

GW TECHNOLOGY:		Passive-Reactive Treatment Walls			
RACER PARAMETERS		Scenario A	Scenario B	Scenario C	Scenario D
		Small Site		Large Site	
Remedial Action:		Easy	Difficult	Easy	Difficult
Media/Waste Type		Groundwater	Groundwater	Groundwater	Groundwater
Contaminant		VOCs	VOCs	VOCs	VOCs
Approach		In Situ	In Situ	In Situ	In Situ
System Definition:					
Permiable Barrier Type		Treatment Wall only	Treatment Wall only	Treatment Wall only	Treatment Wall only
Gate Dimensions- Length (ft)		100	100	600	600
Gate Dimensions- Width (ft)		2	2	2	2
Gate Dimensions- Depth(ft)		15	15	25	25
Safety Level		D	D	D	D
Treatment Media:					
Peat Moss (CY)		65	0	1200	0
Iron Fillings (CY)		0	65	0	1200
Wells:					
Well Spacing Distance (ft)		50	50	50	50
Screen Length (ft)		5	5	5	5
Well Construction Material		PVC	PVC	PVC	PVC
Well Diameter (inches)		4	4	4	4
Media Replacement Frquency (Mo)		120	120	120	120
Soil/Backfill:					
Soil Type		Sand/ gravelly sand mixture	Sand/ gravelly sand mixture	Sand/ gravelly sand mixture	Sand/ gravelly sand mixture
Cap Type		Vegetative with off-site topsoil	Vegetative with off-site topsoil	Vegetative with off-site topsoil	Vegetative with off-site topsoil
Borrow Material		No	No	No	No
Borrow Material On-Site		None	None	None	None
Borrow Material Off-Site		None	None	None	None
O&M:					
Assign Startup Costs		Exclude from estimate	Exclude from estimate	Exclude from estimate	Exclude from estimate
Duration (YR)		2	2	5	5
Treatment Train Systems Maintenance Level		Moderate	Moderate	Moderate	Moderate
Sampling Frequency		Monthly	Monthly	Monthly	Monthly
Passive/Reactive Treatment Walls Marked-up Costs					
		\$96,889	\$128,843	\$954,942	\$1,526,539
Additional Costs:					
O&M		\$4,885	\$6,813	\$278,475	\$603,659
Remedial Design		\$5,813	\$7,086	\$42,972	\$61,062
TOTAL MARKED-UP COSTS					
		\$107,587	\$142,742	\$1,276,389	\$2,191,260
Treatment Wall (CF)		3,000	3,000	30,000	30,000
Treatment Wall (CM)		85	85	849	849
Treatment Wall (CY)		112	112	1,118	1,118
COST PER CUBIC FOOT (of Treatment Wall)		\$36	\$48	\$43	\$73
COST PER CUBIC METER (of Treatment Wall)		\$1,267	\$1,681	\$1,503	\$2,580
COST PER CUBIC YARD (of Treatment Wall)		\$963	\$1,277	\$1,142	\$1,961
GW Treated (CY)					
		680,250	680,250	17,006,250	17,006,250
COST PER CUBIC YARD (of GW Treated)		\$0.16	\$0.21	\$0.08	\$0.13