MPA HIRE LTD – Point of Works Risk Assessment

Site:	Clearwater new development	**Date:**	10/07/23	**Completed by:**	R.Wilson
Task:	To provide outline method statement for the development work to new site			**Reference No:**	
Personnel Involved/At Risk:					

HAZARDS							
Slips & Falls	☐	Entanglement.	☐	Fire	☐	Dust/Fumes.	☐
Falls from Height	☐	Instability	☐	Impact	☐	Noise	☐
Falling Objects	☐	Ejection of Material	☐	Excessive Weight	☐	Vibration	☐
Traps & Crushing	☐	Electrical Shock	☐	Excessive Lifting	☐	Hazardous Substance	☐
Other (Please specify):							

CONTROLS

METHOD STATEMENT

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Work to construct compound area in the new site entrance.

1. Arrive on site with tools and equipment to make the gateway more accessible, and some site signage for deliveries,
2. Remove agricultural fence in the gate way to gain proper access into the field and cut back and shape the hedges either side of the entrance to improve visibility.
3. Take delivery of harris fencing, rolls of 1000 grade Terram, 8 ton excavator, 10 ton dumper, roller, storage container and welfare cabin, which are to be off loaded on the side of the road or in the gate way if possible.
4. The area of the compound has some services running underground so the area must be CAT scanned and cables must be located and marked before any excavation can start, dig down by hand to check the depth of the cables. Water supply to the troughs are also in this area so they must be located in the same way before excavating can start.
5. Mark out the area of the compound 50m by 30m to be agreed with the customer. Using the 8 ton excavator and the 10 ton dumper strip the area off to a depth of 300mm starting at the gateway removing enough material to then lay 1000 grade terram down onto the dig depth. Import MOT grade stone over the top, levelling out and compacting using a roller, making the area to get vehicles in off the road larger as quickly as possible, working along the hedge line and out into the field.
6. Material that is excavated from the compound must be transported to an agreed location and stockpiled neatly and patted down with excavator once the area is finished to help stop egress of water.
7. Once this area is completed it will be used for deliveries and parking vehicles.

Road to the second compound and to the motorway bund access

1. The road will be formed in a similar way to the compound
2. Starting from the compound constructed at the entrance using the 8 ton excavator and 10 ton dumper dig down to a depth of 300mm and 4 meters wide. Work towards the area of the second compound which will be located where the foot access to clearwater meets the site,
3. Again, work in the order of, digging out material to the correct depth, lay down the terram then cover with MOT grade stone imported on wagons and compact it with the roller. Wagons at this stage will be able to drive into the site forwards, turn around and reverse along the road as it is being constructed.
4. Material that is dug out must again, be transported and stockpiled in an agreed location and patted down to help stop water egress.
5. The second part of the road will be constructed in the same way to the area where the bund will be.
6. It must be kept in mind that where the roads are constructed the aim is that most of them will stay after the work is finished so location must be thought about carefully and agreed by the customer.

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Work to construct the second compound

Work to the second compound will be done in the same way as the road, and located where the foot access to Clearwater meets the site approximately 30m by 30m in size. This must be agreed before the work here commences. The compound will be used for the welfare cabin, storage container and overnight parking for the machinery. This will help provide some security as the location will be out of site from the nearby roads.

This compound will be constructed during the road construction at the point when the compound area is reached before the second half of the road is built to the motorway side.

Work to install drains and the base of the bund area

1. Take delivery of the pipework used to construct the French drain and intermediate drains under the bund and store them close to work area.
2. Take delivery of clean course grade aggregate used for pipe bedding and drainage, store this close to the work area or in one of the two compounds.
3. Spend time taking levels for the drainage and marking out the area of the French drain and intermediate drains running underneath the bund area with input from the customer on location.
4. Use the 8 ton excavator to dig the French drain to a depth of 800mm and a width of 600mm parallel to the motorway approximately 200m long. The material that is dug out must be transported and stockpiled using the 10 ton dumper and patted down at a later date to help stop water egress.
5. Use the dumper to import the clean stone to the side of the trench.
6. Using the 8 ton excavator dig the stone from the dumper into the trench to a depth of 200mm for the pipework to sit on.
7. Install the 375mm perforated pipes with joiners into the trench with the correct fall by hand and pin them in position using more of the clean stone to stop them moving around while the rest of the drains are installed.
8. Use the 8 ton machine to dig the trenches and import the pipe bedding to the correct 200mm depth that will run under the bund 1 at a time starting with the furthest away working back towards Clearwater.
9. Install the 150mm perforated pipework and joiners into the trenches with the correct fall by hand and pin in position using more of the clean stone, ensure all the 150mm pipework meets up to the 375mm French drain pipework.
10. Once all the pipework is in and set in position import clean stone into all of the open trenches, filling them up back to ground level.

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11. Mark out the base area of the bund
12. Take delivery of small D5 size bulldozer to level out material
13. Lay out 1000 grade terram in the area of the bund over all the drainage starting at the clearwater end of the drain. Excluding the French drain, this must be left exposed at all times.
14. Import 75mm screenings (6N) type material into the work area and level out at 300mm in depth using the dozer.
15. Wagons to reverse down the road into the work area until the area is big enough for wagons to drive in and turn around.
16. Work down the area laying out the terram and levelling out the stone approximately 30m wide and 200m long.
17. Compact the area with the roller.

Gabion baskets

1. Take delivery of the gabion baskets, off load them into the work area to the side of the French drain.
2. Mark out the location and set up string lines to work against.
3. Unpack and construct the bottom 2 rows of the baskets by hand using line to keep them straights,
4. Take delivery of the gabion stone which can be tipped in a close proximity to the baskets so the 8 ton excavator can dig and carefully tip stone into the baskets in stages.
5. In-between tipping the stone in with the machine, rearrange the stone into the corners so they fill up evenly and add braces in where necessary.
6. Once they are level full to the top the lids must be closed and secured with the tie wire.
7. Repeat the process until the rest of the upper rows of baskets are completed and wired together.

Excavation of the lake and construction of the bund

1. spend time with the customer marking out the initial outline of the lake and the islands.
2. Take delivery of a 20 ton excavator to dig the material and 2 agricultural spec articulated dumpers to transport the material, and use the D5 sized bulldozer to level out and form the bund.
3. Take delivery of a 6 inch water pump to keep the dig free from water during the excavation.
4. Starting at the Clear water end of the lake to the 20 ton machine to dig out a whole past the finished depth of the lake to be used as a sump to pump water of, this may need to be moved at times as the excavation progresses.

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5. Set up a level area out the way and away from any traffic routes for the pump to sit and set up the pipework stating with dropping the suction pipe into the sump then laying out the discharge pipes by hand to the 2 disused ponds in the Clearwater site agreed to settle out silt from the pumped water before entering the usual Clearwater water course.
6. This system must be tested and checked, if alterations need to be made or there are issues they need to be discussed and put right before starting the main dig.
7. Use the 20 ton machine to excavate the material from the lake, the operator must roughly form the edge of the lake, the batters and the depth in one pass working away from the sump, the machine must dig from the top at times working across the width of the marked lake not entering the dig unless it is necessary.
8. Dumpers to reverse up to the machine to be loaded and drive along agreed routes to the area of the bund where they will tip in a block tip fashion not overlapping loads,
9. The dozer will level out the material and compact it, as the layers build up will then start to form the shape of the bund and keeping a good access for the dumpers at all times.
10. Once the correct Height is reached work along until the bund meets the existing level of the ground at the far end of the bund.
11. The French drain must not be buried.
12. To finish off the bund roll out geotextile membrane to help prevent slips while the material settles.
13. Any stone or good quality material that is dug out while the lake is being excavated must be stock piled separately and crushed at a later date to be used around the site.
14. Once the lake is dug use 8 ton and 20 ton machine to dress up the edges of the lake and the batters using some of the top soil material dug out from the compounds and roads to help form bankings in places.

AMENDMENTS DURING TASK

ADDITIONAL COMMENTS

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