

Watershed Advisory Board
Lafayette City Council Chambers
December 19, 2000
Meeting Minutes

1. **Call to Order:** The meeting was called to order at 6:30 PM.
2. **Members Present at the Meeting:** Kathi Futornick, Gary Johnson, Ron Ross, Bob Cullen, Sue Picciano, Dean O'Reilly, Andy Bryant, Carol Paddock (for Travis Johnson).
3. **Others Present:** Walter Forster, Phil Leiberman.
4. **Approval of Meeting Minutes:** Add Walter's name to items b,j. Bob Cullen moved to accept the meeting minutes as amended from November 14 and 21, 2000. Ron Ross seconded the motion. Meeting minutes were approved unanimously.
5. **Report on Public Meeting (November 21, 2000):** Meeting minutes are available and report not presented. Additions to meeting notes from Carol: interplanting and planting in burn piles; consumptive use of conifers was great which might impact recharge. Consideration for different vegetation. In the 5th paragraph, add to 4th sentence, "lively". Motion to amend the meeting minutes was made by Bob Cullen and seconded by Andy. Minutes approved as amended. Further discussion deferred until next meeting.
6. **Presentation – Dennis Nelson, Oregon Division of Health:** Refer to handouts for more detail. Dennis Nelson discussed the delineation he has conducted to determine sources of water to the watershed. He focused on springs and did a preliminary glance at the wells. Dennis explained the basic hydrogeologic cycle. During his presentation he discussed the geology that controls the springs within the watershed to the extent information is known. Columbia River basalts from 15 million years ago are found at the site with underlying marine sedimentary rocks (25-35 million years). Based on topography, he identified two fault lines. A discussion followed regarding the construction of the spring boxes and the necessary approvals from the Health Division. The Division inspects the spring boxes every 3-5 years. Water to the springs is coming out of the basalts.

The requirements for maintaining the springs as a drinking water source include persistent coliform tests. Ron Ross stated that this was done in 1994. Dennis stated that Cory Gentry with the Division is one of the engineers that checks on the construction of the springbox, and would be the one to contact if we wanted more information regarding the actual construction.

Dennis went onto discuss that the wells are not as vulnerable as the springs. Discussion of the types of chemicals in water followed e.g. sulfates, chlorate, iron, magnesium. Rainwater has few dissolved solids. The reason that dissolved solids are found in spring water is due to the longer residence time.

Dennis discussed capture zones. He assumed that the geologic control in the watershed was horizontal. He approached the issue of capture zones from a conservative assumption. There was a large flat area, two square miles. Within the smaller area the water is assumed to move the other way. Basalt is assumed to be found below the springs.

Dennis will complete his report on the delineation for both springs and wells. The process will include a

DEQ review of the report and identification of potential contamination sources. After the DEQ review the Division of Health will then conduct a sensitivity analysis. With this information, a management plan for protection of the watershed will be developed. Dennis mentioned that communities are working with land use professionals to reduce risk through management plans. The City and the WCAB will have input.

Chemicals: At the end of Dennis's presentation, chemical application in the watershed was discussed. The goal is to have no pesticides find their way to the water source, and that does not mean that pesticides cannot be used. Dennis will have Dr. Jenkins at the Division review the chemicals that were discussed. Of the 4 chemicals, the glyphosate is not a problem in ground water; the other three cross bow, gerlon have moderate leach potential; drono (?) has high leach potential. Andy agreed to get to Dennis the information he accumulated on the chemicals to potentially be used within the watershed. Gary mentioned that many of the chemicals were short-lived. The greater concern was with the previous apple orchard where DDT and lead arsenic were used as well as atrozine.

Consumptive Water Use by Trees: A discussion followed regarding water consumption by trees. Andy mentioned that it was doubtful that forestry impacts water quality. Gary brought up the potential impact from the quarry may have greater impacts. There was disagreement about the potential impact to water quality from forestry.

7. **Subcommittee Report - Vegetation Forest Management:** Walter and Carol presented information on the vegetative history of the watershed. Some of the oak evaluated had from 135 – 156 rings; the Douglas fir, 105 rings. The committee discussed the Champoeg fire which burned to Alsea; savannah grass and southern pines. Walter and Carol did a great job in checking the survival of the seedlings. The seedlings were still vigorous given a rating of 3 from a scale of 1-4. The urgency of coming up with a plan for ensuring the survival of the seedlings was discussed. Treatment options for vegetative control included chemicals, fiber mats, bud capping. Cost was an issue. Carol agreed to contact Paul Adams and Dr. Beschta from OSU regarding additional input.
8. **Public Survey:** Introduced by Carol and would like comments.
9. **Agenda for Next Meeting, January 9, 2001:** Public Survey; Public Meeting; Vegetative Management (Carol, Walter, Andy).
10. **Motion to Adjourn:** Bob moved to adjourn, Susan seconded the motion. Meeting was adjourned at 9 PM.

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