

Appendix F – Site Audit Findings and Corrective Actions

Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. During the reporting period, site inspections were carried out on 7, 14, 21 and 30 September 2016 and 5, 12, 19 and 28 October 2016 and 2, 9, 16, 23 and 29 November 2016. Particular observations during the site inspections are described below:

Date of Audit	Observations	Actions Taken by Contractor / Recommendation	Date of Observations Closed
30 Aug 2016	<ol style="list-style-type: none"> 1. It was observed that wastewater treatment plant was overloaded at PR9. 2. No drip tray was provided for chemical containers at Shaft 3. 3. Concrete waste was observed at Shaft 3. 4. No drip tray was provided for chemical containers at N1. 5. Over 20 bags of cement were not entirely covered with impervious sheets at N1. 6. Stagnant water was observed at N1 adjacent to HY/2011/09 site. 7. Stagnant water was observed inside the building at N1. 8. Rubbish was accumulated at N1. 	<ol style="list-style-type: none"> 1. The wastewater treatment facility was functioned properly at PR9. 2. The chemical containers were removed at Shaft 3. 3. The concrete waste was removed by contractor at Shaft 3. 4. The chemical container was removed at N1. 5. The bags of cement were covered properly at N1. 6. The stagnant water was removed by a pump at N1. 7. The stagnant water was removed by contractor at N1. 8. The rubbish was removed at N1. 	7 Sep 2016

7 Sep 2016	<ol style="list-style-type: none"> 1. Gaps were observed between silt curtains at Portion X. 2. Abandon blue hoses were observed at PR9. 3. A gap was found between the water barrier and construction materials at S7. 4. A gap was found below the earth bund at S7. 5. Oil leakages were observed at Shaft 2. 6. No water spraying was provided for concrete breaking activities at Shaft 2. 7. Stagnant water was found inside a H-beam at Shaft 2. 8. No drip tray was provided for oil drums at Shaft 2. 9. Stagnant water was observed at Shaft 2. 10. Stagnant water was observed at West Portal. 11. Rubbish and plastic containers were scattered inside the West Portal. 12. Rubbish was scattered inside the West Portal. 13. Empty chemical drums were found inside the West Portal. 14. More than 20 bags of cement were not covered inside the West Portal. 15. No drip tray was provided for oil drums inside the West Portal. 	<ol style="list-style-type: none"> 1. The silt curtains were maintained by contractor at Portion X. 2. Abandon blue hoses were removed by the Contractor at PR9. 3. Sand bags were placed to seal the gap between the water barrier and construction materials at S7. 4. The gap under earth bund was sealed by the Contractor at S7. 5. The oil leakages was cleaned up by the Contractor at Shaft 2. 6. Water spraying was provided for the concrete breaking activities at Shaft 2. 7. The stagnant water was removed from the H-beam at Shaft 2. 8. The oil drums were removed from Shaft 2. 9. The stagnant water was removed from Shaft 2. 10. The stagnant water was removed from West Portal. 11. The rubbish and plastic containers were removed from West Portal. 12. The rubbish was removed from West Portal. 13. The empty chemical drums were removed from West Portal. 14. Properly cover was provided for cement bags at West Portal. 15. The oil drums were removed from West Portal. 	14 Sep 2016
14 Sep 2016	<ol style="list-style-type: none"> 1. Gaps were observed between silt curtains at Portion X. 2. General waste was not stored in a container at S11. 3. More than 20 bags of cement were not covered at HMA. 4. Stagnant water was found at HMA. 5. Stagnant water was found at HMA. 6. Gaps of earth bund were found at S11. 7. No drip tray was provided for oil drums and oil leakage was found at S15. 8. No labels were not attached on the chemical containers at S15. 	<ol style="list-style-type: none"> 1. The silt curtains were maintained by the Contractor at Portion X. 2. The general waste was removed by the Contractor at S11. 3. The cement bags were removed from HMA. 4. The stagnant water was removed from HMA. 5. The stagnant water was removed from HMA. 6. Earth bund was provided by contractor at S11. 7. The stagnant water and chemical containers had been removed at 15. 8. Label was provided by contactor on the chemical storage area at S15. 	21 Sep 2016

21 Sep 2016	<ol style="list-style-type: none"> 1. Gaps were observed between silt curtains at Portion X. 2. No water spraying was provided for the concrete breaking activities at S11. 3. Temporary hoarding were not completed along the East Coast Road. 4. Stagnant water was observed at HMA. 5. Blue hoses for discharging treated wastewater were not placed on ground and not at the discharge point at PR9. 6. No earth bund was provided next to seafront at S7. 7. No drip tray was provided for a chemical container at S7. 8. No drip tray was provided for oil drums at S15. 9. No drip tray was provided for chemical containers at Ventilation Building. 	<ol style="list-style-type: none"> 1. The silt curtains were maintained by the Contractor at Portion X. 2. Water spraying was provided for the concrete breaking activities at s11. 3. Temporary hoarding was installed completely along the East Coast Road. 4. The stagnant water has been removed. 5. The location of blue hoses were arranged and treated water was discharged at the discharge point at PR9. 6. Earth bund was provided next to seafront at S7. 7. The chemical container was removed at S7. 8. Drip tray was provided for the oil drums at S15. 9. The chemical containers were removed at Ventilation Building. 	30 Sep 2016
30 Sep 2016	<ol style="list-style-type: none"> 1. Silt curtain with gap was observed at Portion X. 2. Stagnant water was observed at Shaft 3. 3. No drip tray was provided for a chemical container at Shaft 3. 4. Stagnant water was observed at S8. 5. Waste accumulation was observed at Shaft 3. 6. The drain hole of drip tray was opened at Shaft 3. 	<ol style="list-style-type: none"> 1. The silt curtains were maintained by the Contractor at Portion X. 2. The stagnant water was removed by the Contractor at Shaft 3. 3. The chemical container was removed by the Contractor at Shaft 3. 4. The stagnant water in I-beam was removed by the Contractor at Shaft 3. 5. The stagnant water was removed by the Contractor at S8. 6. The accumulation waste was removed from Shaft 3. 7. The drain hole of drip tray was blocked by the Contractor at Shaft 3. 	5 Oct 2016

5 Oct 2016	<ol style="list-style-type: none"> 1. Gaps were observed between silt curtains at Portion X. 2. No drip trays were provided for oil drums at S11. 3. Rubbish was scattered on the ground at C&C. 4. No drip tray was provided for oil drums at HMA. 5. The waste container was full at S11. 6. No drip tray was provided for oil drums at C&C. 7. Stagnant water was found inside a pit at HMA. 8. Rubbish was found at HMA. 9. No sand bags were provided along the along the haul road at S7 to avoid washing away of sand/silt into the sea. 10. Stagnant water pool was observed at S8. 11. Wheel wash water was brought by vehicles onto a public road and flew into a gully at S15. 12. Stagnant water was found inside a H beam at S23. 13. An oil stain was found at S23. 14. A rubbish bin without cover next to the sea shore was full and rubbish was accumulated next the rubbish bin at WA6. 	<ol style="list-style-type: none"> 1. The silt curtains were maintained by the Contractor at Portion X. 2. Some oil drums were stored inside drip trays and some oil drums were removed by the Contractor from S11. 3. The rubbish was removed by the Contractor from C&C. 4. The oil drums were removed by the Contractor from HMA. 5. The accumulated waste was removed by the Contractor from S11. 6. The oil drums were removed by the Contractor from C&C. 7. The stagnant water was removed from the pit at HMA. 8. The rubbish was removed by the Contractor from HMA. 9. Sand bags were placed along the sea front at S7. 10. The stagnant water pool was removed by the Contractor from S8. 11. The wheel wash water was cleaned by the Contractor at S15. 12. The stagnant water was removed from the H beam at S23. 13. The oil stain was cleaned up at S23. 14. The accumulation waste was removed from the rubbish bin at WA6. 	12 Oct 2016
12 Oct 2016	<ol style="list-style-type: none"> 1. The drain hole of drip tray was opened at HMA. 2. General refuse were observed to store inside a construction waste container at HMA. 3. Oil drums were found without drip tray at S25. 4. Chemical containers were observed without drip tray at N30. 5. Treated wastewater was discharged at gravels at PR9. 6. One of the wastewater treatment plant was not operated at PR9. The capacity of the wastewater treatment system for this area might not be sufficient. 7. No earth bund was provided along the sea front at S7. 8. No earth bund was provided by the Contractor on the deck of vessel at S7. 9. No drip tray was provided for chemical containers at S8. 10. No drip tray was provided for oil drums at S8. 11. Steel waste were observed at S7. 	<ol style="list-style-type: none"> 1. The drain hole of drip tray was sealed at HMA. 2. The general refuse waste was separated from the construction waste at HMA. 3. The oil drums were removed by contractor at S25. 4. Chemical containers were removed from N30. 5. Treated wastewater was connected to two additional sedimentation tanks and then discharged into drains at PR9. 6. The wastewater treatment plant was resumed operation at PR9. 7. Sand bags were placed next to the sea front at S7. 8. Sand bags were provided on the deck of vessel at S7. 9. The chemical containers were removed by contractor at S8. 10. A drip tray was provided by contractor at S8. 11. The steel waste was removed at S7. 	19 Oct 2016

	<p>12. Cement mixing station was observed without 3-sides enclosed at S15. However, the cement mixing station was not in operation.</p> <p>13. No drip tray was observed for oil drums at S15.</p> <p>14. Stagnant water was found inside a drip tray at S15.</p> <p>15. Accumulated waste was observed at WA6.</p>	<p>12. The cement mixing station was removed at S15.</p> <p>13. A drip tray was provided for oil drums at S15.</p> <p>14. Stagnant water was cleaned up by contractor at S15.</p> <p>15. The waste was removed from WA6.</p>	
19 Oct 2016	<p>1. Gap of silt curtain was observed at Portion X.</p> <p>2. The waste container was full at S11.</p> <p>3. No drip tray was observed for chemical containers at C&C.</p> <p>4. Groundwater was not pumped into sedimentation tanks prior to discharge at PR9.</p> <p>5. Wastewater treatment plant was malfunction at PR9.</p> <p>6. Stagnant water was observed inside the abandon oil drums at S7.</p> <p>7. Wastewater overflow from a waste water treatment plant was observed at N1.</p> <p>8. General waste was scattered next to a waste container at N1.</p> <p>9. Cement mixing plant was observed without 3-sides cover at West Portal. However, the cement mixing station was not in operation.</p> <p>10. No cover was provided for more than 20 bags of cement at West Portal.</p> <p>11. General waste was accumulated on the ground at West Portal.</p>	<p>1. The silt curtains were maintained and no gaps between sections of silt curtain were found at Portion X.</p> <p>2. The accumulated waste was removed by the Contractor from S11.</p> <p>3. The chemical containers were removed from C&C.</p> <p>4. Groundwater was pumped into sedimentation tanks prior to discharge. at PR9.</p> <p>5. The wastewater treatment plant was immediately stopped for repair and was resumed in operation at PR9.</p> <p>6. The stagnant water was removed at S7.</p> <p>7. The wastewater treatment plant was fixed and no overflow from the plant was observed at N1.</p> <p>8. General refuse next to the waste container was removed at N1.</p> <p>9. The cement mixing plant was removed at West Portal.</p> <p>10. The bags of cement were covered entirely at West Portal.</p> <p>11. The general waste was removed on the ground West Portal.</p>	28 Oct 2016
28 Oct 2016	<p>1. No drip tray was provided for chemical containers at Shaft 2.</p> <p>2. Stagnant water was observed at Shaft 2.</p> <p>3. No drip tray was provided for chemical containers at S23.</p> <p>4. Checklists of wastewater treatment plant were observed not up-to-date at S23.</p> <p>5. Damaged cover of truck was observed at S23.</p> <p>6. Accumulated waste was observed at S8</p> <p>7. No water spray was observed at S8.</p>	<p>1. The chemical containers were removed from Shaft 2.</p> <p>2. The Stagnant water was cleaned up at Shaft 2.</p> <p>3. Most of the chemical containers were removed and the remaining chemical containers were placed within drip tray at S23.</p> <p>4. The checklists of wastewater treatment plant were updated at S23.</p> <p>8. The damaged cover of truck were repaired at S23.</p> <p>9. The accumulated waste was removed at S8.</p> <p>5. Water spraying was provided for dust suppression at S8.</p>	2 Nov 2016

2 Nov 2016	1. Gap of slit curtains were observed at Portion X.	1. Silt curtains were maintained at Portion X.	29 Nov 2016
	2. Seawater leakage from blue hoses was observed at PR9.	2. The blue hoses were replaced and seawater leakage from blue hoses was stopped at PR9.	16 Nov 2016
	3. No drip tray was observed for chemical containers on a barge at Portion X. 4. Stagnant water was observed at S25. 5. No drip tray was provided for chemical drums at S11. 6. Blue hoses were not properly placed at S23. 7. Treated water was accumulated into a pit within the construction area at S25. 8. Blue hoses were not properly connected at the outlet of wastewater treatment plant of S25. 9. Emission of black smoke from an excavator was observed at S25. 10. Accumulated waste was observed at WA6.	3. The chemical containers was removed on the barge at Portion X. 4. The stagnant water was removed at S25. 5. The chemicals drums were removed at S11. 6. The blue hoses were placed properly at S23. 7. The water from the pit was treated and discharged into appropriate discharge point at S25. 8. The blue hoses were properly connected at S25. 9. The excavator was repaired to avoid black smoke emission at S25. 10. The accumulated waste was removed at WA6.	9 Nov 2016
9 Nov 2016	1. No drip tray was provided for chemical drums at S11. 2. Concrete was disposed of on the construction area at S11. 3. Mud was observed at the edge of a barge of Portion X. 4. No drip tray was provided for oil drums at PR9. 5. Waste was observed on the ground at S25. 6. No drip tray was provided for chemical containers at S8. 7. Refuse was accumulated in a skip at S15. 8. No drip tray was provided for chemical drums at S25. 9. Source of effluent was not marked on the blue hoses at S25. 10. Rubbish was scattered on the ground at WA6. 11. Waste was observed at West Portal. 12. No drip tray was provided for chemical drums at West Portal.	1. The chemical drums were removed from S11. 2. The concrete was cleaned up at S11. 3. The mud at the edge of a barge was removed from Portion X. 4. The oil drums were removed from PR9. 5. The waste on the ground was removed from S25. 6. The chemical containers were removed from S8. 7. The refuse accumulated in the skip was removed from S15. 8. The chemical drums were removed from S25. 9. The source of effluent was marked on the blue hoses at S25. 10. The scattered rubbish on the ground was removed from WA6. 11. The waste was removed from West Portal. 12. The chemical drums were removed from West Portal.	16 Nov 2016

16 Nov 2016	<ol style="list-style-type: none"> 1. Stagnant water was observed at Scenic Hill Tunnel. 2. More than 20 bags of cement were not covered at HMA. 3. No drip tray was provided for a chemical drum at HMA. 	<ol style="list-style-type: none"> 1. The stagnant water was removed from Scenic Hill Tunnel. 2. The cement bags were removed from HMA. 3. The chemical drum was removed from HMA. 	23 Nov 2016
	<ol style="list-style-type: none"> 4. Cover of truck was not enclosed at S15. 	<ol style="list-style-type: none"> 4. The truck was covered properly at S15. 	29 Nov 2016
	<ol style="list-style-type: none"> 5. Chemical waste was abandoned inside a general refuse skip at S9. 6. No drip tray was provided for chemical containers at S9. 7. Rubbish was not placed in enclosed bins at S15. 8. No drip tray was provided for chemical drums at S25. 9. No drip tray was provided for a generator at S25. 	<ol style="list-style-type: none"> 5. The chemical waste was removed from the general refuse skip at S9. 6. The chemical containers were removed from S9. 7. The rubbish was removed from S15. 8. The chemical drums were removed from S25. 9. The generator was removed from S25. 	23 Nov 2016
23 Nov 2016	<ol style="list-style-type: none"> 1. Muddy water was observed due to barge movement for at Portion X. 2. No designated pit was provided for washing of concrete truck at Portion X. 3. No drip tray was provided for chemical containers at S11. 4. Waste was accumulated at S11. 5. No drip tray was provided for a chemical drum at S23. 6. Waste was accumulated on the ground at VB. 7. No drip tray was provided for a chemical drum at VB. 8. No drip tray was provided for chemical containers at N1. 	<ol style="list-style-type: none"> 1. Silt curtains were provided around work area of barge movement at Portion X. 2. A designated pit was provided for washing concrete truck at Portion X. 3. The chemical containers were removed at S111. 4. The waste was removed from S11. 5. The chemical drum was removed at S23. 6. The waste on the ground was removed at VB. 7. The chemical drum was removed at VB. 8. The chemical containers were removed at N1. 	29 Nov 2016
29 Nov 2016	<ol style="list-style-type: none"> 1. Drip tray was not provided for chemical containers at N26. 2. Stagnant water was observed at N26. 3. Stagnant water was observed at A2. 4. Water leakage from wastewater treatment plant was observed at N26. 5. No proper cover for the stored cement bags were observed at N26. 6. No proper cover for dusty material was observed at N20. 	<p><u>The Contractor was recommended to:</u></p> <ol style="list-style-type: none"> 1. Provide drip tray for the chemical containers at N26. 2. Remove stagnant water promptly at N26. 3. Remove stagnant water promptly at A2. 4. Repair wastewater treatment plant at N26. 5. Cover cement bags properly at N26. 6. Cover dusty materials at N20. 	Follow-up actions for the observations issued for the last weekly site inspection of the reporting month will be inspected during the next site inspections

The Contractor has rectified the observations as identified during environmental site inspections.