

# THE MORSE

## Osborne Naval Shipyard Project Newsletter

**November 2019 marks the 2-year anniversary of the commencement of expansion works at the Osborne Naval Shipyard (ONS), and it was a busy year for ANI and our project partners.**

**The Osborne South Development Project (OSDP) for surface ships has reached its final stages and handover to ASC Shipbuilding is expected from the end of March 2020. Inside we showcase some Project highlights for 2019.**

Works have now commenced on the Osborne North Development Project (ONDP) for the new submarine yard, with the establishment of a site compound and piling for the first building underway. This project will be delivered in stages, with Phase 1 involving the construction of specific land-based test facilities for Lockheed Martin Australia and Naval Group to use during the submarine building program.

To enable the transportation of vessels from the new yards to the ship lift on the Port River, the relocation of 66kV powerlines on the former section of Mersey Road North that now sits within the shipyard was needed, and this work was successfully completed in November.

The first of 26 new self-propelled modular transporters (SPMT's) were received at the Shipyard in October, also enabling greater flexibility and manoeuvrability for the transportation of large blocks and vessels through the shipyard.

ANI continues to support the combined efforts of the City of Port Adelaide Enfield Council and local community groups to initiate and progress projects such as the restoration of the levee at Mutton Cove Conservation Reserve.

We bid farewell to three engineering students who participated in ANI's extended placement program which provided on-the-job employment whilst they completed their final year at University. We wish them every success in the future, and look forward to welcoming the next intake of final year students early in the new year. ANI also recently employed two additional graduate engineers to support our project teams, and they will also commence full-time employment in the new year.

We take this opportunity to thank the community and businesses in and around the Osborne Naval Shipyard for their patience and support during the construction phase of the Naval Shipbuilding Plan. It's been a busy but successful year, and we are looking forward to continuing the safe delivery of the expansion and modernisation projects in 2020.

We wish you all a safe and happy holiday season.

Andrea Shaw  
*Community and Stakeholder Relations Manager*

## Holiday Shutdown

**Most construction activities for both the Osborne South and North Development Projects will cease on Friday, 20 December 2019 and recommence on Monday, 6 January 2020. ANI offices will also close and also opens on Monday, 6 January 2020.**

Security will continue to be on site 24 hours per day, 7 days a week at this time.

For any queries or concerns during the shutdown period, please call 7078 4575 or email [enquiries@ani.com.au](mailto:enquiries@ani.com.au).



# Osborne South Development Project



**W**ith the OSDP now 85% complete, the project team is in full swing and close to the finish line. 2019 was an exciting year for the Project and several significant milestones were achieved due to the collaboration and innovation of all parties involved. This includes the successful and safe execution of ten wall rotations and two roof lifts for the Ship Assembly Hall, and the commencement of equipment installations in the Steel Fabrication Hall enabling our *Steel in....Ships Out* capability.

Historically, many blocks and components for the ships built at the yard required fabrication off site and transportation to the yard for integration into ship construction. For the first time, the Osborne Naval Shipyard is now able to treat and fabricate its own steel into blocks and components, through the construction of the Steel Fabrication Hall.

Housing much of the equipment for the new southern yard, this Hall is currently being fitted out with the latest in steel plate cutting, forming and bending equipment, as well as robotic welding and overhead cranes. The installation of this equipment establishes the Osborne Naval shipyard as a world-class, state-of-the-art facility for shipbuilding.



## Final Roof Lift on Ship Assembly Hall

Our October 2019 newsletter explained the wall rotation and roof lift strandjacking methodology that was used to enable safer construction of the 50m high Ship Assembly Hall by minimising the need for extended works at height. The final roof section weighed in at almost 900 tonne.

Video of the wall rotations and roof lifts can be viewed on our website ([www.ani.com.au](http://www.ani.com.au)) or LinkedIn pages [@australiannavalinfrastructure](https://www.linkedin.com/company/australiannavalinfrastructure).



# Osborne North Development Project



**T**he Osborne North Development Project (ONDP) is the next stage of expansion at the Osborne Naval Shipyard, which forms part of the Federal Government's \$90B Naval Shipbuilding Plan. The ONDP is a purpose-built, state of the art shipyard designed for the construction of 12 Attack class Submarines.

ANI has appointed Laing O'Rourke as the Managing Contractor for the design and construction of the ONDP, which is expected to be completed in 2026.

The project will be delivered in two phases – Phase 1 works have commenced on site and has an estimated completion date in early 2022. This will provide the future submarine yard with land-based test facilities to support the submarine build program.

Phase 2 – the Main Works – is in the planning and design stage.

More than 150 people are currently engaged in the design and construction works.

## Phase 1 Commences

Phase 1 involves the design and delivery of land-based test and integration facilities. Two buildings are planned - a Combat System Physical Integration Facility (CS-PIF) and a Platform Land-Based Testing Facility (PLBTF).

Site preparation and piling for these new facilities are underway and are expected to continue until mid-2020. This includes construction of a temporary carpark and pathway, as well as a site office and training facilities for the construction workforce.

Piling for the first of two land-based test facilities has ceased temporarily over the Christmas break and will recommence on 6 January 2020.



The Osborne North Development Project has commenced with the first two land-based test facilities underway



## Moving Ships and Submarines

**S**PMT stands for Self-Propelled Modular Transporter, which is a platform vehicle with many wheels capable of moving extremely heavy objects - think a flatbed with multiple powered wheels!

Historically, most SPMTs at the shipyard operated on a rail system, which limited movement strictly to the location and direction of the rail.

ANI recently ordered 26 modules of state-of-the-art SPMTs with varying capabilities. With high-tech controls, these new modules excel due to the versatility in their manoeuvrability, and a wide range of accessories are available to provide multiple lifting platforms that meet the specific requirements of the Osborne Naval Shipyard.

When connected, these modules can carry up to 10,000t – perfect for the movement of the future generation of ships and submarines.

Currently eight units are on site, another eight are in transit, with another 10 to be delivered further into the ONS expansion program.

The fleet has even been equipped with hydraulic bio-degradable oil to avoid any risk of environmental contamination. This is an important factor due to the working site being located adjacent the Port River and the world's only city-located dolphin sanctuary.



## Sustainable and Environmental Initiatives

**O**ppportunity for sustainable and environmental initiatives are at the forefront of planning for the Osborne Naval Shipyard. With such a vast expanse of roof space now available, we are currently investigating sustainable initiatives such as the generation of power through solar panels, as well as stormwater recycling systems.

ANI has a strong focus on the restoration of the Mutton Cove Conservation Reserve and the creation of a green corridor linking the river to the ocean. Collaboration between ANI and the City of Port Adelaide Enfield, along with several local community groups has successfully started the process with innovative plans in discussion. Both ANI and Flinders Ports have committed some funding to assist these projects.

We are also in discussion with the state and local government regarding their plans to accommodate the large workforce expected when the shipyard reaches its peak in about nine years. This includes strategies around cultivating a live / work / play lifestyle whilst protecting and enhancing the natural beauty of the area. ANI believes there is a great opportunity to establish Port Adelaide and the Lefevre Peninsula as a vibrant, thriving location for residents, workers and visitors alike.

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