

The Horsley Drive Upgrade

Environmental Investigation Report

Appendix C – Neutral or beneficial effect on water quality assessment

June 2017



State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011 relates to the use of land within the Sydney drinking water catchment. The proposal site is not located within the catchment area, however the WaterNSW Upper Canal carries drinking water through the area. In accordance with Clause 12 of the SEPP, Roads and Maritime Services is required to consider whether or not an activity will have a neutral or beneficial effect on water quality before carrying out the activity.

| Factor | Impact |
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| <p>1. Are there any identifiable potential impacts on water quality?</p> <p>What pollutants are likely?</p> <p>During construction and/or post construction?</p> | <p>Major potential pollutants are sediments (fine and coarse), and contaminants such as oil/fuel.</p> <p>Sediments could impact the water quality of the Upper Canal through stormwater from earthworks, construction activities and from construction compounds/stockpiles. Contaminants such as oil/fuel could enter the Upper Canal from spills during construction or vehicles using the road during operation.</p> |
| <p>2. For each pollutant, list the safeguards needed to prevent or mitigate potential impacts on water quality (these may be Water NSW endorsed current recommended practices and/or equally effective other practices)</p> | <p>These are the safeguards, or water quality protection measures, that need to be in place during the construction and operational stages of the proposal.</p> <p>Wherever possible these safeguards would be based on WaterNSW (formally SCA) endorsed current recommended practices:</p> <p>All construction and proposal design would consider WaterNSW endorsed current recommended practices as described in the relevant standards including (but not limited to):</p> <ul style="list-style-type: none"> • Guidelines for development adjacent to the Upper Canal and Warragamba Pipelines (SCA 2012) • Managing urban stormwater, soils and construction Vol 2D main road construction (DECC 2008) • Guidelines for treatment of storm water from road infrastructure (Austroads 2003) • The NSW Soils and Construction – Managing Urban Stormwater Volume 1 “the Blue Book” (Landcom 2004) and Volume 2 (DECC 2008). <p>Management of stormwater during and after the construction of new development sites adjacent to the Upper Canal corridors would be a major consideration in construction methodology. No stormwater beyond pre-development levels would enter the Upper Canal corridor and required by WaterNSW.</p> |

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| | <p>Appropriate drainage controls would be installed to prevent stormwater from entering the open water parts of the Upper Canal from the road crossing during construction and operation.</p> <p>An Erosion and Sediment Control Plan (ESCP) or Soil and Water Management Plan (SWMP) would be prepared in accordance with the Blue Book. The ESCP or SWMP would clearly identify how sediment would be prevented from entering the adjacent corridors.</p> <p>Safe 24 hour access to the points of the Upper Canal within and adjacent to the proposal site for SCA management and maintenance activities would be provided.</p> <p>Some of the safeguards needed to prevent or mitigate potential impacts on water quality would be commonly used environmental protection measures that are not directly included in WaterNSW endorsed CRPs and Standards.</p> |
| <p>3. Will the safeguards be adequate for the time required? How will they need to be maintained?</p> | <p>Measures would be designed to cope with expected seasonal weather conditions, eg high intensity summer storms.</p> |
| <p>4. Will all impacts on water quality be effectively contained on the site by the identified safeguards (above) and not reach any watercourse, waterbody or drainage depression?</p> <p>Or will impacts on water quality be transferred outside the site for treatment? How? Why?</p> | <p>Impacts on water quality would be effectively contained on the site by the identified safeguards (above) and not reach the Upper Canal.</p> |
| <p>5. Is it likely that a neutral or beneficial effect on water quality will occur? Why?</p> | <p>When the activity has been completed, the level of pollutants would be the same as they were before work commenced (ie neutral effect?) both in the short term and long term.</p> |



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June 2017
RMS 17.295
ISBN: 978-1-925659-29-0