Round Performance Assurance Exec. Summary





Performance Assurance Round



Record of reviews

Function	Date of review	Reviewed by	In attendance
Target Zero			
Commercial			
Environment			
Quality			
Community Relations			
Social Sustainability			

Current document history:

Revision:	Effective date:	Author(s):	Reviewed by:

Performance Assurance Round



World Class Performance Log

Function	Contract Number	Description	Contact Details
Environment			

Performance Assurance Round



Function	Contract Number	Non-compliance	Action	Target Date	Owner



Performance Area	Input Performance Level	Output Performance Level	Performance Review Commentary	Performance Actions
1.Audits and Inspections	З		 Audit schedule seen which has been updated for 20 - CCS May , Crossrail audit scheduled for June , continuing to undertake quarterly audits on EMS last undertaken March 20 by on - EMP, waste management, N&V with no non-conformances found & one audit scheduled for June - BREEAM, environmental training & competence, incident reporting & communication. Audit tracker remains in place Continuing to undertake topical audits - a Noise & Vibration Works information audit was undertaken by Environment Advisor in April . Monthly WTN compliance audits/checks completed with contractor feedback BPM checks by specialists, also every month BPM full check against consent Supplier audits - Oct , Dec , March , March , Morthag and , April Sharing audit findings with other CRL contractors and also notify other contracts if undertaking audit. On have set up communication with other CRL contractors to conduct joint audits of waste facilities to reduce the burden on waste facilities/reduce duplication CCS Sept Gold award Cross audits of other Crossrail contractor sites where also share best practice RIVO updated correctly for audits for	



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2. Training and Awareness	З		 Training Training matrix in place and updated regularly (last in April 20	Other suggested performance improvement actions: Consider applying for Green Systems scheme



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3. Environmental incidents	З		 Incident plan has been updated Near miss reporting scheme is in place in both paper and tablet format however near miss surgery no longer weekly-instead have SPSS voice Revising 'What good looks like' booklet to Rev 3 Environmental monthly awards now include details of what they won award for Lessons learned shared on clamshell hydraulic leak at and and the was shared with CRL contracts Spill response video with feedback for day & night shifts – good points and improvements-another spill drill scheduled for May 2016 Campaign through behavioural surveys on what you'd do if scenariosBehavioural survey asked questions on what you would do in the event of noise complaints etc. incidents on site to gauge the level of understanding and correct response (see section on training and awareness for survey) New Drain clay mats procured which are evidenced in the water management section. Spill response process streamlined with the flowchart attached inside spill response bins. Drainage plan displayed on site along with the incident plan and quick guides (see noise and vibration section for S61 quickguide) Monthly briefings to office staff and Weekly briefings to site on RIVOs / Observations All observations from site inspections recorded on RIVO to assist with trending and easily identifiable as environmental. Proactive TBTs (Nov 15) to encourage the reporting of observations / incidents on site. Examples provided and posters on site to demonstrate types of observations 	
4. Procurement Sustainable Sourced Timber		1+	 Sustainable Sourced Timber A robust process is in place for Chain of Custody checks by timber champion who looks at delivery notes and CoC numbers Tracker for timber in place which has been shared with the second state of timber in place which has been carried out Toolbox talks delivered on timber compliance awareness RIVO data correctly inputted for timber for 07.02.16 – 29.05.16 	 Other suggested performance improvement actions: Use other reusable construction methods to avoid use of timber
Recycled content of materials		2+	 Recycled content of materials Netwaste tool further populated. Will be adding all M&E packages and may change once more comprehensive dataset has been achieved. Currently reporting 42% Once all of the materials have been inputted it can be determined where the opportunities are in terms of increasing the recycled content or a justification as to why this is not feasible Sent a spreadsheet to QS's where they were asked to highlight material and labour costs 	 Other suggested performance improvement actions: Demonstrate complete lifecycle of recycled materials has been undertaken



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5. Noise and Vibration	3		 Leadership, staffing, interfaces and culture Noise and vibration issues well managed, with effective employment of N&V specialist D. Evidence of ongoing focus and continual improvement efforts with regard to BPM and communication of consent requirements e.g. monthly formal reminders, on-site quick guides and toolbox talks / briefings. Cumulative plan developed to pro-actively and effectively to manage potential combined impacts of and a Effective and collaborative engagement with, community relations personnel and stakeholders, via regular progress and update meetings / community forums. Adherence to complaint procedures and well-defined arrangements relating to community awareness/notifications. Night shift noise champion appointed S 61 Consent Application Compliance (including construction assessments and accessibility of data to CRL and the Local Authorities). BPM and monitoring techniques Consents in place and associated conditions adhered to. Effective management and proactive review of monitoring protocols to ensure requirements are satisfied in terms of s61, D9, TAPS and cumulative impacts. Well managed dispensations, variations and small change notices where appropriate and necessary, provided with adequate review time Monthly reminders sent to the engineers and supervisors on S61 requirements Good communication between environment team & engineers e.g. informing of overruns Planning ahead for noisy works to identify different options for working hours and implementing effective noise control measures e.g. for the slipform works Real-time audio based system has been procured at the most sensitive location WTH site Site BPM checks take place on site Specific monitoring has taken place where equipment was traditionally noisy. Readings were taken to ascertain whether further noise matagement upon taking	 Other suggested performance improvement actions: Ensure that attended monitoring is adding value, review frequency of measurements and use the specialists time to carry out detailed BPM & source noise checks to validate S61 predictions. Continue regular communication with the local authorities (ideally a regular minuted meeting) to ensure the reporting of monitoring data and trackers of exceedences, complaints and actions. Refresh noise awareness of the team through a campaign of updated SOS briefings, TBTs and noise training for night-time supervisors (and develop/improve a reporting sheet for their investigations into complaints/noise exceedences/BPM checks). Noise Champion visibility and involvement in meetings/planning of works/consents and no. 3 above. Best practice write ups for innovations, effective BPM measures and processes. Regularly update the N+V Action Plan in collaboration with CRL N+V Specialist



Waste management Other sugges	ed performance improvement actions: review ways of reducing waste for fit out works. Jfill diversion rates and breakdown into route of nsure tracking against BREEAM target.
 Polystyrene -found another site who could use as void fillers but can use on Q on site - Continue to - Liaised with supply chain regarding reducing waste. This has resulted in a number of pallets and stacking timber being stacked and taking back for reuse when a new delivery arrives onsite. This has been done for blockwork and also precast concrete slabs Liaising with international supply chain (e.g. for construction different to the waste management) 24 Waste management 24 Performance in meeting targets for demolition and void significant environmental savings, possible public nuisance and saved the construction of new material savings, possible public nuisance and saved the construction of new material and the design stage. Also looking at tracking possible waste savings as a result of design changes Performance in meeting targets for demolition and construction waste as a result of design changes Performance in meeting targets for demolition and construction waste Tury 24 	



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			 Dust management and monitoring No dust complaints from ETH or WTH Jet washing on site and damping down is carried out using a misting system and can be demonstrated for different activities 4 Osiris monitors – Two at the WTH and two at the ETH – text alerts are given to environment team and site team Air quality alerts are tracked on trigger log. WCC air quality department are informed when excessive triggers are received or triggers that are not likely linked to works Daily dust logs are maintained completed and kept on site and conducted by air quality champion. These have now been updated to make them more user friendly and clearer. The WTH is also now monitored Green ivy wall still present around welfare units and along a section of the hoarding at the text of the section of dust monitors is now conducted on a yearly basis 	 Other suggested performance improvement actions: Keep compressors under review to ensure compliance with NRMM requirements Improve compliance rate of 75% (based on 20 reports). Continue to forecast and review equipment to ensure it is compliant prior to coming onto site
7. Air Quality	2		 Various air quality and dust TBT have been carried out throughout the year by CSJV and the supply chain 	
Dust management and monitoring			 Emissions from vehicles and equipment Robust process for ensuring all plant is compliant or appropriately dispensed. The environmental team manage the NRMM register and keep copies of all relevant paperwork. Checks are carried out as part of weekly inspections and on a quarterly basis for CRL reporting. Engineers liaise with environmental team prior to a new piece of kit being procured. A process flow chart has been compiled for site team 	
Emissions from vehicles and equipment	2+		 Two new concrete pump procured by supply chain which are compliant and do not require a DPF Any drivers idling are spoken to and informed of the no idling rule which is also included in method statements New eco crane with stop start technology is being used at the ETH. This has significant fuel, emission and cost savings and has been shared High kw generators with Tier 4 engines have now been obtained and are used were possible Checks are carried out by the Environment Manager on the task briefings produced by the engineers. These include checks on plant spec sheets to confirm compliance or check if more efficient plant can be obtained. Also see improved NRMM process below. All MEWPS in tunnels are electric & duct works have electric MEWPS No new dispensations – just 2 compressors (40Kw and 55Kw) –evidence of lack of appropriately sized compliant generators and compressors on the market –add AdBlue (additive) which reduces particulates 	



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8. Water		2+	 Looked into cost benefit of closed loop water recycling and feasibility. This wasn't feasible so installed milk carton in all site toilets which provided significant water savings (20% water saving per flush) Spill kit grab bags in place at relevant locations. Currently procuring new fire points which will include spill response points, fire points and first aid points. Two will be placed on each level of the site at ETH, Tunnels and WTH. A new bund has been constructed around main drain at ETH. A spill kit and a spill kit bag with a putty drain mat have also been put in place. A drain guard matt is also installed in the drain to prevent any possible rubbish entering the drain pH reading poster attached to siltbuster to ensure readings are being taken appropriately & on site readings taken daily Water discharge consent compliance being tracked and monitored. Spill response drill undertaken for night and day and a new one planned Water Audit conducted & findings shared at the measuring of embodied water of materials used on the project. The area where they have been procured is assessed in terms of how water stressed that area is. Where feasible this can affect the procurement process in terms of looking to purchase materials from a less water stressed area if cost or material specification is not negatively affected. Water reduction target is based on implementing 3 water saving measures but also track usage against man hours with commentary. RIVO updated correctly for water usage 07.02.16 – 29.05.16 	 Other suggested performance improvement actions: Continue to develop water footprint Investigate water saving initiatives for testing and commissioning works



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10. Contaminated land (if applicable)	N/A		 N/A 	
11. Biodiversity (if applicable)	N/A		 N/A 	
12. Energy Management (construction)		З	 LED tower lighting (super silenced & double bunded) used onsite mainly for slipform work EDF Blue Tariff - Low carbon & all on mains PIR sensors in the offices; Photocell sensor lights for security lighting Looking into tunnel strip lights replacing with LEDs. Systemwide coming through and taking over the tunnel areas so they will be putting in LED, s throughout the tunnels. Resource Efficiency / Energy Champion appointed Energy management good practice, findings, audits etc are all shared and discussed at various Environmental manager forums such as the strip and source ones. Looking at using the mosaic system which would significantly cut paper usage, bring about operational efficiency and improve tracking of all toolbox talks, briefings, inductions, alerts, training etc for all staff on the project. The system Climate change week - a speaker from the system Climate change week - a speaker from the system Climate change week - a speaker for perturbed out addition to this to identify opportunities during workshops onsite & in the office A resource efficiency checklist has been populated to aid the identification of opportunities on the project including resource use through engagement; utilities; equipment; accommodation deliveries and working method Electricity and fuel use being recorded and graphed. This is now displayed onsite and in the office to raise awareness of energy usage Mave provided the carbon footprint of concrete mixes supplied RIVO up to date for electricity and energy usage 07.02.16 – 29.05.16 Using the Crossrail Construction Energy Measurement Tool. Carbon saving initiatives include fuel efficient equipment & site offices, lighting, behaviours. References provided at 31.1% 	Other suggested performance improvement actions: • Provide comments to highlight the changes made each quarter to the energy model