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Director General's Requirements for the Environmental Assessment of Stormwater & Groundwater for the temporary International Convention, Exhibition and Entertainment Facility at Sommersville Road, Glebe Island

Dear Elise

There are numerous existing stormwater drainage lines traversing the site that discharge into Sydney Harbour. An existing centrally located concrete grated drain collects surface water from the middle catchment portion of the site and discharges directly to Johnstons Bay via two (2) independent drainage systems.

The two (2) drains travel in south easterly direction via a series of manholes and pick up another longer existing concrete grated trench drain which runs in a north easterly direction for almost the full extent of the site and collects run-off from the remaining south eastern half of the site. An additional four (4) independent drainage systems also discharge to Johnstons Bay beyond where the central drainage collection system ends.

The north western part of the site drains to a series of five (5) existing grated pits that appear to all drain independently in a north westerly direction and discharge directly to Port Jackson.

Some drainage occurs via sheet flow to the harbour with areas of undrained ponding.

The proposed site is relatively long and flat and is characterised by a large concrete slab for its entirety. The site is largely reclaimed, with man-made fill under the slab.

The majority of the site is vacant. Existing structures include a disused office building, substation and sewer pump station.

The potential impact of the Temporary Sydney International Convention and Exhibition Precinct marquee on the adjoining harbour is an existing hardstand and therefore no additional water will enter the adjoining harbour as a result of the development.

Run off from the temporary marquee structure will be directed into rainwater tanks where possible and re-used for toilet flushing

Soil and water management will be implemented to avoid run-off into the harbour during construction works. These measures will be provided in the Construction Environmental Management Plan, and will include:

- Installation of Sediment control measures installing Sediment Fences constructed from heavy duty geotechnical fabric to allow the free passage of water and trap sediment;
- Grass Strip Filters trap coarse sediment and filter water before it enters stormwater system;
- Straw Bale Filters slow water and filter through the bales with the sediment settling out;

- Sediment Traps with filter fabric along the uphill face of the embankment designed to capture a concentrated sediment laden flow;
- All site stormwater pits needs to be protected by drop inlet sediment trap, sediment fence around the drain or excavated sediment trap;
- Street stormwater drains shall be protected from sediment;
- Downpipes from the guttering needs to be connected to stormwater drain as soon as the roof installed
- All stockpiles and building materials should be located behind the sediment controls;
- Containers for litter and building waste shall be considered to prevent material loss caused by wind or water. Measures to prevent spillage of any substances, and appropriate clean-up measures

Any system surcharging or overland flows paths would eventuate into the harbour in the event of blockage. It is intended to maintain this arrangement, so it is anticipated that the overland flow situation would be similar to pre-developed conditions.

The proposed temporary structure does not increase the hard stand area. It is therefore intended for stormwater to be managed by the existing stormwater system.

The proposed temporary structure and supporting services are intended to be provided in such a way that the existing apron is not penetrated and therefore no groundwater will be impacted by the activity.

Regards,



James Hunter
Director