Table 1. Sediment Cover and Engineering Control Comparison Table				
Comparative Metric		Cover	Engineering Control (i.e. cap)	
Function		enhances natural processes through dilution, dispersion, mixing, and burial	physical and chemical isolation of contaminants from the sediment surface	
Design Criteria	Physical Isolation	not explicitly designed for but potential by-product of placement	designed to withstand a site-specific water velocity, shear stress, or scour event	
	Chemical Isolation	not explicitly designed for but potential by-product of placement	design criteria can include advection, diffusion, and ebullition	
	Layers	not typical	typical to have multiple layered systems that consider intra layer, physical, and chemical compatibility; erosion protection is a common feature	
Thickness		varies but typically 6 to 12 inches	varies but typically 1 to 3 feet	
Geosynthetics		none	can include geosynthetic clay liners (GCL), geogrid, geotextiles, PVC and HDPE liners, reactive core mat (RCM), or a combination of different geosynthetics	
Amendments		not a distinguishing characteristic carbon, organoclay, and other amendments can be used in either		
Placement Techniques		typically mixing and displacement of underlying contaminated sediment is not explicitly avoided or controlled	slow, uniform application that allows the capping material to accumulate in layers, avoiding displacement of or mixing with the underlying contaminated sediment	
Verification of placement specifications		typically required	typically required	
Short Term Monitoring		specific to the cover, may be required site wide	typically required specific to the cap	
Long-term Monitoring		specific to the cover, may be required site wide	typically required specific to the cap	
Continuing Obligations		none, although sometimes monitoring is required	typically required specific to the cap	
Maintenance		not typical	typically required per a site-specific cap maintenance plan	

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NR 722.17 Applicability - Database requirements	not applicable, not an engineering control	required, sediment caps are an engineering control under NR 722.15(2)(e)	
NR 725.05(2) Notification Applicability	not applicable	not applicable	
SS 292.12(4) Notification of residual contamination during case closure application	applicable	applicable	