

**Issues/Outcomes/Minutes of the Studies Group Meeting
January 31, 2008**

Meeting of Studies Group on February 7 is CANCELLED. Next meeting is February 14

Chemicals Used

Reviewed the paper from The Endocrine Disruption Exchange (TEDX) with author via conference call.

Need to understand historic use of other chemicals as may influence current impacts. This information will be difficult to obtain given turnover in the industry.

Particulates down to 2.5 will be modeled by CDPHE for its air studies.

TEDX database on chemicals used not comprehensive.

Proprietary information regarding chemicals used being addressed by Other Regulations group but industry thinks issue can be overcome.

Industry agreed to prepare the presentations for February 14 meeting on the following topics: Oil and Gas Drilling and Production 101; and, Use of Chemicals on Drilling and Production Sites

As to drilling and production it was pointed out that the Garfield County website and an Encana video both have good information on this topic.

As to the use of chemicals on site, there is interest in how and where they are used, what volumes are used, and technical data on the chemicals used. It was agreed that the most comprehensive review would be provided such that not only chemicals used down hole would be addressed. That is, chemicals used on the surface for maintenance also must be understood such that an evaluation of which chemicals to assess in the future could be made.

A presentation by OGCC staff was also requested at the next meeting on the topic of how chemicals used down hole are collected and disposed. OGCC staff agreed to provide such a presentation on the 14th.

Literature Review Outline

CDPHE presented a revised Literature Review based on discussion at last meeting.

Discussed the interest in having impacts on animals addressed and whether state veterinarian should be consulted.

Agreed to add to outline need to distinguish peer-reviewed literature from anecdotal.

Final outline to be posted on group web site.

Rocky Mountain Clean Air Action proposal

Discussed key conditions that need to be met to ensure accurate and high quality environmental data including transparency, standardization, quality assurance/quality control and field checks.

There is a presumption that data that obtained through governmental permit processes is accurate and of high quality.

CDPHE does rely on raw data.

Integration with Federal and Other Efforts

Significant opportunities for efficiency with air modeling and in other areas

Consider cooperating agency MOU's and existing coordination mechanisms to increase efficiency

Air Quality Impact Analysis

Review outline of proposed modeling tasks proposed by CDPHE at least meeting.

How to deal with assumptions used in modeling to predict future growth of industry, for example? Modelers currently rely on a dynamic process that is continually updated to help make modeling more accurate.

Need significant resources for sufficient monitoring.

Ammonia modeling should be included.

Can information be gathered from or be analogous to federal studies on non-criteria pollutants?

Agreement that review of Air Quality Impact Analysis outline was complete.

Group may want to wrap up meetings with discussion of future health studies to consider.

Preliminary Agenda for February 14

Industry Presentation on Oil and Gas Drilling 101

Q & A

Industry Presentation on Oil and Gas Production 101

Q & A

Industry Presentation on Use of Chemicals on Drilling and Production Sites

Q & A.

OGCC Staff Presentation on Collection and Disposal of Down Hole Chemicals.

Q & A

Wrap Up, Next Steps and Preliminary Agenda for Next Meeting