

Potential Environmental Impacts Checklist for Common WASH Interventions								
Sub-Sector Activities	Atmospheric Environment		Aquatic Environment		Terrestrial Environment		Social Environment	
	Groundwater	Rivers/Streams	Wetlands	Biota	Soils	Cultural Heritage	Competition Conflict	Local Economy
Common								
Land Clearing	Disturbance to recharge areas	Sediment run-off	Filling of wetlands	- Destruction of habitat - Damage to threatened species - Disruption of migration routes - Proliferation of pest species	Erosion	- Loss of artifacts - Damage to significant sites	Displacement of residents. Competition over land access (movement of displaced to new sites.)	Destruction of resources
Construction of roads	Groundwater pollution from road treatments (e.g., oiling)	- Alteration of drainage patterns - Restriction of flow - Contaminated run-off	Filling of wetlands	- Destruction of habitat - Disruption of migration routes - Proliferation of pest species	Erosion	- Loss of artifacts - Damage to significant sites - Unauthorised access	Reduced territorial integrity	Displacement of local employment, Destruction of resources
Vehicle movements	- Exhaust emissions - Dust	Increase extraction of aquatic resources	Increase extraction of aquatic resources	Proliferation of pest species	Erosion	Increase theft due to increased access	Increase accidents leading to conflict	Displacement of local employment, Destruction of resources
Engine driven equipment	Exhaust emissions	Oil spills, impact of disposal of waste oil and parts	Oil spills, impact of disposal of waste oil and parts	Oil spills, impact of disposal of waste oil and parts	Oil spills		Increase accidents leading to conflict	Replacement of labor intensive employment opportunities
Pipeline construction	Dust	- Alteration of drainage patterns - Contaminated run-off	Damage to natural vegetation and aquatic life through trenching for pipelines	- Destruction of habitat - Disruption of migration routes - Proliferation of pest species	Erosion	- Loss of artifacts - Damage to significant sites - Unauthorised access	Reduced territorial integrity	
Packaging materials	Air pollution from burning	Waste packaging accumulating/dumping	Waste packaging accumulating/dumping	Ingestion of waste (e.g., cattle eating cardboard)	Litter/Solid waste	Litter/Solid waste	Disagreement over access to reusable "waste"	Displace locally procured packaging (PVC grain bags for jute bags)
Selection of construction materials	Dust, increased heating	Damage to streams/rivers due to rock/sand mining	Damage to streams/rivers due to rock/sand mining	Deforestation (timber)	Solid waste (plastic), Removal of soil for construction	Destruction of cultural sites	Deplete local resources	
Water Supply								
Source extraction	Depletion of reservoirs	Stream flow reduction	Depletion of reservoirs	Interbasin transfer	Lowering of water table		Access by non traditional users	Replacement of local water suppliers, e.g., dammed supply for water from
On-stream storage	- Reduced streamflow - Contaminated run-off	- Inundation - Drying	- Inundation - Drying	Flooding	Flooding	Flooding	Displacement of normal users	Loss of income sources

Treatment plants	Air pollution (trucks and pumps)	Discharge of effluents	Discharge of effluents	Discharge of effluents	Hazardous chemical effects	Solid waste	Replacement of local water production	
Distribution points		Contaminated run-off	Contaminated run-off	Contaminated run-off	Opportunities for new habitats (in run-off watered areas)	Soil loss/change from water/hogging	Conflict at distribution point	Competition with established sellers
Sanitation								
Latrine construction	Odour nuisance	Discharge of effluents	Discharge of effluents	Discharge of effluents	Opportunities for new habitats	- Contaminated site - Solid waste	Conflict over location of latrines	
Treatment Facilities	- Infectious aerosols - Odour nuisance	Discharge of effluents	Discharge of effluents	Nutrient enrichment	Stimulation of aquatic plants	- Contaminated site - Solid waste	- Loss of artifacts - Damage to significant sites	Conflict over location
Holding tanks	Odour nuisance	Discharge of effluents	Overflow of effluents	Contaminated run-off	Opportunities for new habitats		Conflict over location	
Handwashing points					Opportunities for new habitats		Conflict over location	
Hygiene Promotion Distribution of hygiene kits						Solid waste	Tensions during distribution	Depletion of local workforce
Hygiene Promotion							Change to hygiene traditions	
Solid Waste								
Collection	- Smoke - Odour		Litter	Litter		Litter		Loss of employment from scavenging and compost production
Inclineration	- Smoke - Odour	Groundwater pollution from Improperly disposed ash	Improper waste disposal	Improper waste disposal	Poisoning from runoff and contamination (ash and by products)	Ash disposal	Disagreement over location of Incinerator	Loss of employment from scavenging and compost production
Landfill	Odour nuisance	Leachate	Leachate, use of river/stream areas as land fill	Leachate, Use of wetlands as landfill	Leachate, poisons/haznats in waste	- Contamination - Erosion	- Loss of artifacts - Damage to sacred sites	Loss of employment from scavenging and compost production
Drainage								
Drains	Odour nuisance		Contaminated run-off	Contaminated run-off	Change in habitats due to increased water	Erosion	- Loss of artifacts - Damage to sacred sites	Disagreement over location
Soak Pits	Odour nuisance	Contamination	Contamination from overflows	Contamination	Change in habitats due to increased food supplies'		- Loss of artifacts - Damage to sacred sites	Loss of employment from scavenging and compost production
Vector Control								
Insecticide	Airborne mists	Contamination	Contamination	Contamination	Poisoning of desirable species	Toxic waste	Disagreement over means of treatment	Loss of economically beneficial species