**A1 Group H&S Method Statement**

This Health and Safety Method Statement has been prepared by A1 Group and concerns removing all water and silt from the Spout Lane lagoon at Heathrow Airport situated close to Terminal 5 on behalf of MITIE who are undertaking the work on behalf of BAA on the <Insert Date>.

Please find below details of the work to be carried out and any perceived hazards associated to the work involved and should be read in conjunction with quotation provided.

**Nature of Work**

Remove all water and silt from concrete lagoon which is fed from the both the southern and northern runways and is close to Terminal 5. The lagoon contains a mixture of water and anti-freeze and is considered a hazardous waste and must be removed and disposed of securely. The area is does not have pedestrian access and traffic is limited to authorised contractors only and is locked at all times. The plastic balls which are on top of the water will be removed initially and then approx. 18 inches of water pumped out in three tanks (6000 gallon each) approx. 200 ft from the lagoon via 6 inch hoses and then transferred to tankers to then be removed from site to be disposed of securely. The remaining silt will be mixed with the remaining water using cell dredger and pumped into the tanks. Once A1 employees are able to enter the lagoon safely then all the remaining vegetation will be removed and placed into storage tanks for secure removal by a third party. The basin will then be jet vacuumed out by an A1 vehicle once access can be obtained to the bed of the basin.

 **Scope of work for A1 Employee**

1. The task involved is to place three 6000 litre tanks along the perimeter fencing close to the lagoon and two pumps close to the bank of the lagoon. One is diesel and one hydraulic. These are attached to the three tanks and water and silt is pumped from the lagoon into storage tanks and then directly into tankers to be then removed from site

***Security***

1. A welfare unit will be placed at the site entrance and manned at all times by A1 employee whilst the work is in operation between the hours of 7am and 5pm. All contractors entering site will be asked to sign in before entering the site

***Electrical and water supply***

1. All 7 aeration pumps will be switched off and isolated prior to any work commencing and this will need to be signed off by BAA. The water pip that leads into the lagoon will also be closed and confirmed to A1 prior to any work being undertaken.

***Fencing***

1. There is no wildlife present due to the nature of the liquid in the lagoon as it is not oxygenated.
2. Heras fencing will be erected around the three tanks to prevent access. Heras fencing will also be erected along the ramp leading into the lagoon.
3. Heras fencing will be erected at the end of the ramp to store the plastic balls which are currently in the lagoon to prevent birds from setting down in the water as the lagoon is in the flight path for the South runway. Due to the number of balls in the lagoon this will be completed in stages using a forklift with a mesh scoop on the end. There will be sand bag at the bottom of the fencing to prevent balls from escaping the storage area

***A1 Employees***

1. There will be 12 employees working on lagoon at any one time (1 Supervisor, 1 security operative, 3 tanker drivers, 1 7.5 tonne excavator driver, 1 forklift driver and 5 labourers. No signage will be required as no pedestrian or traffic access to lagoon

***PPE***

1. All A1 Group employees will wear correct PPE at all times whilst undertaking all work associated with the contract
	1. Outside lagoon (Hi Vis jacket, hard hat, gloves, safety goggles and ear protection)
	2. Inside of lagoon (Hi Vis jacket, lift jacket, waders, gloves, safety goggles hard hat and ear protection)

***Safe Operating Procedures***

1. All equipment will be removed from A1 vehicles using correct manual handling techniques
2. Spill kits will be available by the pumps and the three tanks
3. Drip trays will be sued when transporting the liquid from the tanks into the tankers

 ***Nature of work***

1. Erect Heras fencing along the entire edge of the slope running into the lagoon to ensure employees / plant or equipment does not fall into the lagoon
2. Once plastic balls are removed from lagoon then A1 will set up 2 pumps - hydraulic pump in the lagoon which will feed into a diesel pump on the bank of the lagoon this initially will remove all surface water into the nearby tanks. Ensure Heras fencing around the pumps
3. Spill kit is at close proximity to diesel in case of spillage
4. Once all water (approx. 18 inches) has been removed then all remaining silt is mixed with remain water using a cell dredger and then removed into the nearby tanks before being pumped into tankers and removed from site. The cell dredger is moved around lagoon using the 7.5 ton excavator
5. Once the silt is down to approx. 6 inches then the 7.5 tonne excavator will drag the remaining silt from the bottom of the basin to an area close to the pumps to allow for further pumping into the onto lorries
6. Ensure that Heras fencing is erected around the excavator and forklift when not in use
7. Once all safety measures have been taken and approved and all silt has been removed A1 employees will enter the basin the ramp at the side of the lagoon and once on the basin floor they will commence cleaning using a vacuum jet wash to clean the bottom of the lagoon to remove the remaining silt
8. Employees will also use brushes and mops to clean the remaining silt from the basin floor with all deposits being removed by either pump or tanker to be disposed of off site
9. Once the concrete floor of the basin is clean then all machinery and personal will be exit the basin floor
10. A1 employees will seek confirmation from client that basin is clean to the specified standards and BAA will then open the gates to allow water etc to renter the basin
11. All plastic balls will be taken from storage area and returned to the lagoon using fork lift truck

**Potential Hazards to A1 Group employees**

The potential hazards and risks to which the teams may be exposed are:

1. *Working in near water/silt*

Control Measure: Care will be required at all times whilst manoeuvring around the lagoon. A1 employees will correct PPE at all times waders, life jackets, gloves and safety goggles. No signage required on site as closed access to traffic and pedestrians.

1. *Noise*

Control Measure: The Lagoon is in the flight path situated close to Heathrow’s southern runway. Ear protection must be worn by A1 employees at all times due to hours being worked whilst on site and the noise levels being in excess of 85dB

1. *Lifting equipment from Lorry*

Control Measure: All A1 Group employees had undertaken correct manual handling and lift training. Where necessary then two A1 Group employees can lift material directly into position by the lagoon to commence pumping operation.

1. *Using 7.5 tonne excavator when removing remaining silt from lagoon*

Control Measure: Excavator to only be operated by A1 employee who is fully trained and possess correct licence. A1 Group will ensure access to these areas is strictly controlled whilst work is being undertaken. No signage is required as area is not a public pedestrian access.

1. *Trip Hazards*

Control Measure: A1 employees will erect signage if deemed necessary to warn of pumps and hoses in operation. As limited number of employees on site the hoses will

1. *Silt Material. There will be approx.* ***XX*** *tonnes of debris collected*

Control Measure: Silt will be pumped into nearby tanks. The tanks will continually be emptied by tanks in a secure area and then removed from site. A1 will keep area isolated although no public access.

***Other:***

* There will be no hazardous materials used
* No chemicals
* No silicone
* No burners
* No oils
* No lubricants
* No gas or naked flames
* No mains voltage tooling

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| **Confirmation** |

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| Print Name:  |

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| Signature:  |  | Date:  |