Revision of a regional pesticide leaching tool in Hawaii for volatile organic compounds

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This seminar highlights a revised screening tool that can assess regional groundwater vulnerability to volatile organic compounds (VOCs) in Hawaii. The modified tool is an update of a previous pesticide leaching model which includes additional modes that can take into account the release of VOCs in soils (including their downward movement). The extended tool, as implemented in a geographic information system, has been shown to clearly delineate groundwater vulnerability to selected VOCs based on recent recharge, soil, and chemical (benchmark) properties. In addition, the revised tool has been in good agreement with predictions from other types of models. The modified model may serve as an initial screening tool for assessing groundwater vulnerability to modern agrochemicals in Hawaii. The talk will include a brief discussion of future directions in the development of alternative screening tools as well as ongoing efforts in applying the regional model to national-scale assessments of groundwater vulnerability.

Weds. Jan 23, 3:00 PM
Watanabe Hall room 420
UH Manoa campus