

MEDIEVAL QUARTER AND GLADE OF LIGHT

Project Environmental Plan

Revision History

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Reviewed by:	Adam Liu		26/02/2021
Accepted by:	Adam Liu		26/02/2021

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1	26/02/2021	First issue for planning condition discharge	Adam Liu	Adam Liu
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Contents

Contents.....	3
1. INTRODUCTION	4
2. ENVIRONMENTAL SETTING	4
3. ENVIRONMENTAL CONSENTS / PERMITS / LICENCES	5
4. ENVIRONMENTAL RISK ASSESSMENT	5
5. ENVIRONMENTAL CONTROL MEASURES	6
6. ROLES AND RESPONSIBILITIES	21
7. SUBCONTRACTOR MANAGEMENT	22
8. COMMUNICATION AND LIAISON	22
9. MANAGING COMPLAINTS	23
10. ENVIRONMENTAL INCIDENTS AND EMERGENCY RESPONSE	23
11. ENVIRONMENTAL TRAINING	25
12. ENVIRONMENTAL AUDITS AND INSPECTIONS	26

1. INTRODUCTION

This Project Environmental Plan (PEP) has been developed to identify and manage the environmental risks associated with the Medieval Quarter and Glade of Light scheme and is a fundamental requirement of the company's environmental management system.

The Galliford Try Plc Environment Policy Statement should be clearly displayed on the site notice-board.

The scheme involves improvements to the public realm alongside the River Irwell in central Manchester, and the creation of the Glade of Light, a permanent memorial in response to the Manchester Arena Attack of 2017.

The scheme seeks to redevelop Victoria Street into a linear park that provides opportunities for a range of public uses, in addition to creating a green link to the North of Deansgate, and improving the setting of Manchester Cathedral and Chetham's School of Music.

The spine route will create a clear park vista from Deansgate, with the Glade of Light acting as a place of quiet reflection and remembrance away from the busy city centre. The route culminates in the new Cathedral Square which aims to declutter the area and create space for the Cathedral to breathe and be appreciated. In addition, this space will create a destination for public events and ceremonies.

The spine route will be lined with an avenue of park trees and lighting columns to link the spaces of the First Ditch Gardens and the Glade of Light. The route will be paved with high-quality Yorkstone, with granite sett edge trims to reflect the many historical materials found in the surrounding area, benches with a 'park-like' quality will also be provided to encourage users to sit and take in the view.

Prior to issue, all environmental documentation on this scheme, including this PEP, has been reviewed and approved by Adam Liu, who is the Project Manager as well as being reviewed by the HS&S Advisor.

2. ENVIRONMENTAL SETTING

The area of the proposed development covers approximately 3215m², and the national grid reference number for the site is SJ 83891 98738. The site is subject to a number of environmental sensitivities (as shown in the Environmental Constraints Map (HS&S-BPG-P04-101)) and summarised below.

2.1. Geology and Hydrogeology

Ground investigation was carried out during the design period by LK Consult. No aquifers, groundwater, groundwater abstraction boreholes, or groundwater protection zones were identified.

2.2. Hydrology

The site is adjacent to the River Irwell; however no works take place in or over the watercourse.

2.3. Ecology (*flora / fauna*)

An ecological assessment was carried out during the design period by Pennine Ecological.

There were no protected higher plant species, rare or uncommon species or habitats, or Section 41 Habitats of Principal Importance in England (NERC) Act 2006, or Greater Manchester Biodiversity Action Plan Habitats / Species recorded on the site.

The survey found no evidence of historic, recent or current use of the site by badgers or bats.

The site supports potential breeding bird habitats associated with trees; however no further strategic bird surveys are required. Before any development and in order to minimize impacts on birds, any removal of the above features should take place outside of the breeding season.

2.4. Cultural Heritage (*archaeology / SAMS / listed buildings*)

The site is located in Manchester's Medieval Quarter, adjacent properties include Manchester Cathedral and Chetham's School of Music, both of which are listed.

A Written Scheme of Investigation has been produced during the design period, and an archaeological watching brief will be required for some construction activities.

2.5. Exiting Site and Surrounding Land Use (*neighbours / protected areas*)

The majority of the site is the existing carriageway of Victoria Street, which was permanently closed to traffic in 2013. A temporary landscaping scheme was implemented that included planters and children's play equipment. This temporary scheme is now run-down and ready to be replaced by a more permanent designed solution.

The site itself runs from Hunts Bank to the North, along Victoria Street to the junction with Deansgate to the South, and includes the areas of lawn and trees, implemented as part of the Cathedral Gardens scheme to the East.

2.6. Contamination (*soils / geology / water*)

Ground investigation was carried out during the design period by LK Consult. A small amount of contamination was found in some trial trenches, this was attributed to small parts of bitumen from the cobble sets or tarmacadam above and not considered to be the main constituent of the trench material.

3. ENVIRONMENTAL CONSENTS / PERMITS / LICENCES

The need for any environmental consents, permits and / or licences and exemptions relating to work associated with the Medieval Quarter and Glade of Light scheme has been identified during the environmental risk assessment process.

Consequently, the necessary environmental permissions for this project are listed within the Environmental Risk Register (refer to Appendix 1; HS&S-FRM-E06-01).

4. ENVIRONMENTAL RISK ASSESSMENT

The Operations Management Team, in conjunction with the HS&S Advisor, has completed an environmental risk assessment, which is shown in the Environmental Risk Register (refer to Appendix 1; HS&S-FRM-E06-01) that encompasses the design, pre-construction, construction and commissioning phases of the project.

Throughout the duration of this project, the environmental risk assessment will be reviewed and updated on a monthly basis during the '4-week planning meeting' that is held between the Operations Management Team and the HS&S Advisor. The purpose of this review is to ensure the risk assessment remains suitable, adequate and effective in identifying and managing environmental risks. Further details concerning the methodology employed to assess project environmental risks are detailed within the Environmental Risk Assessment Standard (HS&S-STD-E06).

5. ENVIRONMENTAL CONTROL MEASURES

In addition to the site specific environmental control measures detailed within the Environmental Risk Register (refer to Appendix 1; HS&S-FRM-E06-02), the mandatory control measures described below also apply to the Medieval Quarter and Glade of Light scheme.

5.1. Waste Management

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Waste Storage, Handling and Segregation	- Store wastes in areas away from surface / foul drains and watercourses - Segregate all construction wastes, at a minimum, into hazardous and non-hazardous waste streams - Segregate construction wastes into dry recyclables - Cover waste containers if there is a risk that wastes may be blown out or the wastes contained therein are water sensitive e.g., plasterboard wastes - Use waste signage i.e., labels that specify waste contents - Secure waste containers (Note: On insecure sites or in areas where theft and vandalism may occur, skips should be lockable).	Yes
Off-site Disposal of Site Waste Streams	- Develop, implement and maintain a Site Waste Management Plan throughout the duration of the project - Use the GT Non Hazardous Waste Transfer Note (WTN) for the off-site disposal of all non-hazardous wastes (HS&S-FRM-W01-03) - Use consignment notes for the off-site disposal of all hazardous wastes - Retain all WTNs for at least three years - Register the site with NRW if more than 500kgs / year of hazardous waste is to be sent for off-site disposal. Renew this registration on an annual basis (<i>Wales only</i>) - Only use licensed waste carriers to transport wastes from site and obtain documentation to demonstrate registration - Obtain full copies of the Environmental Permits or Exemptions for the disposal locations of site waste streams. - Periodically follow a waste vehicle to its destination (and complete HS&S-FRM-W01-04) where: - The condition of the waste contractor's vehicle is poor, or - The waste contractor's waste paperwork is weak, or - A waste contractor uses a lower tier waste haulage company, or - A higher risk waste is being transported e.g., asbestos or oily wastes - There is a suspicion wastes may be taken to a non-licensed site. - Contact the HS&S Advisor immediately in the event that site wastes are not taken to a licensed waste disposal / recycling facility.	Yes

Reporting waste performance	Report project waste performance on a quarterly basis, as a minimum, to Business Unit management to allow GT plc waste performance reports to be generated by the Division's Environment Manager.	Yes
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Reference should also be made to the Site Waste Management Plan that has been developed for this project.

5.2. Water Management

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Abstraction, Impounding & Dewatering	- Obtain an abstraction licence from the EA / NRW for the abstraction of more than 20m³ of water / day from any controlled water – England and Wales only - Obtain an abstraction licence if waters from dewatering activities are to be used e.g., for dust suppression - Obtain an Impounding Licence from the EA / NRW prior to any impounding works commencing - Ensure that the company's Permit-to-Pump system is used for all effluent pumping activities (refer to HS&S-BPG-W05-101) - Ensure that a pump head rose is used to reduce the risk of harm to aquatic life - Ensure conformance to requirements of obtained licences / authorisations.	No
Discharges to Surface Water or Groundwater	- Consult with the EA / NRW as to the need for an Environmental Permit for the discharge of effluent to surface waters prior to the discharge proceeding - Ensure that the company's Permit-to-Pump system is used for all effluent pumping activities (refer to HS&S-BPG-W05-101) - Obtain permission to discharge silt laden waters to land from the landowner and consult with the EA / NRW prior to discharge - Ensure all effluent discharges from site cabins are directed into sewers (with permission from the local water company) or holding tanks - Ensure conformance to requirements of obtained permits / authorisations.	No
Discharges to Sewer	- Obtain a trade effluent discharge consent from the local water company or written permission from the sewer owner prior to the discharge of any trade effluent into a foul sewer - Ensure that the company's Permit-to-Pump system is used for all effluent pumping activities (refer to HS&S-BPG-W05-101) - Ensure conformance to requirements of any obtained consent.	No

Works In, Near or Over Water	- Obtain a an Environmental Permit / Exemption from the EA / NRW for the construction of any structure in, over or under a main river (refer to HS&S-BPG-W05-102) when: - Within 8m of the bank of a main river, or 16m if it is a tidal main river - Within 8m of any flood defence structure or culvert on a main river, or 16m on a tidal river, or where it is a sea defence structure. - Obtain a Land Drainage / Ordinary Watercourse Consent from the Lead Local Flood Authority (LLFA) for the construction of any structure in, over or under an ordinary watercourse, including the construction of dams, weirs, mills, channel diversions and culverts (refer to HS&S-BPG-W05-102). - Give the EA / NRW at least seven working days notice of any intention to temporarily or permanently divert the flow of a main river; carryout works over or within a main river channel; commence operations in a main river channel; or work on or near foul sewers - Give LLFAs at least seven working days notice of any intention to temporarily or permanently divert the flow of an ordinary watercourse; carryout works over or within an ordinary watercourse; or commence operations in an ordinary watercourse channel - Develop, communicate and implement a suitable, adequate and effective method statement, where any watercourse diversion is to be undertaken - Consult with the EA / NRW as to the need for an abstraction licence where overpumping operations are to be undertaken - Obtain formal approval from the EA / NRW prior to the use of any herbicide in or near a watercourse (i.e., within 10m of a watercourse) - Plant and equipment entering or working alongside watercourses should be well maintained, clean and free from oil leaks - Prevent liquid / solid debris falling into a watercourse or onto an embankment during construction activities. - Ensure conformance to requirements of any obtained consent / approval.	No
Works in Tidal Waters	Consult with the Marine Management Organisation / EA (<i>in England</i>); the NRW (<i>in Wales</i>) before any construction works commence in, near, under or over tidal waters to ensure that all appropriate consents are obtained.	No
Site Drainage	- Develop and display a site drainage plan that identifies surface and foul water drainage systems and nearby controlled waters - Implement and maintain control measures to ensure site drainage does not contaminate drains or watercourses e.g., cut-off ditches / silt fences - Provide tool box talks to relevant personnel and contractors that effluent must not be poured down surface / foul water drains without permission.	Yes

Washing Activities	- Conduct all washing and cleaning operations (including the washing of vehicles and / or plant) in a designated area, which should be isolated from the surface water drainage systems and within hardstanding areas. - Ensure no detergent contaminated wash down effluent is allowed to enter controlled waters unless permitted by the EA / NRW - Direct detergent contaminated wash down effluent via the foul sewer (after having gained permission from the Water Company or ensure that it is contained for off-site disposal. - Establish an impermeable concrete / mortar washout area at least 10m away from drains; surface waters; or trees.	Yes
Monitoring	Monitor the quality of watercourses potentially affected by site activities at least once per day and at agreed locations whilst construction operations are in progress, which may involve visual monitoring and / or physical (e.g., pH; suspended solids; total organic carbon) sampling.	Yes

5.3. Ecological Management

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Works in Protected Areas	- Consult with Natural England / Natural Resources Wales and / or the local Planning Authority before works commence within a conservation area e.g., Ramsar site; SAC; SPA; AONB; SSSI, NNR, ESA; NHA; or a local conservation designation - Develop and submit a method statement to NE / NRW - Ensure a Phase 1 Habitat Survey has been conducted by a competent person (e.g., qualified ecologist and / or arboriculturist), where necessary - Communicate control measures defined within the Habitat Survey to all staff and relevant subcontractors - Provide information (e.g., site induction / tool box talks) to site personnel.	No
Protected Species	- Ensure a Phase 1 Habitat Survey has been conducted by a competent person (e.g., qualified ecologist) where the presence of protected ecological resources are known / suspected - Ensure an extended Phase 2 Habitat Survey is conducted by a competent person to assess the potential presence of protected fauna and / or flora; if required as a result of a Phase 1 Habitat Survey - Ensure protected faunal species surveys (e.g., bat surveys) are conducted where their presence has been identified	No

	• Develop and implement a method statement (that should be agreed with NE / NRW) for the management of protected species that includes all relevant recommendations made within ecological surveys • Obtain and fully implement the conditions of a European Protected Species Licence i.e., Development Licence, if required • Phase all construction activities to ensure that proposed construction works avoid disturbance and / or damage to local ecological constraints • All site clearance works would be undertaken outside bird nesting season (March to August inclusive); however, if works cannot be avoided during the nesting season an ecologist should supervise clearance works • Create a physical separation between construction operations and ecologically sensitive areas e.g., fencing • Staff and subcontractors to report any protected flora / fauna discovered during construction to site management. Suspend all works within that area until authorised by an ecologist and site management • Provide information (e.g., site induction / tool box talks) to site personnel.	
Tree & Hedgerow Protection	• Consult with the local planning authority to determine whether there are any TPOs in effect or whether trees are within a conservation area • Consult with the local planning authority to determine whether hedgerows are designated as an 'important' hedgerow • Ensure permission (i.e., section 211 Notice / Tree Felling Licence) is obtained from the local planning authority / Forestry Commission / NRW for works to protected trees e.g., tree surgery / felling and / or uprooting • Ensure a Tree Felling Licence is obtained from the Forestry Commission / NRW for the felling of more than 5m³ of non-protected trees • Ensure a Hedgerow Removal Notice is formally submitted to the local planning authority if the full or part removal of a hedgerow is required • Ensure a Phase 1 Habitat Survey has been conducted by a competent person (e.g., qualified arboriculturist) where the presence of Tree Preservation Orders (TPOs) / important hedgerows are known / suspected • Create a physical separation between construction operations and ecologically sensitive areas e.g., fencing • Erect tree fencing to protect tree roots from construction activities e.g., vehicle and / or plant use; installation of underground services and / or hard or soft surfaces • Provide information (e.g., site induction / tool box talks) to site personnel.	Yes
Invasive Species	• Ensure a Phase 1 Habitat Survey has been conducted by a competent person where the presence of invasive species are known / suspected • Develop and implement a method statement for the management of invasive species as well as the disposal of invasive species wastes	No

	• Segregate invasive plant species locations from construction activities using durable fencing • Prevent the spread of invasive species through use of exclusion zones; boot wash facilities; wheel wash facilities etc. • Provide information (e.g., site induction / tool box talks) to site personnel.	
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5.4. Land Use Management

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Earthworks	- Develop an earthworks method statement where more than 50m³ of spoil is to be excavated – refer to HS&S-STD-L03; section 5 - Avoid stripping soil following periods of heavy rainfall (i.e., 5mm or more in a 24-hour period), when practicable - Keep areas of exposed ground to a practicable minimum - Segregate top and subsoil stockpiles - Handle soils carefully to minimise potential soil structure damage - Keep temporary stockpile heights as low as possible given space restrictions e.g., 3m for topsoil and 4m for subsoil - Minimise run-off from stockpiles by light compaction and at an angle of no more than 45°, use of trenches and locating stockpiles away from drainage systems and watercourses - Protect stockpiles to minimise erosion losses and weed infestation if storage is to be longer than 6 months (e.g., seeding or light compaction) - Protect stockpiles (e.g., using berms) from flooding to avoid soil losses - Keep traffic off soil stockpiles, as much as possible, throughout the period of soil storage - Display clear and unambiguous signage to notify site personnel of the presence of different types of soil stockpiles - Avoid reinstating soils following periods of heavy rainfall (i.e., 5mm or more in a 24-hour period), when practicable - Reinstate subsoil to maintain natural drainage patterns and avoid settlement - Reinstate topsoil by rendering into a loose and workable condition as well as contouring to maintain the profile with the adjacent undisturbed area - Implement effective temporary and / or permanent soil erosion control measures, where necessary - Implement and maintain suitable, adequate and effective control measures to prevent run-off from stockpiles contaminating surface waters.	Yes
Contaminated Land	- Cordon off areas of contamination from those that are uncontaminated - Develop and implement a remediation and / or disposal strategy for the management of contaminated land - Use competent contractors to implement any defined remediation and / or disposal strategy	No

	• Ensure all appropriate environmental permissions have been obtained where remediation, reuse and / or disposal of contaminated soils is to be undertaken e.g., a Mobile Plant Licence or an Environmental Permit or Exemption; Waste Acceptance Criteria Testing has been undertaken on treated and / or untreated soils when disposing to landfill • Store contaminated soils in areas effectively demarcated from construction works and access / egress routes • Place soils on impermeable surfaces to prevent contamination of the underlying ground • Cover stockpiles to prevent windblown dust or the ingress of rainwater, where practicable • Implement controls for containing surface water run-off from contaminated stockpiles to prevent the uncontrolled discharge of contaminated effluent • Display clear and unambiguous signage to notify site personnel of the presence of contaminated soils.	
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5.5. Nuisance Management

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Noise and Vibration Controls	• Limit operation times to agreed working hours • Comply with Section 61 Agreements (agreement with Local Authority to limit noise), if applicable • Notify and consult with all potentially affected parties that may be adversely affected from construction site noise either via verbal face to face communications or letter drops (HS&S-FRM-C03-06) • Provide the local authority with advance notice of any works scheduled to take place outside agreed working hours • Assess (e.g., via structural surveys) any and all structures that may be adversely impacted by vibration from vehicles or site activities • Select inherently quiet plant, where appropriate • Ensure all major compressors are 'sound reduced' models fitted with properly lined and sealed acoustic covers, where appropriate, that are kept closed whenever the machines are in use • Ensure all ancillary pneumatic percussive tools are fitted with mufflers or silencers of the type recommended by the manufacturers • Position ancillary plant (e.g., crushers, screeners, generators, compressors, pumps) to reduce noise disturbance, i.e. furthest from receptors or behind noise barriers	Yes

	• Ensure subcontractors properly maintain and operate all plant according to manufacturer's recommendations so as to avoid causing excessive noise • Place vibrating equipment or plant on a base separate to that on which any sensitive structure is located to reduce vibration impacts • Programme deliveries to arrive during daytime hours only • Take care when unloading vehicles to minimise noise • Route delivery vehicles so as to minimise any noise disturbance to local residents as well as reducing potential vibration impacts upon structures • Do not leave plant engines unnecessarily idling • Erect site hoarding, screens or barriers, as necessary and practicable, to shield noisy activities • Regularly monitor both on and off site to ensure minimal noise and vibration impacts upon local neighbours and wildlife.	
Dust & Odour Controls	• Ensure all construction traffic follows specifically designated routes: – Implement speed limits for all vehicular movements – Cover all vehicles carrying loose materials – Dampen down haul roads, as necessary, to reduce dust emissions • Conduct all cutting and grinding operations in a manner to reduce the risk of dust migration e.g., wet cutting techniques • Adopt dust suppression techniques (e.g., water suppression) to reduce dust emissions from all crushing and screening activities • Locate stockpiles away from any sensitive receptors, where feasible • Seed / seal soil stockpiles to reduce the risk of dust migration • Regularly monitor both on and off site to ensure minimal dust and odour impacts upon local neighbours and wildlife.	Yes
Visual Impact & Light Controls	• Erect site hoarding, screens or barriers, as necessary and practicable, to screen site activities • Choose and assemble site lighting to reduce light nuisance impacts to local neighbours and wildlife • Position lighting properly and direct light downwards to minimise impacts of light pollution on neighbours and wildlife • Switch off site lighting or minimise its use during periods of site inactivity • Keep site boundaries clean and tidy at all times • Maintain hoarding and / or fencing so as to be free of graffiti and non-project specific posters • Repair damaged or unsightly hoarding and / or fencing, as soon as possible.	Yes

5.6. Resource Management

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project.

These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Energy Conservation	- When possible, procure electricity supplies through the GT plc energy broker - Ensure time controls and thermostats are set to take account of unoccupied periods so that heaters are off when there is no one around - Fix any draughts or damage to windows, window frames and / or doors - Ensure windows / doors are closed when the heating systems are on - Insulate hot water distribution pipes - Switch off all non-essential lighting in unoccupied areas - Switch off external lighting during the day - Ensure light sensors and timers are correctly set - Make sure generator(s) are correctly sized for their proposed use - Ensure generators or other diesel plant are not left unnecessarily idling - Make sure generator(s) are regularly maintained by the owner / supplier - Ensure construction plant are well maintained to maximise fuel efficiency - Ensure compressors correctly sized for their proposed use - Ensure there are no leaks or damage to compressor systems - Ensure compressors turned off to avoid being left unnecessarily idling - Make sure compressor(s) are regularly maintained by the owner / supplier - Ensure unused office equipment (e.g., printers, mobile phone chargers, fans, coffeemakers, radios) that drain energy when not in use are turned off and / or unplugged - Ensure power management features are enabled (i.e., sleep mode) on all office equipment (e.g., photocopiers, printers, and computers) - Ensure office equipment (e.g., computers, monitors, photocopiers) are turned off at the end of the work day - Ensure photocopiers / printers are set to default by printing on both sides - Ensure electrical appliances (e.g., fridges) have a European Union Energy Rating of A or B - Provide employees / subcontractors with awareness training regarding conserving energy and hence reducing costs - Encourage employees / subcontractors to suggest energy saving ideas.	Yes
Water Conservation	- Turn off hose pipes when not in use - Switch off taps when not in use - Ensure there are no water leaks - Within site accommodation, use water boilers rather than kettles to encourage water savings	Yes

	- Where possible, install water efficiency measures e.g. low water flush toilet cisterns - Where feasible, implement rainwater harvesting on site - Provide employees / subcontractors with awareness training regarding water conservation - Encourage employees / subcontractors to suggest ideas for saving water.	
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5.6.1.1. Sustainable Procurement

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Supplier Assessment	Ensure procurement teams / buyers undertake a supplier pre-qualification assessment that focuses on business management including environmental and social issues.	Yes
Material Ordering	- Avoid over-ordering of construction materials i.e., material waste allowance rates should be kept $\leq 5\%$. - Ensure suppliers and subcontractors are contractually obliged to take-back construction / product wastes e.g., pallets; packaging.	Yes
Timber Procurement	- Ensure all timber / timber products purchased for either temporary or permanent works are certified as legally and sustainably sourced, as defined by the UK Government Central Point of Expertise on Timber. - Periodically conduct the following checks upon the delivery of timber / timber products to site: - Verify that FSC / PEFC Chain of Custody (CoC) certificate(s) provided are valid and genuine - Check the CoC certificate number matches the delivery note - Check that the relevant claim to each product supplied (e.g., Mix 70%, 100%, Recycled Credit) is specified on the delivery note.	Yes
Aggregates Procurement	- Maximise the use of cement replacement products in concrete mixes - Maximise the use of Recycled Concrete Aggregate (RCA).	Yes
Reduce packaging waste	- Minimise packaging waste on products supplied - Work with suppliers to implement packaging take back schemes.	Yes
Local suppliers	Where possible, use local suppliers to reduce transportation costs and maintain a low carbon footprint.	Yes

5.6.2. Hazardous Materials Management

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Hazardous Materials Storage	• Develop a Spill Response Plan (HS&S-FRM-E04-01) • Store hazardous materials more than 10m from a watercourse or surface water and / or foul water drainage gullies • Undertake COSHH assessment for hazardous materials (HS&S-FRM-H02-01) • Segregate COSHH raw material stores and COSHH waste stores • Develop a Hazardous Materials & COSHH Register documenting materials stored and handling requirements (HS&S-FRM-H02-02) • Store hazardous material containers on secondary containment systems that will contain 110% of the contents of the largest container or 25% of the total, whichever is greater • Protect hazardous material containers so as to minimise the ingress of rainwater and secure them against accidental damage • Maintain and inspect hazardous material bunds and spill kits • Monitor hazardous material storage areas for leaks and signs of spillage • Provide site spill kits with instructions in areas of high risk (refer to HS&S-BPG-E04-101) • Undertake spill response exercises / drills at a frequency as defined within the Spill Response Plan • Train staff in the use of spill kits and the correct disposal of used material.	Yes
Refuelling	• Undertake all plant refuelling on hardstanding or within defined areas that utilise drip trays / plant nappies • Provide secure valves and nozzles on fuel storage tanks / bowsers • Conduct refuelling activities at least 10m away from watercourses or surface / foul water drainage gullies • Locate spill kits in all appropriate locations, with instructions for use • Ensure training has been provided to those that conduct refuelling activities on correct refuelling procedures.	Yes

5.6.3. Raw Material Storage

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Storage of Raw Materials	- Store and handle all construction related materials so as to prevent: - Damage - Degradation of material quality characteristics - Contamination of the material and / or the external environment - Excessively long on-site storage periods - Loss through theft and vandalism - Conduct walk-through surveys (using the Workplace Weekly HS&S Inspection (HS&S-FRM-M02-02)) to review construction related material handling and storage practices to ensure that material integrity and quality are being maintained and that their handling and storage is not contributing to an adverse environmental impact.	Yes

5.6.3.1. Aggregates

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Import of Recycled Aggregates	- Include the wording provided in HS&S-BPG-R02-108; section 1 in all purchase orders for recycled aggregates - Ensure that recycled aggregates have been produced in conformance with the Aggregates Quality Protocol: Production of Aggregates from Inert Wastes if more than 5,000 tonnes (over a 3 year period) are to be imported. Retain documentation, as detailed within HS&S-BPG-R02-103 to verify conformance to the Aggregates Quality Protocol - Obtain a U1 Environmental Permit Exemption for the import of less than 5,000 tonnes (over a 3 year period) of recycled aggregates that does not conform to the Aggregates Quality Protocol - Develop and / or obtain a Materials Management Plan (compliant with the CL:AIRE Code of Practice) or an Environmental Permit for	No

	the import of more than 5,000 tonnes (over a 3 year period) of recycled aggregates that does not conform to the Aggregates Quality Protocol - Reject all loads of delivered recycled aggregates that does not appear to meet the defined material specification e.g., 6F2; 6F5; Type 1; Type 2 - Reject all loads of delivered recycled aggregates that contains more than 1% by mass of Class X materials i.e., wood, plastic and / or metal - Reject all loads of delivered recycled aggregates that contains any asbestos materials or smells of hydrocarbons e.g., oils / diesels.	
Crushing Inert Aggregates	- Ensure that subcontractors' crushing plant has been issued with a PPC Permit issued by a Local Authority. Retain a copy of the issued PPC Permit within site documentation - Ensure that recycled aggregates are produced in conformance with the Aggregates Quality Protocol if more than 5,000 tonnes (over a 3 year period) are to be produced. Retain documentation, as detailed within HS&S-BPG-R02-105 to verify conformance to the Aggregates Quality Protocol - Obtain an Environmental Permit if more than 5,000 tonnes (over a 3 year period) of aggregates / soils are to be screened on-site - Obtain a T5 Environmental Permit Exemption if less than 5,000 tonnes (over a 3 year period) of aggregates / soils are to be screened on-site - Obtain a U1 Environmental Permit Exemption for the use of less than 5,000 tonnes (over a 3 year period) of crushed recycled aggregates that does not conform to the Aggregates Quality Protocol - Develop and / or obtain a Materials Management Plan (compliant with the CL:AIRE Code of Practice) or an Environmental Permit for the use of more than 5,000 tonnes (over a 3 year period) of recycled aggregates that does not conform to the Aggregates Quality Protocol.	No

5.6.4. Soils

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Import of Soils	Obtain documentation from the supplier, irrespective of the topsoil is premium, general purpose or economy grade, to verify that the topsoil satisfies the requirements of BS 3882	Yes

	- Obtain a U1 Environmental Permit Exemption for the use of less than 1,000 tonnes (over a 3 year period) of waste soils - Develop and / or obtain a Materials Management Plan (compliant with the CL:AIRE Code of Practice) or an Environmental Permit for the import and use of more than 1,000 tonnes (over a 3 year period) of waste soils.	
Export of Soils	- Ensure that a Materials Management Plan (compliant with the CL:AIRE Code of Practice) is developed or an Environmental Permit is obtained for the export and use of more than 1,000 tonnes (over a 3 year period) of waste soils - Ensure all waste Duty of Care legislation is complied with in relation to the transport and disposal of waste soils (refer to Section 5.1).	No

5.7. Cultural Heritage Management

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Earthworks	- Consult with the local planning authority and / or Historic England (HE) / Cadw (Welsh Historic Monuments), where relevant, before works commence in areas of known or suspected cultural heritage assets e.g., archaeology; listed buildings - Develop and submit a method statement to HE / Cadw for works that may impact known or suspected cultural heritage assets - Install effective segregation around known or suspected cultural heritage assets from construction activities - Erect signage to notify project personnel of the presence of known or suspected cultural heritage assets - Ensure an archaeological Watching Brief is present to monitor construction activities (e.g., top-soil stripping; excavations) in areas of known or suspected cultural heritage assets - Use toothless buckets, when a Watching Brief is present, to remove topsoil in areas of known or suspected cultural heritage assets - Suspend all construction related works, in the immediate vicinity, if a suspected cultural heritage asset is identified - Report the identification of any cultural heritage asset to the local planning authority - Report and record any damage cultural heritage assets - Provide information (e.g., site induction / tool box talks) to site personnel.	Yes

Works on or near Cultural Heritage Assets	- Consult with the local planning authority prior to any demolition works within a conservation area - Obtain Listed Buildings Consent from the local planning authority for any works to a Listed Building - Ensure construction designs are sensitive to the presence of known cultural heritage assets - Conduct structural surveys before construction activities commence to ensure any vibration impacts do not damage known cultural assets - Report and record any damage cultural heritage assets - Provide information (e.g., site induction / tool box talks) to site personnel.	Yes
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5.8. Traffic Management

The environmental control measures defined below apply to all personnel including company employees, sub-contractors, suppliers and third parties; and all activities and operations associated with the project. These environmental control measures are in addition to the project specific control measures defined with the Environmental Risk Action Plan (HS&S-FRM-E06-02).

Risk	Environmental Control Measure(s)	Applicable on this project (Yes / No)
Use of Public, Temporary & Permanent Haul Roads	- Develop and implement a Traffic Management Plan in accordance with the requirements of HS&S-STD-T02 - Identify local receptors that may be adversely impacted by traffic related nuisance complaints (e.g., noise, congestion and visual) - Establish and maintain contact with local residents and other potentially affected parties prior to the commencement of, and during, construction works in order to avoid any potential traffic nuisance related complaints - Ensure all construction related traffic uses agreed access points, as defined within the Traffic Management Plan - Ensure contractor Heavy Goods Vehicles are in good working order and hold a valid MOT certificate - Ensure all vehicles carrying loose material are covered - Obtain permission from the owner of street furniture (e.g., local authority or Local Highway Authority) prior to attaching directional signage - Install hardstanding to reduce mud transfer onto public roads - Use wheel wash facilities / road sweepers, where appropriate, to keep public roads clear of dust and mud - Ensure all material suppliers adhere to agreed working hours in relation to material deliveries - Ensure all vehicles adhere to the site speed limits.	Yes

6. ROLES AND RESPONSIBILITIES

Key project roles and responsibilities are provided in Appendix 2.

7. SUBCONTRACTOR MANAGEMENT

The project will engage various subcontractors to carry out project construction related activities. These subcontractors are responsible for performing all work in conformance with:

- Relevant environmental legislation and other environmental requirements e.g., Pollution Prevention Guidelines
- The requirements of this Project Environmental Plan and Galliford Try Environmental Standards
- Contractual environmental requirements.

Subcontractors are required to develop suitable, adequate and effective method statements that explicitly define the measures to be taken to manage significant environmental risks associated with their scope of works. No works should be permitted to commence until such method statements have been developed and approved by site management and where necessary the HS&S Advisor. Additionally, subcontractors are required to provide sufficient and competent resources to monitor conformance with their own defined method statements.

Galliford Try should also conduct monthly Site Safety and Environmental Reviews (SSERs) that will assess subcontractor conformance to approved method statements, relevant environmental legislation and the requirements of the Galliford Try Environmental Standards.

8. COMMUNICATION AND LIAISON

The communication of project related environmental information to key stakeholders is a vital element in maximising project environmental performance. Hence, the Operations Management Team, with the assistance of the HS&S Advisor, will proactively communicate pertinent environmental information, as detailed below.

8.1. Communication with Client Representatives

Environmental information to be communicated to the Client as required on an ad-hoc basis, and formally at monthly progress meetings.

8.2. Communication with Suppliers and Subcontractors

During the tender stage suppliers and subcontractors will be made aware of the specific environmental requirements for working on site and for identifying and dealing with specific environmental issues associated with their work packages. Additionally, pertinent environmental information will be communicated to suppliers and subcontractors prior to initiating their work packages e.g., during pre-start meetings and the site induction process.

This Project Environmental Plan and other relevant environmental management documentation (e.g., Spill Response Plan; Environmental Risk Register and Environmental Risk Action Plan) will be made available on site notice boards.

8.3. Communication with the public

The Operations Management Team will liaise with the local community throughout the duration of the project on an as needed basis. However, all potentially affected parties that may be subject to disruption and / or disturbance as a result of project activities will be consulted and / or notified either via verbal face to face communications or letter drops (HS&S-FRM-C03-06). Additionally, site specific activities will be planned to minimise disturbance and disruption to local communities, schools, colleges and local businesses. Furthermore, specific local community events (e.g., presentations; open days; site tours) will be held, as required, to foster a strong and open relationship with the members of the local community.

8.4. Communication with external parties

Environmental communications will be conducted, as required, with the following:

- Environment Agency (EA)
- Environmental Health Officer (EHO) from Manchester City Council
- United Utilities

The purpose of maintaining a proactive and open dialogue with external parties (including regulators) is to ensure compliance with statutory and project environmental requirements is maintained.

9. MANAGING COMPLAINTS

The Operations Management Team will ensure that all environmentally related complaints are recorded via the HS&S Department database.

Thereafter, each substantiated complaint will be managed in accordance with the Galliford Try Accident and Incident Reporting Standard (HS&S-STD-A01) that requires each complainant to be contacted within two working days of the complaint being received and the complaint thoroughly investigated and closed out in a timescale agreed with the complainant. The HS&S Advisor will also ensure that environmentally related complaints are effectively closed out during the monthly SSERs.

10. ENVIRONMENTAL INCIDENTS AND EMERGENCY RESPONSE

All environmental incidents should be initially reported to the Senior Site Manager (who should report to Clients, when required) who should ensure Business Unit Directors, the HS&S Department and enforcement authorities are contacted, as defined below:

SIGNIFICANT ENVIRONMENTAL INCIDENTS	Definition:
	Any release to land, water or air resulting in a breach of an environmental regulation.
	A spill of a hazardous material that cannot be controlled or has entered, or could enter, a drain or watercourse.
	Damage to protected flora, fauna or protected habitats and conservation areas
	Receipt of any enforcement action from a regulatory body.
Reporting: Should be notified, by the Senior Site Manager, to the Business Unit Directors and the Regional Environmental and Sustainability Manager as soon as details are confirmed, but no later than 1 hour after incident occurrence. Following contact with Business Unit Directors and the Regional Environmental and Sustainability Manager, the Environment Agency / Natural Resources Wales or local authority should be contacted, when necessary, by telephone as soon as practicable, but no later than one (1) hour after incident confirmed (refer to contact details below).	

MINOR ENVIRONMENTAL INCIDENTS	Definition:
	Any emission of dust, odour, noise, vibration and / or light to the external environment such that it results in a complaint from project and / or non-project personnel.
	A spill of a hazardous material that can be controlled or has not entered, and cannot enter, a drain or watercourse.
	Any action that has the potential to cause a negative visual impact e.g., mud on the public highway; poor soil management that could result in poor agricultural or amenity reinstatement standards.
Reporting: Should be reported by the Senior Site Manager to Business Unit Directors and HS&S Advisor within 48 hours and logged in the HS&S Department Database.	

Callout personnel for 24-hour coverage should be arranged by the Operations Management Team to take control of and investigate out of hour's incidents. The names and contact numbers of these personnel, and the Environment Agency's 24-hour emergency hotline, will be displayed on site and related to site personnel during the induction process.

The Senior Site Manager will, when necessary, report incidents to the Environment Agency (EA) via:	
• EA 24-hour Emergency Hotline	0800 80 70 60

In the event that project personnel identify a suspected cultural heritage asset (e.g., archaeological artefact) all construction related works in the immediate vicinity should be stopped. Thereafter, the find should be reported to the Senior Site Manager and the HS&S Advisor who should take all necessary and appropriate action(s), as defined in Galliford Try Standard (HS&S-STD-C04; Cultural Heritage Management).

Furthermore, in the event that project personnel identify suspected rare or invasive plant species and / or rare fauna (e.g., Great Crested Newts, Water Voles, Bats, Barn Owls, Badgers and breeding Birds) all construction related works in the immediate vicinity should be stopped. Thereafter, the find should be reported to the Senior Site Manager and the HS&S Advisor who should take all necessary and appropriate action(s), as defined in Galliford Try Standard (HS&S-STD-E03; Ecological Management).

The Galliford Try Standard entitled Emergency Preparedness & Response (HS&S-STD-E04) describes the actions required to plan for the effective management of potential environmental emergency incidents so as to minimise any potential detrimental environmental impacts.

As a result of implementing this Standard, a Spill Response Plan (SRP) (HS&S-FRM-E04-01) has been developed and made available to all site personnel. Additionally, the Operations Management Team will ensure that this SRP is tested at least once and that site personnel are adequately trained in its requirements.

The Operations Management Team should ensure that environmental emergency equipment (e.g. spill kits) appropriate to the significance of the spill risk and the sensitivity of the surrounding environment are appropriately located and maintained on site.

In the event of a major hazardous material spill incident (i.e., incidents which cannot be dealt with using equipment available on site or spills / pollution which have, or are likely to, enter(ed) a watercourse / drain) site personnel should call the following 24-hour national spill response hotline:

Adler and Allan Ltd.
(Response Time: Within 4 hours)
Membership Number: GAL014

0800-592-827

All environmental incidents, complaints and unexpected finds should be logged in the HS&S Department Database, investigated and closed out by the HS&S Advisor.

11. ENVIRONMENTAL TRAINING

Courses are run by Galliford Try covering various environmental issues, as defined in the Galliford Try HS&S Training Matrix. For site personnel, the site induction will be used to promote overall environmental awareness as well as employee and subcontractor environment management responsibilities. The site induction will be further enhanced through the delivery of a series of toolbox talks that should be delivered to relevant site personnel on an on-going basis.

The environmental toolbox talks that should be delivered on this project are as follows:

ENVIRONMENTAL TOOL BOX TALKS	
HS&S-TBT-C04-301	Archaeology
HS&S-TBT-E03-301	Tree Protection
HS&S-TBT-E03-311	Birds
HS&S-TBT-E03-319	Bees
HS&S-TBT-E04-301	Spill Control
HS&S-TBT-E04-302	Petrol, Diesel and Oils
HS&S-TBT-L03-301	Re-Useable Soil Resources on-site
HS&S-TBT-L03-302	Soil Planning and Management
HS&S-TBT-L03-303	Stripping Topsoil
HS&S-TBT-L03-304	Stripping Sub-soil
HS&S-TBT-L03-305	Stockpiling Soil
HS&S-TBT-L03-306	Spreading Soil
HS&S-TBT-L03-307	Sourcing Topsoil
HS&S-TBT-L03-309	Soil Aftercare
HS&S-TBT-L03-310	Use of Surplus Soil
HS&S-TBT-L03-311	Working with Previously Developed Land
HS&S-TBT-N02-301	Dust and Air Quality
HS&S-TBT-N02-302	Noise and Vibration
HS&S-TBT-N02-303	Be a Good Neighbour
HS&S-TBT-R02-301	Materials Management and Housekeeping
HS&S-TBT-R02-302	Energy Conservation – Construction Site Good Practice
HS&S-TBT-R02-303	Timber Procurement
HS&S-TBT-W01-301	Waste Management

HS&S-TBT-W01-302	Storage of Waste
HS&S-TBT-W01-303	Waste Segregation
HS&S-TBT-W05-301	Water Pollution Prevention
HS&S-TBT- W05-302	Water Pollution - Silt
HS&S-TBT- W05-303	Water Pollution - Cement and Concrete
HS&S-TBT- W05-305	Washing Down Plant and Machinery

The delivery of these environmental tool box talks should be planned during the '4-week planning meeting' (using HS&S-FRM-C01-03) that is held between the Operations Management Team and the HS&S Advisor.

12. ENVIRONMENTAL AUDITS AND INSPECTIONS

Continuous monitoring of environmental performance will take place via regular Site Safety and Environmental Reviews (SSERs), which establishes employees' and subcontractors' compliance to the requirements of the EMS, this PEP, method statements and the Client and statutory obligations.

SSERs will be conducted by the HS&S Advisor with any findings being copied to the Senior Site Manager who should ensure that appropriate corrective and remedial action(s) are taken in a timely manner. Environmental information from SSERs are collated by the HS&S Department and analysed for any arising trends. From this analysis, preventative action is taken to prevent recurrence e.g., re-briefings, toolbox talks.

The Operations Management Team in conjunction with the HS&S Advisor compiles a monthly HS&S performance report (HS&S-FRM-M02-01) and submits it to David Procter, Regional Manager for Highways Local Authorities North.

PROJECT ENVIRONMENTAL PLAN

HS&S-FRM-P04-02



Appendix 1 – Environmental Risk Register and Action Plan

Contract Name:		Contract Number:																									
Prepared By:		Name / Position:										Regional Environmental & Sustainability Manager:															
Date Prepared / Reviewed:																											
Ref	Activity	Environmental Aspect																									
	DESCRIPTION	NUISANCE						DISCHARGES & EMISSIONS				LAND & RESOURCES				GENERAL											
	Significant Risk	S																									
	Medium Risk	M																									
	Low Risk	L																									
	Not Applicable to Project	N/A																									
	Reset Selection	Applicable?	Noise	Odour	Dust	Traffic	Visual Impact	Vibration / Light	Surface Water	Ground Water	Solid Waste(s)	Liquid Waste(s)	Cultural Heritage	Land Use Management	Materials, Energy & Water Conservation	Ecological Management	Environmental Incident	Other	Environmental Legal Permissions								
			Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	Notes	N/A	GUIDE								
1	Abstraction of Water																										
2	Boring and Bored Tunnelling																										
3	Brick / Blockwork																										
4	Building Refurbishment																										
5	Concrete Batching																										
6	Concrete Pours & Washout																										
7	Crushing, Screening & Material Reuse																										
8	Demolition Works																										
9	Dewatering / Overpumping																										
10	Dredging																										
11	Earthworks																										
12	Erection of Site Fencing																										
13	Excavation																										
14	Exposed Structural Element Repair																										
15	Grouting																										
16	Internal Fit-out																										
17	M&E Work																										
18	Microtunnelling																										
19	Office Maintenance																										
20	Permanent Office Set-Up & Operation																										
21	Piling																										
22	Pipeline Testing & Commissioning																										
23	Planning Conditions																										
24	Plant & Vehicle Maintenance																										
25	Procurement of Materials & Services																										
26	Roadworks																										
27	Site Access / Egress																										
28	Site Clearance																										
29	Site Drainage																										
30	Site Office Set-Up & Operation																										
31	Steelwork Erection																										
32	Storage / Use of Hazardous Materials																										
33	Temporary Works																										
34	Transportation - materials / wastes																										
35	Use of Plant & Vehicles																										
36	Vegetation Clearance																										
37	Washdown Activities																										
38	Working in Tidal Waters																										
39	Working in, near or over Water																										
40	Working with Groundwater																										
41																											
42																											
43																											

Activity	Aspect	Potential Environmental Impact?	Construction Stage	Risk Reduction Control(s) to be Used		Controls Measures included in Method	Environmental Permit-to-Work Required?	By Who?	Date Completed?
				Generic Control (PEP Section)	Site Specific Risk Control(s)				
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

Appendix 2 – Roles and Responsibilities

GALLIFORD TRY TEAM		
NAME / POSITION	KEY ENVIRONMENTAL RESPONSIBILITIES	MOBILE NUMBER
Adam Liu Design / Technical Manager	- Ensure that designs are carried out in compliance with the relevant legislation, the GT Environmental Policy and Standards, guidelines, approved codes of practice and other requirements such as those specified by our clients. - Ensure that regular design reviews and assessments are jointly undertaken with the design and operational staff, as appropriate. - Ensure competency assessments are carried out where design consultants are employed.	07701 370 111
Adam Liu Project Manager	- Be aware of the environmental statutory requirements affecting site activities and seek further advice, if necessary. - Ensure that all site environmental permissions are obtained and conformance the conditions defined within these permissions. - Define project specific environmental objectives / targets – refer to Section 6. - Ensure that environmental risk assessments are effectively monitored, reviewed and communicated. - Organise and plan workplaces so work is conducted in accordance with GT Environmental Standards. - Identify the environmental requirements within method statements and ensure that they are produced and reviewed on time. - Identify method statements' required distribution (e.g. foremen, supervisors, operatives) and ensure that they are followed and controlled, as appropriate. - Ensure adequate supplies of environmental control equipment (e.g., spill response equipment) are available and are appropriately used. - Accompany all Regulatory enforcement officers during any site visits. - Ensure all new employees, contractors and visitors, including delivery drivers, are instructed on project specific environmental requirements. - Ensure site specific environmental training needs are identified and training programmes are undertaken for all levels of site staff and contractors. - Ensure all Supervisors and contractors are aware of their environmental responsibilities. - Report any significant environmental incidents, disciplinary action or enforcing bodies' visits to the HS&S Advisor.	07701 370 111
Rob Stokey Sub Agent	Be aware of the environmental statutory requirements affecting operations and seek further advice, if necessary.	07483 362 717

	• Ensure all new employees, contractors and visitors, including delivery drivers, are instructed on project specific environmental requirements. • Ensure that all relevant persons are briefed on the contents of environmental risk assessments / method statements and monitor operatives (including contractors) for compliance. • Ensure that an adequate supply of environmental control equipment (e.g., spill response equipment) is kept on the site and implement disciplinary procedures against any employee who abuses or does not make full use of this equipment, when required. • In conjunction with the Senior Site Manager plan environmental standards into work activities. • In conjunction with the Senior Site Manager discuss environmental matters with all supervisors, including contractors, on a regular basis. • Ensure all GT inspections are carried out as prescribed in the Company HS&S management system. • Make full use of the services of the HS&S Advisors and co-operate with them to achieve GTs Environmental Standards. • Follow GT Environmental Standards and report any problems in achieving these standards to the Senior Site Manager and HS&S Advisor. • Ensure that the requirements of all environmental risk assessments are brought to the attention of all operatives involved, including contractors. • Actively encourage employees to report environmental problems as soon as they are discovered or if they are anticipated in the future.	
Lee Bulman Regional HS&S Manager	• Liaise with Business Unit Managers on operational environmental issues. • Assist project management to ensure that projects meet GT's Environmental Standards. • Ensure the collation of environmental performance information, as provided by workplace management. • Where working practices are observed that pose a significant environmental risk, ensure that, where possible, the activity is stopped; inform site and Business Unit management immediately; provide appropriate support, advice and assistance in identifying and implementing the necessary remedial actions. • Ensure that the relevant manager is advised if operations are not achieving GT's Environmental Standards, and further advise the Operations Director, Business Unit Managing Director and C&I Head of Health and Safety, as appropriate. • Assist Business Units in the environmental performance management of contractors.	07864 692 445

	• Ensure that significant environmental incidents are reported promptly to the Business Unit Directors, C&I Head of Health and Safety and regulators, as appropriate. • Investigate all environmental incidents as required by GT's Environmental Standards and make known and discuss any significant findings / recommendations within the Business, as appropriate. • In conjunction with the operational staff, identify areas / operations that require specific environmental improvement and assist in the organising or undertaking of such improvements, as appropriate. • Provide feedback to the C&I Environmental Manager on the effectiveness of the C&I's HS&S management systems and any improvements necessary. • Assist Head of Health and Safety and C&I Environmental Manager in maintaining high corporate environmental management standards across the C&I.	
Tim Wilkes Regional Environmental & Sustainability Manager	• Where working practices are observed that pose a significant environmental risk, ensure that, where possible, the activity is stopped; inform site and Business Unit management immediately; provide appropriate support, advice and assistance in identifying and implementing the necessary remedial actions. • Provide specialist environmental input to operational staff through advice, guidance and support e.g., on environmental legislation and industry best environmental practice. • Provide detailed support / guidance in the planning stages of a new project e.g., review the adequacy of environmental risk assessments. • Liaise with Business Unit Managers on operational environmental issues. • Provide information in the form of instructions, Best Practice Guidance, Codes of Practice, Environmental Information Sheets etc., as appropriate, and ensure operational staff are provided with C&I communications on effective environmental working practices and alerts. • Assist operational staff in the review of environmentally high-risk contractors' method statements, provide appropriate assistance in assessing other environmentally related method statements, and monitor the implementation of the same in the workplace, as appropriate. • Ensure that the relevant manager is advised if operations are not achieving GT's environmental standards, and further advise the Operations Director, Business Unit Managing Director and C&I Head of Health and Safety, as appropriate. • Assist project management through advice, information, training and encouragement as appropriate to ensure that projects continually meet Galliford Try's environmental standards.	07977 122 102

	- Promote involvement in environmental management of all operational staff by discussion, briefings, training sessions and effective communication. - Assist in the investigation of all environmental incidents as required by GT's Environmental Standards and make known and discuss any significant findings / recommendations. - Ensure that significant environmental incidents are reported promptly to the Business Unit Directors, C&I Head of Health and Safety and regulators, as appropriate. - Ensure communication with the regulators regarding all relevant environmental inspections and incidents. - In conjunction with the operational staff, identify areas / operations that require specific environmental improvement and assist in the organising or undertaking of such improvements, as appropriate.	
Lee Bulman HS&S Advisor	- Where working practices are observed that pose a significant environmental risk, ensure that, where possible, the activity is stopped; inform site and Business Unit management immediately; provide appropriate support, advice and assistance in identifying and implementing the necessary remedial actions. - Liaise with Business Unit Managers on operational environmental issues. - Provide detailed support / guidance in the planning stages of a new project e.g., preparing the project environmental plans. - Provide information in the form of instructions, Best Practice Guidance, Codes of Practice, Environmental Information Sheets etc., as appropriate, and ensure operational staff are provided with C&I communications on effective environmental working practices and alerts. - Collate environmental information, as provided by workplace management, for monthly reports. - Assist operational staff in the review of environmentally high risk contractors' method statements, provide appropriate assistance in assessing other environmentally related method statements, and monitor the implementation of the same in the workplace, as appropriate. - Ensure that the relevant manager is advised if operations are not achieving GT's environmental standards, and further advise the Operations Director, Business Unit Managing Director and C&I Head of Health and Safety, as appropriate. - Assist project management through advice, information, training and encouragement as appropriate to ensure that projects continually meet GT's environmental standards. - Promote involvement in environmental management of all operational staff by discussion, briefings, training sessions and effective communication.	07736 091 588

	• Ensure induction instructions are reviewed regularly for relevance to current operations, and ensure that they are being effectively communicated. • Ensure that all staff, including office based personnel, receives appropriate environmental training and instruction. • Monitor the Business Units to ensure that all staff, including office based personnel, receive appropriate environmental training and instructions. • Assist Business Units in the environmental performance management of contractors. • Ensure that significant environmental incidents are reported promptly to the Business Unit Directors, C&I Head of Health and Safety and regulators, as appropriate. • Assist in the investigation of all environmental incidents as required by Galliford Try's Environmental Standards and make known and discuss any significant findings / recommendations. • Ensure communication with regulators regarding all relevant environmental inspections and incidents. • Carry out environmental inspections at all workplaces on a regular basis, as appropriate, to ensure compliance with the GT Environmental Policy and Standards. • In conjunction with the operational staff, identify areas / operations that require specific environmental improvement and assist in the organising or undertaking of such improvements, as appropriate. • Provide feedback to the C&I Environmental Manager on the effectiveness of the HS&S management system and any improvements necessary.	
Rob Stokey Waste Champion	• Drive waste performance improvement including on-site materials and waste management practices • Verify the validity of disposal site permits, licenses and / or exemptions. • Ensure that the Galliford Try waste transfer note (HS&S-FRM-W01-03) is completed in full for all non-hazardous waste streams removed from site for reuse, recycling and / or disposal. • Ensure that hazardous waste consignment notes are fully completed for hazardous waste streams removed from site.	07483 362 717
Rob Stokey Spill Responders	• Ensure spill response equipment is available and well maintained • Respond to any spill incident that occurs on-site as long as it is safe to do so • Complete an Environmental Incident Report (HS&S-FRM-A01-02) following any spill incident.	07483 362 717

SPECIALIST SUBCONTRACTORS

NAME / POSITION	KEY ENVIRONMENTAL RESPONSIBILITIES	MOBILE NUMBER
Adler & Allan Limited	- To provide specialist spill response services to the project in the event of a significant spill incident. - To remove waste spill clean-up materials and to provide the site team with all waste duty of care paperwork associated with the disposal of waste spill clean-up materials.	0800 592 827
Pennine Ecological	- Conduct Phase 1 Habitat Survey(s) where the presence of protected ecological resources are known / suspected - Conduct extended Phase 2 Habitat Survey(s) to assess the potential presence of protected fauna and / or flora; if required as a result of a Phase 1 Habitat Survey - Conduct protected faunal species surveys where their presence has been identified - Develop / review method statement(s) for the management of protected species that includes all relevant recommendations made within ecological surveys - Liaise with ecological regulatory bodies to ensure the suitability of method statements - Obtain and fully implement the conditions of a European Protected Species Licence i.e., Development Licence, if required - Implement with the assistance of the site team all physical and management controls, defined with method statements and licences, to protect known flora / fauna - Monitor site works to assure conformance with method statements and / or licences. - Regularly discuss progress and issues with the Senior Site Manager.	01204 844 545
Salford Archaeology	- Develop and submit a method statement to regulatory bodies for works that may impact known or suspected cultural heritage assets. - Obtain in conjunction with the Senior Site Manager all relevant regulatory permissions. - Implement with the assistance of the site team all physical and management controls, defined with method statements and licences, to protect known or suspected cultural heritage assets from construction activities. - Conduct an archaeological Watching Brief to monitor construction activities in areas of known or suspected cultural heritage assets. - Report the identification of any cultural heritage asset to the relevant regulatory body. - Site works to be suspended if cultural heritage assets are identified. - Regularly discuss progress and issues with the Senior Site Manager.	07973 341 297
Waste Contractors	Refer to the Site Waste Management Plan (SWMP).	See SWMP