Summary of Residents without water (1-6-11)

Name	Survey Summary	Hazardous Substances Present*	Comparison Value	Comparison Value Source	Maximum
1. Ex. 6 - Personal Privacy	2 adults , 1 teenager, water buffalo (well disconnected) using donated bottled water for drinking. Delivery of water to buffalo discontinued by donor parties.	1)DEHP 2)Glycols 3) 2-Methoxyethanol 4)Manganese	1) 600/2,000 ug/L 2) 8,000/30,000 ug/L 3) None Established 4) 50 ug/L	1)ATSDR Child/Adult Chronic EMEG 2)ATSDR Child/Adult Intermediate EMEG 3) None 4) EPA SMCL	1) 2.3 ug/L 2) 4700J ug/L 3) 1300J ug/L 4) 96.5 ug/L
Tox: Although manganese was detected at a level (96.5 ug/L) that exceeds its Secondary MCL (50 ug/L), this concentration would not be expected to pose a significant threat. The other contaminants also would not pose a significant risk.					
ATSDR: Glycol compound detections of concern (analytical detection issues as we've discussed). Elevated manganese. Elevated methane. Biological ok. Potential quality control issues with data. Do not use until further characterization recommended.					
2. Ex. 6 - Personal Privacy	2 adults, no children, water buffalo (well not being used) using donated bottled water for drinking. Delivery to water buffalo discontinued by donor parties	Arsenic	3/10 ug/L	ATSDR Child/Adult Chronic EMEG	1.8J ug/L
Tox: No contaminants at levels of concern.					
ATSDR: No organics data. Elevated methane, ethane, and ethene. Further characterization recommended.					

3. Ex. 6 - Personal Privacy	2 adults, no children, water buffalo (well not being used) using donated bottled water for drinking. Delivery to water buffalo discontinued by donor parties. Pumping water from the creek to the water buffalo	1)Glycols 2) 2-Methoxyethanol 3) Arsenic 4) Mangenese 5) Sodium	1)8000/30,000 ug/L 2)None Established 3) 3/10 ug/L 4) 50 ug/L 5) 20,000 ug/L	1) ATSDR Child/Adult Intermediate EMEG 2) None 3) ATSDR Child/Adult Chronic EMEG 4) EPA SMCL 5) EPA Drinking Water Advisory	1) ~1620 ug/L 2) 1100J ug/L 3) 2.4J ug/L 4) 76J ug/L 5) 110,000 ug/L
TOX: Sodium (110,000 ug/L) exceeds its Secondary MCL, which is based on aesthetics, as well as the safe level of intake for individuals on sodium-restricted diets. From a health perspective, the detected level of sodium could be a concern for hypertensive individuals. Manganese (76 ug/L) exceeds its Secondary MCL, but does not pose a threat.					
ATSDR: Glycol compound detections of concern (analytical detection issues as we've discussed). Elevated manganese. Elevated sodium. Elevated methane. Biological ok. Do not use until further characterization recommended.					

4. Ex. 6 - Personal Privacy	4 adults, no children, water buffalo (well not being used) using donated bottled water for drinking. Delivery to water buffalo discontinued by donor parties.	1) Glycols 2) 2-Methoxyethanol 3) Arsenic 4) Mangenese 5)Sodium	1) 8000/30,000 ug/L 2) None Established 3) 3/10 ug/L 4) 50 ug/L 5) 20,000 ug/L	1) ATSDR Child/Adult Intermediate EMEG 2) None Established 3) ATSDR Child/Adult Chronic EMEG 4) EPA SMCL 5) EPA Drinking Water Advisory	1) 630J ug/L 2) 880J ug/L 3) 7.2B ug/L 4) 628 ug/L 5) 82,900 ug/L
Tox:a Similar to above (Resident 3), sodium was observed at this residence (82,900 ug/L) in excess of its Secondary MCL. Manganese (628 ug/L) also exceeded its Secondary MCL; exposure to this concentration would yield a Hazard Quotient of approximately 2.					
ATSDR: Glycol compound detections of concern (analytical detection issues as we've discussed). Elevated manganese. Elevated methane. Biological concern. Potential quality control issues with data. Do not use until further characterization recommended.					
5. Ex. 6 - Personal Privacy	3 adults, no children, not using water buffalo , using well water for everything but drinking and cooking buying their own bottled water for drinking and cooking. High sediment noted in their filter.	1) Arsenic 2) Mangenese	1) 3/10 ug/L 2) 50 ug/L	1) ATSDR Child/Adult Chronic EMEG 2) EPA SMCL	1) 1.3 ug/L 2) 212 ug/L
Tox: Manganese (212 ug/L) exceeded its Secondary MCL, but does not pose a threat.					
ATSDR: No organics data. Elevated manganese. Biological concern. Do not use until further characterization recommended.					

6. Ex. 6 - Personal Privacy	2 adults, 2 teenagers, 3 children, water buffalo (well not being used) using donated bottled water for drinking. Delivery to water buffalo discontinued by donor parties.	1) DEHP 2) Arsenic 3) Mangenese 4) Sodium	1) 600/2,000 ug/L 2) 3/10 ug/L 3) 50 ug/L 4) 20,000 ug/L	1) ATSDR Child/Adult Chronic EMEG 2) ATSDR Child/Adult Chronic EMEG 3) EPA SMCL 4) EPA Drinking Water Advisory	1) 22 ug/L 2) 6.5 ug/L 3) 669 ug/L 4) 131,000 ug/L
TOX: DEHP (22 ug/L) exceeds its MCL (6 ug/L) and also its risk-based screening level (7.1 ug/L, set at an excess cancer risk of 1E-04). Long-term exposure to this level of DEHP would pose a cancer risk of approximately 3E-04; this would be considered an imminent and substantial threat. Additionally, sodium (131,000 ug/L) exceeds its Secondary MCL and could pose a threat to sodium-sensitive individuals. Note that three children reside at this location.					
ATSDR: Limited organics data. Elevated manganese and sodium. Elevated methane. Biological concern. Do not use until further characterization recommended.					
7. Ex. 6 - Personal Privacy	Fisher – 2 adults, 1 senior, 1 adolescent, 1 child, 1 toddler, water buffalo (well not being used) using donated bottled water for drinking. Delivery to water buffalo discontinued by donor parties.	1) Glycols 2) Arsenic 3) Mangenese	1) 8000/30,000 ug/L 2) 3/10 ug/L 3) 50 ug/L	1) ATSDR Child/Adult Intermediate EMEG 2) ATSDR Child/Adult Chronic EMEG 3) EPA SMCL	1) 3400J ug/L 2) 3.1 ug/L 3) 1360 ug/L
TOX: Manganese was detected at a level (1360 ug/L) that generates a Hazard Quotient of approximately 4. This represents an imminent and substantial threat. Note that two children (including one toddler) reside at this location.					
ATSDR: Glycol compound detections of concern (analytical detection issues as we've discussed). Elevated manganese. Biological concern. Do not use until further characterization recommended.					

8. Ex. 6 - Personal Privacy	3 adults, 3 seniors, 2 toddlers, water buffalo disconnected. Well back in use for non-potable uses. Bottle water used for drinking and cooking. Resident installed filter system (not sure it is certified for potential contaminants)	1)DEHP 2)Arsenic 3)Manganese 4)Sodium	1) 600/2,000 ug/L 2) 3/10 ug/L 3) 50 ug/L 4) 20,000 ug/L	1) ATSDR Child/Adult Chronic EMEG 2) ATSDR Child/Adult Chronic EMEG 3) EPA SMCL 4) EPA Drinking Water Advisory	1) 2.61 ug/L 2) 37 ug/L 3) 413 ug/L 4) 36,800 ug/L
TOX: Arsenic (37 ug/L) was observed at a concentration that would pose a long-term cancer risk of 8E-04. This represents an imminent and substantial threat. Additionally, the detected concentration of arsenic exceeds its MCL (10 ug/L). Note that two toddlers reside at this location.					
ATSDR: Glycol compound detections of concern (analytical detection issues as we've discussed). Elevated manganese. Elevated sodium. Biological concern. Do not use until further characterization recommended.					

* Note, other chemicals of concern to ATSDR are present in all of these wells.

Overall ATSDR statement

ATSDR's preliminary public health evaluation of the private well water data at this time remains as summarized in our 12/29/11 Record of Activity document. We concluded that considering the maximum levels detected in these wells and the potential quality control issues, a possible chronic public health threat for prolonged use of the water from at least some of these wells exits. We recommended not using the water until further characterization could better establish the existence of a public health threat.