Green Remediation:
Examples of Best Management Practices for Core Elements
ADD YOUR OWN

Energy Requirements of the Treatment System

- ►Consider use of optimized passive-energy technologies (with little or no demand for external utility power) for polishing steps that enable all remediation objectives to be met
- ►Look for energy efficient equipment and maintain equipment at peak performance to maximize efficiency
- ►Periodically evaluate and optimize energy efficiency of equipment with high energy demands
- ►Consider installing renewable energy to replace or offset electricity requirements otherwise met by the utility

Air Emissions

- ►Minimize use of heavy equipment requiring high volumes of fuel
- ►Use cleaner fuels and retrofit diesel engines to operate heavy equipment, when possible
- ►Reduce atmospheric release of toxic or priority pollutants
- ►Minimize dust export of contamination

Water Requirements and Impacts on Water Resources

- ►Minimize fresh water consumption and maximize water reuse during daily operations and treatment processes
- ►Reclaim treated water for beneficial use such as irrigation or as part of optimized remedy
- ►Use native vegetation requiring little or no irrigation
- ►Prevent impacts such as nutrient loading on water quality in nearby water bodies

Land and Ecosystem Impacts

- ►Use minimally invasive in situ technologies, where feasible
- ►Use passive energy technologies such as bioremediation and phytoremediation as primary remedies or finishing steps, where possible and effective
- ►Minimize soil and habitat disturbance
- ►Minimize bioavailability of contaminants through adequate contaminant source and plume controls
- ►Reduce noise and lighting disturbance

Material Consumption and Waste Generation

- ►Minimize extraction or destruction of natural resources such as oil and timber
- ►Use technologies designed to minimize waste generation
- ►Re-use materials during treatment processes and daily operations whenever possible
- ►Recycle routine waste and recycle or salvage scrap material during construction and demolition

Long-Term Stewardship Actions

- ►Integrate an adaptive management approach into long-term controls for a site
- ►Install renewable energy systems to power long-term cleanup and future activities on redeveloped land
- ►Use passive sample devices for long-term monitoring, where feasible
- ►Solicit community involvement to increase public acceptance and awareness of long-term activities and restrictions