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3 November 2020

Contact: *Justine Clarke*
Telephone: *02 9865 2402*
Our ref: *D2020/116890*

Lauren Rose
Department of Planning, Industry & Environment
Locked Bag 5022,
PARRAMATTA NSW 2124

Dear Ms Rose,

Exhibition comments – Submissions and Amendment Report - M12 Motorway – SSI 9364

Thank you for your referral dated 20 October 2020, inviting WaterNSW to comment on the EIS Submissions report and Amendments report for State Significant Infrastructure project (SSI 9634) M12 Motorway.

It is understood that the M12 will connect the new Western Sydney Airport at Badgerys Creek with regional development centres, and broader Sydney. The motorway will cross WaterNSW owned land and significant water supply infrastructure, the Upper Canal, at Elizabeth Drive, over the Cecil Hills water supply tunnel. The Cecil Hills Tunnel segment of the Upper Canal passes beneath the proposed M12 and M7 Motorway interchange at the eastern extent of the M12 Motorway.

WaterNSW recognises that significant changes are proposed over WaterNSW's Upper Canal (M7 / M12 interchange) from the original exhibited plans, and that these changes increase the risk exposure to the Upper Canal system. Therefore, it is essential that WaterNSW's requirements are adequately incorporated into the final design, construction and operational plans for the motorway.

The majority of the key impact areas reported by WaterNSW have been considered in the EIS, submissions report and amendments report, including impacts of vibration on the fragile Cecil Hills Tunnel, heritage impacts, and water quality and drainage. Therefore, WaterNSW agree that the above matters and others, including sediment and erosion controls, and access arrangements can be accommodated within the supplementary documents that will be developed under the construction environmental management plan (CEMP). As such WaterNSW requests the opportunity to review these reports and provide comment.

Further, WaterNSW accepts the revised environmental management measures, as they relate to heritage and vibration impact mitigation.

However, a technical memorandum prepared by the Jacobs Arcadis Joint Venture (November 2019), assessed the impacts of the original design on the Upper Canal corridor. As the impact area over the Upper Canal has now increased in the amended plans, WaterNSW requires a revised report to clearly demonstrate the impacts and changes as they relate to WaterNSW (i.e. widening of batters, height reductions, infrastructure changes from bridge to batter, impact zones).

WaterNSW wish to advise DPIE that ongoing consultation is occurring between WaterNSW and the M12 team, regarding potential impact to Cecil Hills Tunnel buried air shaft number 3, due to the amended design. This consultation will continue through detailed design, until WaterNSW is satisfied that no impact will occur to the Upper Canal system.

Lastly, WaterNSW has reviewed the submission documents, with regard to our initial response (our ref: D2019/133365) and WaterNSW requests that if the project is recommended for approval by the Minister, the approval includes conditions contained within Attachment 1. These conditions will ensure the adequate protection of the Upper Canal corridor.

WaterNSW requests the Department continue to notify us of all proposals with the potential to impact on WaterNSW land, assets or infrastructure. All correspondence should be directed to our email address Environmental.Assessments@waterNSW.com.au.

If you have any questions regarding this letter, please contact Justine Clarke at justine.clarke@waterNSW.com.au.

Yours sincerely

A handwritten signature in black ink that reads "Jessie Evans". The signature is written in a cursive, flowing style.

JESSIE EVANS
A/ Manager Catchment Protection

Attachment 1 - Requested conditions for SSI-9364

1. *Implementation of all practical measures to protect infrastructure within the Upper Canal Controlled Area, as required by WaterNSW.*
2. *A safe working distance exclusion zone must be established around the buried tunnel air shaft (Tunnel Shaft 3) and the exposed tunnel air shaft (Tunnel Shaft 4) located in the M7 Motorway median and such measures incorporated in the Construction Environmental Management Plan.*
3. *Consultation with WaterNSW during detailed design for works near the Upper Canal corridor including:*
 - a. *placement of batters and bridge piers*
 - b. *access arrangements*
 - c. *stormwater runoff management and modelling*
 - d. *borehole depths and encasements to prevent cross contamination.*
4. *Consultation with WaterNSW during development of the Construction Environmental Management Plan (CEMP). The CEMP should include (but not be limited to):*
 - a. *measures to protect Upper Canal water supply infrastructure at Cecil Hills Tunnel and to enable WaterNSW to access this infrastructure at all times*
 - b. *reference to relevant measures outlined in the current 'Guidelines for development adjacent to the Upper Canal and Warragamba Pipelines' (WaterNSW)*
 - c. *vibration monitoring*
 - d. *groundwater monitoring*
 - e. *water quality monitoring*
 - f. *stormwater runoff management*
 - g. *access provisions*
 - h. *erosion and sediment controls developed in accordance with the relevant requirements of Managing Urban Stormwater: Soils and Construction - Volume 1: Blue Book (Landcom, 2004).*
5. *Consultation with WaterNSW during development of the Cultural Heritage Management Plan (CCHMP) prepared for the project as part of the CEMP.*
6. *During construction and operation, specific mitigation measures must be implemented over WaterNSW infrastructure to achieve the vibration limits set out in the German Standard DIN 4150-3: Structural Vibration- effects of vibration on structures (for structural damage).*
7. *Obtain from WaterNSW both a written consent and construction license to work within the Upper Canal corridor, prior to the commencement of construction.*
8. *Provide safe and unobstructed access for WaterNSW plant and personnel to access the Upper Canal corridor, 24 hours a day, 7 days a week.*
9. *Advise WaterNSW of any proposed amended or modified encroachment into the Upper Canal corridor.*
10. *Advise WaterNSW of any unexpected Heritage items found on WaterNSW land.*
11. *Notify any incidents that affect or could affect the Upper Canal corridor and its associated bulk water supply infrastructure to WaterNSW on the 24-hour Incident Notification Number 1800 061 069, as a matter of urgency.*