Barriers to Managing Private Wells and Septic Systems in Underserved Communities: Mental Models of Homeowner Decision Making

Supporting Information

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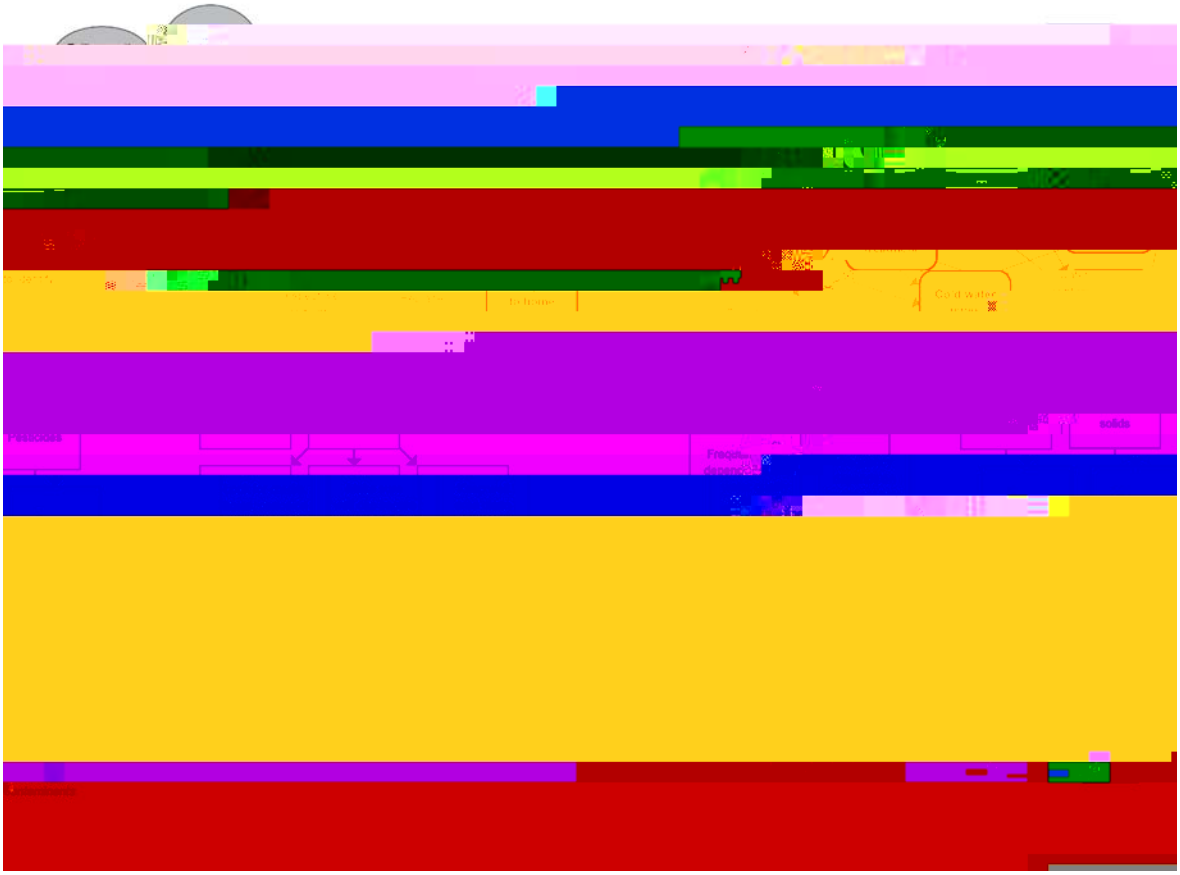

Figure S1. Expert model of private well water systems. Topics relevant to managing private water well systems were gathered from a literature review (Benham & Ling, 2013; NC Department of Health and Human Services, 2015; United States Environmental Protection Agency, 2015a,b; Virginia Cooperative Extension, n.d.; Water Systems Council, n.d.; National Environmental Services Center, 2004). Topics were arranged to illustrate how water well systems function and how these systems should be monitored and maintained. This diagram was reviewed by a private well expert for accuracy and completeness.

Figure S2. Expert model of private septic systems. Topics relevant to managing private septic systems were gathered from a literature review (Benham & Ling, 2013; NC Department of Health and Human Services, 2015; United Stat

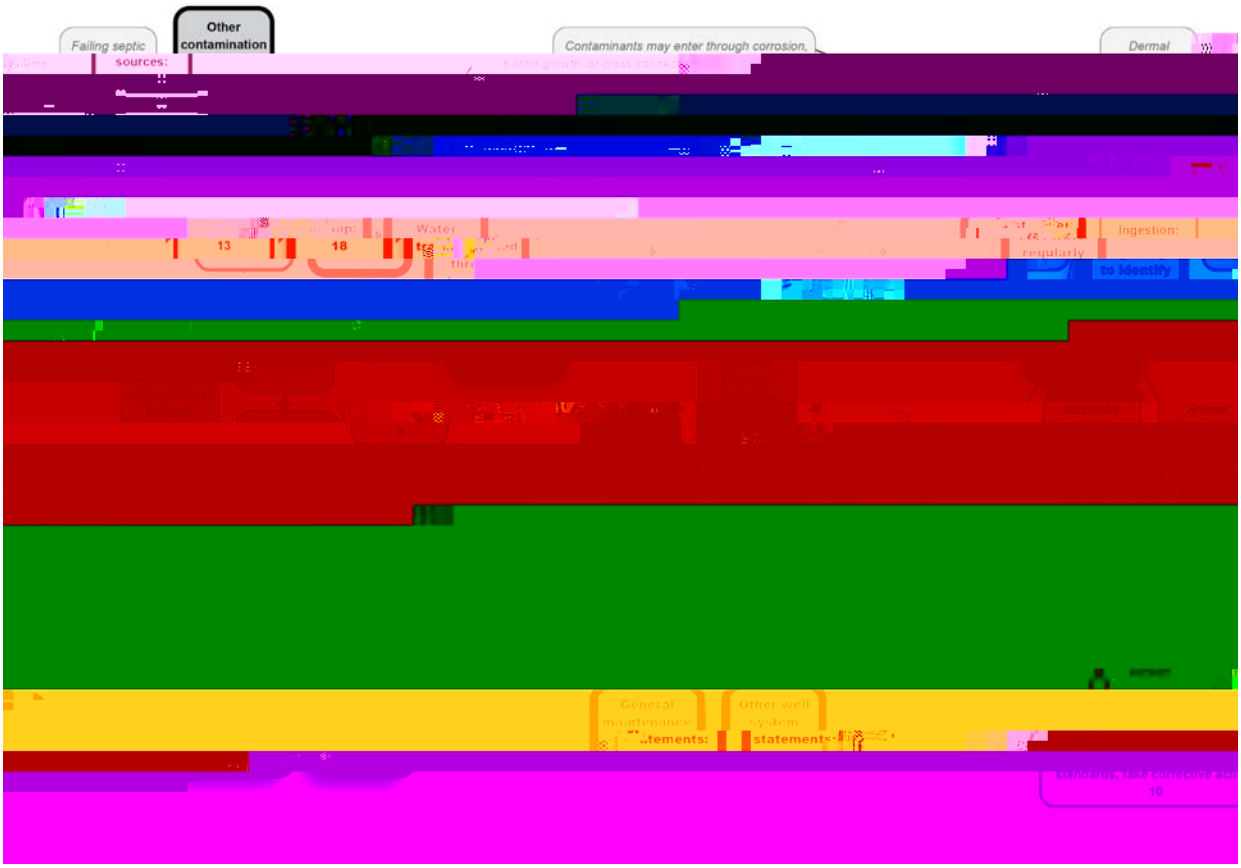

Figure S3. Frequency with which private well system expert codes were mentioned by interviewees (n=18). Numbers within each diagram node represent the number of interviewee mentions, regardless of interview statement accuracy. Thicker lines represent nodes that were mentioned by a higher number of interviewees. Counts were measured by first assigning each diagram node a code. These codes were then assigned to individual transcript statements when relevant.

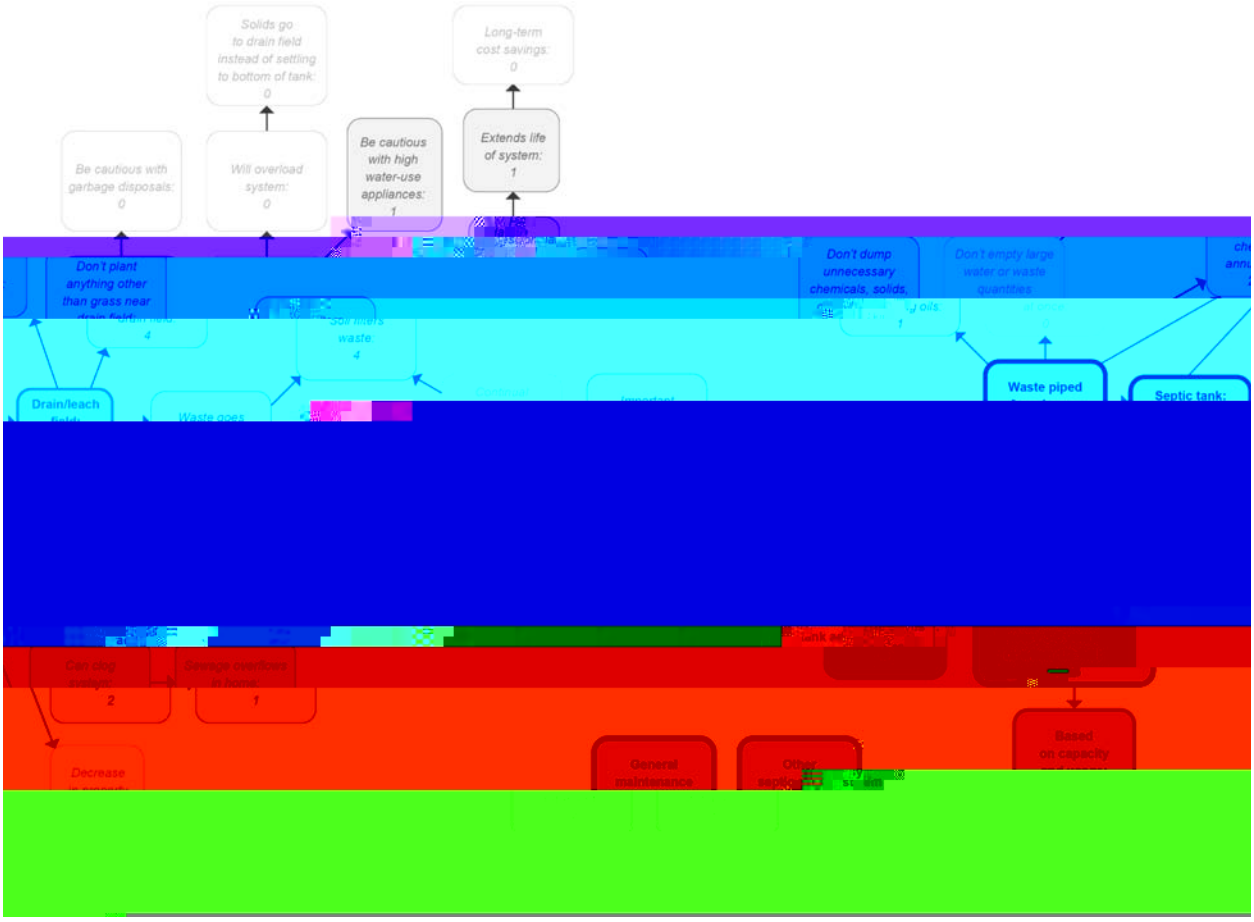

Figure S4. Frequency with which private septic system expert codes were mentioned by interviewees (n=18). Numbers within each diagram node represent the number of interviewee mentions, regardless of interview statement accuracy. Thicker lines represent nodes that were mentioned by a higher number of interviewees. Counts were measured by first assigning each diagram node a code. These codes were then assigned to individual transcript statements when relevant.