

EMERGENCY PREPAREDNESS PLAN -(EPP)**Ferry Island - Tottenham****Main Works**

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Revision Number

1.0**Emergency Preparedness Plan (EPP) – Thames Water**

Prepared by:

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Signature:

Joe Tidd

Date: 12/12/22

Approved by

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Signature:

Finian Gogarty

Date: 12/12/22

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1 Document Control.

Revision No	Prepared by	Revised by	Date	Approval by	Date
01	Joe Tidd	N/A	05/12/2022	Finian Gogarty	05/12/2022

Amendment History.

Version No	Date	Section/s Amended	Amendment Details
1.0	12/12/2022		Issued for review by Thames Water

Abbreviations and notes

GMA	Ground Movement Assessment
EPP	Emergency Preparedness Plan
TW	Thames Water

EMERGENCY PREPAREDNESS PLAN-(EPP)

2 Introduction.

This Emergency Preparedness Plan has been prepared to ensure that emergency events at Ferry Island, Tottenham construction site are handled in the correct and responsible manner. The site is adjacent to TW assets in the pavement outside the site. This Emergency Preparedness Plan applies to incidents which may require an emergency response from Midgard Ltd, its subcontractors, Thames Water, and the Emergency Services. Please refer to the TW GMA – TH-IS-00-001-S-451152-905.

3 Contact Numbers

Emergency – FIRST RESPONSE - Contact Numbers

Midgard – Principle Contractor	Contact Number	E-mail
Joe Tidd (Project Manager)	07920874119	joe.tidd@midgard.ltd.uk
Finian Gogarty (CRE)	07825563084	finian.gogarty@midgard.ltd.uk
Harry Bridgewater (ER)	07741322682	H.Bridgewater@Gardiner.com
Mark Swinburne	07714594022	Mark.Swinburne@argenllp.co.uk
Agency	Contact Number	
Thames Water 24-hour service number	0800 316 9800	
Thames Water Waste Operational Control Centre	0800 009 3908	
Thames Water Clean Water Network Management Centre	0800 009 3909	
Emergency Services	999	Police / Fire / Ambulance
North Middlesex University Hospital. Sterling Way, London N18 1QX	020 8887 2000	Accident and Emergency
British Transport Police	020 77524730	British Transport Police
Environment Agency	0800 80 70 60	24 hr helpline
UK Power Network	0800 31 63 105	Emergency contact
Site Address: Ferry Island Ferry Lane London N17 9LZ		

Other Contact Details

Midgard – Principle Contractor	Contact Number	E-mail
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Richard Crompton (CEM)	07717 705 364	richard.crompton@jreddington.co.uk
Ben Dixon (Group Health & Safety)	0208 327 4146	Ben.Dixon@jrlgroup.co.uk
Laura Cabeza Escobar (Environmental Manager)	07810 826 668	laura.cabeza-escobar@jrlgroup.co.uk

Site Address: Ferry Island
 Ferry Lane,
 London N17 9LZ

Works commencement date: February 2023

Works completion date: October 2024

Site working hours (Section 61 site hours): Monday to Friday 08:00 – 18:00
 Other hours by special arrangement only

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4 Action in case of fire:

In the event of a fire on site (or near site that may affect site operations):

- If you discover a fire raise the alarm by activating the emergency button on any fire response unit. The unit is located underneath the south staircase to the cabins. This will activate the alarm throughout site. The location of fire response units are listed on the site notice board.
- Inform a Supervisor of the situation.
- Inform the Responsible Persons (RP) who will liaise with the emergency services
- Do not take any risks. Only try to extinguish the fire after raising the alarm and if it is safe to do so
- Turn off any plant, tools or naked flames
- Evacuate site by nearest gate/exit and walk round to assemble at Ferry Lane. See the site notice boards. Do not stop to collect personal belongings.
- Turnstiles will be turned to free slew in the event of a fire alarm.
- The Midgard Senior Site Manager or his deputy will call the emergency services and provide the details of the emergency, including the most appropriate gate to deal with the fire.
- Fire Wardens and Supervisors will sweep through site towards the muster point, ensuring at all times their own personal safety, to ensure all operatives have evacuated the workplace. On arrival at the muster point they will inform the Senior Site Manager that their area is clear.
- Security will take the visitor signing in sheets to the Muster point
- The Trainee Midgard Site Manager or his deputy will generate a list of persons on site using the turnstile system
- A roll call will be completed using the visitor sign in sheets and turnstile log. Each Supervisor will be responsible for registering operatives and subcontractors in his/her area. Any missing persons must be highlighted immediately, along with their last known location.
- Do not re-enter site until told it is safe to do so by the Senior Site Manager or his deputy

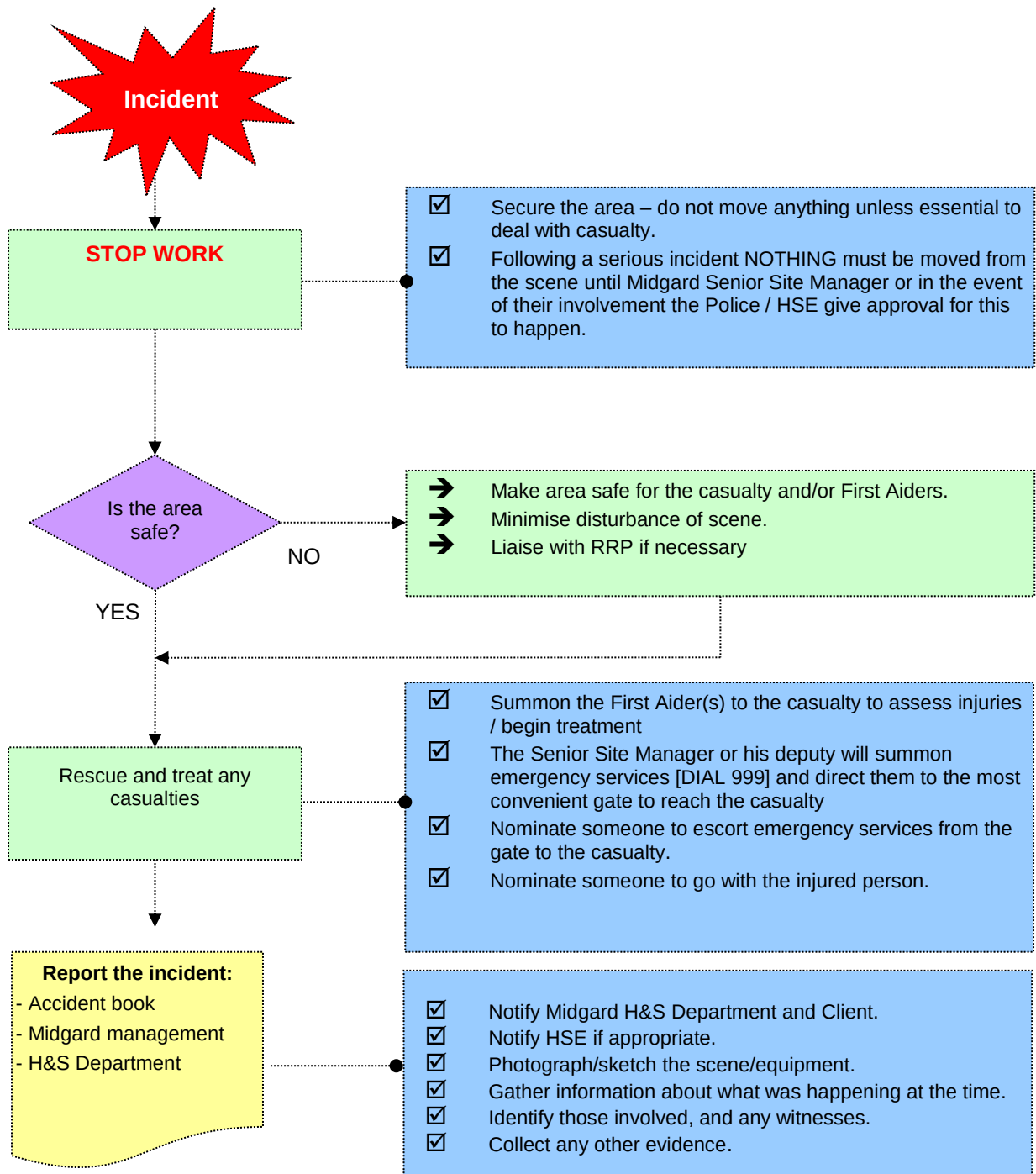
Fire Wardens' Responsibilities:

- Stop all works and plant movement in case of alarm
- Ensure loads, lifts and plant are made safe and switched off
- Evacuate the area and direct personnel to nominated muster point safely
- Assist with all investigation after the incident

The designated Midgard Fire Warden details will be posted on site welfare boards situated around the site.

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5 Action in case of serious injury



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6 Action in case of any injury

- All injuries must be reported to a Midgard Supervisor/Manager.
- The incident must be logged in the Accident Book, which is located in the Midgard site office.
- First aid boxes are located in the Midgard site office and in canteens.
- The Midgard Supervisor responsible will arrange for first aid treatment if required.
- The Midgard First Aider will assess the injury and advise on the need for hospital treatment.
- As soon as possible the Supervisor will report the incident to the Senior Site Manager or his deputy, who will assess the situation and instigate the required response
- All injuries must be reported to Midgard management and the H&S department. The Midgard H&S department will advise when injuries are to be reported to the HSE (RIDDOR Regulations).
- The designated First Aiders and Defibrillator trained staff details are posted on the site welfare boards situated around the site.

7 Accident/incident affecting Thames Water

The **Responsible Person** (RP) is the person or persons in charge of the site y safety.

For this site it will be Joe Tidd

Accident/incident affecting Thames Water

In the event of an accident or incident involving the THAMES WATER infrastructure

- Immediately inform the onsite RP and the Midgard Senior Site Manager or his deputy
- The onsite RP will contact THAMES WATER on 0800 316 9800 and the Midgard Senior Site Manager (or his deputy). Dependent upon the severity of the situation THAMES WATER will instigate the necessary emergency/incident protocol as required.
- The RP will ensure their own safety at all times and will stay on site to maintain the integrity of the THAMES WATER infrastructure in relation to the incident at hand. If deemed necessary by the THAMES WATER, the RP will absolve his/her duties once a more senior THAMES WATER member is on site. The RP will remain on site throughout the incident and complete a full report, on his/her daily site record sheet ready for submittal to the THAMES WATER Site Engineer.
- The RP will assist in any way possible to ensure life is preserved, the THAMES WATER infrastructure is safely maintained.

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Non-injury incident on site (not affecting the TW)

The Midgard Senior Site Manager or his deputy will:

- In the event of an incident occurring on site will take control of the emergency procedures.
- Evacuate site if required and order a roll call
- Call and liaise with the emergency services
- Direct the Emergency Services to the most appropriate gate to deal with the incident
- Nominate someone to escort Emergency Services from the gate to the incident location
- Has authority to keep key personnel on site to assist shutting down and making safe all site plant/machinery. This will be only required if the site is declared safe to have personnel on it.
- Will request assistance, advice or technical support as is required.
- Will contact Midgard Project Manager and H&S Department and give a status report of the events at the scene and regular updates
- Ensure all incidents are reports and appropriately investigated
- Inform the Client as appropriate

8 Utility Cables and Pipelines (not TW)

In the event of any accident or incident involving utility cables/water pipes/gas pipelines the Midgard Senior Site Manager or his deputy will contact the emergency services as required, the relevant utility stakeholder and handle as an incident as described above.

9 Unexploded Ordnance (UXO) / Bomb Threats

In the event of the discovery of a UXO on site the following actions must be taken:

- Stop all works immediately.
- Shut down all plant and machinery and evacuate the area
- Inform the Midgard Senior Site Manager or his deputy
- Do not, under any circumstances, leave the area fully unattended. The person responsible for the work in the area shall stay and create an exclusion zone and cordon off the area by means of cones and tape and signage, if practical. No metal spikes or spikes of any kind are to be driven into the ground. The person responsible for the work will stay outside of the exclusion zone for his/her safety but will remain within sight to monitor the exclusion zone and make sure it is effective.
- The Midgard Senior Site Manager or his deputy will inform the Police
- The Midgard Senior Site Manager or his deputy will contact THAMES WATER as a backup to ensure they have emergency details

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Information to be provided to the Emergency Services:

- Location
- General description (shape, length, material, colour, width, markings, any visible features, damage, noise (if present))
- How it was discovered
- Description of the immediate area surrounding the UXO

10 Falls from Height

In the event of any incident where a worker falls from height and is suspended by a safety harness, the following emergency procedure shall be invoked:

- The Midgard Senior Site Manager or his deputy takes control of the situation.
- The Midgard Senior Site Manager or his deputy calls 999 to notify local police, fire, and ambulance as required.
- A crane operator is put on standby. The operator frees the hook and waits for further direction in case the designated rescue team must perform a basket rescue.
- The Midgard Senior Site Manager or his deputy will isolate the accident zone and its perimeter to limit further exposure.
- The Midgard Senior Site Manager or his deputy removes all non-affected personnel to a safe zone.
- The Midgard Senior Site Manager or his deputy enables radio silence on the jobsite, except for crisis communications from emergency responders.
- The Midgard Senior Site Manager or his deputy sends a designated worker to the site gate to meet the response team (police, medical, fire, etc.) who will ensure that the emergency services have a safe access path to the accident scene.
- The Midgard Senior Site Manager or his deputy assembles the emergency rescue team at the accident site as quickly as possible to determine the best rescue procedure as set out in At Height Rescue.

** For rescue of personnel from works associated with the tower cranes the Tower Crane Rescue Plan should be referred to. A copy of this is retained with the lift plan in the Midgard Site office. **

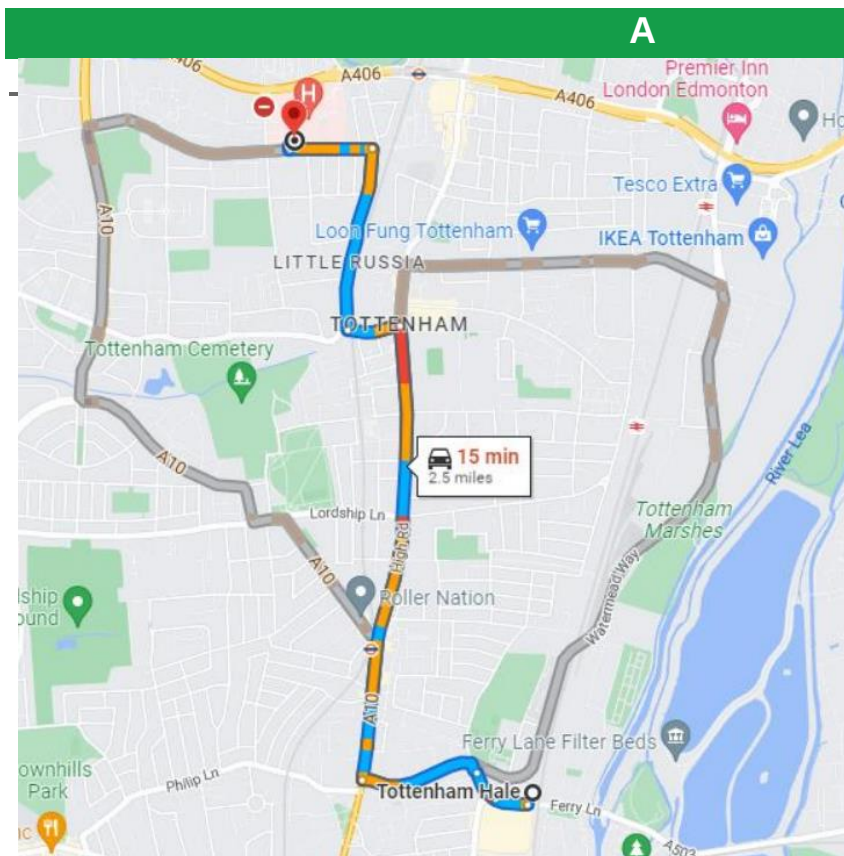
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11 Environmental Incidents

Spill

- The activity Supervisor will handle the incident
 - Stem the source of the leak or spillage
 - Contain the spread of the spill using suitable absorbent materials (soil/sand/granules, etc.).
 - Do not wash the spillage down the drain
 - If the spillage has already entered the drains immediately block them off
 - If a large spill, trenches or bunds should be immediately dug to divert the flow away from the drain or channel
 - Put any contaminated waste material in heavy-duty double bagged labelled plastic sacks and dispose of them as “hazardous waste”
- The spill will be reported to the Midgard Senior Site manager or his deputy who will notify the Environmental Manager if required.
- If the incident cannot be contained locally the Midgard Senior Site Manager or his deputy will seek immediate advice from the Environment Agency.

12 Hospital Details – North Middlesex Hospital



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13 Movement Response Action Plan

INTRODUCTION

Midgard have been provided with the GMA which was prepared to establish the outline requirements for the monitoring to be carried out in connection with the development of Ferry Island.

The Emergency Preparedness Plan uses that specification as the basis upon which to ensure that the monitoring procedures implemented at Ferry Island during the construction phase comply with THAMES WATER's requirements.

The objectives of the monitoring exercise are to:

- Provide an early identification of adverse impacts associated with ground movements on THAMES WATER's assets;
- Verify design assumptions by providing a means of comparing measured and predicted ground movements;
- Provide information to assess the feasibility of adjusting the construction methods, if necessary and subject to THAMES WATER approval.

In relation to the adjacent THAMES WATER assets works monitoring shall comprise supervision of the works with respect to the following:

- Surveying of ground levels during the ground works to ensure that over-digs are prevented and do not exceed that which has been accounted.
- Controlling the movement of plant to ensure that the assumed loads adjacent to the THAMES WATER assets are not exceeded.
- Inspection of all working platforms to ensure that they are well maintained and comply with their design intent. Ensure that the works are undertaken in accordance with the approved RAMS/WPP.

The movement monitoring of THAMES WATER's assets will be carried out by the Midgard Engineer at pavement level and the limits of movement are noted as the trigger levels:

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Trigger Level	Value(mm)	Action
Green	3mm	No action required
Amber	3-5mm	Thames Water should be informed of the breach and the agreed mitigation action should be shared.
Red	5mm	the relevant emergency Thames Water contacts should be informed, and work should be stopped immediately

Works Monitoring

Construction Programme

Prior to the commencement of the works Midgard shall provide a construction programme to the Client and THAMES WATER. The programme shall show the intended timing and order of execution of the works. Any significant changes to the agreed programme shall be communicated to the Client and THAMES WATER.

Construction Records

Midgard shall produce of a weekly record of all construction activities which interface with THAMES WATER's assets and distribute these to the Client and THAMES WATER and this shall include a graphical representation of the construction progress (e.g. a plan illustrating, for instance, which piles have been constructed, what excavation levels have been reached). This may be supplemented by photographs.

Groundwater

The site-specific Ground Investigation indicated that the groundworks would be undertaken in predominantly dry conditions within the Made Ground and the underlying stiff cohesive London Clay which has been revealed to exhibit minimal fissuring. Groundwater flows are therefore not anticipated. Midgard shall carry out regular visual inspections of the groundworks to ensure that any groundwater encountered is dealt with appropriately and swiftly (e.g. pumping). We shall alert the Client and THAMES WATER of any significant quantities of groundwater encountered as soon this is identified.

Pavement Monitoring

Movement monitoring of the pavement is required to be undertaken before, during and after the construction works. Midgard shall undertake the monitoring of the pavements and this shall be carried out manually (total station and metal studs).

Monitoring Locations

Movement monitoring of the pavement outside the site by using metal surveying studs.

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Responsible Parties

Midgard shall:

- Collect all monitoring data.
- Process the monitoring data.
- Communicate the monitoring data.
- Store the monitoring data.
- Interpret the data when readings are approaching or in excess of trigger levels.
- Maintain the monitoring instrumentation.

Baseline Monitoring

Midgard shall establish the monitoring baseline ahead of commencing any works on site that have the potential to cause ground movement (i.e. before excavation). The baseline monitoring shall be carried out for as long as practicably possible ahead of the works commencing. The minimum target length is 2 weeks shall produce a Baseline Monitoring Report and it shall be issued to THAMES WATER. This report shall include:

- Baseline data.
- Details of the plan location and level of the monitoring instrumentation (drawing to be submitted as dwg/dgn and pdf).
- The accuracy of the instrumentation.
- Any calibration constants.

Monitoring Frequency

Where practicable, the monitoring of the pavement shall commence once the instrumentation is installed and has been activated; in order to obtain the best possible picture of background movements ahead of works commencing.

- During piling/excavation works = Daily
- Up-until movement has stabilised = Daily

Monitoring Methodology

The surveying of metal studs attached to the pavement carried out using the fixed control system which has been previously established. This control system shall enable the XYZ position of each stud to be recorded relative to the subsurface.

Data Presentation

The results of the monitoring shall be presented relative to the baseline readings.

Reporting

Reporting of monitoring results to THAMES WATER shall be carried out in the manner and frequency previously agreed with THAMES WATER., Midgard.

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Close-out Reports

A factual Close-out Report shall be produced by Midgard after practical completion. The purpose of this report is to:

- Present the factual pavement monitoring data for the entire period in connection with the development.
- Demonstrate that residual movements have stabilised.

Out-of-Hours Works

For the purposes of this specification, out-of-hours work is defined between the periods of 20.00hrs to 08.00hrs Monday to Friday and anytime at the weekend. No works shall be carried out outside of these hours unless cover is provided by the Midgard. THAMES WATER shall be notified of any out-of-hours work carried out after 20.00hr and the monitoring response period shall include this extended working time.

The anticipated pavement movement is an elastic response which shall manifest itself in direct response to construction activities. As such if construction activities are not being undertaken, significant pavement movement is not anticipated. Furthermore, the immediate response to a confirmed breach of a Red trigger level is to stop works, which shall have occurred anyway during out-of-hours.

Where it is agreed with THAMES WATER that during high-risk activities an out-of-hours monitoring response is required this shall be undertaken by the Project Team. Whilst an out-of-hours monitoring response is in place the Midgard shall undertake daily reviews to identify when the out-of-hours monitoring response is no longer required. The recommendations from this review shall be presented to THAMES WATER and shall be defined as when trending movements in relation to high-risk site activities are no longer projected to intercept the black trigger level.

Thames Water Notification Contact Details

- 1) Any trigger level is breached.
- 2) A problem occurs with the pavement monitoring.

THAMES WATER Contact Details for the Purposes of Notification – 0800 316 9800