



## TABLE 3-2: TREATMENT TECHNOLOGIES SCREENING MATRIX

TABLE 3-1: DEFINITION OF SYMBOLS USED IN THE TREATMENT TECHNOLOGIES SCREENING MATRIX

Factors	● Above Average	● Average	○ Below Average	Other
Development Status Scale status of an available technology	Implemented as part of the final remedy at multiple sites, well documented, understood, etc.	Has been implemented at full scale but still needs improvements, testing, etc.	Not been fully implemented but has been tested (pilot, bench, lab scale) and is promising	◊ Level of Effectiveness highly dependent upon specific contaminant and its application/design
Treatment Train Is the technology only effective as part of the treatment train?	Stand-alone technology (not complex in terms of number of media/treatment technologies, maybe one "routine" technology in addition)	Relatively simple (two-car train or so), and well understood, widely applied, etc.	Complex (more technologies, media to be treated, generates excessive waste, etc.)	
O&M Operation and Maintenance Intensive	Low degree of O&M intensity	Average degree of O&M intensity	High degree of O&M intensity	
Capital Capital Intensive	Low degree of capital investment	Average degree of capital investment	High degree of capital investment	
System Reliability /Maintainability The expected range of demonstrated reliability and maintenance relative to other effective technologies	High reliability and low maintenance	Average reliability and average maintenance	Low reliability and high maintenance	
Relative Costs Design, construction, and operations and maintenance (O&M) costs of the core process that defines each and pre-and post-treatment	Low degree of general costs relative to other options	Average degree of general costs relative to other options	High degree of general costs relative to other options	
Time Time required to clean up a "standard" site using the technology	in situ soil	Less than 1 year	1-3 years	More than 3 years for in situ soil
	ex situ soil	Less than 0.5 year	0.5-1 year	More than 1 year for ex situ soil
	groundwater	Less than 3 years	3-10 years	More than 10 years for water
Availability Number of vendors that can design, construct, and maintain the technology	More than 4 vendors	2-4 vendors	Fewer than 2 vendors	
Contaminants Treated Contaminants are classified into eight groups: - Nonhalogenated VOCs - Halogenated VOCs - Nonhalogenated SVOCs - Halogenated SVOCs	Effectiveness Demonstrated at Pilot or Full Pilot or Full Scale	Limited Effectiveness Demonstrated at Pilot or Full Scale	No Demonstrated Effectiveness at Pilot or Full Scale	Same as above