

OSCAR Bioenergy Joint Venture

Contract No. EP/SP/61/10
Organic Waste Treatment Facilities
Phase 1:
Non-Compliance Investigation Report

27 September 2016

Environmental Resources Management

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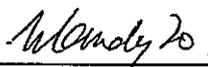
INVESTIGATION REPORT

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Reference 0279222

For and on behalf of ERM-Hong Kong, Limited	
Approved by:	Frank Wan
Signed:	
Position:	Partner
Certified by:	 (Environmental Team Leader - Mandy To)
Certified by:	 (Independent Environmental Checker - Helen Cochrane)
Date:	27 September 2016

Investigation Report of Environmental Non-Compliance

Date	25 Aug 2016
Time	09:45 a.m.
Monitoring Location	Temporary waste water treatment facilities at P1 of the Site (Detailed location and photos shown on the marked drawing DR-PSC-00-0CN-1005 attached as Appendix A)
Weather	Fine
Parameter	Water (WPCO Effluent Discharge License attached as Appendix B)
Incident Description	<ol style="list-style-type: none"> 1. Po Shing is OSCAR's civil work subcontractor who is responsible to construct, operate and maintain the site waste water treatment facilities. 2. In mid-August 2016, OSCAR requested Po Shing to replace the honeycomb filter of a sedimentation tank in order to ensure the site waste water treatment facilities can maintain its performance. 3. On 25 August 2016, Po Shing assigned a worker to carry out some preparation works for filter replacement by using some water to clean the sedimentation tank (Cleaning procedure attached as Appendix C). 4. During the cleaning process, the labour mistakenly disconnected the piping between the sedimentation tank and the subsequent waste water treatment tank. 5. The washing water flowed out through the overflow pipe to the ground. 6. Some of excess washing water eventually split into the Nullah for about 5 minutes. 7. Sand bag were provided along the edge of Nullah since March 2016 to avoid surface runoff entering the Nullah from P1 (Photos attached as Appendix D). During the incident period, the sand bags were still placed there.
Action Taken / Action to be Taken	<ol style="list-style-type: none"> 1. Upon becoming aware of this incident, OSCAR immediately stopped the cleansing process and all operations relating to the waste water treatment tank in the morning of 25 August 2016. 2. Two water samples had been taken under the supervision of EPD's and ER's representatives. The first water sample was taken at the discharge point on 25 August

	<p>2016 and failed to pass the standards stipulated in the WPCO Effluent Discharge License. A second water sample was taken on 9 September 2016 which complied with the standards in the WPCO Effluent Discharge License. (The laboratory testing reports were attached as Appendix E).</p> <ol style="list-style-type: none"> 3. During the period where the wastewater treatment plant was not in operation, effluent was firstly collected in a sump pit for participation and soak away before pumping to the sedimentation tank. 4. Cleaning process will be resumed once training is provided. During cleaning, all works will be carried out under close supervision of the assigned competent persons. 5. Contractor will use concrete to properly cover all the sand bags and stabilize the sands dropped from broken sand bags to avoid the sands washed into the Nullah by surface runoff.
<p>Remedial Works and Follow-up Actions</p>	<p>After the event, OSCAR immediately enforce the following actions to prevent the recurrence of the similar incident:</p> <ol style="list-style-type: none"> 1. In-House Rule A set of in-house rules to govern the procedures of operation and maintenance for the waste water treatment system will be prepared and strictly imposed on site, which include the designation of competent person and the correct method of cleaning the tanks. 2. Training Training has been provided to the site personnel for the operation and maintenance of the waste water treatment system, particularly during maintenance and dismantling any part of the waste water treatment system (Training record is attached as Appendix F). 3. Supervision OSCAR will assign site supervisor to monitor future filter replacement works to ensure that all washing water will be retained in the waste water treatment tank and treated before discharge.

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	Operation of the wastewater treatment plant will be resumed upon notification to the Independent Consultant and the Engineer Representative.
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Prepared by: Leah Pak, ET representative

Date 28-September-2016