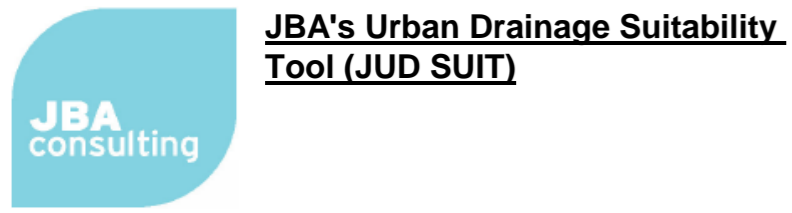


General Suitability				Landuse Suitability								Water Quantity Suitability	Water Quality Suitability					Environmental Benefits		Cost Suitability			
SUDS Group	Technique	Suitability Conditions	Management Train Suitability	Low Density (1)	Residential (1 to 2)	Local Roads (2)	Commercial (2 to 3)	Industrial (2 to 3)	Construction Site (1)	Brownfield (1)	Contaminated Land (3 to 4)		Water Quality Removal Technique	Pollutants Removed	Removal Treatment Potential					Community Appeal	Habitat Creation Potential	Maintenance	Capital
															TSS	Heavy Metals	Nutrients	Bacteria	Fine Suspended Sediments & Dissolved Pollutants				
Retention	Retention pond	A, F	Site control, regional control	Y	Y	Y	Y	Y	Y	Y	Y	Detention, infiltration*, water harvesting	Sedimentation, filtration, adsorption, biodegradation, volatilisation, precipitation, uptake by plants, de-nitrification	Nutrients, sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	H	M	M	M	H	H <sup>1</sup>	H	M	M
	Subsurface storage		Conveyance, site control	Y	Y	Y <sup>1</sup>	Y <sup>1</sup>	Y <sup>1</sup>	Y	Y	Y <sup>1</sup>	Conveyance, detention	Sedimentation*, filtration*	Nutrients, sediments, metals, hydrocarbons	L	L	L	L	L	H	L	L	M
Wetland	Shallow wetland	B, D, F, I	Conveyance*, site control, regional control	Y	Y	Y	Y	Y	N	Y	Y	Conveyance*, detention, infiltration*, water harvesting	Sedimentation, filtration, adsorption, biodegradation, volatilisation, precipitation, uptake by plants, de-nitrification	Nutrients, sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	H	M	H	M	H	H <sup>1</sup>	H	H	H
	Extended detention wetland	B, D, F, I	Conveyance*, site control, regional control	Y	Y	Y	Y	Y	N	Y	Y	Conveyance*, detention, infiltration*, water harvesting	Sedimentation, filtration, adsorption, biodegradation, volatilisation, precipitation, uptake by plants, de-nitrification	Nutrients, sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	H	M	H	M	H	H <sup>1</sup>	H	H	H
	Pond / wetland	B, D, F, I	Conveyance*, site control, regional control	Y	Y	Y	Y	Y	N	Y	Y	Conveyance*, detention, infiltration*, water harvesting	Sedimentation, filtration, adsorption, biodegradation, volatilisation, precipitation, uptake by plants, de-nitrification	Nutrients, sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	H	M	H	M	H	H <sup>1</sup>	H	H	H
	Pocket wetland	B, D, H	Conveyance*, site control, regional control	Y	Y	Y	Y	Y	N	Y	Y	Conveyance*, detention, infiltration*, water harvesting	Sedimentation, filtration, adsorption, biodegradation, volatilisation, precipitation, uptake by plants, de-nitrification	Nutrients, sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	H	M	H	M	H	M <sup>1</sup>	H	H	H
	Submerged gravel wetland	B, D, F, I	Conveyance*, site control, regional control	Y	Y	Y	Y	Y	N	Y	Y	Conveyance*, detention, infiltration*, water harvesting	Sedimentation, filtration, adsorption, biodegradation, volatilisation, precipitation, uptake by plants, de-nitrification	Nutrients, sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	H	M	H	M	H	L	M	M	H
	Wetland channel	B, D, F, I	Conveyance*, site control, regional control	Y	Y	Y	Y	Y	N	Y	Y	Conveyance*, detention, infiltration*, water harvesting	Sedimentation, filtration, adsorption, volatilisation, precipitation, uptake by plants, de-nitrification	Nutrients, sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	H	M	H	M	H	H <sup>1</sup>	H	H	H
Source control	Green roof	G, H	Prevention, pre-treatment, source control	Y	Y	N	Y	Y	N	Y	Y <sup>1</sup>	Detention	Filtration, adsorption, volatilisation, precipitation, uptake by plants, de-nitrification, biodegradation	Sediments, hydrocarbons, metals, pesticides, chlorides, cyanides, organic matter, BOD, nutrients	N/A	N/A	N/A	N/A	H	H	H	H	H
	Rain water harvesting	H	Prevention, conveyance*, source control	Y	Y	N	Y	N	N	Y	Y <sup>1</sup>	Conveyance*, detention*, infiltration*, water harvesting*	Sedimentation*, filtration*, adsorption*, biodegradation*, volatilisation*, precipitation*, uptake by plants*, de-nitrification*	Chlorides, sediments, hydrocarbons, metals, pesticides, chlorides, cyanides, organic matter, BOD, nutrients	M	L	L	L	N/A	M <sup>1</sup>	L	H	H
	PerVIOUS pavement	C, D	Prevention, source control, site control	Y	Y	N	Y	Y	N	Y	Y*	Detention, infiltration, water harvesting*	Sedimentation, filtration, adsorption, biodegradation, volatilisation	Sediments, hydrocarbons, metals, pesticides, nutrients, organic matter, BOD	H	H	H	H	H	M	L	M	M
Infiltration	Infiltration trench	C, H, J	Conveyance*, source control, site control	Y	Y	Y	Y	N	N	Y	Y <sup>1*</sup>	Conveyance*, detention, infiltration	Filtration, adsorption, biodegradation, volatilisation	Sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	H	H	H	M	H	M	L	L	L
	Infiltration basin	C, F, J	Site control, regional control	Y	Y	Y	Y	N	N	Y	Y <sup>1*</sup>	Detention, infiltration	Filtration, adsorption, biodegradation, volatilisation	Sediments, hydrocarbons, metals, pesticides, cyanides, nutrients, organic matter, BOD	H	H	H	M	H	H <sup>1</sup>	M	M	L
	Sogkaway	C, H, J	Source control	Y	Y	Y	Y	N	N	Y	Y*	Infiltration	Filtration, adsorption, biodegradation	Sediments, hydrocarbons, metals, nutrients, pesticides, organic matter, BOD	H	H	H	M	H	M	L	L	M
Filtration	Surface sand filter	C, D, F, K	Pre-treatment, site control, regional control*	N	Y	Y	Y	Y	N	Y	Y	Detention, infiltration*	Filtration, adsorption, biodegradation, volatilisation, precipitation	Nutrients, sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	H	H	H	M	H	L	M	M	H
	Sub-surface sand filter	C, D, H, K	Pre-treatment, site control, regional control*	N	Y	Y	Y	Y	N	Y	Y	Detention, infiltration*	Filtration, adsorption, biodegradation, volatilisation, precipitation	Nutrients, sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	H	H	H	M	H	L	L	M	H
	Perimeter sand filter	C, D, H	Pre-treatment, site control, regional control*	N	N	Y	Y	Y	N	Y	Y	Detention, infiltration*	Filtration, adsorption, biodegradation, volatilisation, precipitation	Nutrients, sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	H	H	H	M	H	L	L	M	H
	Bioretention / filter strip	C, D, F, H	Pre-treatment, source control	Y	Y	Y	Y	Y	N	Y	Y	Conveyance*, detention*, infiltration*	Sedimentation, filtration, adsorption, biodegradation	Nutrients, sediments, hydrocarbons, metals, pesticides, organic matter, BOD	H	H	H	M	H	H	H	H	M
	Filter trench	A, C, D, H	Conveyance, source control, site control*	Y	Y	Y	Y	Y	N	Y	Y	Conveyance, detention	Filtration, adsorption, biodegradation, volatilisation	Nutrients, sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	H	H	H	M	H	M	L	M	M
Detention	Detention basin	A, C, F, K	Site control, regional control	Y	Y	Y	Y	Y	Y	Y	Y	Detention	Sedimentation, filtration*, adsorption*, biodegradation, uptake by plants*	Nutrients, sediments, hydrocarbons, metals, pesticides, cyanides, organic matter, BOD	M	M	L	L	L	H <sup>1</sup>	M	L	L
Open channels	Conveyance swale	C, E, F, H, J	Conveyance, pre-treatment, site control	Y	Y	Y	Y	Y	Y	Y	Y	Conveyance*, detention*, infiltration*	Sedimentation, filtration, adsorption, uptake by plants*, biodegradation	Nutrients, sediments, hydrocarbons, metals, pesticides, organic matter, BOD	H	M	M	M	H	M <sup>1</sup>	M	L	L
	Enhanced dry swale	C, E, F, H, J	Conveyance, pre-treatment, site control	Y	Y	Y	Y	Y	Y	Y	Y	Conveyance*, detention*, infiltration*	Sedimentation, filtration, adsorption, uptake by plants*, biodegradation	Nutrients, sediments, hydrocarbons, metals, pesticides, organic matter, BOD	H	H	H	M	H	M <sup>1</sup>	M	L	M
	Enhanced wet swale	B, E, F, H, J	Conveyance, pre-treatment, site control	Y	Y	Y	Y	Y	Y	Y	Y	Conveyance*, detention*, infiltration*	Sedimentation, filtration, adsorption, uptake by plants*, biodegradation	Nutrients, sediments, hydrocarbons, metals, pesticides, organic matter, BOD	H	H	M	H	H	M <sup>1</sup>	H	M	M



Item	Description	L	M	H	A	B	C	D	E	F	G	H	I
Blue outline	Infiltration-dependent components; will only work with permeable soil	L	Low										
	Not suitable / not applicable	M	Medium										
	Potentially suitable providing that design prevents mobilisation of contamination	H	High										
	Suitable	A	Liner is required for permeable soil										
Y	Yes	B	Surface base flow may be required										
N	No	C	Minimum depth to water table shouldn't be less than 1m										
		D	Slope should not exceed 5%										
		E	Follows contours for slope greater than 5%										
		F	Only suitable for large spaces										
		G	A roof has to be able to support 2 kNm2 for extensive, 7 kNm2 for semi-intensive and 10 kNm2 for intensive configurations.										
		H	Not suitable if area draining into SUDS is more than 2 ha										
		I	Only suitable where high flows are diverted around SUDS component for area of more than 2 ha										
		J	Only if available head is less than 1m										
		K	Only if available head is between 1 and 2 m										
		L	One treatment train stage may be sufficient										
		M	Some opportunities, subject to design										
		N	Will require draw-down and rehabilitation following construction activity, prior to use as a permanent drainage system.										
		O	Number of treatment train stages required.										