

HANDOUT 1
IDENTIFYING ENVIRONMENTAL IMPACTS

| Project: Agricultural Infrastructure Construction and Operation | | |
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| ORDER | NAME | DESCRIPTION |
| Activity 1 | Site Preparation and Construction | Site selection, mobilization, site preparation/clearing, and construction/excavating. |
| Activity 2 | Establishing roads and utilities | Constructing access ways and establishing power, water, sewer services. |
| Activity 3 | Operations and Maintenance | Operating agricultural facilities, including agro-processing centers (refrigeration, washing, drying, preserving, etc.) |
| Activity 4 | Refurbishment, Decommissioning and Abandonment | Decommissioning facilities |
| INPUTS | | OUTPUTS |
| Activity 1 – Site Preparation and Construction | | |
| Energy: Petroleum-based fuel Electricity Welding/cutting gases | | Air emissions: Dust Vehicle/Generator Exhaust Welding fumes |
| Water: Equipment wash-down water (surface) Concrete mixing water (surface) | | Discharges to water: Contaminated storm water and wash water (silt, oils, etc.) Water from de-watering |
| Materials: Concrete Structural materials (wood, steel) Siding/roofing materials Piping Electrical wiring and boxes Sand and gravel | | Solid wastes: Used or excess materials/supplies/consumables (see inputs) Used or excess chemicals Construction debris Asbestos-containing wastes PCB ballasts, transformers Hazardous materials that were stored Contaminated soils Excess soil, asphalt, concrete |
| Supplies/consumables: Welding rod Lumber (forms) Gloves, rags Construction stakes Silt fence, straw bales Pallets | | Spills and hazards: Potential fuels and chemical spills (see inputs) Potential occupational hazard (excavating/erecting structure) Disturbing buried contaminants (incl. ACM) Human trafficking, STDs, other social impacts from construction camps |
| Chemicals: Curing compounds Form oils Aerosols Concrete additives Paints Oils, lubricants, hydraulic fluid | | Environmental alteration/impairment: Wetland degradation Vegetation removal Habitat alteration and wildlife impacts (access, utilities, siting) Loss of endangered species Drainage impairment Prehistoric/historic alteration Conversion of arable land |
| Other inputs | | Other outputs: Traffic congestion Light and Noise |

| Activity 2 – Establishing Roads and Utilities | |
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| Energy: | Air emissions: |
| Water: | Discharges to water: |
| Materials: | Solid wastes: |
| Supplies/consumables: | Spills and hazards: |
| Chemicals: | Environmental alteration/impairment: |
| Other inputs | Other outputs: |
| Activity 3 – Operations and Maintenance | |
| Energy: | Air emissions: |
| Water: | Discharges to water: |
| Materials: | Solid wastes: |
| Supplies/consumables: | Spills and hazards: |
| Chemicals: | Environmental alteration/impairment: |
| Other inputs | Other outputs: |
| Activity 4 – Refurbishment, Decommissioning and Abandonment | |
| Energy: | Air emissions: |
| Water: | Discharges to water: |
| Materials: | Solid wastes: |
| Supplies/consumables: | Spills and hazards: |
| Chemicals: | Environmental alteration/impairment: |
| Other inputs | Other outputs: |

