

**Table 7-1**

**Summary of Human Health and Ecological Risk Screening Evaluation Results for Waimanalo Stream**

*Bellows OU1 EE/CA, Bellows AFS, Hawaii*

No. Action Criterion <sup>1</sup>	Is Action Warranted?		Comments
	Yes	No	
<b>Human Health Risk Screening Evaluation</b>			
1		X	Based on the maximum representative concentrations at upstream and downstream locations, chemical concentrations in surface water were below those that present an increased lifetime cancer risk of 1 in 10,000.
2		X	Based on the maximum representative concentrations at upstream and downstream locations, chemical concentrations in surface water were below those that present a noncancer hazard quotient of 1.
3		X	Based on the maximum representative concentrations at upstream and downstream locations, chemical concentrations in surface sediment were below those that present an increased lifetime cancer risk of 1 in 10,000.
4		X	Based on the maximum representative concentrations at upstream and downstream locations, chemical concentrations in surface sediment were below those that present a noncancer hazard quotient of 1.
5		X	Based on the maximum representative concentrations at upstream and downstream locations, chemical concentrations in fish fillet tissue resulted in a calculated consumption limit below the critical minimum level.
6		X	Based on the maximum representative concentrations at upstream and downstream locations, chemical concentrations in fish fillet tissue resulted in a calculated consumption limit below the critical minimum level.
7		X	Based on the maximum representative concentrations at upstream and downstream locations, chemical concentrations in fish fillet tissue resulted in a predicted blood-lead level below the action level.

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No. Action Criterion <sup>1</sup>	Is Action Warranted?		Comments
	Yes	No	
<b>Ecological Risk Screening Evaluation</b>			
1		X	Concentrations of 4,4-DDT, endosulfan I, heptachlor epoxide, and lead exceeded marine chronic AWQC in surface water in Waimanalo Stream. These constituents were infrequently detected and were not detected in tissue at concentrations that may cause risk. Therefore, no further action is warranted based on these exceedances.
2		X	On a sample-specific basis, concentrations of nickel exceeded the NOAA ERM screening level in surface sediment at Waimanalo Stream. The highest concentration was at the upstream location (above OU1 sites). AVS/SEM analysis indicated that divalent metals (e.g., nickel) are not biologically available at any of the locations where nickel exceeded the NOAA ERM. Therefore, no surface sediment COPCs will be carried forward as COCs and no further ecological action is required.
3		X	The hazard quotient based on selenium concentrations exceeded the action level of 1. However, selenium was not detected in sediment or any of the OU1 sites. The food-chain model assumes that 90 percent of the wading bird's diet is fish; therefore, the model may overestimate actual risk to these birds. Further action is therefore not warranted based on these exceedances.

**Notes:**

<sup>1</sup>Action criteria for ecological receptors are termed risk thresholds and do not represent cleanup values. These thresholds are designed initially to be conservative, and refined to meet AWQC = ambient water quality criteria; NOAA = National Oceanic and Atmospheric Administration; ERM = effects-range-median.