

Matrix 3.0 Environmental Management Plan

Impacts	Mitigation/Enhancement	Method of Implementation	Schedule of Implementation	Responsible Party	Cost of Mitigation/Enhancement	Guarantee
1. Generation of excessive TTP	<ul style="list-style-type: none"> - Regular sprinkling of bare earth surfaces - Covering of construction materials(aggregates) during delivery and storage - Covered stockpiling of excavated soils to avert airborne TTP, and erosion causing siltation during rains 	<ul style="list-style-type: none"> - Use water tankers and equipped with spraying pipes 	<ul style="list-style-type: none"> - Throughout construction phase 	<ul style="list-style-type: none"> - construction contractor 	P20,000.00	<ul style="list-style-type: none"> - Incorporation into bid documents and construction contracts
2. Generation of excessive TSS, causing siltation and increased turbidity of surface waters	<ul style="list-style-type: none"> - Construction of temporary sediment traps and use of temporary drainage and diversionary canals to direct storm run-off 	<ul style="list-style-type: none"> - design and construct such traps and canals 	<ul style="list-style-type: none"> - throughout construction phase 	<ul style="list-style-type: none"> - construction contractor 	P20,000.00	<ul style="list-style-type: none"> - Incorporation into bid documents and construction contracts
1. Noise level concentration	<ul style="list-style-type: none"> - Limit construction work during daytime, esp. the use of heavy equipment. - Provision of air mufflers for construction workers - Regular maintenance of construction equipment. - Fencing of construction area to prevent entry of 	<ul style="list-style-type: none"> -Inspection and regular maintenance of construction equipment 	<ul style="list-style-type: none"> - throughout construction phase 	<ul style="list-style-type: none"> - construction contractor 	P20,000.00	<ul style="list-style-type: none"> -Incorporation into bid documents and construction contracts

	public.					
2. Sewage (solid and liquid) generation	<ul style="list-style-type: none"> - Provision for portable toilets for workers and site visitors. - Segregation of oil grease and petroleum contaminated waste and washing of construction heavy equipment 	<ul style="list-style-type: none"> - Procure and install portable toilets - Establish segregated washing area for construction heavy equipment 	- throughout construction phase	- construction contractor	P20,000.00	- Incorporation into bid documents and construction contracts
3. Impact on terrestrial ecology	<ul style="list-style-type: none"> - Landscaping and revegetation 	<ul style="list-style-type: none"> - Establish nursery and provide a landscape plan 	- Post construction	-construction contractor	P15,000.00	-Incorporation into bid documents and const. contracts
4. Increase in solid waste generation	<ul style="list-style-type: none"> - daily sweeping, collection disposal of construction debris to designated municipal dumpsite 	<ul style="list-style-type: none"> -Design and implement and solid waste management plan for the project (R.A 9003) 	- Pre-construction up to construction phase	-construction contractor	P15,000.00	-Incorporation into bid documents and construction contracts
5. Impact on health	<ul style="list-style-type: none"> - Require construction to wear safety equipment while in the project site - Fence of construction area from the public 	<ul style="list-style-type: none"> - Design a const. site safety plan and implement and with supervision from LGU-ME 	- Pre-construction up to construction phase	-construction contractor	P20,000.00	-Incorporation into bid documents and construction contracts
6. Increased vehicular traffic	<ul style="list-style-type: none"> - Assign construction traffic aides to guide vehicular traffic coming into/from the 	<ul style="list-style-type: none"> - Design and implement a Traffic 	- Pre-construction up to construction phase	-construction contractor -PNP	P20,000.00	-Incorporation into bid documents and

around construction site	site - Use traffic warning signs and barriers for diggings.	Management Plan				construction contracts
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