

# Report on release or event

Legacy Way – Report on Dissolved Oxygen levels for Water Treatment Plant discharge of 27 October 2015



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## Report on Dissolved Oxygen levels for Water Treatment Plant discharge

### Summary

This report is submitted in accordance with Appendix 1: Schedule 3, Part 1, Condition 3(b) of the Coordinator-General's Change Report (**CoG**), and is in relation to the Dissolved Oxygen (**DO**) levels in discharge waters from the Water Treatment Plant (**WTP**) on 27 October 2015 (**Event**). The Event was notified to DES and allocated reference number CR70441.

A DO level of 74.9% was recorded during additional (additional to the required monthly sampling event) monitoring undertaken at the WTP on 27 October 2015.

Initial investigations indicated that this reading was most likely due to sampling and sample management considerations.

### 1.1 Name of the operator

The operator of the activity is Queensland Motorway Services Pty Ltd.

The person responsible for the activity is Phillip Deschamps.

### 1.2 Designated contact person at time of Event

Greg Freeman

Tel. +61 7 3370 0600 | Fax. +61 7 3370 0642

[Greg.Freeman@egis.com.au](mailto:Greg.Freeman@egis.com.au) | [www.egis-roadoperation.com](http://www.egis-roadoperation.com)

Legacy Way Operations and Maintenance

41 O'Connell Terrace, Bowen Hills, Brisbane QLD 4006, Australia

### 1.3 Location of the event

The result was recorded at the WTP located adjacent to the western portal of the Legacy Way tunnel. The release occurred from the WTP into the Dean Street culvert of the stormwater drainage system (under authority from the Brisbane City Council), and eventually into the Brisbane River via the Patrick Lane culvert.

### 1.4 Date and time of the Event

The Event was recorded 27 October 2015.



## 1.5 Time the operator became aware of the Event

At the time EGIS received the WTP monitoring Report for the sampling event in November 2015.

## 1.6 Suspected cause of the Event

The cause of the Event could not be determined, but the sampling and sample management methods are suspected as the main cause of the result.

## 1.7 Description of the resulting effects of the Event

Unknown, no long-term effect.

## 1.8 Results of any sampling or monitoring performed in relation to the Event

The dissolved oxygen levels recorded during the next scheduled sampling event were within the acceptable range (80-100% saturation).

## 1.9 Actions taken to mitigate environmental impact

No potential environmental impacts were expected to have occurred at the time of the event, and subsequent monitoring identified that the dissolved oxygen levels had returned to within the nominated range. As such, so no immediate mitigation actions were required.

## 1.10 Actions to avoid further exceedances

- ✓ Additional water agitation prior to discharge was implemented to ensure dissolved oxygen levels were well inside the required levels as set by the Coordinator-General's Change Report requirements
- ✓ When water samples are collected from the WTP, a test now occurs on site to ensure no contamination of the sample can occur
- ✓ The WTP design did not facilitate continual recording of data on the WTP operation. A new monitoring system (a SCADA system) was developed and installed since opening of the water treatment plant. This allows better capture and management of performance of the WTP's operation

For further details, please contact:

**Ryan Kathage.**

Maintenance Supervisor  
QLD Assets

7 Brandl Street  
Eight Mile Plains QLD 4113

Phone: +61 7 3323 0000  
Mob: +61 427 410 600  
Email: rkathage@transurban.com