



Parlier Technical Advisory Group Meeting Minutes – May 2, 2007

In Attendance:

Randy Segawa – Department of Pesticide Regulation, Environmental Monitoring
Jay Schreider – Department of Pesticide Regulation, Medical Toxicology
Pat Matteson – Department of Pesticide Regulation, Pest Management
Ian Reeve – Department of Pesticide Regulation, Worker Health and Safety
Pam Wofford – Department of Pesticide Regulation
Lynn Baker – Air Resources Board
Helene Margolis – Department of Health Services
Bob Schlag – Office of Environmental Health Hazard Assessment
John Faust – Office Environmental Health Hazards Assessment
Gary Van Sickle – California Tree Fruit Agreement
Dave Luscher – California Department of Food and Agriculture
Lori Berger – California Minor Crops Council
Kent Pinkerton – UC Davis Center for Health and Environment
Evan Shipp – San Joaquin Valley Air Pollution Control District
Lauren Dawson – San Joaquin Valley Air Pollution Control District

Absent:

Tim Tyner – UC San Francisco VAPHER
David Grantz – UC Kearney
Karen Francone – Fresno County Agricultural Commissioner's Office

UC Davis pilot project:

Dr. Kent Pinkerton gave a presentation on the preliminary results from his Parlier pilot study on airborne particles entitled "Possible Impacts on the Lungs and Brain." The study monitored rats that were exposed to concentrated ambient air at the Kearney Agriculture station during two weeks in June and November last year. There was much discussion over possible environmental contributors to the results.

Evaluating cumulative exposure:

The plan for evaluating exposure was discussed. The Department of Pesticide Regulation (DPR) will request the Parlier City well water monitoring results for 2006 to add into the cumulative risk assessment.

Jay Schreider stated that the cumulative risk analysis would be conducted without adding the Food Quality Protection Act extra factor of ten times. He said the safety factor is not appropriate for cumulative risks when looking at chemicals actions. The drivers of the analysis will be diazinon and chlorpyrifos. The subchronic time period will be an eight-week average.

John Faust will assist with the inventory on nonpesticides if his workload allows it. The Office of Environmental Health Hazard Assessment (OEHHA) may have other personnel who can assist.



Lynn Baker will work with OEHHA to look at the metals that were monitored. As far as the cumulative risk is concerned, Lynn said that OEHHA would need to handle that. Jay will come up with the grouping for the pesticide analysis, but will need assistance with the overall grouping (ex. respiratory irritants).

Other Pesticides and nonagricultural use:

In the report DPR will present the use data of all other pesticides used in the Parlier area that were not sampled during the study. DPR will also look into getting sales data, if possible, to address home use of the monitored chemicals. Jay reminded the group that both diazinon and chlorpyrifos are no longer sold off the shelf so it will not make a difference in the analysis of their use.

Inert Ingredients:

It was suggested that DPR look at inerts as potential volatile organic compound (VOC) exposure. Jay said we could start by looking at the diazinon and chlorpyrifos products to see if there are any inerts of concern. Every product may have a different set inerts in the formulation. It was suggested that if a VOC was detected that is also an inert in products we should include in report as a possible source of VOC or rule them out as a source. It was cautioned that we would not be able to make a solid prediction on health effects.

Modeling Analysis:

Randy Segawa noted that DPR would attempt to do regional modeling to look at the use and concentrations detected. Evan Shipp said that the San Joaquin Valley Air Pollution Control District has done some with ozone so they may be able to provide assistance. The group suggested that DPR use AERMOD to model the chemical movement. The San Joaquin Valley Air Pollution Control District has weather data sets for the district to use in the AERMOD model but the 2006 may not be available and would have to be developed. Randy said that DPR is also looking at the CALPUFF model.

Other issues:

The Air Resources Board will supply a final report of their monitoring in Parlier, which will include the quality assurance/quality control data for their sampling.

Pat Matteson described the pest management assessment that she is doing for the pilot project. She is looking at practices and alternative methods and gaps in information that DPR can fill in. She asked about the priority of the pesticides and it was determined that the organophosphates and fumigants should have the highest priorities. There was some discussion on sulfur and if it should have a higher priority in the pest management assessment. It was not considered a high priority.

Kent mentioned that the University of California, Davis might want to get involved in outreach of the project. They have a community liaison project that shares science with communities. They would like to share their data with the Local Advisory Group.

Next meeting:

It was mentioned that the next Local Advisory Group meeting in Parlier is scheduled in October to discuss the Pest Management study.