## FOR SUBDIVISIONS

## ENVIRONMENTAL MANAGEMENT PLAN

POTENTIAL IMPACT PER PROJECT ACTIVITY PER PROJECT PHASE	MITIGATING MEASURES	RATING/ PERFORMANCE OF MITIGATING MEASURES		
A. Construction Phase  A.1 Site Development including excavation (Clearing and Grubbing), Delivery of Construction Materials and Construction of Roads and Drainage systems, Housing Units/ Commercial Area/ Institutional Area, Water Supply System				
Potential siltation of nearby bodies of water due to soil erosion	<ul> <li>Provision of sediment/silt control measures such as sediment/silt traps, slope stabilization, etc.</li> <li>Stockpile areas shall be positioned away from drainage and runoff routes</li> <li>Temporary silt traps/ponds shall be set-up around soil piles and drainage canal shall be provided to divert runoff water from soil piles and for possible siltation of the existing drainage routes, adjacent agricultural areas and nearby water body. Preservation of natural drainage shall be undertaken and shall not be condemned or if disturbed shall be automatically replaced by constructing or incorporating it in the design of the drainage facility of the subdivision;</li> </ul>	100% compliance with RA 9275		
Degradation of water quality due to contamination from domestic wastewater	Provision of (indicate number) portalets for construction workers  Note: at least one (1) portalet for 60 workers where the number of male workers exceeds 500 (as per IRR- Industrial Hygiene, PD 856 Amending Administrative Order 111 Series of 1991)  Note: at least one (1) portalet for 25 workers where the number of male workers exceeds 100 (as per IRR- Industrial Hygiene, PD 856	100% conformance to DENR standards and compliance with RA 9275		

Generation of dust from site preparation/construction site or from transport of construction/excavated materials by delivery trucks	Amending Administrative Order 111 Series of 1991)  Siphoning and collection of sewage from portalets shall be done twice a week.  Provision of hygienic septic tank or wastewater collection system for workers  Hauling of wastewater from portalets by third party service provider shall be covered by a license/permit from LGU and with valid Discharge Permit for wastewater treatment facility  Maintain wet access roads by water sprinkling along haul roads and active construction areas at least twice a day at a rate of 5 liters per square meter unpaved road especially during dry season  Set project vehicle speed limit to 30kph  Trucks used for transporting construction materials should be fully covered, and shall be thoroughly washed before leaving from the project site to avoid the transfer of mud/dirt in the road	100% no dust generation 100% compliance with RA 8749
Noise pollution from delivery trucks	Use of mufflers and exhaust silencers	100% Noise within standard (NPCC MC 002 Series of 1980)
Generation of noise from heavy equipment	<ul> <li>Use of mufflers and exhaust silencers for construction equipment</li> <li>Provision of appropriate noise mitigating measures (such as construction of fences, enclosure of stationary work areas and equipment, maintenance of equipment, etc.) whenever applicable</li> <li>Limit operation of noise-generating equipment/construction activities during peak hours</li> </ul>	

Generation of spoils such as excess fill materials from grading and excavation activities  Generation of	<ul> <li>Use of spoils as fill materials in lower areas within the project premises</li> <li>Unused spoils shall be hauled by third party hauler with approved permit/clearance from LGU</li> <li>Segregation of wastes and</li> </ul>	100% of excess spoils collected/hauled  100% compliance
construction debris and other solid wastes	provision of temporary waste storage facility/area in compliance with RA 9003 before disposal and hauling by 3 <sup>rd</sup> party accredited/recognized by LGU	with RA 9003
Generation of used oil, paint, batteries, and other hazardous materials  Contamination of soil and groundwater due to hazardous wastes (HW) generation, leakage of oil & grease from vehicles and heavy equipment operation	<ul> <li>Proper segregation and containment of HW in safe, secured &amp; well-ventilated storage areas with proper labelling/placards in accordance with prescribed labels/symbols per HW material classification under DENR AO 2004-36</li> <li>Collection of hazardous wastes by DENR-accredited 3rd party service provider</li> <li>Preventive maintenance of vehicles and heavy equipment with proper handling of fuels, oils &amp; lubricants to prevent oil spills</li> </ul>	100% compliance with RA 6969
B. Operational Phase		
Generation of domestic wastewater	Provision of adequate Wastewater Treatment Facility (Sewage Treatment Plant) to treat the collected wastewater, whichever is applicable:  Hygienic septic tank (for 212 occupants or less – DILG MC 2019-62) with regular desludging by third party contractor (the contractor must have a valid discharge permit of its treatment	100% conformance to effluent standards  100% conformance to DENR standards and compliance with RA 9275
	facility)  Wastewater treatment facility (for more than 212 occupants – DILG MC 2019-62)  Note: For 98L per person per day	

Degradation of air quality due to use of generator set (if any)	water consumption; 80% will become wastewater – hence for 300 persons; at least 23.52 cubic meter per day WTF capacity shall be installed and operated  • Regular maintenance of pollution control equipment	100% compliance with RA 8749
Generation of domestic wastes	<ul> <li>Construction of centralized Material Recovery Facility (MRF) provided with properly-labelled waste receptacles</li> <li>Hauling of domestic solid waste by LGU or third party hauler with permit/clearance from LGU for proper disposal</li> </ul>	100% compliance with RA 9003
Generation of hazardous wastes	<ul> <li>Proper segregation and containment of HW in safe, secured &amp; well-ventilated storage areas with proper labelling/placards in accordance with prescribed labels/symbols</li> <li>Collection of hazardous wastes by DENR-accredited 3rd party service provider</li> </ul>	100% compliance with RA 6969
Generation of effluents due to wastewater generation	<ul> <li>Monitoring of the following significant effluent quality parameters (based on PSIC Code 681):</li> <li>☑ BOD</li> <li>☑ Fecal Coliform</li> <li>☑ Ammonia</li> <li>☑ Nitrate</li> <li>☑ Phosphate</li> <li>☑ Oil and Grease</li> <li>☑ Surfactants</li> </ul>	100% compliance with DENR effluent standards (RA 9275); (i.e.DAO 2016-08 and DAO 2021-19)