

Determinant	Background Result	Trigger level	Unit	Protocol
Noise	To be tested prior to commencement of works using hand-held monitor	>5dBA above background levels	dBA	A roving sound level meter will be used to monitor Leq values prior to works commencing to establish a baseline. All surrounding works and their distance to the perimeter of the Remediation works will be recorded. Pre-construction baseline measurement will record sound level measurements in 15 minutes increments and the microphone will be set 1.2 to 1.5m above ground level in accordance with BS4142. The same methodology shall be used daily, monitoring at the identified boundary locations. JFHR shall comply with best practice as set out in BS5228: 2009 +A1: 2014, "Code of practice for noise and vibration control on construction and open sites. Noise". All vehicles and mechanical plant used for the purpose of the Works shall be fitted with effective exhaust silencers and shall be maintained in good and efficient works order. • Machines in intermittent use shall be shut down in the intervening periods between work or throttled down to a minimum. • Site activities will be restricted to site working hours approved by the Client. • In order to mitigate the impact of noise and

				vibration activities, site specific measures in accordance with Best Practicable Means (BPM) will be implemented. • A Method Statement and associated Risk Assessments will be developed for all activities involved in the earthworks and these measures will be incorporated in the Works If there are third party complaints relating to noise, a roving survey will be undertaken using a hand-held monitor targeting sensitive noise receptors. If any exceedances persist, there will be a review of working practices and works within this area would cease/activity decrease to ensure noise levels are kept within the allocated threshold.
Vibration	To be tested prior to commencement of works	10mm/s / TBC	PPV mm/s	A seismograph and transducer will be established at the perimeter of the site in areas closest to sensitive receptors (rail-line) prior to works commencing to establish a baseline level. All surrounding works and their distance to the perimeter of the proposed Site works will be recorded. During the works, the same seismograph and transducer shall be appropriately located depending on works being undertaken at the time. It is anticipated that a portable weather-proof seismic recording instrument, such as the Vibrock V901 or similar, shall be used. It shall be set to run in continuous

				mode and able to digitally record vibration levels up to 20 mm/s peak particle velocity, for frequencies between 5 Hz and 250 Hz. Recording shall be automatic and use a cloud-based alarm system. Depending on the severity of any exceedance or if there are any complaints arising, a review shall take place with immediate effect, to identify and evaluate the specific source and assess the need for any change of approach to working practices or specific additional control measures to reduce impacts. This will be carried in accordance with the below: • In accordance with BS 5228-2:2009: Part 2 'Code of practice for noise and vibration control on construction and open sites. Vibration'; • Human disturbance monitoring using the guidelines provided in BS 6472-1:2008 'Guide to evaluation of human exposure to vibration in buildings Part 1: Vibration'; Appropriate levels will be agreed with the Client.
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Dust	To be tested prior to commencement of works	10 mg/m ³ 8-hour TWA of inhalable dust or 4 mg/m ³ 8-hour TWA of respirable dust 200mg/m ² /day Subjective	mg/m ³ mg/m ² /day subjective	Dust control measures shall be undertaken to the satisfaction of the Site Manager, the Supervisor and the Client at all times and works will be stopped if acceptable measures are not in place or being utilised. Dust control measures will include as a minimum the damping down of the site with water during periods of dry weather. Using spray bars on crushing activities. The following monitoring works shall be undertaken by the contractor: • A series of static directional frisbee gauges will be deployed around the site perimeter to monitor for the deposition of total suspended particulates. The gauges will be deployed at the locations shown on the Monitoring Plan. The Frisbee gauges will be serviced at least fortnightly, and the concentrations of deposited particulates determined in accordance with the H. W. Vallack (Stockholm Environment Institute at York) February 1995 method. A threshold of 200mg/m²/day deposited particulates will be adopted as a threshold indicator of potential complaints of nuisance dust. • Those and intermediate locations will also be monitored daily using a
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				handheld device such a DustMate, and the frequency of monitoring at these locations will be reviewed following the start of the project. Based on a subjective assessment, if dust levels are a nuisance site-wide, especially at the site boundary, works shall be stopped and contingency measures for dust and odour control shall be implemented before works can recommence. In the instance of the trigger level being breached, further research will be carried out to determine the source of the elevated levels. If it is concluded that it was a result of site activities, immediate action will take place to mitigate dust levels on the site, such as increasing the frequency of dust suppression and ensuring long-term stockpiles are covered with polythene sheeting. If the problem persists, working practices will be reviewed in order to keep the airborne dust to a minimum. Trigger levels will be set according to 2 levels of control as follows: • Level 1 - To protect workers on site, based on occupational exposure standards. Parameter measured being close to or at the exposure standard. Action will be to investigate reason and modify ongoing works. • Level 2 - To protect nearby sensitive
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				receptors. Parameter above exposure standard. Action will be to stop site works, investigate reason and modify ongoing works.
Odour	0	3	N/A	Odour nuisance is unlikely but sniff testing will be conducted prior to, during, and on completion of the excavation/site investigatory works or if there is any period where contaminated/potentially malodorous soils are being handled and transported. The testing will be undertaken in accordance with the German Standard VDI 3882 and the following intensity scale will be used to assess odour: 0 No Odour 1 Faint Odour 2 Moderate Odour 3 Strong Odour The sniff testing will be completed by personnel who have not been desensitised as a result of recent exposure to any odour source or strong food or drinks, including coffee (for at least half an hour beforehand). Further testing may also be undertaken if the assessment is driven by: • a response to a complaint; • checking the state of compliance at sensitive receptors; • an attempt to establish the source of an odour;

				If the sniff test trigger level is exceeded, an investigation will be carried out to determine the source of the odour and mitigation options available. Results will be reviewed to evaluate working practices; including the application of polythene sheeting on odorous stockpiled material. In circumstances where the odour cannot be minimised to tolerable levels, methods such as the deployment of an odour suppression system and associated neutralising agents dispersed by the suppression systems can be used.
VOC (fugitive emissions)	0	1 Occupational - (1ppm over a 5-minute TWA)	ppm	VOC odours are not likely to be an issue during remediation/ enabling works. However, provisions will be put in place to monitor in the unlikely event of mal odour presents will be in the form of a manually using a Portable Photoionisation Detector (PID) calibrated to 100ppm isobutylene. Monitoring will be completed in the form of a roving survey as and when required at boundary locations identified on the attached drawing. The locations of the monitoring points will be flexibly determined in response to the prevailing weather conditions (wind direction) and having regard for the excavation/ work sequence and the exposed contamination profile, as well as the sensitive boundaries and stockpiled areas of excavated materials.
Asbestos	Tested during excavation	0.01	f/ml	Asbestos has been encountered in the Made Ground on the site, but only at levels typical of

	works when required		brownfield site. Works shall typically be considered, at worst, Non-Licensed or Notifiable Non-Licensed. When appropriate, and in accordance with HSE guidance, personal and boundary shall be undertaken. As necessary, monitoring shall be carried out: • At the boundary of the site area; • In close proximity to perceived sources of potential asbestos fugitive fibres, i.e. in the location of higher energy/agitative works being undertaken in Made Ground; • Personal monitoring of Remediation Engineer and/ or excavator operator/operatives who are working within close proximity to a higher-risk exposure area. Monitoring shall be completed by a specialist and shall comprise long-duration, higher flow rate static air sampling both up and down-wind. A target of at approximately 480 litres should be collected onto 25 mm diameter filters (as per recommended sample volume presented in HSG 248). As a minimum, samples and analysis should be in general accordance with HSG 248 to report the airborne concentration down to at least 0.01 f/ml. Results lower than the limit of detection will be displayed <0.01 f/ml, if the target of 480 litres is achieved.
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				Key data parameters to be recorded during the asbestos fibre monitoring shall include: • Weather: Temperature, wind speed and rainfall; • Soil: Particle size distribution, classification, moisture content, soil/Made Ground description in general accordance with BS 5930:2015; and, • Activity: Type, frequency, duration, plant used, volume or volumetric rate of soil disturbed/moved during monitoring period. Additional control measures will be in place to ensure exposure to airborne fibres is minimal, such as the dampening of stockpiled Made Ground.
Surface Water	TBC	Visual sheening, dusting, decolouration	Visual sheening, dusting, decolouration	Daily visual monitoring will be undertaken. Perceived impact will result in immediate investigation, deployment of spill booms, cessation of relevant activities. Fencing shall delineate the site from surface water. Silt protection shall additionally be used at the base of the fencing to protect the ponds.

EMS005/01 DAILY ENVIRONMENTAL RECORD

SITE		WEATHER CONDITIONS	AM	Wind Speed (mph):					Wind Direction:				
DATE				Temp (°C):									
ENGINEER			PM	Precipitation: mm									
SITE ACTIVITIES		Breaking	Crushing	Screening	Bulk Excavation	Soils Pre-treatment	Off-site Disposal	Hotspot Excavation	In-Situ Steam	In-Situ Other Treatment	Excavation Dewatering	Earthworks	
WORK ZONE													
NOTES & REMARKS													
	Summary table						Action needed? (Y/N)	If yes, what measures will be taken?					
Dust							Y/N						
Noise							Y/N						
Odour							Y/N						
Vibration							Y/N						
MONITORING RESULTS & OBSERVATIONS													
Monitoring Location		Trigger	ANV#1	ANV#2	ANV#3	ANV#4	ANV#5	ANV#6	ANV#7	ANV#8	ANV#9		
Dust	Fugitive Visible (AM)	None											
	Fugitive Visible (PM)	None											
Noise	Roving Survey (dBA)	75											
	Fixed Continuous	-											
	Significant Events	75											
Odour	Sniff Test (0-6)	3											
	Vapour/PID (ppm)	1											
	Significant Events		-	-	-	-	-	-	-	-	-		
River Inspections	Absence of sheens, cloudiness, discolouration		SW1 Y/N	SW2 Y/N	SW3 Y/N	SW4 Y/N	SW5 Y/N	SW6 Y/N					
	If no, what was observed?		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Dust Scale (0-6)	0 No dust 1 Very faint dust 2 Faint dust 3 Distinct dust 4 Strong dust 5 Very strong dust 6 Extremely strong dust			Olfactory Scale (0-6)		0 No odour 1 Very faint odour 2 Faint odour 3 Distinct odour 4 Strong odour 5 Very strong odour 6 Extremely strong odour							

Public Highway	Free of mud/debris?	Y/N	Fuel & Oil Storage	Fuel tank secure and bunded?	Y/N
	Drainage clear?	Y/N		Spill pallets and drip trays?	Y/N
Other				Spill kits	Y/N
				Leaks and spills	Y/N
Details of Any Complaints				Remedial or Mitigating Measures	
SKETCH PLAN					

SITE PHOTOGRAPHS

EMS002/01 CoTC Site Visit Report

Site Name:				Date of Inspection: Thursday, 01 February 2024							
Permit Holder: John F Hunt Regeneration				Permit Reference: AB3107SF							
Technically Competent Person: Ian Burton				Deployment Reference:							
Weather:											
Site Activities:											
Report Issued To:				IB							
MITIGATING ACTION CODES: Refer to section 4.3 of SR2008No27		A = IMMEDIATE ACTION B = ACTION WITHIN 24 HOURS C = ACTION WITHIN 5 DAYs									

ITEM	DESCRIPTION	MITIGATING ACTION CODE (If Required)
(A) Previous Report	1. Have all mitigating actions been addressed? Not Applicable <i>Comments and Items still requiring attention:</i>	
(B) Storage of wastes or materials (may include stockpiles or chemical storage)		
(C) Equipment/ Pipework		

ITEM	DESCRIPTION	MITIGATING ACTION CODE (If Required)
(C) Monitoring/Site Records		
(D) Additional Notes		

ITEM	DESCRIPTION	MITIGATING ACTION CODE (If Required)
	<u>CoTC Inspection Close Out Sheet</u> <u>Please provide details of the actions taken for each of the identified concerns listed above in the section below and e-mail a copy of the report back to Site Management and Technical Team</u>	