

Stolthaven Newcastle

BIMONTHLY REPORT

November & December 2018



STOLTHAVEN NEWCASTLE
LOT 2 STEELWORKS ROAD, MAYFIELD, 2304



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1 NOISE MONITORING

1.1 MONITORING CONDITIONS

In accordance with the conditions stipulated in the development approvals SSD 6664 MOD1/ SSD 7065 & the Environmental Protection Licence 20193, Noise monitoring (NME) is an annual requirement. The most recent report was completed in December 2017.

1.2 MONITORING RESULTS

Brief summary:

Noise impacts were found to be consistent with operations in previous years with small 1 dB to 2 dB increases due to different equipment measured on site.

Results of the noise compliance modelling showed that the operation of the facility complies with the noise limits stated in EPL 20193 in addition to the project specific noise goals in the MCP for all outlined receivers. For the full detailed report, see below;

<https://www.stolt-nielsen.com/media/1818/noise-assessment-2017.pdf>

1.3 NEXT MONITORING EVENT

The next Noise Monitoring Event is scheduled for: **Undertaken in December 2018, awaiting final report.**



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2 AIR QUALITY ASSESSMENT

The terminal is operated in accordance with the Air Quality Management Plan which was prepared in consultation with PON and DP&E and consistent with the Mayfield Site Air Monitoring Program. The Mayfield Site Air Quality Monitoring Program uses the existing EPA monitoring system as a basis. The need for site specific monitoring to be implemented for projects in the Mayfield Concept Plan area is determined on a case by case basis during the planning and approval of each project. Stolthaven is operating under this framework to date.

Based on the outcomes of the Air Quality Impact Assessments undertaken for successive stages for the terminal, and in consultation with the EPA and DP&E, there has been no specific air quality monitoring requirements placed on Stolthaven. It should be noted that load limits are calculated on annual throughput and do not require regular monitoring to be undertaken.



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3 GROUNDWATER MONITORING

3.1 MONITORING CONDITIONS

Groundwater quality at the site is managed in accordance with a groundwater monitoring program, adherence to the sites Groundwater Management Plan and conditions of the Environmental Protection Licence (No. 20193). Groundwater beneath the site discharges into the Hunter River via groundwater mitigation. Four groundwater monitoring wells were installed in October 2013 (identified as Monitoring Points 1-4 in the EPL) and are subsequently identified as MW01 to MW04 in this report. As part of proposed Site expansion activities, a further five monitoring wells MW05 to MW09 (identified as Monitoring Points 16-20 in the EPL) were installed in July 2017 in order to develop a baseline of background groundwater quality (including residual contamination resulting from former BHP Steelworks remediation) in the area prior to any development of the lot.

The groundwater monitoring program consists of quarterly collection of data and samples from the groundwater wells. Monitoring events are scheduled so that groundwater conditions beneath the site are investigated during both 'wet' and 'dry' seasons.

EPA Identification Number	Type of Monitoring Point	Location Area
1	Groundwater	Developed land area
2	Groundwater	Developed land area
3	Groundwater	Developed land area
4	Groundwater	Developed land area
16	Groundwater	Undeveloped land area
17	Groundwater	Undeveloped land area
18	Groundwater	Undeveloped land area
19	Groundwater	Undeveloped land area
20	Groundwater	Undeveloped land area

3.2 MONITORING RESULTS

<https://www.stolt-nielsen.com/en/our-businesses/stolthaven-terminals/terminal-network/stolthaven-newcastle/stolthaven-newcastle-development-information/>

3.3 SUMMARY FROM LATEST REPORTING

Groundwater level monitoring and groundwater sampling was conducted at the Current Site Area (MW01 to MW04) and the Proposed Expansion Area (MW05 to MW09) on the 26th and 27th of November 2018. The analytical results of the groundwater quality monitoring indicate that there were no exceedances of the adopted GAC, or breaches of EPL conditions, relating to groundwater monitoring at the Current Site Area or Proposed Expansion Area.

Review of analytical results and MKA indicated results are generally consistent with historical data and confirmed that groundwater quality from this GME is comparable to pre-operational baseline conditions at the Site. It is considered that Site operations have not had an impact on the quality of groundwater beneath the Site. On the whole it is considered that Stolthaven has complied with the groundwater monitoring requirements of the EPL and GMP.

As at this GME, six rounds of baseline groundwater monitoring have been undertaken on monitoring wells MW05 to MW09 at the Proposed Expansion Area. Baseline analytical results have identified consistent exceedances of the adopted GAC for Benzene, Toluene and meta & para Xylenes at MW08 and elevated TRH concentrations at MW08. It is considered residual hydrocarbon impacts



identified at MW08 are localised within fill deposits immediately surrounding MW08, and are effectively laterally delineated to the north-east and south by MW08A and MW08B.

To date, no infrastructure related to storage and transfer of hydrocarbons is in place at the Proposed Expansion Area. It is considered that the elevated results related to residual historical contamination from the former BHP Steelworks (which previously occupied areas of the Current Site Area and Proposed Expansion Area) and are unrelated to current operations at the Site.

It is acknowledged that development of the Proposed Expansion Area may take several months to complete. Baseline data recorded to date at MW05 to MW09 should be reassessed prior to commencement of construction works to allow adequate contamination management measures to be established.

3.4 NEXT MONITORING EVENT

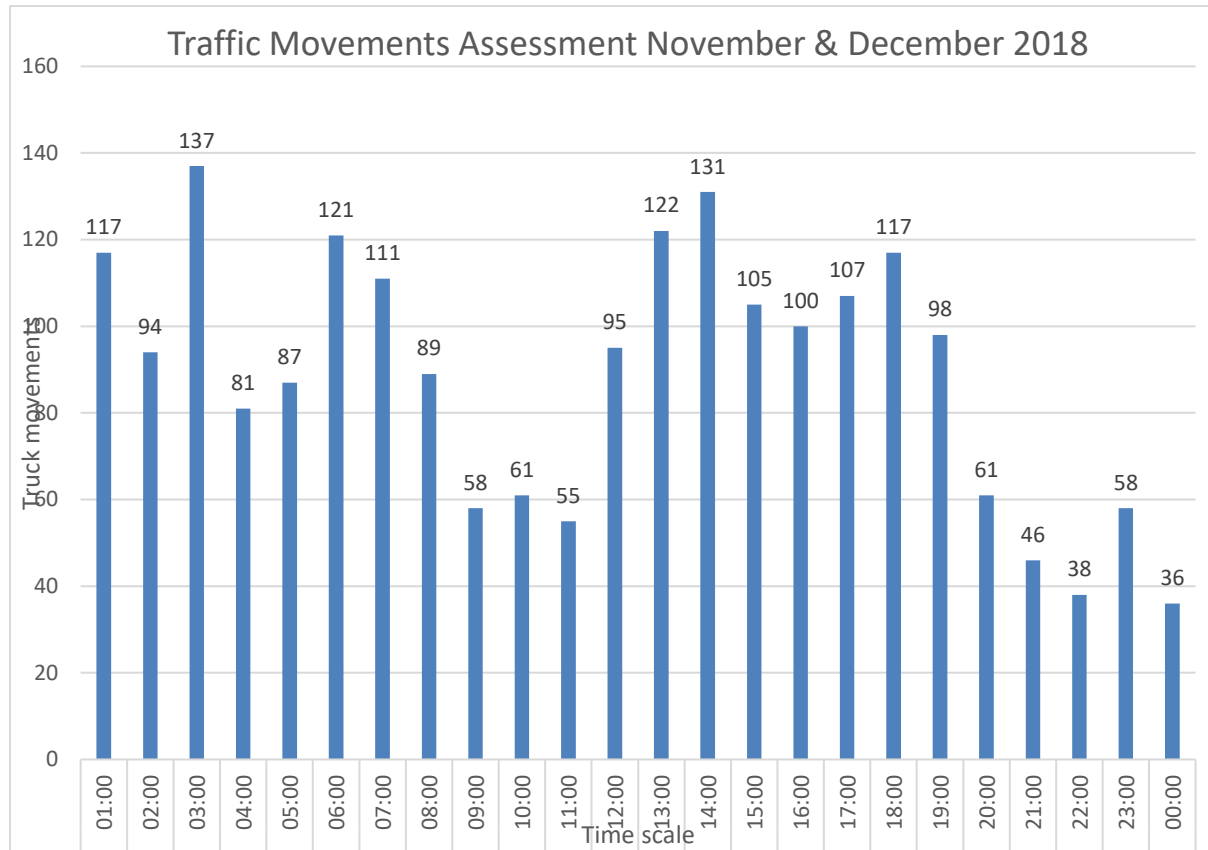
The next Groundwater Monitoring Event is scheduled for: **February 2019**.

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4 TRAFFIC MOVEMENT ASSESSMENT

The traffic movement assessment is the collation of all the transactions made at Stolthaven Newcastle during the reporting period. This is displayed in hourly intervals shown in the bar chart below.



In accordance with Schedule 3, Condition 2.3 of the Mayfield Concept Plan, the following table details truck movements against the prescribed criteria. Note a loaded vehicle is captured as two movements, inward and outward bound of the terminal.

	Total Truck Movements per annum	Total Truck Movements per day	Total Hourly Truck Movements in peak periods
MCP Criteria	462,104	1,268	95
Stolthaven	32'478†	89*	4.0*

† Rolling cumulative total truck movements over 12 month period

* Based on an average over an actual 12 month period