

# Kembla Grange Recycling Pty Ltd

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29 November 2019

Compliance Team  
Department of Planning, Industry and Environment  
By email: [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au)

Att: Katrina O'Reilly

**RE: Part C Condition C9 SSD 5300 in relation to  
50 Wyllie Road Kembla Grange.**

I refer to Part C Condition C9 of State Significant Development 5300 for the Kembla Grange Resource Recovery Facility (**Consent**) and the "Independent Environmental Audit Report Kembla Grange Recycling Facility – v5 – 27 November 2019" completed by 7<sup>th</sup> Sense Sustainability Consultants Pty Ltd (**IEA**).

We attach the report for the information of the Department and provide a response to the matters raised in the report in the following pages.

Kembla Grange Recycling Pty Ltd (**KGRPL**) is committed to continuous improvement of environmental management and operation of the facility and has been proactive in addressing matters raised by the auditor.

In the interest of ensuring that the benefits of employing corrective and other actions are realised over the life of the development and address these matters on an ongoing basis KGRPL plans to continue to work towards employing best practices on site.

KGRPL have appointed a consultant to review the site's Operational Environmental Management Plans and to review the plans in line with the Department of Planning Industry and Environment (Department) draft guidelines and the Department. Arcadis have been in contact with the Department to commence discussion concerning amendments and updates to the plans.

Should you have any questions in relation to the above and or the attached report please contact Ros Dent on 0416 685 61.

Yours sincerely



Ros Dent  
Environmental Manager  
On behalf of Kembla Grange Recycling Pty Ltd

## KGRPPL Response

Non-compliance	Details	Recommended action	KGRPPL Response
<b>NOC 01 - Asbestos management</b>			
<p>s7.4 &amp; 7.4 - Asbestos Management Plan requires ACM or asbestos stockpiles to be stored in dedicated on-site storage areas and sign posted with content and hazard level.</p>	<p>Large ACM stockpile uncovered not banded and subject to erosion of fines and runoff in drainage lines during heavy rain.</p> <p>Smaller ACM stockpile in nearby in storage bay is not labelled or sign posted or level of hazard indicated.</p>	<p>A dedicated area for the temporary storage of large stockpiles of ACM should be identified and agreed with DPIE and EPA and the appropriate environmental safeguards and control infrastructure put in place such as erosion/sediment control and delineated surface water drainage.</p>	<p>KGRPPL does not intend to store ACM at the facility. KGRPPL is liaising with NSW EPA in relation to the stockpile. The extent and nature of contamination is currently the subject of an in-situ assessment to determine if asbestos is present in the stockpile. The fate of the material in the stockpile will be determined by the assessment and management including removal of the material will be according to the results of the assessment and will commence in December 2019 subject to EPA approval.</p> <p>The stockpile subject to the in-situ assessment has a sprinkler system located along the length of the stockpile. Sections of the stockpile previously inspected and where suspected asbestos has been found have been relocated to separate storage area which is covered.</p> <p>A stockpile plan is maintained by the Site Supervisor and is available on the staff notice board. Staff are aware of the locations of all materials stockpiled on site.</p> <p>Unexpected finds of asbestos are stored in asbestos bags and placed in a dedicated bin. The bin is lined and located within a dedicated area within the shed which is signposted.</p>

Non-compliance	Details	Recommended action	KGRPL Response
<b>NOC 02 – Site establishment - Asbestos management</b>			
<p>s7.1(d) Asbestos Management Plan requires the control of dust and runoff associated with ACM / asbestos.</p>	<p>Large ACM stockpile is not banded and subject to erosion and runoff of fines into surrounding areas and drainage lines during heavy rain.</p>	<p>Install sediment traps/screens at base of large ACM stockpile and nearby processed ACM stockpile in storage bay and delineate surface water runoff from surrounding drainage lines.</p>	<p>Refer to above response to NOC 01.</p> <p>The material in the storage bay has been inspected. The material in the bay has not been processed. The bay floor is sloped away from the front of the bay and the material in the bay remains covered minimising the risk of surface water runoff entering or leaving the bay. The asbestos sign for this bay has been in the bay and has been placed in a location in the bay that is visible from outside the bay.</p> <p>Sediment controls are being obtained to place across the front of the bay.</p> <p>There are no unprotected drainage outlets located near the stockpile or storage bay.</p> <p>Temporary sediment controls are being obtained for the stockpile.</p> <p>All drainage grates / inlet pits are protected by gross pollutants screens and geofabric to prevent infiltration of sediment and other materials.</p> <p>An occupational hygienist has been appointed to provide advice concerning the management of the stockpile.</p>

Non-compliance	Details	Recommended action	KGRPL Response
<b>NOC 03 – Control of surface water</b>			
sB7(b) SSD5300 requires control of surface water so as not to mix with waste.	<p>Surface water runoff from and around large ACM stockpile and opposite mixed waste stockpile are not adequately controlled and there is the potential for fines/sediment runoff and mixing / contamination of surface water in surrounding areas.</p> <p>There are gaps in the perimeter batter/mounds allowing potentially contaminated surface water to run on-site into waste processing / storage areas.</p>	<p>Store large ACM and opposite mixed composite temporary stockpiles in areas where surface water runoff is controlled and area properly drained and/ or otherwise put in place erosion / sediment control and drainage around the large stockpiles.</p> <p>Repair and maintain batters / mounds on the perimeter boundary.</p>	<p>Refer to responses to NOC1 and NOC 2 above</p> <p>The risk of surface water leaving site as a result of the gaps in the perimeter mounds is understood to be low ground levels and contours in the vicinity.</p> <p>The mounds around the perimeter have been restored. Refer to photos at Appendix A.</p>
<b>NOC 04 – Surface water and leachate detention</b>			
<p>B7(c) WMS (SSD5300) requires surface water and leachate detention.</p> <p>Section 4.2(iv) ‘Groundwater’ of the Revised Statement of Commitments (May 2015) requires engineering of the development working platform to minimise infiltration of any contaminants into underlying soils.</p>	<p>There is no collection and storage of any subsurface leachates that may be transported off-site.</p>	<p>Seek expert third-party advice on the presence and risk posed by leachates as well as advice on engineering controls that will need to be put in place for the collection, storage and treatment of any such leachates.</p>	<p>It is understood that the construction of development working platform is as per approved plans and we rely on the Occupation Certificate.</p> <p>The Groundwater Assessment Ref E49/6 dated June 2014 prepared by Benviron Group for Bicorp Pty Ltd concluded that “the risks to human health and the environment associated with soil and groundwater contamination at the site are low in the context of the proposed use of the site.” It further notes that</p>

Non-compliance	Details	Recommended action	KGRPL Response
<p>the site geology is mostly heavy clay and any infiltration of contaminants is expected to be low.</p> <p>There is no evidence to indicate leaching into subsurface soils has been a concern to date.</p> <p>Further, provision is made for leachate collection associated with composting etc. operations in the shed. Composting has not been undertaken on site to date and mulching has ceased however the leachate collection tanks for the shed remain on site as per the plans. These tanks are not connected to site drainage and are to be pumped out by tanker for removal from site when required.</p> <p>Green waste and wood waste are stored on the green waste shredding area pad which is drained to the shredding area pond as indicated on the approved drawings</p>			
<p><b>NOC 05 – Diversion of clean surface water</b></p>			
<p>B7(e) WMS (SSD5300) and Pollution Incident Response Plan (e) requires that clean surface water is diverted around operational areas of site.</p>	<p>There are gaps in the perimeter batter/mounds allowing clean surface water to run on-site and into operating areas, especially during heavy rain and/ or flood situations.</p>	<p>Repair and maintain vegetated batters/mounds at perimeter boundary. Provide alternative access to Jemena gas services that does not damage the integrity of the batters/mounds.</p>	<p>Refer to response to NOC 3 above.</p> <p>KGRPL will contact Jemena to confirm arrangements for access to the easement and consider alternative arrangements where possible.</p>

Non-compliance	Details	Recommended action	KGRPL Response
<b>NOC 06 – Water re-use</b>			
<p>B7(g) WMS (SSD5300) requires that water re-use is based on environmental/human health risk assessment.</p> <p>The facility Aspects and Impacts Register (Sep 19) identifies water reuse for dust suppression as ‘high-risk’ requiring regular testing to ensure it is suitable for re-use.</p>	<p>Water re-used for dust suppression but no records of testing against human health / environmental risk indicators and possible impacts.</p>	<p>Seek expert advice on human health / environmental risk indicators to be monitored from sources of re-use water (OSDs) and put in place an appropriate monitoring program.</p> <p>Conduct required sampling and testing to verify that the re-use water does not pose an unacceptable risk to human health / environment.</p>	<p>Sprinklers in use on site have until recently been restricted to use of tank water topped up by town water delivered to site by water cart. Recently a new sprinkler system has been constructed around the tip floor which currently relies on use of detention dam water. A consultant has been engaged to assess environmental / human health risks associated with water reuse on site.</p> <p>KGRPL will incorporate this assessment into the 6 monthly sampling programs adopted for water quality assessment while water in the dam is proposed for reuse for the purpose of dust suppression.</p>
<b>NOC 07 – Erosion and sediment control</b>			
<p>B8 (SSD5300) and SWMP require implementation of erosion and sediment control measures on-site in accordance with Landcom guidelines.</p> <p>EPL(c) ‘Air quality’ requires that no sediment is tracked off-site.</p>	<p>There is evidence of erosion and sediment runoff in the large ACM stockpile and opposite mixed composite stockpile in the north western corner; as well as bin storage area and overflow car park at site entrance (which are not designated areas for those uses on the approved plans). There was also evidence of poor</p>	<p>Review and update erosion and sediment control plan and put in place necessary measures to control erosion and sediment in large ACM / mixed composite stockpiles, bin storage area and overflow carpark; maintain sediment traps at boundary fences.</p> <p>Replace rumble grid.</p>	<p>Sediment fences have been replaced / upgraded in the area north of the driveway prior to entering the facility and along the southern area of the site bordering the dams. Further controls are being considered as referred to in NOC 01, NOC 02 and NOC 03.</p> <p>The rumble grid has been removed and replaced with a new rumble grid. Some minor works have been scheduled to seal the area around the rumble grid. Refer to Appendix A.</p>

Non-compliance	Details	Recommended action	KGRPL Response
	<p>maintenance of sediment traps at perimeter fencing.</p> <p>Rumble grid is in poor condition and allowing sediment to track onto sealed road at exit.</p>		
<b>NOC 08 – Bunding</b>			
<p>B9 (SSD5300) requires that all chemicals, fuels and oils used on-site are stored in appropriately bunded areas in accordance with EPA standards.</p> <p>SWMP and SOPs (OPL-SEQ013 Storing Dangerous Goods, OPL-SEQ016 Labelling Hazardous Chemicals, OPL-YA029 Storage of Hazardous Chemicals – Waste) also have similar requirements.</p>	<p>Bunding and spill control in permanent chemical, fuel and oil storage areas not in accordance with SOPs and best practice.</p> <p>Mobile crate bunds are used instead of fixed bunds in permanent storage areas.</p> <p>Some sumps are clogged and not adequately cleaned at the time of audit.</p> <p>Signs of oil/fuel spills outside of the workshop bunded and storage areas.</p> <p>The main fuel storage tank not adequately bunded and covered and temporary fuel storage in fuel tank on crated bund in shed</p>	<p>Construct concrete bunding on the outside perimeter of the main permanent oil, fuel and chemical storage areas.</p> <p>Construct concrete bunds on the perimeter of the main fuel storage tank and generator storage sheds to contain any accidental spills during filling of fuel.</p> <p>Fixed cover should be installed over main fuel storage tank and filling areas.</p> <p>More regular inspections, maintenance and cleaning of workshop bunds, and sumps and ensure all work associated with chemicals, fuels and oils is conducted in designated covered and bunded areas.</p>	<p>Additional temporary bunding was provided to chemical storage areas prior to completion of the audit.</p> <p>Corrective actions for the workshop have been identified and are in progress. Actions have been completed for the following:</p> <ul style="list-style-type: none"> <li>• Waste oil storage cleaned and cleared</li> <li>• Temporary storage area expanded pending procurement of additional bunded storage.</li> <li>• The generator and associated shed were decommissioned and removed from site prior to completion of the audit.</li> <li>• There is one blind sump in the workshop which was cleared and cleaned prior to completion of the audit.</li> <li>• Temporary fuel storage remains undercover and on a crated bund pending review of fuel storage requirements.</li> <li>• The self-bunded double walled diesel tank is located adjacent to the workshop and</li> </ul>

Non-compliance	Details	Recommended action	KGRPL Response
	<p>should be stored in properly designated fuel storage area.</p>		<p>requirements associated with covering this area are being reviewed.</p> <ul style="list-style-type: none"> <li>It is noted that it is not possible to conduct all work associated with chemicals fuels and oils in designated covered and bunded areas particularly in relation to mobile and fixed equipment breakdown. Procedures in relation to this type of servicing and maintenance will be reviewed.</li> </ul>
<b>NOC 09 – Access tracks</b>			
<p>s5 of the SWMP requires that access tracks are delineated, and sign posted.</p>	<p>Not all temporary access roads to undesignated areas were sufficiently delineated and sign posted.</p> <p>Access tracks behind ACM and mixed waste stockpiles behind concrete crushing area and mobile picking plant storage area are not clearly delineated and sign posted.</p> <p>Access tracks to the bin storage area and overflow car park clearly sign posted.</p>	<p>Provide proper delineation and sign posting of all access tracks, including temporary access tracks to undesignated areas.</p>	<p>The site traffic management plan is located at the inbound weighbridge window and traffic control staff manage access to all areas of site by two-way radio communication with vehicles. No vehicle is permitted to proceed without confirmation from site staff at each stage of the process. No vehicle is free to move around the site without two-way radio and communication with site staff. This requirement is covered in the site induction required of all customers and visitors to site.</p> <p>A site safety map / traffic plan is also located on the website <a href="#">Kembla Grange Site Safety Map</a>.</p> <p>A site plan in the form of a safety sign will be developed like the site traffic plan and posted adjacent to the rumble grid.</p>



Non-compliance	Details	Recommended action	KGRPL Response
<b>NOC 10 – Refueling</b>			
s4(m) SWMP - no refueling within 30m of the riparian corridor.	Diesel generator in container/shed within 2 m of riparian zone and evidence of refueling activities including open fuel cans and spillage inside and outside of container close to drain/grate pit.	Relocate diesel generator away from riparian zone and place in a specially designated area that is properly designed, lit, ventilated, bunded, and has the required fire-fighting controls / equipment.	Refer to response at NOC 08  The generator and associated shed were decommissioned and removed from site prior to completion of the audit.
<b>NOC 11 – Groundwater monitoring</b>			
s14(b) SWMP requires copies of results of groundwater monitoring to be provided to Office of Water.	No record of copies of the groundwater monitoring results being provided to the Office of Water.	Provide all copies of groundwater monitoring results to the Office of Water.	The KGRPL will seek a report concerning groundwater monitoring and incorporating groundwater monitoring results from the consultant and provide the report to the Office of Water.
<b>NOC 12 – Operation &amp; Maintenance of OSD</b>			
s4.3(e) and (g) SWMP require inspection of the OSD outlet screens, trimming of vegetation and removal, cleaning and refit of mesh screens.	No screens on the OSD outlet and vegetation was overgrown. No records of inspection, cleaning or refitting of screens at OSD outlet.	Install screen at OSD outlet, trim vegetation and conduct monthly inspections, cleaning and necessary maintenance.	The dam outlet has been cleared, cleaned and screened using hay bales. Refer to Appendix A.  This area is under contracted maintenance in relation to vegetation management and weed control. This contract is subject to review currently for appointment of new contractor.
<b>NOC 13 – Discharge / monitoring</b>			
sP1.2(c) of the EPL requires that concentration limits for pH (6.5-8.5 with 100 percentile).	pH results for last quarter for the 2 OSD locations were 8.7 for both	Consult water quality monitoring Consultant and EPA on the best plan of	Sampling records provided for the audit and referred to by the auditor are for samples taken from the

Non-compliance	Details	Recommended action	KGRPL Response
	sites, which is above the EPL upper limit of 8.5.	action to reduce pH so that it is maintained within the limits.	<p>water recycling pond not the detention basin or discharge point.</p> <p>The samples were not taken in respect of a sampling event required by the EPL or from the monitoring locations specified in the EPL and cannot be considered a noncompliance in respect of the EPL and sP1.2(c). The samples are additional to requirements for the purpose of providing an indicator of water quality for water reuse and ongoing efforts to understand and effectively manage runoff water.</p> <p>No discharge has occurred from the premises and water levels have remained low for an extended period.</p> <p>Adequate freeboard can be maintained currently due to the dry conditions and water reuse on site, enabling detention of surface water runoff and low risk of discharge occurring.</p> <p>Evaporation due to drought conditions causing concentration of assessable parameters, is a possible and the most likely cause of the pH results.</p> <p>KGRPL will continue to monitor the water in the dams and continue to seek the advice of the consultant in relation to results and any areas of potential concern.</p>

Non-compliance	Details	Recommended action	KGRPL Response
<b>NOC 14 – Air quality monitoring / meteorological station</b>			
<p>B13 (SSD5300) requires implementation of the approved AQMP.</p> <p>s6.2 ‘Meteorological monitoring’ AQMP requires operation of a meteorological station to collect and analyze real time data and determine adverse weather conditions.</p>	<p>Trial weather station on site at the time of audit but no evidence / record of it being in operation or collection and analysis of data to inform operational controls.</p>	<p>Install permanent weather station and collect required real time data for analysis and use in detecting adverse weather conditions; use data to inform required operational controls / mitigations.</p>	<p>The site has implemented the AQMP. The site effectively utilises the information available via Bureau of Meteorology website daily to proactively manage operational controls and can react when required to changing circumstances.</p> <p>Visual assessment of conditions is the most appropriate and effective means of implementing and activating controls for activities that pose a dust risk of which not all are related to weather conditions.</p> <p>The meteorological station on site has been operational and will be replaced as soon as possible to ensure that KGRPL has access to monitoring data.</p>
<b>NOC 15 – Air Quality – Fugitive dust emissions</b>			
<p>Table 2 AQMP ‘Stockpiles’ (b) requires automated spray systems to control dust from stockpiles and wind, loaders, excavators and bulldozers.</p>	<p>Spray systems are manually controlled, not automated.</p>	<p>Install automated spray systems and link to meteorological station data outputs to inform required spray controls during adverse weather conditions.</p>	<p>KGRPL do not consider this a noncompliance. Automatic spray systems connected to weather stations are not effective given not all conditions identified for control relate to weather.</p> <p>KGRPL stages shut down of affected operations in adverse weather conditions. As operations cease during windy conditions the need to activate controls automatically is not necessary, particularly as staff freed of operational duties are available to activate controls such as continued operation of the water cart, activation and targeted location of</p>

Non-compliance	Details	Recommended action	KGRPL Response
			<p>sprinklers as required, covering of stockpiles and other dust control activities. Similarly, staff are reallocated to surface water management activities during rain events.</p>
<b>NOC 16 – Air Quality – fugitive dust emissions</b>			
<p>Table 2 AQMP ‘Vehicle Movement’ (b) and Traffic Management Plan (e) require the operation of a 30,000L water cart along portal access road.</p>	<p>A water cart is in operation but only has a capacity of 18,000L.</p>	<p>Replace the existing water cart with 30,000L cart, and / or supplement with an additional water cart with at least 12,000L capacity.</p>	<p>Total available water on site for firefighting and dust control was assessed and the 30,000 litre water cart commitment was made prior to the requirement to install fire water tanks to meet the requirement of the certifier for issue of the Occupation Certificate (OC). To achieve OC an additional 300kL of water has been made available on site in two 150kL tanks to meet OC requirements.</p> <p>These fire water tanks are the subject of an application to modify the consent (MOD 2) along with rainwater tanks that provide an additional 20kL of water to accommodate a smaller volume water cart which is able to be refilled and return to dust control duties more quickly than a larger water cart. All tanks and the detention dam can be used for dust control enabling use of sprinklers in addition to the water cart.</p> <p>KGRPL understands that total water volume availability for dust suppression purposes is above requirements of the consent.</p>
<b>NOC 17 – Noise &amp; Vibration</b>			

Non-compliance	Details	Recommended action	KGRPL Response
<p>B20 'Noise criteria', B21 'Noise compliance measurement', B22 'Vibration criteria' and B23(b &amp; d) 'Noise mitigation' of SSD5300 require regular monitoring of noise and vibration.</p>	<p>Trial noise monitoring equipment on site but no evidence it is operational, and that data was being collected, analysed and used to determine compliance and appropriate mitigation controls.</p>	<p>Install permanent noise monitoring equipment and commence regular monitoring, collection, analysis; use data to ensure compliance and inform necessary controls.</p>	<p>Noise monitoring is to be conducted where a complaint has been received by the facility. To date no complaints have been received by the facility.</p> <p>A noise assessment was conducted to support an application to modify the development (MOD2) which indicates that no noise or vibration emissions exceeding relevant thresholds are likely and that emissions are likely to remain below thresholds if MOD 2 is approved.</p> <p>The facility is compliant with Conditions B20, B21 and B23 (b &amp; d) to the extent that monitoring is not a specific requirement of those conditions.</p> <p>Condition B24 sets out noise monitoring requirements and the requirement is that monitoring is to be conducted "in accordance with the EPL".</p> <p>The EPL (20601) does not require noise monitoring.</p> <p>KGRPL will conduct noise monitoring as per the conditions of consent.</p>
<p><b>NOC 18 – Traffic &amp; Access</b></p>			
<p>B25(b) SSD5300 'Traffic &amp; Access' requires that site access, driveways and parking constructed and maintained in accordance with standards.</p>	<p>Tarping and un-tarping parking areas not clearly marked or sign posted.</p>	<p>Clearly mark and sign-post tarping and un-tarping parking areas.</p>	<p>Untarping area signs have been reinstalled on fencing adjacent to the inbound weighbridge untarping area and on the site rules signage at the truck holding area at the bridge. Refer to Appendix A.</p>

Non-compliance	Details	Recommended action	KGRPL Response
			Site safety signage has been relocated. Refer to Appendix A
<b>NOC 19 – Hazard &amp; Risk</b>			
B26(a) SSD5300 'Fire management' requires implementation of measures to minimise risk of fire.	Fuel storage and use associated with generator near riparian zone is a serious fire hazard.	Remove diesel generator away from riparian zone and store in appropriate designed shed with adequate fire controls.	Refer to response to NOC 08 and NOC 10. The generator has been decommissioned and both the generator and the shed have been removed from site. Refer to Appendix A
<b>NOC 20 – Fire protection</b>			
B27 (a-c) and B28 (SSD5300) - 'Bushfire protection' requires existing buildings to be upgraded to be fire-proofed, and new buildings constructed to fire proofing standards; and building and landscaped areas close to riparian zone be managed to reduce risk of bushfires.	<p>No evidence that existing or any new buildings have been constructed or upgraded to meet fire protection requirements.</p> <p>Areas near Buildings 1 &amp; 2 have not been cleared of vegetation.</p> <p>Fire hazard operations and activities (diesel generator shed) carried out within 20m of riparian zone.</p>	<p>Upgrade Buildings 1 &amp; 2 to meet fire protection requirements.</p> <p>Maintain clearing of vegetation around buildings.</p>	<p>Vegetation around buildings 1 &amp; 2 consists mostly of grass. KGRPL notes that the approved plans specify grass for this area which is maintained by a contractor.</p> <p>Future maintenance is subject to awarding of a new maintenance contract.</p> <p>An assessment of building upgrade requirements will be reviewed and any works required will be completed.</p>
<b>NOC 21 – Signage</b>			
B33 (SSD5300) requires consultation with Council on new signage.	New signs at site entrance replaced/ installed without Council consultation.	Consult with Council on new signage installed.	The sign remaining near to driveway entrance is directional in nature. Signage further along the driveway and at the weighbridge is related to safety and regulatory requirements with content outlining site entry and associated rules.



Non-compliance	Details	Recommended action	KGRPL Response
			KGRPL will consult with Council in relation to this signage and Councils signage requirements
<b>NOC 22 – Environmental &amp; Amenity Impacts</b>			
s4.8(i) Revised Statement of Commitments (RSOC) requires up to 3 x 100,000L rainwater tanks.	There are 5 rainwater tanks on one side of the shed instead of two on either side. This was submitted in Mod 2 application but this has yet to be approved.	Bingo to seek verification from DPIE on acceptability of alternative rainwater infrastructure already implemented prior to approval.	The approved plans provide for 2 x 100,000 litre rainwater tanks.  The plans associated with MOD 2 propose 4 x 45,000 litre tanks and 1 x 40,000 litre tank. The site has two additional 150kL tanks for firefighting purposes which are also able to be used for dust suppression and are also a subject of MOD 2.
<b>NOC 23 – Energy efficiency</b>			
s4.10 (iv-vi) of RSOC requires energy metering, monitoring and efficient lighting / appliances.	No evidence of Facility energy efficiency monitoring and installation of efficient lighting / appliances.	Put in place an energy efficiency plan, monitoring program and install efficient lighting / equipment & appliances.	Energy efficient lighting was installed in the weighbridge, lunchroom and externally to buildings. The workshop lighting is LED. Refrigerators are 3.5 star. The site is not connected to mains power and therefore not metered to the grid however it does monitor energy use in relation the generator on site. Refer to Appendix A









APPENDIX A

	
<p>NOC 1 – Unexpected finds bin</p>	<p>NOC 1 – Unexpected finds bin</p>
	
<p>NOC 3 – batter reinstated</p>	<p>NOC 3 – batter reinstatement</p>
	
<p>NOC 7 – Erosion and sediment control</p>	<p>NOC 7 – Erosion and sediment control</p>



APPENDIX A

	
<p>NOC 7 – Erosion and sediment control</p>	<p>NOC 8 – Chemical storage area</p>
	
<p>NOC 8 – Temporary bunding</p>	<p>NOC 9 – Access tracks – traffic plan t weighbridge</p>
	
<p>NOC 10 – Generator and shed decommissioned and removed</p>	<p>NOC 12 – Clearance and screening of outlet</p>

																											
<p>NOC 18 – Untarping sign at holding bay</p>	<p>NOC 07 - Rumble Grid</p>																										
	 <table border="1"> <thead> <tr> <th>Descriptions</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Wattage</td> <td>28</td> </tr> <tr> <td>Base</td> <td>Tube</td> </tr> <tr> <td>Life (Hrs)</td> <td>30000</td> </tr> <tr> <td>Lumens</td> <td>2640</td> </tr> <tr> <td>Diameter</td> <td>16mm</td> </tr> <tr> <td>Length</td> <td>1149mm</td> </tr> <tr> <td>Colour Rendering Index Ra</td> <td>85</td> </tr> <tr> <td>Colour Temperature</td> <td>4000</td> </tr> <tr> <td>Manufacturers Part Number</td> <td>61102</td> </tr> <tr> <td>Supplier Number</td> <td>61102</td> </tr> <tr> <td>Lumens per Watt</td> <td>94.3</td> </tr> <tr> <td>Energy efficacy rating</td> <td>★★★★</td> </tr> </tbody> </table>	Descriptions	Value	Wattage	28	Base	Tube	Life (Hrs)	30000	Lumens	2640	Diameter	16mm	Length	1149mm	Colour Rendering Index Ra	85	Colour Temperature	4000	Manufacturers Part Number	61102	Supplier Number	61102	Lumens per Watt	94.3	Energy efficacy rating	★★★★
Descriptions	Value																										
Wattage	28																										
Base	Tube																										
Life (Hrs)	30000																										
Lumens	2640																										
Diameter	16mm																										
Length	1149mm																										
Colour Rendering Index Ra	85																										
Colour Temperature	4000																										
Manufacturers Part Number	61102																										
Supplier Number	61102																										
Lumens per Watt	94.3																										
Energy efficacy rating	★★★★																										
<p>NOC 09 - Site traffic plan</p>	<p>NOC 23 – Lighting 4 star energy rating</p>																										
																											
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<p>NOC 23 – LED computer monitors</p>	<p>NOC 23 – Generator – monitoring of energy output and run time.</p>																										