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1. Air Pollution Abatement Measure

During Construction activities, dust emission from dusty material occurs. The effective mean to ease the problem is by reducing the exposed soil area, together with the application of water spraying with Spray Sprinkler System.



Photo 1. Provision of Spray Sprinkler System at main access for dust suspension



Photo 2. Frequent water spraying on soil and cover the exposed soil slope

All plant and equipment powered by diesel should be used with Ultra-low-sulphur diesel (ULSD) when operating on site. The sulphur content of the ULSD samples will be tested by a HOKLAS accredited laboratory using internationally recognized testing method.



Photo 3. ULSD analysis was conducted and the results are complied with the contract requirements

Monitoring of air quality (Total suspended Particulate) and dark smoke emission from plants were conducted in weekly basis.



Photo 4. Black smoke monitoring was conducted by using Ringelman chart continuously for 30 seconds



Photo 5. Monitoring of Total Suspended Particulate (TSP)

All dump trucks entering or leaving the Site shall be provided with mechanical covers in good service condition in accordance with the specification requirements.



Photo 6. Cover the waste container with canvas before leaving

To avoid the dust generation on public road, an automatic wheel washing facility with its wheel wash water recirculation system was provided.



Photo7. Automatic wheel washing facility was provided on site

2. Waste Water Pollution Abatement Measure

The generated wastewater can be treated by on-site water treatment facilities, in compliance with the conditions specified in the water discharge license. Monthly visual checking of waster water was conducted with a suspended solid reference solution (note with known concentration) from an accredited testing laboratory. Also wastewater anlysis by accredited testing laboratory was conducted monthly to complice with license requirement.



Photo 8. Wastewater treatment system (Aqua-Sed) was provided on site



Photo 9. Monthly visual checking and analysis

3. Noise Control and Measurement

We take all necessary measures to ensure that the operation of all mechanical equipment and construction processes on site will not cause noise nuisance to 2 Noise Sensitive Receivers (NSR). So that, we provided an effective noise barrier and hammer shield to reduce noise impact during percussive piling. 4-5 dB(A) was reduced by using the hammer shield.



Photo 10. Provision of noise barrier and hammer shield during piling

A Quality Powered Mechanical Equipment (QPME) with the label issued by EPD was used on site to reduce noise impact.



Photo 11. Provision of Quality Powered Mechanical Equipment (QPME)

Impact Noise Monitoring at two identified noise sensitive receiver (NSR) was conducted in weekly basis and no exceedance was occurred.

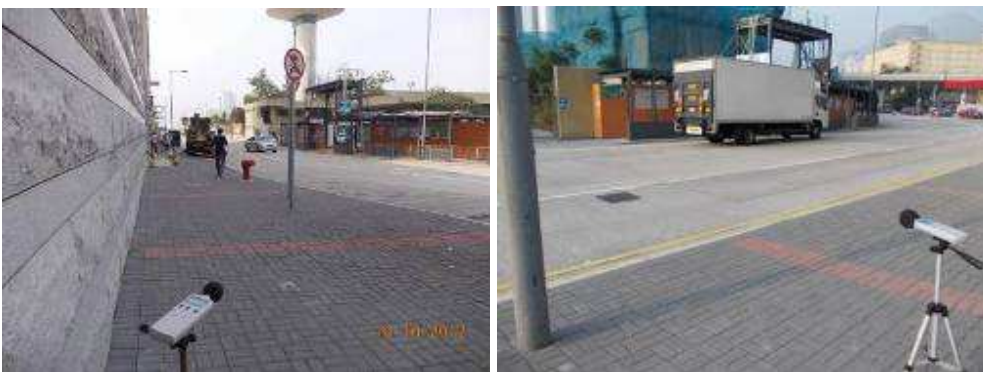


Photo 12. Impact Noise Monitoring at 2 NSR

Construction Noise Permit (CNP) was approved by EPD in restricted working hour so that a Color Code System was setup for (CNP) which helps to control which PMEs should be on and which should not. In order to adopt Color Code System effectively, color code label was

attached on CNP permitted PME, also provided detail information of PME which included color photo, quantity and name on notice board to remind workers. Additional trainings of Color code system were provided to management staffs, safety guard and workers; Paul Y's supervision staffs will keep track of the PMEs used in restricted hour with checklist.



Photo 13. Notice board of detail information of CNP



Photo 14. PMEs with color code label

4. Waste Management

Weight Bridge with CCTV system was provided on site to control dump truck overloading and record the vehicle no., weight and material of every dump truck.



Photo 15. Provision of Weight Bridge with CCTV system

Sorting facilities including inert and non-inert waste (metal, plastic and paper) collection buckets was provided at designated locations for waste collection. “Plastic Resources Acquisition Partnership Scheme” which organized by Yan Oi Tong Eco-Park Plastic Resources Recycling Centre was joined since Jan 2012. Plastic waste was sorting out on site and sent to Eco-Park for recycling. The plastic recycle was increased since Jan 2012. We purchased Yan Oi Tong PET Plastic Ball Pen which made from recycled plastic waste; part of plastic waste was from our site.

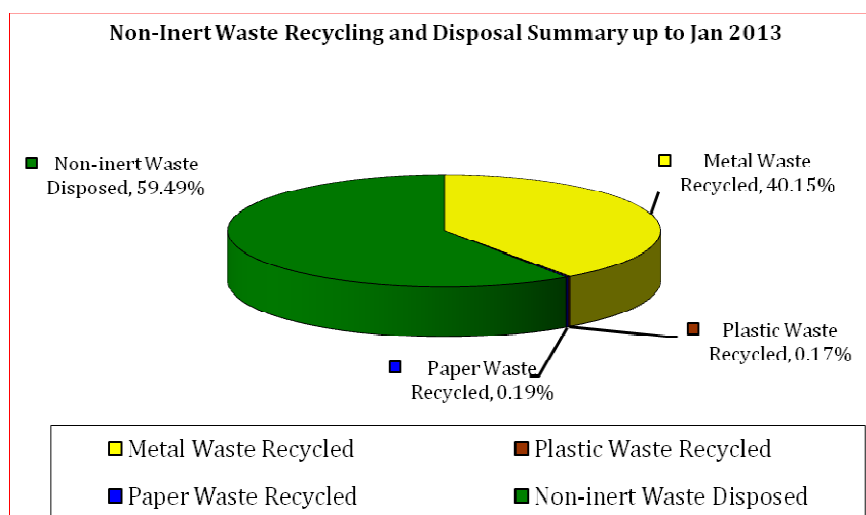


Figure 2. Non-inert waste recycling and disposal summary

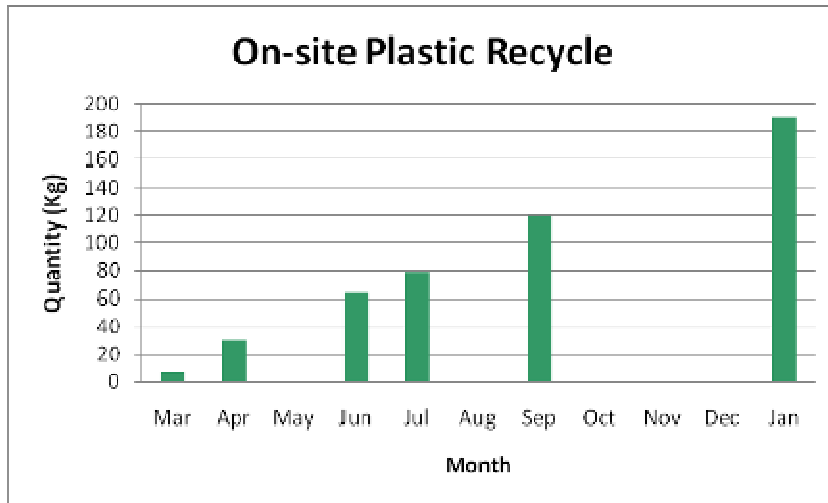


Figure 3. Summary of on-site plastic recycle



Photo 16. Plastic was sent to Yan Oi Tong EcoPark Plastic Resources Recycling Centre



Photo 17. Yan Oi Tong PET Plastic Ball Pen

5. Green Procurement

All timber used on site was Forest Steward Council (FSC) certified timber or reused timber from other construction site.



Photo 18. Forest Steward Council (FSC) certified timber

6. Pest Control

Planting Basil near potential mosquito breeding area can prevent mosquito from getting near the stagnant water. Basil emits smell which mosquito will not approach and acts as a repellent of mosquito. Planting Basil in construction site can also greening environment and clean the air with its Clove flavor smell.



Photo 20. Mosquito Repellent Plant – Basil

7. Utilizing Renewable Energy

Mosquito killing device with solar energy panels was provided on site for pest control.



Photo 19. Mosquito killing device with solar energy panels

Warm water was provided with solar energy heating system during winter.



Photo 20. Solar energy heating system

8. Environmental Promotion Activity

In order to encourage worker environmental performance, awarded The Best Environmental Worker Award monthly.



Photo 21. The Best Environmental Worker Award

Environmental Promotion Video for the worker was provided at the rest area to enhance worker environmental awareness.



Photo 22. Environmental Promotion Video at the rest area

END