

# Final Minutes



## Ambient Monitoring Strategic Planning Team Meeting #27

**Date:** Monday July 23, 2007

**Time:** 9:30 – 3:00

**Place:** CASA office, Edmonton

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### In attendance:

Name	Organization
Bob Myrick	Alberta Environment
Brian Wiens (morning only)	Environment Canada
Brian Free	CASA
Ian Peace	RAPID
Kevin Warren	Parkland Airshed Management Zone
Kim Sanderson (morning only)	CASA
Merry Turtiak	Alberta Health and Wellness
Mike Pawlicki	Lafarge Canada Inc.
Roxanne Pettipas	ConocoPhillips Canada / Canadian Assoc. of Petroleum Producers

### Regrets:

Name	Organization
Chris Severson-Baker	Pembina Institute
David McCoy	Husky Oil / Canadian Association of Petroleum Producers
David Spink	Prairie Acid Rain Coalition
Findlay MacDermid	RAPID
James Vaughan	Alberta Energy and Utilities Board
Keith Murray	Alberta Forest Products Association
Bettina Mueller	Alberta Environment
Ken Omotani	TransAlta Utilities

### Action Items:

Task	Who	When
9.2: Load team information to the CASA website and provide the working group with access information.	Brian Free	ASAP
18.8: Compile a short document that cross-references workshop questions to sections of the report where these questions are addressed, or to other documents as appropriate.	Brian Free	By next meeting
26.4: Bettina will advise Kim Sanderson on how to ensure consistency in how the objectives are presented throughout the Team's reports.	Bettina Mueller	By next meeting
26.5: Bettina will provide Kim with some suggested wording for Section 3.3.2. on funding the new system.	Bettina Mueller	By next meeting
26.6: Bettina will email Neil Cape to clarify his understanding of the "strategic" components he will be addressing.	Bettina Mueller	By next meeting
26.8: Workshop Committee will meet and discuss initial	Roxanne, Ian,	By next

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Task	Who	When
planning and give update to team	Brian	meeting
26.10: Circulate the hybrid model to the OSC for their consideration.	Brian Free	July 30
27.1: Provide text about Data Quality Objectives for the Implementation Plan.	Brian Wiens	By next meeting
27.2: Provide revised text about population-based monitoring for the Implementation Plan.	Bob Myrick	By next meeting
27.3 Prepare a table of emissions sources and associated parameters that should be monitored.	Ian Peace	By next meeting
27.4 Prepare a description of monitoring station types and the parameters monitored.	Bob Myrick	By next meeting
27.5 Update the Work Plan schedule	Brian Free	By next meeting
27.6: Poll the team members for a meeting date during the last two weeks of August.	Brian Free	July 30

Bob Myrick convened the meeting at 9:45am.

## 1 Administration

### a) Introductions

### b) Approve agenda and meeting purpose.

- The agenda and meeting purpose were reviewed.
- Changes to agenda:
  - Added new item #2. Data Quality Objectives – Brian Wiens
  - Switched the order of next two items to:
    3. Monitoring Locations
    4. What should be monitored?
- With those changes, the agenda was approved.

### c) Approve minutes from Meeting 26 – June 12.

- The Minutes were reviewed. A duplication in numbering of Task 26.10 was noted and will be corrected. With that correction, these Minutes were approved.

### d) Review Action Items from the June 12 meeting.

Task	Who	Status
9.2: Load team information to the CASA website and provide the working group with access information. <ul style="list-style-type: none"> <li>• Brian to establish this site by next meeting.</li> </ul>	Brian Free	Carry forward.
18.8: Compile a short document that cross-references workshop questions to sections of the report where these questions are addressed, or to other documents as appropriate. <ul style="list-style-type: none"> <li>• Brian to complete by next meeting.</li> </ul>	Brian Free	Carry forward.

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Task	Who	Status
24.1: Circulate AENV's document on siting criteria to the team. • Re-assigned to Bettina.	Bettina Mueller	Done.
25.11: Brian Wiens will draft text on Data Quality Objectives for discussion at the next meeting.	Brian Wiens	Done.
26.1: Update the Team's work plan with major milestones and circulate to the Team.	Brian Free	Done.
26.2: Follow-up with industry reps to emphasize importance of support for group meetings	Roxanne Pettipas	Done.
26.3: Ian Peace will provide Kim Sanderson with a sentence or three to include in the Framework Introduction to explain the need and importance of ambient air monitoring.	Ian Peace	Done.
26.4: Bettina will advise Kim Sanderson on how to ensure consistency in how the objectives are presented throughout the Team's reports.	Bettina Mueller	Carry forward.
26.5: Bettina will provide Kim with some suggested wording for Section 3.3.2. on funding the new system.	Bettina Mueller	Carry forward.
26.6: Bettina will email Neil Cape to clarify his understanding of the "strategic" components he will be addressing.	Bettina Mueller	Carry forward.
26.7: Bettina will provide wording for an additional task to be added to Neil Cape's terms of reference. To be forwarded to Bob Myrick and Brian Wiens.	Bettina Mueller	Done.
26.8: Workshop Committee will meet and discuss initial planning and give update to team	Roxanne, Ian, Brian	Carry forward.
26.9: Brian will research the format and list of invitees of last year's workshop as a starting point for workshop development.	Brian Free	Done.
26.10: Brian Free will circulate the hybrid model to the OSC for their consideration.	Brian Free	Carry forward.
26.11: Ian Peace will organize the 11 objectives under his suggested categories for the Team's consideration.	Ian Peace	Done.
26.12: Bob Myrick will provide a draft map of the new and improved monitoring network for the Team's consideration.	Bob Myrick	Done.
26.13: Bob Myrick offered to send Brian Wiens a short powerpoint that Brian might adapt for the Coordination Workshop.	Bob Myrick	Done.

## 2 Data Quality Objectives

- Prior to this meeting, Brian Wiens emailed a 1994 US-EPA report on data quality objectives to the team. He had included his own 3-page summary.

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- Brian gave an overview of the seven steps described in the EPA report. His assessment of our work to date indicates that we have covered most of these steps reasonably well. However, we may need to tune up our Step 6 regarding tolerable limits on decision errors.
- Brian agreed to write some text for Section 4 of the Implementation Plan (re Data Quality Objectives) to better reflect these seven steps. He will do this with fairly general statements.
- Our report will reference the US EPA report, rather than include it as an appendix.
- It was also suggested that we make specific reference to Alberta's Air Monitoring Directive, which provides direction on data quality. This document is currently being updated by AENV - Bettina Mueller.

**Action Item 27.1: Brian Wiens will provide text about Data Quality Objectives for the Implementation Plan.**

### 3 Monitoring Locations

- Bob Myrick used a PowerPoint presentation to show the current monitoring network and additional stations that relate to our evolving Implementation Plan. It included four maps: 1. Current Monitoring, 2. Population-based and PM/Ozone, 3. Ecological and Acid Deposition, and 4. Trans-boundary, Background & Spatial Grid.
- There are about 100 monitoring stations in the current monitoring network, including airshed stations, compliance monitoring by industry, and stations operated by the Alberta and federal governments.
- Eleven monitoring objectives are used to guide the network. (see Section 3 of Implementation Plan)
- Discussed the population-based monitoring. It identifies communities according to three sizes; >20,000, >10,000, and >5,000. One suggested approach has been to aim for 5 stations in the large cities – one in each quadrant and one central station.
- Not all communities need to monitor the “full suite” of parameters. For example, smaller communities (<10,000) may not need to monitor CO or VOCs.
- Our team decided not to prescribe the specific number of stations and parameters. Airsheds are in a better position to determine exact number and location of community monitoring stations. Our strategic plan will provide guidance to the monitoring implementers, e.g. What factors should be considered? What are some principles to follow?
- An issue about municipal funding of monitoring was raised. What happens if a municipality decides to drop its financial support because of political considerations? Although we support continued involvement, we cannot dictate whether municipalities contribute. Alberta Environment bears ultimate responsibility to ensure that adequate monitoring is undertaken.
- Discussed how to address “hot spot” monitoring, such as high traffic areas. Merry cautioned that care is needed to avoid unnecessary public concern. High ambient levels in these areas do not reflect personal exposure. May need a different term than “hot spot”.
- Bob will revise Section 3.2 of the Implementation plan, based on our discussion of population-based monitoring.

**Action Item 27.2: Bob Myrick will provide revised text about population-based monitoring for the Implementation Plan.**

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## Lunch

Brian Wiens and Kim Sanderson left the meeting.

### 3 Monitoring Locations (continued)

- Moved on to discuss the PM/Ozone monitoring. In our report, we will describe monitoring for ozone pre-cursors, ozone and ozone products.
- Bob then presented a map featuring stations for ecological and acid deposition monitoring. The density of monitoring is higher in areas of higher emissions or sensitivity. Neil Cape's work should provide useful input. May add dry deposition, in addition to existing wet deposition.
- One approach has been to aim for two stations in each of the six eco-regions. Our team prefers a more scientifically justified approach. Some regions may need more; some may need fewer.
- Reviewed the map showing trans-boundary stations and a spatial grid. Need to clearly explain what are the criteria for "background" and "trans-boundary" stations.
- Overall, the team agreed to include existing monitoring stations on a map in the Implementation Plan, but not proposed ones. Putting proposed stations on the map gives the impression that they already have some level of approval. These proposed stations will be listed as suggestions in a separate table.

### 4 What Should Be Monitored?

- Agreed that a table of major emission sources should be prepared, listing the parameters that are relevant to each one. Several references were suggested that provide similar lists; page 7 in the 2006 PAMZ annual report, a recent ChemInfo report, and the final report of the Acidifying Emissions Management Implementation Team.
- The team brainstormed the main emission source categories and produced the following list;

Cement & Lime	Transportation
Concrete	Heavy oil
Chemicals	Fertilizers
Mining	Solid Waste
Petroleum Refining	Commercial and Residential Heating
Pulp & Paper	Agriculture – livestock
Upstream Oil & Gas	Agriculture – crops
Electricity	Other industrial

- Ian agreed to refine this list and add the appropriate parameters for use in our report. Roxanne offered to assist.

**Action Item 27.3: Ian Peace will provide a table of emissions sources and associated parameters that should be monitored.**

- Bob offered to produce a list of monitoring station types and what is monitored.

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**Action Item 27.4: Bob Myrick will provide a description of monitoring station types and the parameters monitored.**

### **5 How much will this monitoring cost?**

- The time to end the meeting was approaching. Agreed to defer this discussion until a future meeting.

### **6 Who will pay for this monitoring?**

- Agreed to defer this discussion until a future meeting.

### **7 Review Work Plan**

- Reviewed the June 27 version of the Team's work plan.
- The timing of Neil Cape's project is somewhat uncertain. Environment Canada cannot sign with Neil because of certain clauses regarding intellectual property rights. Bob Myrick has flagged this question with AENV's legal and financial people for their opinions. If AENV is willing/able to sign, Bob will pursue having AENV cover the entire contract. If not, an RFP will be issued, seeking outside expertise, but likely from within North America.
- If all goes well, we will expect Cape's draft report by the end of September. This pushes back Meeting #29 to early October and the stakeholder workshop until late November. Brian agreed to revise the work plan's timelines to reflect this.

**Action Item 27.5: Brian Free will provide an updated Work Plan schedule at the Team's next meeting.**

### **8 Next Meeting**

- The meeting currently proposed for August 9 is no longer feasible. Brian will poll the team for a Calgary meeting date during the last two weeks of August.

**Action Item 27.6: Brian Free will poll the team members for a meeting date during the last two weeks of August.**

The meeting adjourned at 3:00 pm.