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Ms Kate Mihaljek Inquiry Manager Upper House Committees Legislative Council Parliament of New South Wales

By email: PortfolioCommittee6@parliament.nsw.gov.au

Dear Ms Mihaljek,

Thank you for your email dated 13 October 2017 from the Hon Paul Green MLC, Chair, Portfolio Committee No. 6 – Planning and Environment seeking an update on the implementation of recommendations from the 2015 General Purpose Standing Committee No. 5 Report on the performance of the NSW Environment Protection Authority.

Please find attached an update on the Recommendations as requested.

Please contact Alison Cochrane, Manager, Executive Services, Environment Protection Authority on if you require further information.

Yours sincerely

BARRY BUFFIER AM / Chair and CEO / Environment Protection Authority

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## Response to Recommendations of the 2015 General Purpose Standing Committee No. 5

Recommendation update 26 October 2017	Government Response	EPA update
Recommendation 1: That the NSW Government amend the <i>Protection of the Environment Administration Act 1991</i> to provide for the appointment of a chairperson of the board independent of the Chief Executive Officer of the NSW Environment Protection Authority.	Noted. The Government is currently reviewing the governance framework for all statutory entities in NSW. The governance regime of the NSW EPA will be one of the first entities to be reviewed under this framework.	The review of the governance framework for all statutory entities is continuing.
Recommendation 2: That the NSW Government amend the <i>Protection of the Environment Administration Act 1991</i> so that the Governor, on the recommendation of the portfolio Minister, and with the concurrence of the board, appoint the Chief Executive Officer of the NSW Environment Protection Authority.	Noted. If the Governor were to appoint the CEO then we would have a situation where the Chair, Board Members and the CEO are all appointed by the Governor. This does not occur currently with any other Statutory Bodies in NSW.	No change
Recommendation 3: That the NSW Government amend the <i>Protection of the Environment Administration Act 1991</i> to provide that the board of the Environment Protection Authority has a performance management agreement with the Chief Executive Officer.	Noted. However, if the Governor appoints the CEO as per recommendation 2 then the Performance Management agreement between the Board and the CEO could not permit the Board to terminate the CEO.	No change
Recommendation 4: That the NSW Environment Protection Authority appoint an independent chair to the Independent Review Steering Panel overseeing the Orica Mercury Independent Review.	Noted. In March 2014, the Independent Review Steering Panel considered the appointment of an independent chair. The Steering Panel determined it would not seek a new chair but requested the EPA board to seek a recommendation from the Minister for the Environment to appoint an independent science expert.	This Steering Panel completed its work and the Independent Review was completed in April 2016.

	Emeritus Professor Chris Fell was subsequently appointed.	
Recommendation 5: That the NSW Environment	Supported. A communication and	The Stage 3 Environmental Health Risk Assessment was
Protection Authority prioritise the development	engagement strategy has been in place	finalised in April 2016 and found that the risk of mercury
of a communications and engagement process to	since the Independent Review Steering	contamination in residential areas of Botany and Randwick is
consult and inform local residents of the	Panel Report was handed down.	acceptable. The Stage 3 results were presented to the
activities of the Independent Review Steering	Information about the Orica Mercury	community on 14 April 2016 and this marked completion of the
Panel overseeing the Orica Mercury Independent	Independent Review Stakeholder	review.
Review and publicly release the results of any	Engagement Schedule is publicly available	
testing undertaken.	on the EPA website. The EPA has	
3	communicated with the local community	
	through various channels including two	
	letter box drops to 4500 and 3000	
	residences, 3 public forums, print and	
	social media and regular face to face	
	meetings with key stakeholders.	
	The findings from stage one of the Botany	
	Orica Mercury Independent Review that	
	the risk of off-site contamination is low	
	were published in January 2014. The	
	findings of the stage two comprehensive	
	environmental testing program were	
	published on 5 May 2015. The results	
	show mercury concentrations in soils, air,	
	sediments and fish are low to very low. A	
	community forum was held on 3 June to	
	present the findings to the community.	
Recommendation 6: That the NSW Environment	Supported. The EPA and the Office of	The NSW Office of Environment and Heritage (OEH) has
Protection Authority consult with the new Chief	Environment and Heritage (OEH) have	completed a review of the Upper Hunter Air Quality Monitoring
Scientist and Engineer to review the air quality	committed to a review of the principles	Network (UHAQMN) and provided the review to the UHAQMN
monitoring strategy in the Upper and Lower	and requirements of air quality	Advisory Committee. The review was a statutory review
Hunter, including a survey of international data	monitoring in New South Wales. The first	required under the Protection of the Environment Operations
and policy responses to the issue, and request	stage of the review will focus on the NSW	(General) Regulation 2009. The review found that:

recommendations to devise a monitoring network that will assist with any knowledge gaps and strengthen the confidence of the community. The response from the NSW Environment Protection Authority should include its advice on the method of funding this monitoring network.

Government's ambient air quality network, operated by OEH, and the industry funded, government operated air quality monitoring networks in the Upper Hunter and Newcastle Local areas. The FPA levies industries who hold an environment protection licence, and that have an impact on Hunter Valley air quality, to pay for the operation of the Upper Hunter and Newcastle networks. The EPA and OEH will ask representatives from external stakeholder organisations to be part of an advisory panel to provide input and review key deliverables. This panel will include representatives from each of the following disciplines: air quality research; environmental health research; the community and an air quality monitoring practitioner from another jurisdiction. The Chief Scientist and Engineer has nominated, Dr Chris Armstrong, from her office for inclusion on the stakeholder advisory panel.

- 1. The objectives of the Upper Hunter monitoring program are being met
- 2. The Upper Hunter program is being run efficiently and cost-effectively
- 3. Some improvements could be made to the monitoring program.

OEH has been participating in the cross-jurisdictional Expert Working Group (EWG) supporting the review of the National Environment Protection (Ambient Air Quality) Measure (NEPM). The EWG is assessing the technical monitoring requirements of the NEPM.

OEH has completed a review of international best practice in monitoring network design. Complementing this, OEH also reviewed the application of NEPM guidance material in Australian monitoring network design. The reviews found that:

- 1. The guidance on NEPM monitoring network design is comprehensive and often more comprehensible than other comparable international guidance material.
- NEPM guidance on monitoring is flexible, allowing jurisdictions to monitor air quality anywhere. It does not restrict monitoring to regions only with populations over 25,000.
- Most jurisdictions are meeting their NEPM monitoring requirements. However, population growth in some regions means that jurisdictions should re-assess monitoring requirements based on the latest available census data.
- 4. There is inconsistency in the designation of monitoring station types between jurisdictional monitoring plans and

		in annual reports.
		5. Monitoring for CO, NO2, SO2 or Pb is probably adequate for all jurisdictions.
		6. Additional ozone monitoring in some inland and coastal regions may be required to support screening of this pollutant.
		7. PM10 and PM2.5 monitoring should be expanded (notin that the recent changes to the Air NEPM Particle standar will require expanded PM2.5 monitoring by 2018).
		8. The benefits of using the ABS Significant Urban Area population data rather than the Urban Centres and Localities data for network design should be investigated
		9. A review of international guidance on network design found no evidence to suggest that current NEPM monitoring network classifications do not meet international best practice.
		10. Population thresholds represent current international practice in determining minimum monitoring requireme and do not inhibit risk based monitoring.
		The NSW Government has reaffirmed its commitment to the monitoring network review within the Clean Air for NSW process. The review will focus initially on the government's ambient air quality network and on the industry-funded, government-operated air quality monitoring networks in the Upper Hunter and Newcastle areas. (See: <u>Clean Air for NSW Consultation Paper</u> , p37).
Recommendation 7: That, in the event that the	Noted. The Chief Scientist and Engineer	In August 2016 the NSW Chief Scientist and Engineer, Profess

Chief Scientist recommends that all coal trains be fully covered and all empty wagons be washed to reduce coal dust emissions, the NSW Environment Protection Authority amend the relevant licences to adopt the Chief Scientist's recommendation.

will be requested to review the substantial work the EPA has undertaken in relation to coal dust emissions along the rail corridor in the Hunter Valley. This includes environmental monitoring, literature reviews, and an examination of the environmental management and compliance performance of operators using the rail network.

Mary O'Kane, released a report on rail coal dust emissions management practices in NSW. The report found that further investigation and research was needed to better understand the nature and distribution of particles along rail corridors, and that industry should continue to implement existing dust mitigation measures. The OEH and EPA are working with the office of the NSW Chief Scientist and Engineer and the NSW Smart Sensing Network to research the development and application of low cost smart sensors in an effort to fill existing data gaps.

The EPA will consider the recommendation in light of the findings of those investigations upon completion.

The government will consider further actions during the finalisation of the *NSW Clean Air Strategy*. The Strategy will provide the government's direction for the next 10 years to improve air quality in NSW.

Recommendation 8: That, in consideration of the high level of community concern about the health and environmental impacts of the coal seam gas industry, investigations into significant pollution incidents should be led by independent experts working with the NSW Environment Protection Authority, not the coal seam gas company under investigation.

Not supported. The new NSW Gas Plan introduces strong and certain regulation with the EPA as the regulator responsible for all compliance and enforcement of conditions of approval for gas activities in NSW (with the exception of work health and safety). The EPA has been established as an independent environmental regulator and delivers these services on behalf of the NSW Government. The EPA has a legislative responsibility, under the Protection of the Environment Administration Act 1991, to investigate and report on alleged noncompliance with environment protection legislation. During these investigations the EPA's skilled investigators utilise the

The EPA continues to lead investigations of reported pollution incidents and breaches of conditions of approval for all gas activities in NSW. This is consistent with the changes introduced under the NSW Gas Plan which made the EPA the lead regulator for gas activities in NSW (except for work health and safety).

expertise of external and in-house specialists, as well as information licensees are legally required to provide to the EPA. The EPA does not permit companies to "lead" investigations. **Recommendation 9:** That the NSW Environment Supported. The EPA is reviewing the To implement risk based licensing, the EPA completed detailed Protection Authority conduct a comprehensive Environmentally Hazardous Chemicals Act assessments of the environmental risks at every licenced review of its licensing procedure for hazardous 1986 (EHC Act). Environment Protection premises in November 2016. These assessments were Licences currently have concentration completed during site inspections in consultation with licence chemicals. The review should examine the appropriateness of granting environmental limits for pollutants. The EPA's new risk holders. The assessments include information to ensure the EPA better understands environmental risks and where licensees protection licences that do not provide clear based licensing system will provide need to make operational improvements to reduce risks and additional information relevant to these limits with respect to the use of hazardous chemicals. Further, the review should also limits. The risk assessments examine the better protect the environment. consider the appropriate recourse to be taken licensed activity, the associated against a licensee for failing to maintain pollutants and controls, the receiving In relation to the Load Based Licensing Review, the EPA environment, and operator performance released an Issues Paper for public consultation in October concentrations within specified limits. to determine environmental risk. This 2016; and received 52 detailed submissions. The EPA is structured assessment will ensure that currently preparing a Proposal Paper for cabinet consideration. the activity receives the appropriate level of regulation based on the level of risk posed to human health and the environment by the activity. The EPA is also currently reviewing the Load Based Licensing (LBL) polluter pays scheme. In relation to recourse for failing to maintain concentrations within specified limits, the EPA's publicly available **Compliance Policy and Prosecution** Guidelines provides the framework for determining the appropriate regulatory response based on a range of factors

including environmental risk. This framework applies an escalated response to address non-compliance. The Protection of the Environment Operations Act allows the EPA to issue further penalties for each day an offence continues. Not supported. **Recommendation 10:** That the NSW Government In September 2015, the NSW Government introduced The environmental conditions in the regulatory requirements for the use of low sulfur fuel (0.1 per amend the Protection of the Environment Operations Act 1997 to require cruise ship Development Consent, along with cent or less) by cruise ships in Sydney Harbour. terminals to hold an environment protection existing and proposed mechanisms for However, the Commonwealth Government made amendments the managing these issues preclude the to the Protection of the Sea (Prevention of Pollution from Ships) licence. Act 1983, effective January 2016. The amendments to the need for an environment protection licence. For example, improved Commonwealth Act rendered the NSW powers to regulate low environmental outcomes will be sulfur requirements for shipping inoperative. delivered through a combination of a new regulatory requirement to use low The Commonwealth Government is now responsible for the regulation of fuel used for all ships, including by cruise ships, in sulfur fuel, the ongoing development of Sydney Harbour and regional NSW ports. The specifications for noise mitigation strategies and an investigation of shore power. the fuel used by cruise ships in Sydney Harbour is no longer The new draft regulatory requirement for regulated under NSW legislation. the use of low sulfur fuel by 1 October 2015 was released by the EPA for public Following NSW Government and community representations, the Commonwealth introduced requirements in December consultation on 3 June 2015. 2016 for cruise ships to use 0.1% or less sulfur fuel at berth in Sydney Harbour. Alternatively, ships can use approved air pollution control equipment. These requirements are administered by the Australian Maritime Safety Authority. The 0.1% sulfur content is considered best practice and brings sulfur emissions in Sydney Harbour in line with those in North America and Europe.

Recommendation 11: That the NSW Environment Protection Authority immediately approach the National Environment Protection Council to request a review of the air pollution limits set under the National Environment Protection Measures.	Noted. The EPA, on behalf of the NSW Government, has for the past two years been leading the review of the National Environment Protection (Ambient Air Quality) for the standards for particles as PM2.5 and for PM 10. At the meeting of Environment Ministers held on 15 July 2015, the Ministers signaled their "in principle" support for varying the National Environment Protection (Ambient Air Quality) to implement	In October 2016, the International Maritime Organization agreed to reduce the current global sulfur cap of 3.5% to 0.5% for fuel oil used by ships from 1 January 2020. This minimum requirement will apply to all shipping.  NSW led the review of national ambient air quality standards for particles. In February 2016, a variation to the National Environment Protection (Ambient Air Quality) Measure (AAQ National Environment Protection Measure) commenced which:  • amends the status of fine particles (PM2.5) 'advisory reporting standards' to 'standards'  • introduces an annual average PM10 standard of 25 micrograms per cubic metre (µg/m3)  • includes long-term goals for PM2.5  • initiates a national approach to reporting population exposure to PM2.5.
	strengthened reporting standards. The Ministers agreed to finalise their consideration of this matter by 31 December 2015. The Victorian Government is now leading the review of the National Environment	The new national standards for fine particles (PM2.5) are more health protective than World Health Organization Guidelines and are the most health protective PM2.5 standards in the world.  A national review of ambient air quality standards for ozone,
	Protection (Ambient Air Quality) Measure in relation to sulfur dioxide, ozone and nitrogen dioxide. The EPA is contributing to this process on behalf of the NSW Government and the Port Authority has implemented a voluntary air monitoring regime which, amongst other things, will monitor PM2.5.	nitrogen dioxide and sulfur dioxide is underway.
Recommendation 12: That the NSW Government	Noted. The NSW government	In December 2016, the Commonwealth introduced

## require that:

- cruise ship operators using the White Bay
   Terminal be required to develop noise mitigation
   strategies and that noise be monitored and limits
   be enforced
- the White Bay Terminal be retrofitted to include shore to ship power.

acknowledges the concerns of the Balmain community regarding noise and air emission impacts of cruise ships and the White Bay Cruise Terminal. In the context of Sydney being Australia's leading cruise ship destination and the importance of enabling Sydney's valuable strategic and economic port and tourism industries, the NSW Government is committed to outcomes that will best balance the interests of all stakeholders. In response to community concerns the Port Authority continues to work with the cruise industry to deliver changes to operational practices that generate noise (e.g. external announcements) and suspended all overnight cruise ship visits to White Bay until the new low sulfur fuel regulation is introduced. Further air monitoring will measure the

Further air monitoring will measure the benefits of the use of low sulfur fuel. At the same time, the Port Authority will undertake a feasibility study of shore power.

The Port Authority of New South Wales commissioned independent consultants to monitor noise during terminal operations at White Bay and these results are publicly available on its website.

requirements for cruise ships to use 0.1% or less sulfur fuel at berth in Sydney Harbour. These requirements effectively achieve the same outcomes as the NSW low sulfur fuel requirements that were put in place by NSW in 2015, prior to an amendment to the *Commonwealth Protection of the Sea Act 1983*.

In July 2017, the Port Authority released details of its investigation into the feasibility, costing and emissions benefit of the introduction of shore power to the White Bay Cruise Terminal. Shore power systems enable ships to draw their power from land-based electricity networks while at berth, instead of operating their engines for power generation. The key findings of the study indicate that shore power at the terminal is not a cost effective means of mitigating air emissions from cruise ships and that any air quality benefits would be minimal. The study notes that improvements in air quality have already been significant since the introduction of Commonwealth requirements for cruise ships to use low sulfur fuel at berth.

As a result of this report, the government will not install shore power at the White Bay Cruise Terminal. The EPA continues to work with the Port Authority to encourage engagement with affected communities throughout the process.

Following input from the community the Port Authority is implementing a Noise Reduction Strategy.

**Recommendation 13:** That the NSW Government allocate significant additional funds to the Environment Protection Authority to further train

Supported. The NSW Government has included in the EPA 2015-16 budget additional funding of \$1.272 million for

The NSW Government included in the EPA 2015-16 budget additional funding of \$1.272 million for 2015/2016 to increase forestry staffing levels.

staff and to facilitate the appointment of additional personnel to the Forestry Section.	2015/2016 to increase staffing levels. Additional funding for the longer term to provide an ongoing increase in resources will be considered as part of the 2016/17 Budget setting process.	
Recommendation 14: That the NSW Environment Protection Authority, as part of its public engagement and communication strategy, make greater use of community consultation committees, ensuring they are transparently evaluated and engender genuine participation.	Supported. The EPA is developing protocols and processes to assist staff in their communications especially with external committees. The EPA is reviewing its advisory committees in relations to their functions, governance and documentation, with a view to establishing consistent approaches and consultation practices.  The EPA is developing a standardised framework that can be applied to advisory committees, for both community and expert based groups. This framework will provide consistent terms of reference, the recommended number of members and breadth of representation to engender participation. In addition, the EPA is developing appropriate methods for evaluating these committees.  To facilitate these community consultation processes, the EPA has developed the Engagement Guidelines which outline how and when the EPA informs, consults and involves stakeholders in all aspects of its work. The guidelines highlight the EPA's focus	Effective communications and stakeholder engagement is a priority for the EPA and a key result area in the EPA Strategic Plan 2017-21.  The EPA continues to be committed to maintaining the use of community consultative committees on key issues to enable communities to engage with their industrial neighbours and key stakeholders on local environmental issues, and to provide a conduit for information back out to the communities they represent. Current groups include, but are not limited to:  • The Upper Hunter Air Quality Committee  • The Newcastle Community Consultative Committee on the Environment  • The Broken Hill Environmental Lead Reference Group  • The North West Air Quality Committee  These groups provide the EPA with an opportunity to develop long-term relationships with local communities and to present information to and receive feedback from residents and other stakeholders about the environmental performance of industry and other new or emerging issues in their local area. These groups also provide the EPA with essential insights and understandings into the issues most affecting local communities.  Additionally, in late 2016, the EPA asked over 3000 stakeholders for their views on interactions with the EPA and is committed to

	on improving its communication and consultation activities, and clarifies how and when the EPA informs, consults and involves community, environment groups, government and industry. The guidelines are available on the EPA website and in brochure format.  Additional funding for the longer term to provide an ongoing increase in resources will be considered as part of the 2016/17 Budget setting process.	addressing areas for improvement. The EPA now has 10 dedicated engagement officer positions in key locations across the State, is improving online consultation pages, has launched a new easier to read and navigate website and is improving its stakeholder newsletter.
Recommendation 15: That the NSW Environment Protection Authority be adequately resourced to clear the backlog of contaminated sites awaiting assessment, as well as develop systems to ensure contaminated lands are assessed in a more timely manner.	Supported. Funding of \$1.438 million was allocated for the 2015-16 and \$1.7 million for the 2016-17 financial years to the Contaminated Lands Program to improve both the systems and the rate at which backlog sites are able to be assessed. Additional funding of \$0.9m for the first half of the 2017-18 financial year was also provided to enable the completion of the Backlog Program.	With the extra funding of the \$4.0 million the EPA established a dedicated team to clear the backlog of contaminated sites, and will complete the Backlog Program before the end of 2017.  Procedures have been established to prioritise and track the progress of newly notified sites. The EPA aims to assess and prioritise 95% of contaminated sites within four months of being formally notified of the contamination, providing sufficient information is available.
Recommendation 16: That the NSW Environment Protection Authority take immediate steps to refine and enhance stringent internal protocols and procedures to ensure timely public communication of all pollution incidents.	Supported. Incidents in which the EPA is involved are now communicated through multiple channels, for example, when the incident potentially or actually poses a risk to human health or the environment the EPA communicates via Twitter, media release and often directly with the community involved. In addition, the EPA's media policy has been updated to ensure that regulatory actions are communicated via a media release and	This is now embedded in the EPA's operating procedures.

	tweet to all relevant media.	
Recommendation 17: That the NSW Environment Protection Authority make greater use of Protection of the Environment Policies, available to it under the Protection of the Environment Operations Act 1997, and give serious consideration to applying a multiplier effect for penalty notices to repeat offenders and setting maximum pollution or emissions caps for zones and regions.	Supported in principle. When addressing environmental issues or problems the EPA considers the most effective response. The EPA has used tools other than Protection of the Environment Policies (PEPs) to achieve its objectives and deliver improved environmental outcomes.  The EPA is currently examining the applicability and efficiency of a PEP to guide decisions that affect the environment, in particular in relation to air quality. As part of the review of the ambient air quality NEPM, the EPA is examining a number of potential options to assist with the implementation of any new NEPM standards.  With respect to repeat offenders the EPA applies an escalating regulatory response to breaches of environmental legislation, as articulated in the EPA Compliance Policy.  Under the Protection of the Environment Operations Act 1997 (POEO Act) there is a	The EPA is investigating the use of a PEP to inform and manage the impacts of urban growth on water quality in the South Creek catchment. The investigation is being undertaken in conjunction with the Greater Sydney Commission.  The EPA did not progress a PEP in relation to air quality as other tools were determined to be more suitable to achieve objectives and deliver improved environmental outcomes for ambient air quality.
	three-tiered structure of offences with the most serious offences attracting the	
	highest penalties. As per the EPA's Prosecution Guidelines, simultaneous or successive penalty notices are not	
	generally issued for multiple or ongoing breaches of the legislation. In these	

cases, there is obviously a continuing environmental or compliance problem, even though each breach may be comparatively minor. These are usually dealt with by issuing an appropriate statutory notice or through court proceedings.

With respect to pollution or emission caps. The EPA considers the sensitivity of the receiving environment when reviewing development or licence applications. The EPA's advice on development applications and level of controls placed on licences reflect the level of environmental risk. Other regulatory tools including the EPA's load based licensing scheme critically examine the sensitivity of the receiving environment when setting pollutant load limits and calculating the amount of pollutant fees to be paid. In addition, the EPA has successfully developed and implemented emissions and economic trading schemes to cap pollutant emissions in a region or receiving environment. For example, the 'bubble' licensing scheme is a small, selfcontained, emissions trading scheme in the South Creek area of the Hawkesbury-Nepean River that allows the three participating sewage treatment systems to adjust their individual discharges, provided the total pollutant load limit for

the scheme is not exceeded. The Hunter River Salinity Trading Scheme sets a variable cap on the amount of saline water that can be discharged by licensed activities depending on river flow and provides a scheme for trading discharge credits.	
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