

Table 5-1. Weight of Evidence Evaluation Criteria

Endpoint	Description	Strength of Association ^a	Data Quality	Relative Weight ^b	Magnitude of Effect and Criteria		
					Low	Medium	High
Assessment 1: Health of Benthic Invertebrate Community							
1a.	Bulk Sediment Comparison to Sediment Quality Benchmarks ^c	Low	Good	Medium	PEC-Q<1; no more than 3 COPCs>PEC;all COPCs<2xPEC	PEC-Q >1 but <1.5;4-6 COPCs>PEC; noCOPCs >5xPEC	PEC-Q >1.5; > 6 COPCs > PEC; at least 1 COPCs > 5xPEC
1b.	Metals Mixtures: AVS/SEM	Medium	Good	Medium	AVS/SEM <1	AVS/SEM >1 and <2	AVS/SEM >2
1c.	PAH Mixtures: ESGs	Medium	Good	Medium	ESGTU <1	ESGTU >1 and <10	ESGTU >10
1d.	Results of Acute and Chronic Toxicity Tests	High	Good	High	>80% Survival	50 - 80 % Survival	< 50 % Survival
1e.	Comparison of Porewater Quality data to AWQC	Medium	Poor	Low	no more than 6 COPCs>WQC and all COPC<5x WQC	6-8 COPCs>WQC or any COPC>5x WQC but <10x WQC	>8 COPCs>WQC or any COPC>10x WQC
1f.	Benthic Invertebrate Community Analysis	High	Poor	Low	Shannon-Weiner >2	Shannon-Weiner >1, <2	Shannon-Weiner<1
Assessment 2: Health of Fish Community							
2a.	Comparison of Water Quality data to AWQC	Medium	Acceptable	Low	no more than 1 COPCs>WQC and all COPC<5x WQC	2-4 COPCs>WQC or any COPC>5x WQC but <10x WQC	>4 COPCs>WQC or any COPC>10x WQC
2b.	Comparison of Fish Tissue Residues to Literature-based Effect Levels	High	Acceptable	Medium	All COPCs <FER-L	1 or more COPC > FER-L but all <FER-M	1 or more chemicals exceed FER-M
2c.	Fish Community Assessment	High	Poor	Low	Diversity, productivity & condition factors CF) as expected & external abnorm. < 1%.	Diversity, productivity reduced, CF reduced, external abnorm. 1 - 5 %.	Diversity, productivity greatly reduced, CF severely reduced, severe external abnorm. > 5 %.
Assessment 3: Sustainability of higher trophic level wildlife							
3a.	Food Chain Exposure Evaluation and Comparison to Effects levels	Medium	Good	Medium	All HQs <1	Up to 3 COPCs with HQ >1 but less than 10	More than 3 COPCs HQ >1 or at least 1 chemical with HQ greater than 10

a. Indicates assumed strength of relationship between assessment and measurement endpoint

b. Based on qualitative assessment of strength of association and data quality.

c. Total PAHs were evaluated for comparisons to PEC.