

The Effects on Groundwater Quality of Adding Stormwater Runoff to Wetlands in Perth, Western Australia

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SUMMARY Stormwater runoff is a valuable source of recharge in areas of Perth with high groundwater demand. Stormwater quality is generally better in Perth than in Sydney and Melbourne. However, the addition of stormwaters to wetlands within Spearwood Sands may result in increased dissolved iron in down-gradient groundwater. Increased use of stormwaters to recharge the groundwater in coastal and estuarine areas is probably warranted.

1 INTRODUCTION

About 70 per cent of Perth is located on very porous and permeable eolian sands, the remainder being located on less permeable alluvial and lacustrine deposits and on lateritised granite. The high permeability of the sands results in little, if any, soil runoff and also allows most roof runoff to be disposed of on-block. As there is no sewage, and little soil- and roof-runoff in the public stormwater systems, the volumes of public stormwater that require disposal in Perth are small in comparison with most other cities.

Commonly, road runoff in Perth is directly added to the ocean and/or Swan-Canning estuary in areas that are adjacent to those water bodies. In other areas, road runoff is added to absorption basins which may themselves be connected to the ocean or estuary by flood mitigation drains. Absorption basins are either above the water table or are wetlands (i.e. lakes and swamps) which are an integral part of the groundwater system. The small stormwater volumes, in addition to the oceanic and estuarine disposal sites, result in Perth having fewer flooding problems than many other urban areas (e.g. 60 per cent of damage from stream flooding in the USA occurs in urban areas - Goddard 1973).

Despite being relatively small in volume, public stormwaters are important in helping maintain groundwater levels in certain areas of Perth. Groundwater levels were at their lowest during 1977-79, the second driest three-year period ever recorded*. About 27 000 private bores were installed during these three years (Australian Bureau of Statistics 1979) and limited salt water intrusion was reported from around the Swan-Canning estuary. Areas adjacent to the estuary and ocean are most susceptible to salt water intrusion, while also being areas where groundwater demand is high and where stormwaters may be directed away from the groundwater system.

Groundwater recharge is maximised when road runoff is added to absorption basins which are part of the groundwater system, (i.e. wetlands). Road drainage systems generally have low storage characteristics and most (70 to 90 per cent) of the rain falling on roads is discharged at the basins (McFarlane 1983a, b). The low storage results in recharge occurring as a result of even light rainfall. Recharge is also high for rain falling after a long dry period.

*The driest three-year period was 1975-77.

For example, in January 1982, over 100 mm of rain fell in Perth over a two day period as a result of a tropical cyclone. Most of the rain falling on roads became recharge when discharged at wetlands while rain that fell on dry soil only penetrated to about three metres. Stormwater recharge at absorption basins is therefore proportionally *higher* than recharge of soil water during dry seasons and years, when groundwater levels are at their lowest levels.

Studies in other countries and in other states have shown the quality of road runoff waters is poor in some respects. For example studies in Sydney (Cordery 1976) and Melbourne (Gutteridge et al. 1981) have indicated that levels of suspended solids and metals in stormwaters equal or exceed those found in raw sewage. Nutrient concentrations were found to be 5 to 40 per cent those found in secondary treated sewage. Cordery also reported oil slicks on stormwater during all the floods studied in Sydney. However large variations have been reported for stormwater quality. Therefore the results from other urban areas should be used with caution when assessing the effects of adding stormwaters to the groundwater in Perth.

The research reported in this paper was carried out to complement a much larger study of the water balances of two dissimilar urban areas in Perth (McFarlane 1983a,b). The areas studied were in Melville-Dalkeith and in Shilcock-Shenton Park. When the importance of groundwater recharge by road runoff was realized, the effects of the additions on groundwater quality was examined. Two methods were used, an examination of stormwater quality and an examination of groundwater quality in the vicinity of wetlands/absorption basins. Before detailing these studies, previous work is briefly reviewed.

2 PREVIOUS WORK

Previous examinations of stormwater quality in the Perth area have been made by Congdon (1979) for a sump near Lake Joondalup and by Bishop (1980) for waters entering Ems Lake, Mallingura. The results of these investigations are summarized in Table 1, along with data from residential catchments in Sydney (Cordery 1976) and Melbourne (Gutteridge et al. 1981) and the quality of raw and treated sewage.

The table shows that the mean concentrations of nutrients and suspended solids in Perth stormwaters

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