

<b>SOIL TECHNOLOGY: Soil Washing</b>		
<b>RACER PARAMETERS</b>	<b>Scenario A</b>	<b>Scenario B</b>
	<b>Small Site</b>	<b>Large Site</b>
<b>Remedial Action:</b>		
<b>Media/Waste Type</b>	Soil	Soil
<b>Contaminant</b>	SVOC	SVOC
<b>Approach</b>	Ex situ	Ex situ
<b>System Definition:</b>		
<b>Volume (CY)</b>	10,000	200,000
<b>Density (Lbs/CY)</b>	2,600	2,600
<b>Quantity (Tons)</b>	13,000	260,000
<b>Size of Soil Washing Plant (Tons/Hr)</b>	50	100
<b>Mobilization Distance (Mi)</b>	100	100
<b>Safety Level</b>	D	D
<b>Additives:</b>		
<b>Surfactant Additive Rate (Lbs/ton)</b>	4	4
<b>Soil Type</b>	sand-silt/sand clay mixture	sand-silt/sand clay mixture
<b>Supply Water Temperature (°F)</b>	55	55
<b>Process Water Temperature (°F)</b>	55	55
<b>Make up Water (GPM)</b>	50	100
<b>Boiler Capacity (MBH)</b>	0	0
<b>Operation:</b>		
<b>Hours of Operation per Day</b>	16	16
<b>Hours of Downtime per Day</b>	2	2
<b>Days of Operation per Week</b>	5	5
<b>Weeks of Operation per Year</b>	42	42
<b>O&amp;M:</b>		
<b>Years of O&amp;M</b>		
<b>Additional Costs:</b>		
<b>O&amp;M</b>	\$0	\$0
<b>Remedial Design (10% or 10K)</b>	\$129,147	\$960,991
<b>Soil Washing Marked-Up Costs</b>	\$1,291,468	\$9,609,909
<b>TOTAL MARKED-UP COSTS</b>	\$1,420,615	\$10,570,900
<b>COST PER CUBIC FOOT</b>	<b>\$5</b>	<b>\$2</b>
<b>COST PER CUBIC METER</b>	<b>\$187</b>	<b>\$70</b>
<b>COST PER CUBIC YARD</b>	<b>\$142</b>	<b>\$53</b>