reported that the Guidance Document will be going up on Env. Canada's website. She offered to provide the link.

**Action Item: Rachel Mintz will provide a web link to the Guidance Document**

3.2: Bob Myrick will clarify who is the implementer for the third report in recommendation G 10 1. **Remove.** This item is covered by Task 5.3 .

4.2 Rachel will provide more information on the inter-comparison study as it becomes available and will check whether the full report can be shared when it's done. **Done.**

4.3: Bettina will forward AENV inter-comparison information provided at the Oct 2006 Operation Steering Committee meeting to Rachel. **Carry forward.**

4.8: Affected airshed zones will write a letter to the Deputy Minister of AENV, indicating that they will need help to develop management plans and that AENV should ensure it allocates adequate resources to support the affected zones. **Done.**

4.18: Long Fu will distribute the reassessment report on the hourly PM<sub>2.5</sub> objective to the team. **Done.**

5.1 Brian Free is to see that a link to the 2001-03 assessment results is provided on the CASA website. **Done.** Brian has submitted the request.

5.2 Crystal Parrell will arrange for a time and place in late February for a half-day workshop about the assessment analysis for Project Team members. Brian Free will email an invitation to Team members. **Done.** Insufficient interest for a workshop, but AENV will provide a demonstration to interested team members.

5.3 AENV to follow up on this 2-page progress report on Continuous Improvement & Keeping Clean Areas Clean. **Carry forward.**

5.4 Crystal Parrell will provide Brian Free with the link to the five-year progress report (2005) for the Canada-Wide Standard. Brian will forward it to the Team. **Done.**

5.5 Crystal will provide Lisa and Kevin with two lists: the list of the communities in the Calgary CMA that received the Notice, and a corrected list with communities in the PAM Zone removed. **Done.**

5.6 Bob Myrick will prepare a draft letter of support for the proposed program described by John Taggart. Brian Free will arrange a conference call among the Team's three co-chairs to discuss the letter. Myles Kitagawa will brief the ngo co-chair, Ian Peace, on this matter. **Done.** Letter was sent. Myles signed for Ian.

5.7 Brian Free will add an agenda item for an update about this AENV Project Charter to the Team's next meeting agenda. **Done.**

5.8 Brian Free will distribute a copy of Andrew's PowerPoint presentation to the Team. **Carry forward.** Brian will send copies along with Andrew's presentation from this meeting.

5.9 Andrew Clayton will check the 2004 ozone data for the Caroline station. **Carry forward.**

5.10 Crystal Parrell will consider how best to revise the assessment reports to make them more reader-friendly to non-technical stakeholders. **Carry forward.** Bob will follow-up on this.

5.11 Bob Myrick will re-evaluate the communications plan related to the upcoming report releases, taking the points raised by the Project Team into consideration. **Done.** Bob explained that stakeholders need to understand that once a Management Plan requirement is triggered, subsequent assessments showing improvement do not remove the requirement. Bob distributed a revised description of the “Communications Process for Subsequent Assessment Years”. Claude Chamberland commented that this may be an issue to consider when the Framework and Guidance Documents are reviewed.

5.12 At the Team’s next meeting, Rachel Mintz will provide an update on this research project on inter-hemispheric movement of pollutants. **Done.** Upcoming agenda item.

5.13 Lisa Strosher will advise Kevin Warren as to who is the air quality “point person” for the David Thompson Regional Health Authority. **Carry forward as Task 6.3 (DStefani).** Martha Kostuch explained that PAMZ is seeking a speaker about health effects of ozone at a November 20 meeting. Dennis offered to provide the David Thompson RHA contact. Karina Thomas offered to track down a potential speaker.

**Action Item: Dennis Stefani will find the proper contact person for the David Thompson Regional Health Authority and provide it to Kevin Warren.**

**Action Item: Karina Thomas will provide Martha Kostuch with a potential speaker about ozone health effects.**

5.14 As soon as it is available, Rachel Mintz will make a draft available to Team members of the updated ChemInfo Report. **Done.**

5.15 Brian Free will add the Project Team’s workplan to the agenda for the next team meeting. **Done.**

5.16 Brian Free will poll the team for a meeting date in October. **Done.**

## 2 Results of the 2004-06 PM and Ozone Assessments

Andrew Clayton (AENV) gave an informative presentation, showing the results of the PM and ozone assessments up to the year 2006. He showed graphs for the “before” analysis, and then “after” the background and trans-boundary contributions were removed. The team engaged in a lively discussion about the results.

### Discussion highlights

- Apparent decrease in ozone levels since the high readings in 2002.
- Some new stations have been added for the more recent assessments. Some stations dropped out and later went back up.
- For PM there appears to be a decreasing trend. Note that 2003 forest fires contributed to high PM levels that year.
- Some increase in PM in the Wood Buffalo region. After analysis; Millennium station remains above the management plan trigger.

**Action Item: Bob Myrick will find out if there was any enforcement action related to the high Millennium station PM readings.**

- Andrew clarified that the “after” analysis, i.e. the one with the background/transboundary contributions removed, is the analysis used to compare with the framework’s trigger levels.
- Andrew explained how the data from stations within a census management area (CMA) were averaged. It was noted that this may result in high readings being “averaged down”. This contrasts

with nearby stations adjacent to the CMA which are not averaged down. This could be an issue for the Framework review.

- Discussion about the differences between Calgary and Edmonton, including topography, placement of stations, predominance of new vehicles. Tomahawk and Genesee stations tend to keep Edmonton above the Management Plan trigger for ozone.
- Discussed the interpretation of trends from this data. With significant overlap in the data used for these assessments, it is inappropriate to draw conclusions about actual trends in the ambient levels. Other data should be used for trend analysis.
- Clarity is required on the mechanism for an air shed to move down the framework ladder, for instance from the management zone into surveillance (DStefani)

### 3 Update on federal initiatives.

Rachel Mintz provided a detailed update for several federal initiatives;

#### **Clean Air Regulatory Agenda (CARA)**

- The CARA framework was introduced last April. It addresses the challenge faced by industry of differing regulatory regimes across the country and uneven efforts to reduce air emissions.
- It includes targets for reducing greenhouse gases and other air pollutants, trading & offsets, credit for early action and a technology fund.
- Environment Canada has held discussions with nine industrial sectors; oil & gas, electricity, pulp & paper, cement & lime, mining, chemicals, base metal smelting, aluminum, and iron & steel. Also consulted the Provinces and ENGOs.
- The Section 71 request requires industrial sectors captured under CARA to report 2006 emissions data by next spring. These data will be used to validate “business-as-usual” projections.

#### For GHGs

- For existing facilities, all sectors will reduce emissions intensity by 18% from 2006 levels by 2010, with a 26% reduction by 2015, and a 33% reduction by 2020.
- New facilities get a 3-year grace period. Targets will be set based on the 3<sup>rd</sup>-year's performance, with expectation that emissions intensities will go down by 2% per year thereafter.
- Compliance options; in-house reductions, contributions to a technology fund, emissions trading.
- Starting to draft regulations in December, 2007.

#### For other air pollutants

- The consultation period has been extended to next spring.
- Targets will be for the 2012-2015 period.

#### **ChemInfo Emissions Inventory**

- Final report has Criteria Air Contaminant (CAC) emissions projections to 2020. Projections are presented on the basis of census divisions for the 2015 projections. The underlying data has been kept confidential in order to maintain a good relationship between the consultant and the companies providing the data. Several team members questioned the need for confidentiality and Martha Kostuch kindly offered to FOIPP the information.

**Action Item: Martha Kostuch will write a letter to Environment Canada, asking about the availability of the underlying data.**

#### **Environment Canada's Ozone Modelling report**

- The Ozone Modelling report is using the ChemInfo data to forecast different scenarios. It examines sectoral contributions in a future scenario. It uses an atmospheric chemistry model, CMAQ, to model conditions during the Alberta summer.
- Eight model simulations; base case, future case (2012-2015), five emissions control scenarios removing emissions from different economic sectors, and removal of transboundary contributions.

- The ozone modelling report is in its final review and should be released soon.

### **Smog Science Report**

- Terms of Reference and timelines sent out to CASA members.
- The assessment is at a national level – Alberta will only be uniquely identified in the regional chapter, possibly in the emissions chapter.
- AENV (Lawrence Cheng) will be reviewing the regional chapter.
- This science assessment will be a high level synthesis and won't provide detail for specific locations.

#### For the Prairies

- Meteorology driving poor air quality (winter inversions, occasional recirculation/stagnation events)
- Comparison of rural and urban sites
- Issues of interest or unique to our region – high emissions, wildfires, spring max for average ozone.
- There will be a summary of the stratospheric ozone work and a lot of the information used to discuss issues will probably come from Prairie 2005 (EC air quality field study in summer 2005).
- Claude Chamberland observed that the original intention was to have stakeholder input into this report, but this does not seem to be the case.

**Action Item: Rachel Mintz will find out more about consultation regarding the smog science report and provide details.**

### **Task Force on Hemispheric Transport of Air Pollutants**

- Environment Canada is involved with this group.
- The webpage for more information is [www.htap.org](http://www.htap.org)
- The Task Force on HTAP is to investigate the contributions of both O<sub>3</sub> and PM to local levels from other continents.
- A workshop is to be held in Germany next month and a final report is targeted for 2009.
- Myles Kitagawa asked whether the Task Force will make specific recommendations. He agreed to follow up on this.

**Action Item: Myles Kitagawa will follow the progress of the Task Force on Hemispheric Transport of Air Pollutants and provide an update to the team.**

### **CCME and Air Management Committee (AMC)**

- Meeting held June 2007.
- AMC undertook a workshop to determine its role in the federal framework. Randy Angle (AENV) attended.
- AMC to be an information-sharing medium between the federal framework and the provinces. Determine early action alignment, address setting principles/ criteria around equivalency agreements, trading and allocation.

### **PM Annex to the Canada-US Air Quality Accord**

- Could tie Canada to the U.S. visibility requirements.
- Negotiations are planned for November-December.
- Martha Kostuch drew a map that resembled Canada. She showed a delineation of a narrow band along the border where emissions will be considered under the accord. For Alberta, however, the band extends up to include the oil sands area and encompasses almost the entire province.
- An increase of 2 micrograms/m<sup>3</sup> will be considered “significant”.

## 4 Actions to Date under the Framework

Claude led a review of the recommendations that were evaluated at the last meeting and were considered not yet implemented.

- For the Management Framework, Tasks 4, 5 and 7 regarding PM and ozone assessments have been completed up to the 2004-06 period.
- Recommendations 1c and 8 regarding the proposed review of the Management Framework and Guidance Document – no new information.
- Recommendation 2 regarding simplified mechanisms to identify episodes caused by natural phenomena, and Recommendation 5 regarding the JAICCommittee's consideration of inter-hemispheric movement of pollution – These are considered completed.
- Recommendation 7 re monitoring is still being considered by CASA's Ambient Monitoring Strategic Planning Team.
- Recommendation 10d and 10e regarding Science & Analysis are still underway.
- Recommendations G10.1 and G10.2 regarding other reporting required in the Guidance Document are still underway.

See **Appendix 1** in these Minutes for more details.

## 5. CASA Performance Measure #3 – rating the implementation of past recommendations.

- Bob Myrick explained that a CASA performance measure involved rating the recommendations made four years prior. For 2007, this includes the 2003 recommendations in the report of the PM and Ozone Team.
- Only substantive recommendations are included – Those that affect air quality or air quality management. Administrative and operational recommendations are not rated.
- Implementation is rated on a scale of 0 to 10. For low-rated recommendations, some additional information is required.
- Discussed the approach that this team would prefer. Agreed that the co-chairs would do a first cut and then distribute to the team for further consideration.

**Action Item: The three co-chairs, Bob, Claude and Ian, will rate the implementation of the 2003 recommendations.**

## 6. AENV's Project Charter to support PM and ozone management plans

- Bob Myrick described three streams identified in the Project Charter;
  1. Development of a guidance document
  2. A best practices manual will be prepared by Marbeck and AMEC. It will include 130 policy tools and is due by the end of October.
  3. An emissions inventory. A consultant will do a business area analyses by the end of November.

**Action Item: Bob will see that the draft Guidance Document is placed on the AENV website with a link from CASA's website.**

## 7. Progress with PM and ozone management plans

- A workshop for the affected areas was held yesterday. Another workshop will be held in about 3 months from now.
- There is some concern with the 2-year deadline for completion of these management plans. Yesterday's workshop and draft guidelines were the first serious step towards plan preparation. And we are already half-way through that 2-year period.

- Discussed whether the deadline should be extended. Martha feels that the Calgary Regional Airshed Zone might balk at this deadline. Myles pointed out that the Management Plan might not have to be very detailed or refined in order to meet this requirement, so this deadline may be achievable.
- Some stakeholders viewed this planning exercise as an “order” from AENV. Bob Myrick emphasized that this will be a very cooperative effort with all stakeholders, including AENV, working together.
- Discussed what the PM and Ozone Implementation Team can do to help the process. One suggestion was to hold a forum for airsheds to discuss budgets. The Team could comment on the draft template.
- Based on the project charter (Item 6 above) and actions to date, it appears that AENV is bringing a lot to the table and is serious about supporting this process.

Budgets for the Management Plans (Discussed later in the meeting.)

- The participating airsheds in the Edmonton CMA planning exercise are preparing an RFP to develop a budget for the management plan. This draft budget will be shared with PAMZ and other airsheds. The idea is to assemble one pot of money to fund all of the management plans.
- Discussed the need for an airshed or other organization to serve as the banker for this money. The Team decided that CASA would be an appropriate banker. The Team agreed to ask CASA to consider this role of banker favourably, if asked to do so by the airsheds.

**Action Item: Brian will advise the CASA Secretariat that CASA may be asked to fulfill the administrative role of “banker” for the PM & Ozone Management Plan projects.**

## 8. Team’s 2008 work plan

- A draft work plan was distributed. Two main goals for the team are to support the development of management plans triggered by the framework and to review the framework and guidance document.
- Regarding the review of the framework, it had been assumed that by now we would have more experience with the management plans, but we are not yet at that point.
- Martha Kostuch suggested that the review be linked with the review of the Canada-wide standards in 2010.

The Team agreed that the review of the framework and guidance documents should be deferred until 2009. Therefore, there will not be a workshop in 2008. We should budget for three meetings in 2008. The next meeting shall be in six months, at which the AENV Guidance Document will be reviewed.

**Action Item: The Project Manager will include the review of the Guidance Document on the agenda for the Team’s next meeting in April.**

## 9. Team’s Status Report for the December Board meeting.

- Last year’s report to the Board was distributed in advance of this meeting. The co-chairs agreed to update the report and Claude Chamberland offered to give the presentation at the December 6 Board meeting.

**Action Item: The co-chairs, Ian Peace, Bob Myrick, and Claude Chamberland, will prepare a Team status report for the December ’07 CASA Board meeting.**

## 10. CASA Update

- Brian Free gave an update on CASA activities
  - Still waiting for the announcement of new Executive Director.
  - Brian introduced Jennifer Allan to the Team. Jennifer has joined CASA as a new Project Manager.



- A CASA stakeholder survey has been sent out and Brian encouraged all members to complete the survey before the October 9 deadline. Fabulous prizes are being offered.
- Next Board Meeting in Edmonton on December 6

#### Other Teams

*Clean Air Strategy* team is just underway.

*Electricity Framework 5-year Review* - Will want to know how well the PM and Ozone Management Framework is working for that sector.

*Vehicle Emissions Team* – Has conducted the ROVER project, in which actual vehicle emissions were measured. As well, CASA stakeholder organizations are expected to prepare Transportation Demand Management (TDM) reports to describe steps being taken to reduce environmental impacts associated with employee/member transportation. Myles Kitagawa reported that only nine stakeholders have submitted their reports.

*Confined Feeding Operations Team* – Particulate matter is one of their priority substances. They are considering various management mechanisms. They are having a workshop later this month to start drafting recommendations.

*Ambient Monitoring Strategic Planning Team* – They have a PM and ozone monitoring sub-program in their draft strategic plan.

## 11. Next Meeting

**Action Item: The Project Manager will poll the team for a meeting date in April.**

The meeting adjourned at 3:00 pm.

# Appendix 1. Status of Recommendations in the PM & Ozone Management Framework that have not yet been fully implemented

Updated at Meeting #6, Oct. 4, 2007  
PM & Ozone Implementation Team

<b>1.</b>	<b>Management Framework Recommendations</b>
	<b>Actions under the framework</b>
<b>Status</b>	<p><b>TASK 4</b> Alberta Environment to back out background, natural and trans-boundary PM<sub>2.5</sub> and O<sub>3</sub> for episodes that exceeded the trigger levels.</p> <ul style="list-style-type: none"> <li>Assess days/episodes with ambient concentrations of PM<sub>2.5</sub> and O<sub>3</sub> that were higher than the Canada-Wide Standards (CWS) exceedance levels. Complete for the 2001-2003 assessment.</li> <li>Apply simplified procedures to assess days/episodes with ambient concentrations of PM<sub>2.5</sub> and O<sub>3</sub> that were higher than the CASA planning and surveillance triggers. Complete for the 2001-2003 assessment.</li> </ul> <p><u>February 2007 Update:</u> THIS TASK HAS BEEN COMPLETED FOR THE 2002-2004 ASSESSMENT AND IS STILL UNDERWAY FOR THE 2003-2005 ASSESSMENT.</p> <p><u>Oct 2007 Update:</u> Completed up to and including the 2004-06 assessment</p>
<b>Status</b>	<p><b>TASK 5</b> Alberta Environment to assign action levels to PM<sub>2.5</sub> and O<sub>3</sub> episodes.</p> <ul style="list-style-type: none"> <li>Repeat analysis of ambient PM<sub>2.5</sub> and O<sub>3</sub> ambient data after the episodes caused by background, natural and trans-boundary influences have been removed. Complete for 2001-2003 assessment.</li> </ul> <p><u>February 2007 Update:</u> THIS TASK HAS BEEN COMPLETED FOR THE 2002-2004 ASSESSMENT, AND WILL LIKELY BE COMPLETED FOR THE 2003-05 ASSESSMENT BY THE END OF MARCH.</p> <p><u>Oct 2007 Update:</u> Completed up to and including the 2004-06 assessment</p>
<b>Status</b>	<p><b>TASK 7</b> Alberta Environment to produce an annual PM<sub>2.5</sub> and O<sub>3</sub> assessment report.</p> <p><u>February 2007 Update:</u> THIS TASK HAS BEEN COMPLETED FOR THE 2001-2003 ASSESSMENT AND SHOULD BE COMPLETED FOR THE 2002-2004 REPORT BY THE END OF FEBRUARY.</p> <p><u>Oct 2007 Update:</u> Completed for 2001 to 2006.</p>
<b>1.c.</b>	<b>Management Framework Review</b>
	<p>It is recommended that the PM &amp; Ozone Management Framework, including the process for annual analysis of ambient data, simplified mechanisms, and trigger levels, be reviewed by Alberta Environment after three years of practical application and implementation experience, and in conjunction with or immediately following the review of the Canada Wide Standard in 2006. This review should involve interested stakeholders and members of the public</p>
<b>Status</b>	<p><u>February 2007 Update:</u> THE REVIEW HAS NOT YET BEEN INITIATED. AENV WILL LIKELY PLACE PRIORITY ON THE DEVELOPMENT OF THE MANAGEMENT PLANS FOR AFFECTED AREAS, RATHER THAN ON THIS REVIEW. IN THE MEAN TIME, AENV HAS BEEN KEEPING A RECORD OF TECHNICAL ISSUES THAT SHOULD BE CONSIDERED IN THE REVIEW.</p> <p>ONE OPTION FOR THE REVIEW WOULD BE TO FOLLOW THE SAME PROCESS USED FOR THE RECENTLY COMPLETED REVIEW OF THE FRAMEWORK FOR ACID DEPOSITION.</p> <p><u>Oct 2007 Update:</u> No new information.</p>

2.	<p><b>Simplified Mechanisms</b></p> <p>It is recommended that Alberta Environment lead work on testing simplified mechanisms for determining when episodes are caused by transboundary transport, high background concentrations or natural events, especially for application at trigger levels below the numeric CWS, including simplified methodologies for performing the “Best Efforts Determination” outlined in the <i>Guidance Document for Achievement Determination</i>. This work should involve Environment Canada and interested stakeholders, and should be completed by the end of 2004.</p>
<b>Status</b>	<p><i>Alberta Environment has developed a simplified mechanism to be applied primarily to episodes that exceed the surveillance or planning triggers and are below the CWS exceedance trigger. Some of these simplified procedures will include: (1) grouping days with PM<sub>2.5</sub> or O<sub>3</sub> levels higher than the surveillance/planning triggers into common time periods to account for episodes that last more than one day; (2) grouping areas with PM<sub>2.5</sub> or O<sub>3</sub> levels higher than the surveillance/planning triggers into areas that are impacted by the same PM<sub>2.5</sub> (e.g. forest fires) or O<sub>3</sub> (high background) mechanisms; and (3) real-time analysis of PM<sub>2.5</sub> and O<sub>3</sub> data as events occur. The simplified mechanism was documented and circulated for comment to the former PM/O<sub>3</sub> working group members. Further discussion on the simplified mechanism is required.</i></p> <p><i>The procedure was presented to a small group of stakeholders and AENV explained the criteria used to back out episodes. The follow-up was that AENV would go through some episodes to show how they actually applied the simplified mechanisms. AENV is also looking at their flowchart and building in all the things the department actually does so everybody knows the scientific thinking behind each decision.</i></p> <p><u>February 2007 Update:</u> A MEETING HAS BEEN HELD WITH ENVIRONMENT CANADA AND A WORKSHOP WITH INTERESTED STAKEHOLDERS IS BEING PLANNED FOR FEBRUARY OR MARCH 2007 (SEE ACTION ITEM 5.2).</p> <p><u>Oct 2007 Update:</u> The workshop was not held, but consider this item completed. These simplified mechanisms could be included in the upcoming Framework Review.</p>
5.	<p><b>Background PM or Ozone Originating Outside of North America</b></p> <p>It is recommended that the Joint Action Implementation Coordinating Committee (JAICC) be asked to examine and identify further actions that should be taken to assess the nature of ozone originating from outside North America as well as any actions that should be pursued at an international level.</p>
<b>Status</b>	<p><i>JAICC no longer exists. Environment Canada and Alberta Environment were asked to bring this action forward to the AMC.</i></p> <p><i>Observations of trans-Pacific transport of pollutants started appearing in the scientific literature some years ago. In 1998 a major event occurred, where a significant quantity of Asian dust, originating from desert areas of western China, was lofted high into the atmosphere, transported across the Pacific and mixed down to the surface in western North America. This event caused high levels of PM<sub>10</sub> and PM<sub>2.5</sub> at many sites from California to BC, and was even observed at sites east of the Continental Divide, such as Esther, AB and sites in Montana.</i></p> <p><i>This event provided an impetus for increased study of the issue and, since that time, there have been a significant number of studies published demonstrating trans-Pacific transport of dust, forest fire smoke, and industrial pollution including mercury, ozone, particulate matter, and nitrogen oxides.</i></p> <p><i>To investigate this transport, there have been several airborne observational studies, as well as the establishment of several high elevation monitoring sites in western North America. University of Washington operates a site on the Olympic Peninsula of Washington State and another site in the Cascade Mountains of Oregon. Environment Canada operates a monitoring site on top of Whistler Mountain.</i></p>

	<p><i>Collectively these studies demonstrate that with appropriate atmospheric conditions significant quantities of pollutants can be transported across the Pacific quite rapidly, in the order of 5-6 days. Most of the transport seems to happen in the mid troposphere. How often these pollutants are mixed to the ground in significant quantities and how great the contribution of that long-range transport is to average and peak levels is still an area of active research.</i></p> <p><i>For a FAQ on the subject there is a good website, belonging to one of the leading groups researching trans-Pacific transport, (<a href="http://faculty.washington.edu/djaffe/FAQs.htm">http://faculty.washington.edu/djaffe/FAQs.htm</a>). This site also has links to many peer reviewed papers on the subject.</i></p> <p><u>February 2007 Update</u>: CLAUDE CHAMBERLAND REPORTED LATER IN THE XX MEETING THAT TRANS-PACIFIC MOVEMENT OF POLLUTANTS IS NOT ON THE CURRENT WORKPLAN OF THE CCME'S AIR MANAGEMENT COMMITTEE.</p> <p><u>Oct 2007 Update</u>: This is still not on the Air Management Committee's agenda. However, there is a Task Force on Inter-hemispheric .. Consider this implemented.</p>
7.	<p><b>Monitoring</b></p> <p>The CASA PM &amp; Ozone Project Team recommends to the Operations Steering Committee that the monitoring system for Alberta be reviewed and evaluated to determine whether changes are required to meet the needs of the proposed PM &amp; Ozone Management Framework for Alberta.</p>
<b>Status</b>	<p><i>In response to concerns raised regarding the collection of particulate matter and ozone ambient air quality data, the CASA Operations Steering Committee put forward a statement of opportunity for the formation of an Ambient Monitoring Strategic Planning Project Team with the task of reviewing and updating the 1995 Strategic Plan for the monitoring of Alberta's ambient air. The project team has started their work and has defined the PM&amp;O3 Framework as a priority. The results from the 2001-2003 PM and O<sub>3</sub> assessment will be provided as information to the team for consideration of improvements to the strategic plan. The CASA team will consider improved strategic monitoring in areas that exceeded the CWS exceedance trigger. The CASA team will also evaluate monitoring for PM and O<sub>3</sub> in areas of the province that exceeded planning and surveillance triggers.</i></p> <p><i>A CASA project team is looking at an ambient monitoring strategic plan (AMSP) for Alberta and the team is aware of the outcome of the PM and O<sub>3</sub> assessment. CASA frameworks are important considerations in the AMSP update, but the locations for monitoring have not yet been discussed. The PM and O<sub>3</sub> assessments will be one criterion for deciding where monitoring will be done.</i></p> <p><i>The AMSP Team expects to have a draft plan by December, 2006 and may hold another workshop for further stakeholder review.</i></p> <p><u>February 2007 Update</u>: The AMSP project team continues to work on a draft strategy.</p> <p><u>Oct 2007 Update</u>: The draft strategy is still underway.</p>
8.	<p><b>Alberta Guidance Document</b></p> <p>c) Future Reviews</p> <p>It is recommended that the <i>Guidance Document for the Management of Fine Particulates and Ozone in Alberta</i> be reviewed and updated in conjunction with the review of the PM &amp; Ozone Management Framework in 2006/07. Alberta Environment shall coordinate the review and involve interested stakeholders.</p>
<b>Status</b>	<p><i>Alberta Environment will coordinate a review of the guidance document in 2006/07 in conjunction with the review of the framework.</i></p> <p><u>February 2007 Update</u>: THE REVIEWS OF THE MANAGEMENT FRAMEWORK AND GUIDANCE</p>

	<p>DOCUMENT HAVE NOT YET BEEN INITIATED.</p> <p><u>Oct 2007 Update:</u> The review will likely occur in 2009.</p>
<b>10</b>	<b>Science and Analysis Recommendations</b>
<b>10.d.</b>	<p>It is recommended that the Operations Steering Committee be asked to investigate the usefulness of and the need for ambient PAN (peroxyacetyl nitrate) and additional ambient VOC monitoring in Alberta as part of its review of the ambient monitoring network.</p>
<b>Status</b>	<p><i>The CASA Ambient Monitoring Strategic Planning Team is considering additional monitoring for chemicals that are precursors and components of photochemical smog such as PAN and VOCs. The team is considering that emphasis for additional monitoring of these chemicals could be placed on areas of the province with PM<sub>2.5</sub> or O<sub>3</sub> levels that were higher than the CWS exceedance trigger based on the 2001-2003 assessment. This will involve consideration of additional monitoring upwind and downwind of exceedance areas during photochemical smog events. Results from this type of monitoring would assist in future annual PM and O<sub>3</sub> assessments while also providing information that can be used to identify sources and to take the appropriate actions in exceedances areas.</i></p> <p><u>February 2007 Update:</u> THE OPERATIONS STEERING COMMITTEE IS PROVIDING INPUT TO THE STRATEGIC PLANNING TEAM REGARDING THE NEED TO MONITOR THESE CONTAMINANTS.</p> <p><u>Oct 2007 Update:</u> This issue is included in the draft Ambient Monitoring Strategic Plan.</p>
<b>10.e.</b>	<p>It is recommended that Alberta Environment take the lead in conducting scenario analyses for the provincial and regional Criteria Air Contaminants (CAC) emission forecasts. These analyses could include, among other factors: the potential impact of new performance standards for the electric power sector, the pace and magnitude of oil sands development projects, the potential effects of additional bitumen upgraders, the potential effects of climate change policy initiatives affecting greenhouse gas (GHG) and CAC emissions, the potential effect of new standards for on- and off-road vehicles, and changes to economic projections. A report on this work to be delivered to the CASA Board in 2005.</p>
<b>Status</b>	<p><i>NOT COMPLETE: This work is currently not on the workplan. The question was raised whether AENV should be the main implementer for this action as most of the work is done by the Environment Canada's Pollution Data branch. This work needs to be completed for the areas that need to develop management plans. AENV is not resourced to do this work. It was suggested that AENV needs to allocate resources to deal with these issues as it affects the management plan development. The forecast is produced by Pollution Data branch and is broken down by province and sector.</i></p> <p><i>Environment Canada and the provinces working together on the Emissions Projection Working Group (EPWG) have produced an emissions forecast based on the 2000 national inventory.</i></p> <p><i>Environment Canada has done some work. The 2002 CAC inventory is out, and they are working on the 2003 inventory. Better emissions data are needed and it may be desirable to do another inventory similar to that done by ChemInfo.</i></p> <p><u>February 2007 Update:</u> ENVIRONMENT CANADA IS UNDERTAKING AN UPDATE TO THE CHEMINFO PROJECT, AND EXPECTS TO COMPLETE IT BY END OF MARCH.</p> <p><u>Oct 2007 Update:</u> The ChemInfo report is completed.</p>
	<b>Other Reporting Requirements (From: Guidance Document for the Management of Fine PM and O3 in Alberta (2003))</b>
<b>G 10.1</b>	<p>Provide a 1-2 page written report to CASA, airshed zones on the PM<sub>2.5</sub> and O<sub>3</sub> analysis annually.</p> <p>Provide a non-technical version of this document for the public.</p>

	Provide a separate 1-2 page written report on activities and programs that relate to CI and KCAC. These activities and programs may include, but are not limited to modeling, monitoring network expansion analyses, pollution prevention activities, emission minimization, emission reduction, new guidelines, codes of practice and research.
<b>Status</b>	<p><b>NOT COMPLETE:</b>  <i>A draft report for the 2002-2004 assessment was provided. The report needs to be finalized. Not completed were the public report, and update on Continuous Improvement and Keeping Clean Areas Clean.</i>  <i>Not completed are any of the reports for the 2002-2004 assessments.</i></p> <p><i>Three reports are needed as per the action.</i>  <i>A short draft went to the CASA board in 2005; it will be updated and finalized in the next couple of months and released through AENV's process by the end of the summer.</i></p> <p><i>The implementer for the third report on Continuous Improvement &amp; Keeping Clean Areas Clean is not clear and this report has not been addressed at all.</i></p> <p><b>Action Item 5.3 AENV to follow up on this 2-page progress report on Continuous Improvement &amp; Keeping Clean Areas Clean.</b></p> <p><u>Oct 2007 Update:</u> Expected by this Team's next meeting.</p>
<b>G 10.2</b>	Provide an annual report on Achievement of the CWS by each jurisdiction in a standardized "report card" format. The format to be developed and agreed to by all jurisdictions, and provided to Ministers and the public by 30 September of each year, beginning in 2011.
<b>Status</b>	<p><b>NOT COMPLETE</b>  <i>The format will be part of the 06 Canada-Wide Standards comprehensive report. The CWS report is a CCME requirement.</i></p> <p><u>February 2007 Update:</u> No new info.</p> <p><u>Oct 2007 Update:</u> No new information.</p>