



Port Hedland Industries Council
Community Industry Meeting

Minutes

Thursday 10 August 2022
3.00 pm

VENUE

The WEB Business Hub, Port Hedland
and via MS Teams

Attendees	Organisation
Kirsty Danby (Chair)	PHIC
Chantel Cullen	PHIC - Recorder
Kelly Howlett	CFH Proxy
Michelle Scally	NR TAFE
Emma Billett	Community
Tegan Read	PHIC / Mineral Resources
Jeanette Hasleby	PHIC / Roy Hill
Joel Schreiber	Community
Stephanie McDonald	Hedland Senior High School Proxy
Ash Christenson	ToPH Proxy
Ariana St-Pierre	PPA Proxy
Dave Batic	Port Hedland International Airport
Belinda Trowbridge	PHIC / BHP
Byron Klein	Community
Gloria Jacob	Community
Roger Higgins	Community
Johanna Ward	Community
Patrik Mellberg	BHP / PHIC

Apologies	Organisation
Kevin Michel, MP	Member for Pilbara
Renae Coles	ToPH
Morag Lowe	Community
Nicholas Green	Kariyarra Aboriginal Corp
Sam Arif	Care For Hedland
Russell Trowbridge	Community
Trish Barron	PDC
Claire Boyce	PHCCI
Deirdra Tindale	PHIC / Pilbara Ports Authority
Michelle Kivits	Ashburton Aboriginal Corp
Janine Keall	Hedland Senior High School

Invitees	Organisation
John Freimanis	Pilbara Ports Authority
Johan Diedericks	BHP

Guests	Organisation
Patrik Mellberg	BHP
Katalin Pataki	BHP

Item	<ul style="list-style-type: none"> - Meeting opened by Kirsty Danby 3.12pm - Acknowledgement of Country and recognition of the Kariyarra people as the Traditional Custodians of the land on which the CIF meets.
1.1 Introductions	<ul style="list-style-type: none"> - CIF members provided an introduction of themselves and who they are representing (if applicable). - Member resignation: <ul style="list-style-type: none"> - Clinton Smith – has relocated to Perth. The PHIC CIF thanks Clinton for his support and positive contribution. - Georgia Wells – as per the Terms of Reference this member has been removed due to unaccounted for consecutive absences from meetings. - Introduction of new members: <ul style="list-style-type: none"> - Dave Batic, CEO of Port Hedland International Airport. - Emma Billett, AIE Engineering, representing Community. - Returning Members: <ul style="list-style-type: none"> - Linda Gimondo, Pilbara Minerals - Jaylan Smith, Fortescue Metals - Tegan Read, Mineral Resources - Guests: <ul style="list-style-type: none"> - John Freimanis, Project Manager, Pilbara Ports Authority - Johan Diedericks, Project Delivery Lead, BHP - Katalin Pataki, Project Delivery Lead, BHP - Patrik Mellberg, Principal Community Pilbara, BHP
1.2 Confirmation of Minutes	Confirmation of the PHIC CIF Minutes dated 11 May 2022 confirmed by Belinda Trowbridge & Michelle Scally.
1.3 Governance	- Nil
1.4 Action Items	- Nil
2.0 Port Hedland International Airport Update	<p>Dave Batic provided an update on the Port Hedland International Airport.</p> <p>Discussion following the presentation:</p> <ul style="list-style-type: none"> - A member queried if PHIA could potentially lose the international status if the Bali flights were not reinstated. - Dave advised that although there are currently approximately 5 international flights per week through Port Hedland being private jets and freight, just not public transport. Port Hedland is also a diversion point for flights to the east coast. Additionally Border Force are already stationed in town due to the largest export Port in Australia. The international status at the PHIA is safe. - A member queried why the Alice Springs airport considered Karratha a better transport leg than Port Hedland. - Dave replied that at the time it was considered a better option due to the size of the population creating a bigger market. However no direct flights to the Pilbara were established.
3.0 Spoilbank Marina Update	<p>John Freimanis provided an update on the Spoilbank Marina.</p> <p>Discussion following the presentation:</p> <ul style="list-style-type: none"> - A member queried what would become of the development area on the west and north side of the marina. - John advised that PPA would work with the Town of Port Hedland for future opportunities in those areas. - A member queried whether the main area of the marina would have to be dredged again over time and the frequency. - John advised that modelling shows that dredging will most likely occur after major weather events but it will have to be monitored to determine. The PPA don't expect to have to remove too much and that the outer breakwater would capture material. - John advised that PPA would be responsible for the maintenance of the marine structure and that the ToPH would be responsible for the land side. - PPA are responsible for the marina pens (22) and have released an expression of interest. Approximately half of the pens have had a deposit paid. The pens can accommodate small commercial fishing vessels. - PPA are focused on the current scope however longer term there is space for another 60 pens and possible commercial lease. - A member queried if there was scope for entertainment areas such as amphitheatres and water activities. - John advised that there would be integrated play pieces and space for events.

<p>4.0 BHP Wind Fence</p>	<p>Johan Diedericks provided an update on the BHP Wind Fence project.</p> <p>Discussion following the presentation:</p> <ul style="list-style-type: none"> - A member queried the cyclone rating on the mesh sheets. - Johan explained that at a certain wind velocity the sheets would release from 3 of 4 sides of the structure. They are designed for cyclonic weather with a lot of simulation undertaken at Monash University. - A member asked what the rationale was behind blocking the incoming wind to the stockpiles rather than blocking the outgoing wind / dust. - Johan advised that by reducing the wind speed hitting the stockpiles it will reduce lift off. - Wind fences have been shown to be up to 90% effective in reducing stockpile lift off. - In terms of total modelled dust reduction please see Addendum to minutes provided by BHP. - It was noted by Patrik Mellberg that a pre-condition for growing tonnages through the Port of Port Hedland is that there is to be 'no net increase' of dust as operators grow. BHP believe through the dust mitigation techniques being implemented; they will do better than just no net increase.
<p>5.0 PHIC Update</p>	<p>Ms Kirsty Danby provided an update on PHIC Pilbara Producers Forum:</p> <ul style="list-style-type: none"> - PHIC held a two-day conference in July, the PHIC Pilbara Producers & Exporters Forum, looking at the opportunities and challenges on Environmental, Social, and Governance issues as they relate to Port Hedland and the Pilbara. - It was in house, which allowed PHIC members to openly share some of their innovative approaches and projects they are working on to tackle issues including water use, decarbonisation, the role of technology and mitigating dust emissions. - Additionally an array of private and Government experts providing insights into the latest research and to discuss emerging opportunities for continuous improvement. - Our external guests included: <ul style="list-style-type: none"> - Stephanie Unwin, CEO Horizon Power, discussing decarbonisation in the regions - Meg McDonald, Board member, NSW Net Zero Emissions and Clean Economy Board, & Environment Commissioner, Greater Cities Commission – on opportunities in the energy transition across industry, infrastructure and planning - WA Marine Science Institute CEO Luke Twomey – on the value of shared data to improve environmental outcomes - Hydrobiology Director Phil Whittle on marine environmental monitoring of iron ore export ports - CSIRO Hydrogen expert Dr Nikolai Kinaev – on how the organisation is working with industry on the challenges of hydrogen development - DWER Director General Michelle Andrews, on regulating dust in Port Hedland - And Millennium Kids youth board member Amelia Turk on the need for change for a better environment and future - Through sharing information, the goal was for everyone to strive for international best practice. - From our PHIC members: <ul style="list-style-type: none"> - BHP discussed decarbonisation, water use and improving air quality - Roy Hill explained their shift to battery powered electric locomotives - Pilbara Ports Authority discussed the new port modelling underpinning the move to increase exports - Mineral Resources talked about mine closure and rehabilitation - And we got an update on the West End Buyback scheme. - The key theme across the two days was collaboration and sharing of information. It was an opportunity for everyone in the room to learn more about their areas of interest and consider how they can apply the latest thinking to tackle problems within the region. <p>Discussion following the presentation:</p> <p>Nil</p>
	<p>Ms Kirsty Danby provided information on LiDAR monitoring:</p> <ul style="list-style-type: none"> - During PHIC's two-day Pilbara Producers forum, PHIC invited DWER to provide an update on dust management standards. - The Department is now in charge of monitoring and operating the ambient air quality network for Port Hedland. - What is not included in DWER's draft dust management standards is LiDAR as a regulatory tool. - Like many organisations monitoring air quality, PHIC has debated and trialed the benefits of Light Detection and Ranging (LiDAR) technology in Port Hedland. - While PHIC acknowledges that LiDAR is a useful tool or technique, trials have identified limitations, which appear to be exacerbated where there are multiple dust sources and other particulate matter in the air, which is the case in Port Hedland. - What is LiDAR and what is it used for?

	<ul style="list-style-type: none"> - LiDAR is light detection and range - developed in the early 60s for remote sensing, vehicle automation and atmospheric studies. - The basic principle behind atmospheric LiDAR is relatively simple. - The instrument (transmitter) releases rapid pulses of laser light along a path (to a receiver) and measures the time it takes for each light pulse to return. This is a similar principle to radar, except it uses a laser beam. The laser pulse signal strength is reduced as it reflects on larger particles in the atmosphere, such as pollen, water droplets, dust etc. The light that is not reflected by particles continues. - What did PHIC want LiDAR to measure? - PHIC was hoping that LiDAR would be a useful tool to measure dust particles, in particular PM10 and PM2.5 for Port Hedland. - How did PHIC assess if it is a useful tool for Port Hedland? - Three trials have applied LiDAR to assess dust in Port Hedland and gain appreciation on whether the LiDAR is a useful tool. - The trials were carried out by researchers, government, and industry for varying purposes between 2011 and 2017. - The trials include: • CRC CARE (2011) • PHIC LiDAR trial (2014-2016) • Department of Water and Environmental Regulation (DWER) (2017). - Has anyone summarised the LiDAR trials into one report? - In 2020 PHIC asked Jon Harper from Environmental Technologies and Analytics to prepare a report summarizing the findings of the trials undertaken by CRC Care, PHIC and most recently DWER. It's important to note that it was not another trial or study of LiDAR, simply analysing the findings and recommendations from the three organisations to understand if there were common positions taken from all three organisations, and summarising those – so people can have a non-technical understanding of the value of LiDAR in Port Hedland against those trials. - This report has been available on our website since it was published in Sept 2020. - PHIC supports DWER's position around LiDAR limitations and that LiDAR is not suitable for regulatory purposes (outlined in DWER factsheet). - There is no Australian Standard for the operation of LiDAR - LiDAR is not acceptable technology or methodology for point source monitoring - Pre-processing of LiDAR monitoring is required before usable imagery can be developed so it won't show real time monitoring scenarios - LiDAR can't be used to measure PM10 in isolation - The visual representation of LiDAR is only two-dimensional representation of three-dimensional movement in particles in the atmosphere - LiDAR cannot distinguish between dust, smoke, water, bushfires, buildings or trees. This means that "red" indicators may be interpreted as dust when it could be a range of other factors (buildings, water, trees etc) - The reliability of data is best at close proximity, not in general atmosphere (Port Hedland Airshed) and the instrument reduces reliability at distance - Calibrating LiDAR against AS technology such as BAMs to confirm correlations is technical challenging and potentially unreliable <p>Discussion following the presentation: Nil</p>
	<p>Ms Kirsty Danby provided information on the change in Federal Government and how it affects industry and Port Hedland:</p> <ul style="list-style-type: none"> - Federal election has brought a change in government for the first time in nine years - Change in focus and a change in approach - New Ministers for Resources, Trade, Energy, and Climate - Resources sector seen as economic saviour since March 2020 increasingly now seen as providing the future-facing minerals to aid decarbonisation - Prime Minister Anthony Albanese to bring Cabinet to Port Hedland on 16 September to showcase the region more broadly to Ministers - Opportunity to showcase our community and highlight the skills, innovation, planning, value of the Pilbara - Resources Minister – the Hon Madeleine King; Trade Minister – the Hon Don Farrell; Environment Minister – the Hon Tanya Plibersek; Climate Change and Energy Minister – the Hon Chris Bowen - Minister King is a strong advocate for the resources sector - Recognises that Australian miners need to be competitive internationally - For that to happen we need good ideas, and smart science to make operations economic, profitable and safe for workers - Has recognised that the achievements of iron ore miners in adopting practices that have been adopted world-wide

	<ul style="list-style-type: none"> - Early comments since being appointed have backed both oil and gas and mining as critical to the economic health of the nation - Minister King has said WA will play a crucial role in an emissions reduction through its iron ore, natural gas, and critical minerals. - Government is continuing strong partnerships on critical minerals - Signed a new technology partnership with the United States and joined an international alliance to secure global supply of critical minerals - New carbon emission commitments from Federal and State Governments - Federal Government has now committed to a carbon emissions reduction target of 43 per cent below 2005 levels by 2030, and net zero emissions by 2050 - WA Government has set a target to cut emissions from State assets by 80 percent by 2030 - Much of the reduction in WA to come from closing coal-fired power stations - Opportunities for the resource sector to be part of change - Opens the way for increased renewable energy, battery storage and other solutions - Rise of the Teals reflects changing societal demands around climate action - New Member for Curtin Kate Chaney talks of “10 years of climate action lost to politics” in Australia and that the latest IPCC report says it is “now or never” for action on fighting climate change. - Kate’s key priorities are to half emissions by 2030, to establish an independent Climate Commission in order to remove politics from the threat of global warming in order to spark quick and efficient action, and phasing out of fossil fuel subsidies and tax breaks, shifting this investment to the renewables sector. - Their objectives are loosely tied together, and they are backed by Climate 200, a political action group founded by clean energy investor and the son of Australia’s first billionaire, Simon Holmes à Court. The group has two key objectives: to call for a federal integrity commission and to put a greater emphasis on tackling climate change. - Federal Government will be managing expectations while also dealing with a larger cross bench for its legislative agenda - Opportunities and challenges for the resource sector - Opportunities arising from increase geopolitical uncertainty and supply chain disruption - particularly in relation to critical minerals - Challenge is for the mining sector to be part of the solution. Hard with supply chain constraints and technology constraints. - Meeting decarbonisation goals will mean more mining, not less, to supply the minerals and metals required for a decarbonised world - Australia broadly, WA specifically, perfectly placed to answer the call - The push for renewables is growing – driven mostly by global trends of sustainability, competitiveness and digitalisation. - Industry is looking at physical and digital technologies, solutions, and business models to answer, adapt and accelerate in these uncertain times. - State Government is committed to establishing WA as a hydrogen hub - The giant Asian Renewable Energy Hub on our doorstep in the Pilbara presents an opportunity to reframe the resource conversation well beyond just iron ore - Project expected to generate up to 26 gigawatts of combined wind and solar capacity and create significant new manufacturing opportunities for WA - State Government has announced study into the possibility of manufacturing wind turbines here in the Pilbara - Offshore wind is an untapped resource that is only now drawing the attention of international developers and consortia - Offers the potential of green energy for large-scale industrial users as well as a replacement for soon to be closed coal-fired power stations <p>Discussion following the presentation:</p> <ul style="list-style-type: none"> - Nil
	<p>Ms Kirsty Danby provided an update on the DWER Port Hedland Air Monitoring Network:</p> <ul style="list-style-type: none"> - There have been no exceedances of the maximum 24-hour average concentrate of PM10 at Taplin Street Monitor since regional weather events in January and February. <p>Discussion following the presentation:</p> <ul style="list-style-type: none"> - Nil

	<p>Ms Kirsty Danby provided information on the PHIC SWASP Presentation at Hedland Senior High School:</p> <ul style="list-style-type: none"> - PHIC was at the Hedland Senior High School on Friday 5 August to present on the State-Wide Array Surveillance Program (SWASP) as part of the school's Year 9 Career Taster Program. - Implementation of the SWASP at the Port of Port Hedland is undertaken as a collaborative approach between industry and the Department of Primary Industries & Regional Development (DPIRD) with funding provided through PHIC. - Pilbara Ports Authority Senior Environment Advisor Mark Logue gave an inspiring presentation showcasing the environmental operations ran at the Port of Port Hedland, focusing primarily on the award-winning program. - SWASP aims to identify the presence of introduced marine pests in port waters as early as possible. Early detection of invasive marine species is one of the most effective marine biosecurity strategies, with eradicating established introduced marine pests costly and challenging. <p>Discussion following the presentation:</p> <ul style="list-style-type: none"> - Nil
	<p>Ms Kirsty Danby provided information on upcoming PHIC initiatives:</p> <ul style="list-style-type: none"> - Education initiative - Train the Trainer at Hedland Senior High School – 10 October - PHIC Greater Port Hedland Vertebrate pest management program – starting end of August - SWASP Deployment for current soak was deployed at the Port at the start of August and will be retrieved in October along with a shoreline survey. - PHIC Associate Membership opportunities.
Future Agenda Items	<ul style="list-style-type: none"> - Not discussed due to time constraint
5.0 Action Items	<ul style="list-style-type: none"> - All members to positively promote information received through this group to their respective networks, supported by the facts presented to the group.
6.0 Other Business	<ul style="list-style-type: none"> - Nil