

SOIL TECHNOLOGY:		Phytoremediation			
RACER PARAMETERS	Scenario A	Scenario B	Scenario C	Scenario D	
	Small Site		Large Site		
	Easy	Difficult	Easy	Difficult	
Contaminated Media	Soil	Soil	Soil	Soil	
Fencing	None	None	None	None	
Site Distance	250	250	250	250	
Safety Level	D	D	D	D	
Depth to Contamination (ft)	0.1	0.1	0.1	0.1	
Area of Contamination (SF)	135,000	135,000	2,700,000	2,700,000	
Type of Contaminant	Metals	Metals	Metals	Metals	
Irrigation	Existing service Connection	Existing service Connection	Existing service Connection	Existing service Connection	
Contaminated Volume (Cubic Feet)	13,500	13,500	270,000	270,000	
Contaminated Volume (Cubic Yards)	500	500	10,000	10,000	
Natural Attenuation (Sampling)					
Crew Size	2 field technicians	2 field technicians	2 field technicians	2 field technicians	
Site Distance (miles)	250	250	250	250	
Analytical Water	None	None	None	None	
Analytical Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	
Analytical Template	Metals	Metals	Metals	Metals	
Include QA/QC Samples	Yes	Yes	Yes	Yes	
Include Data Analysis/Reporting	Yes	Yes	Yes	Yes	
Surface Soil Monitoring- # of events	1	1	1	1	
Surface Soil Monitoring- # of samples	6	6	124	124	
Surface Soil Monitoring- # of years	5	20	5	20	
Subsurface Soil Monitoring- Avg. Depth (ft)	N/A	N/A	N/A	N/A	
Subsurface Soil Monitoring- # of events	N/A	N/A	N/A	N/A	
Subsurface Soil Monitoring- # of samples	N/A	N/A	N/A	N/A	
Subsurface Soil Monitoring- # of years	N/A	N/A	N/A	N/A	
Phytoremediation Marked-up Costs	\$26,181	\$26,181	\$272,226	\$272,226	
Natural Attenuation (Sampling) Costs	\$176,367	\$770,691	\$770,720	\$3,079,798	
Additional Costs:					
O&M	\$29,590	\$83,255	\$39,191	\$297,578	
Years of O&M	5.0	20.0	5.0	20.0	
Remedial Design	\$7,344	\$7,554	\$39,709	\$41,888	
TOTAL MARKED-UP COSTS	\$239,482	\$887,681	\$1,121,846	\$3,691,490	
COST PER SQUARE FOOT	\$2	\$7	\$0.42	\$1	
COST PER CUBIC FOOT	\$18	\$66	\$4	\$14	
COST PER CUBIC METER	\$626	\$2,322	\$147	\$483	
COST PER CUBIC YARD	\$479	\$1,775	\$112	\$369	