

IRRIGATION TRAINING & RESEARCH CENTER

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TECHNICAL MEMORANDUM

Date: June 13, 2014

To: Darrin Polhemus. State Water Resources Control Board

From: Dr. Stuart W. Styles, ITRC Director

Sarah Crable, ITRC Engineer

Expert Panel Meeting Minutes – May 9, 2014 **Subject:**

State Water Resources Control Board Nitrate Expert Panel

Expert Panel Chair, Dr. Charles Burt called the meeting of the Expert Panel to order at approximately 8:30 a.m. on Friday, May 9, 2014 in Sacramento.

2. Introduction – Expert Panel Members

Dr. Lowell Zelinski

Daniel Munk

Dr. Charles Burt

James duBois

Mark McKean

Robert Hutmacher

Bill Brush

Till Angermann

- 3. Expert Panel Charge....... Dr. Charles Burt, Panel Chair
- 4. Invited Speaker #1 Dr. Thomas Harter, UC Davis
 - Explained sections of the UC Davis Report findings "Addressing Nitrate in California's Drinking Water with a Focus on Tulare Lake Basin and Salinas Valley Groundwater"
 - Answered questions from Expert Panel members

5. Expert Panel Discussion

• Comments on nitrogen balance

6. Invited Speaker #2Brock Taylor, Certified Crop Advisor

- Commented on past and current grower water and nutrient management practices
- Answered questions from Expert Panel members

- Commented on Nitrogen Leaching Hazard Index (NHI) benefits and shortcomings
- Commented on improvement to the NHI
- Answered questions from Expert Panel members

8. Public Comment #1 John Dickey, PlaneTierra LLC

- Commented on existing Waste Discharge Requirements
- Commented on Nitrogen Hazard Index as a tool for preliminary assessment of risk
- Commented on assessing risk with Groundwater Quality Assessment Reports
- Commented on nitrogen consumption ratios versus mass balance approaches in nitrogen management planning
- Answered questions from Expert Panel members

9. Public Comment #2Bob Blakely, California Citrus Mutal

- Commented on variability being addressed in context of overall management system considering both surface water and groundwater
- Commented on addressing nitrate problems on a local and regional level
- Discussed retiring acreage as a solution
- Commented on tweaking Nitrogen Hazard Index and mass balance
- Commented on data collection and how the Regional Board will use the information reported by growers

10. Public Comment #3...... Bud Hoekstra, Berry Blest Organic Farm

- Commented on nitrate regulations in the Chesapeake area on the East Coast of the United States
- Commented on interaction of fertilizers and pesticides

11. Public Comment #4Patrick Brown, UC Davis

- Commented on perennial tree crop nitrate consumption
- Commented on education of nutrient uptake by plants requirement of CCAs, growers, or other advisors
- Commented on nitrate monitoring in soils
- Commented on Expert Panel acknowledging recommendations' applicability to certain crop types
- Answered questions from Expert Panel members

12. Public Comment #5 Bill McKinney, East San Joaquin Water Quality Coalition

- Commented on groundwater sampling
- Commented on best management practices
- Answered questions from Expert Panel members

- Commented on data to be collected from growers
- Commented on record keeping of data on his own property

- Thanked the Expert Panel members
- Commented on management of groundwater recharge

15. Public Comment #8 Tim Johnson, California Rice Commission

- Commented on California Rice Commission's surface water quality program
- Commented on reporting of nitrogen mass balance
- Answered questions from the Expert Panel members

16. Public Comment #9 Steve Shimek, The Otter Project

- Commented on Dr. Harter's "Three Track Monitoring Approach"
- Commented on discharge monitoring from higher risk farms
- Commented on public reporting of monitoring results
- Answered questions from the Expert Panel members

17. Public Comment #10 Jennifer Clary, Clean Water Action

 Commented on Clean Water Action's goals with the Irrigated Lands Regulatory Program

- Commented on the Expert Panel questions #5, #6, #9 and #10, and how dairies in the Central Valley are dealing with those same questions in relation to their Waste Discharge Requirements (WDR)
- Commented on cost to dairies to comply with the WDR for dairies in the Central Valley
- Commented on Dairy's version of the Management Practice Evaluation Program
- Commented on the California Dairy Quality Assurance Program in relation to Expert Panel question #8c
- Answered questions from Expert Panel members

- Encouraged Expert Panel to be aware of the Central Valley dairies' waste Discharge Requirements and the work that has been completed by dairies so far
- Commented on Central Valley Regional Water Quality Control Board staff's mission

20. Clarification Item #2 Darrin Polhemus, State Water Resources Control Board

• Clarified Expert Panel's role and directed the Expert Panel to focus on the thirteen questions posed to them

21. Expert Panel Discussion

• Set up schedule for next meetings

Dr. Charles Burt adjourned the meeting at approximately 4:45 p.m. on May 9, 2014. The next scheduled Expert Panel meeting will be held on June 9, 2014 in San Luis Obispo.