



MINERVA DECOMMISSIONING

Engagement with NOPSEMA

10 April 2025

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AGENDA

1. Woodside and NOPSEMA Introductions
2. Minerva Field and Decommissioning Progress Update
3. Environmental Approvals
4. Schedule Update
5. Minerva Plastic saddles
6. Next Steps

4



PROGRESS TO DATE

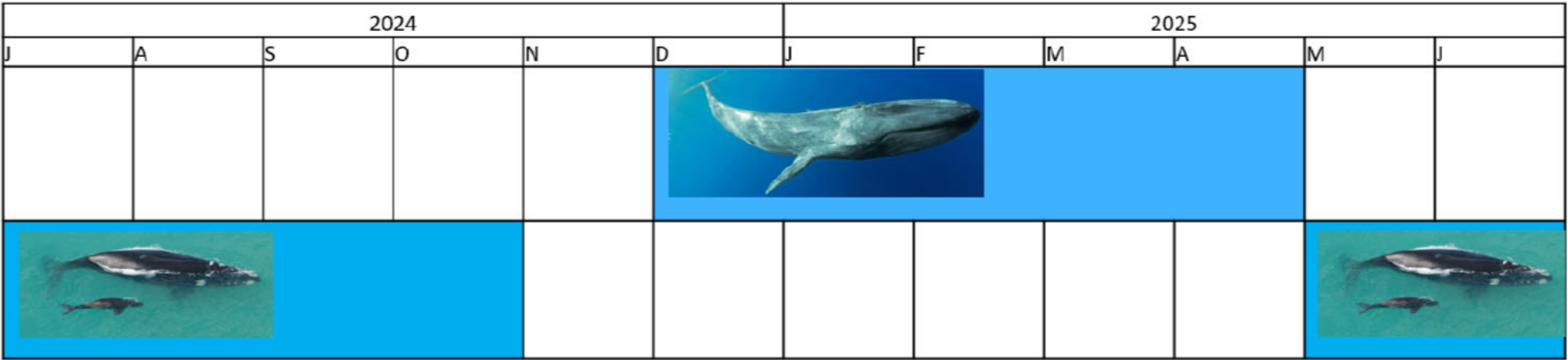
- Pipeline protection structures have all been removed
- All mattresses at the drill centre have been removed
- Minerva 2A wellhead has been severed and removed
- 10" pipeline cut and plugged at HDD exit
- Pipeline removal activities have commenced, currently sitting at 29% removal and forecast to run into 2 June 2025
- Schedule delays experienced due to:
 - Offshore commencement at back end of window
 - Additional weather downtime
 - Seabed conditions – Very soft loose sand backfilling
 - Some operations slower than expected (eg XT preps for the rig and initial structure recovery)

SCOPE PROGRESS SUMMARY		
Procedure	Scope	Completed (%)
Survey	Pipeline bundle as-found survey (Pipe tracker)	100%
	Flying lead as-found survey	100%
	Minerva-4 Drill Centre as-found survey	100%
	Minerva-4 wellhead bore cleaned	90%
	Minerva-4 XT prep works	100%
	Minerva-3 Drill Centre as-found survey	100%
	Minerva-3 wellhead bore cleaned	100%
	Minerva-3 XT prep works	80%
	Pipeline bundle as-left survey	0%
	Spools as-left survey	0%
	Minerva 2A Wellhead as-left survey	100%
	Flying leads as-left survey	100%
	Minerva-1 wellhead as-found survey	100%
	Minerva-1 wellhead bore cleaning	100%
	Minerva-1 Guidepost Cutting	100%
	Minerva-1 As-left survey	100%
Structures Recovery	2 x UTAs and associated protection structures recovery	100%
	2 x SSIVs and associated protection structures recovery	100%
	1 x PLEM assembly and protection structure recovery	100%
Pipeline Recovery	Pipeline bundle de-burial/dredging	75%
	10in HDD environmental plug installation	100%
	Umbilical/2in CI bundle HDD environmental plug installation	30%
	Pipeline bundle cutting	29%
	Pipeline recovery	29%
	2 x 8" tie in spools recovery	90%
	4 x chemical injection spools recovery	100%
Wellhead Recovery	Minerva 2A Wellhead severance	100%
	Minerva 2A Wellhead recovery	100%
Secondary Stabilisation Recovery	58 x concrete mattresses recovery	37%
	54 x grout/sandbag recovery	46%
	20 x steel ballasts recovery	100%
Flying Lead Recovery	2 x HFLs recovered	100%
	2 x EFLs recovered	100%

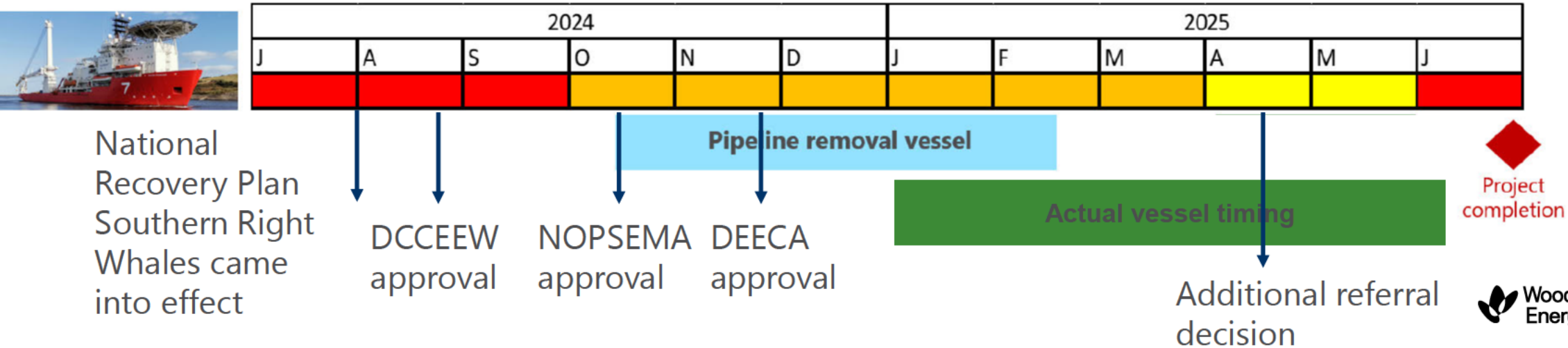
- If work was to cease 31 April 2025 - would leave 2.5km of pipe in State Waters starting approx. 3.3km from shore



ANTICIPATED PROJECT SCHEDULE



Blue whales: Foraging January to April - peak numbers Feb/Mar
Southern right whales Calving June to October - peak numbers Jul/Aug



ADDITIONAL EPBC REFERRAL – May 2025 only



Regulator: DCCEEW

Cth Dept of Climate Change, Energy, Environment and Water

Minerva Decommissioning EPBC Act Referral – EPBC 2025/10138

- Pre-submission meeting 27 February 2025
- Referral 2 submitted to DCCEEW 14 March 2025
- Passed referral gateway completeness check 19 March 2025
- 10 business day public comment period 20 March to 3 April 2025
- 10 business day assessment period 14 April 2025
- Awaiting Delegate decision 14 April 2025
- Correspondence received 9 April indicates decision is likely to be not a controlled action.



Regulator: DEECA

Victorian Dept of Energy, Environment and Climate Action

Minerva Decommissioning and Field Management (State) EP

- Meeting with DEECA 19 March 2025 to discuss MOC to continue work into May.
- MOC signed off 21 March 2025 and sent to DEECA to review
- DEECA confirmed 27 March 2025 comfortable with MOC approach pending confirmation of positive referral outcome

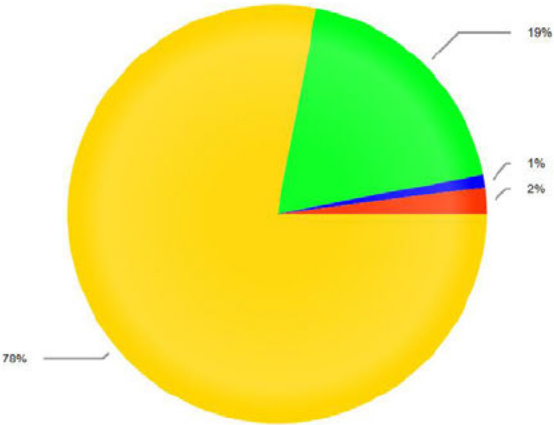
MANAGEMENT OF CHANGE PROCESS

- Woodside's Management of Change process assesses the consequence of change in activity timing to extend the duration for each of the decommissioning activities under the current accepted Environment Plans.
- Following criteria were assessed for each activity:

Criteria Triggered	
New Activity	No
Significant Modification	No
New Stage	No
New Impact or Risk	No
Significant Increase in Impact or Risk	No – Proposed action shall only be undertaken outside the southern right whale reproduction BIA during the shoulder season (May to early June), calving period is June to September (in shallow water <1 km from shore), with peak period of abundance, typically late July and August.

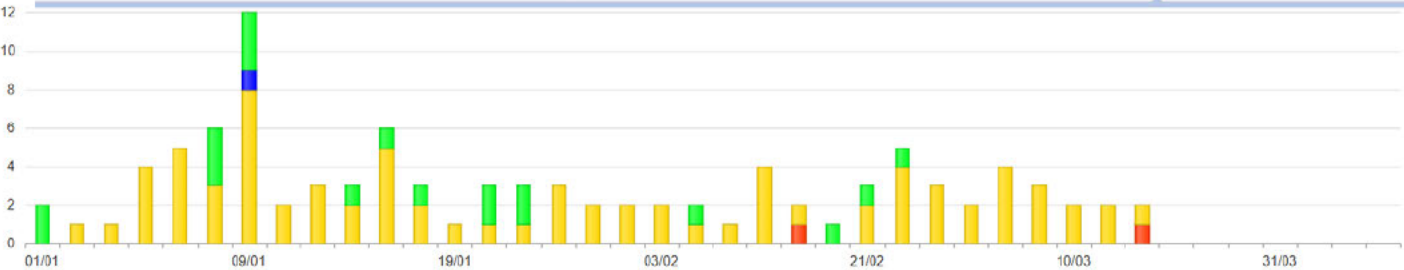
MFO OBSERVATIONS (1 Jan – 8 April 2025)

PROJECT SIGHTINGS BY SPECIES

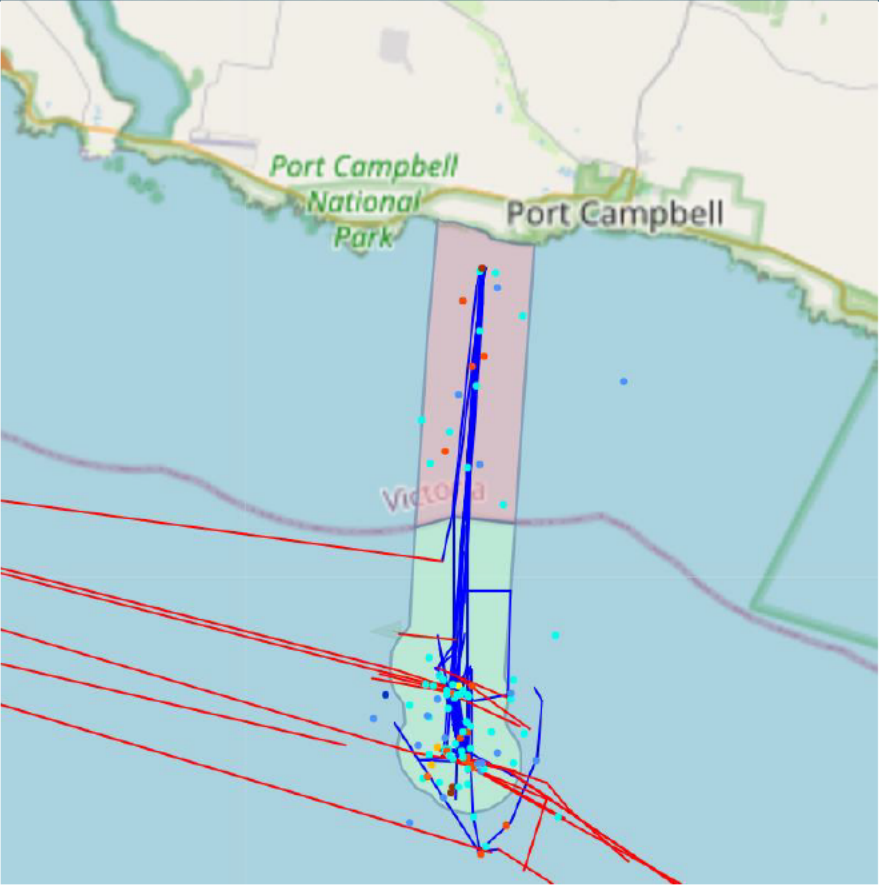


Name	Total
Dolphin	78
Pinniped	19
Mola	1
Baleen Whale	2
Project Total	100

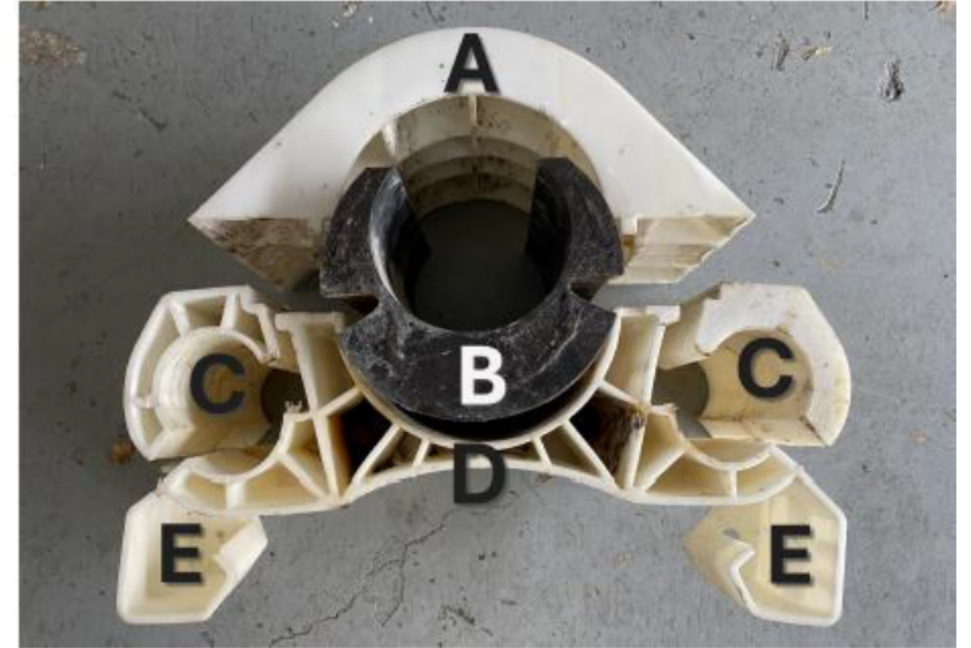
Dolphin Pinniped Mola Baleen Whale



Date	At	Species	Total ...	Sighting Cue	Observation Method
13/02	08:05	Unidentifiable baleen whale	2	Blow	Eye
14/03	12:27	Pygmy blue whale	1	Blow	Eye

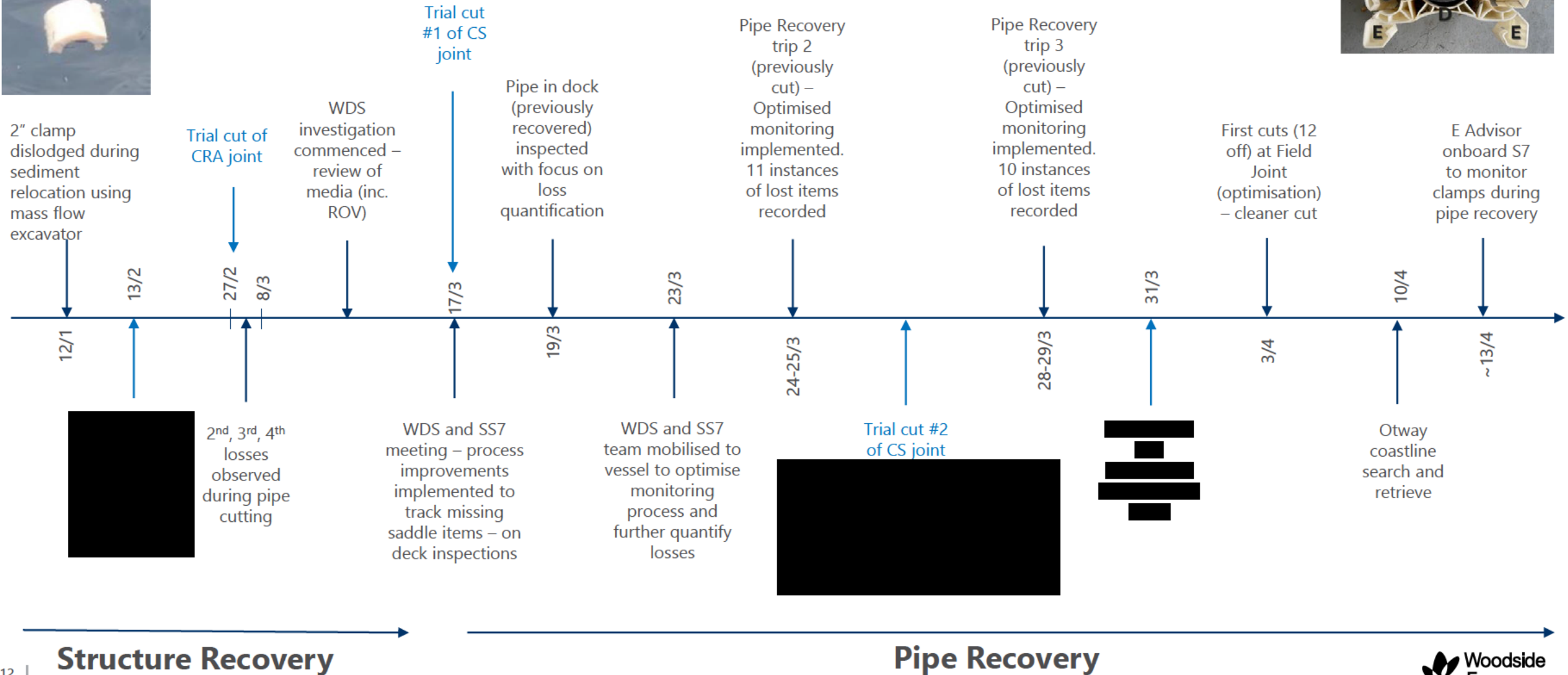
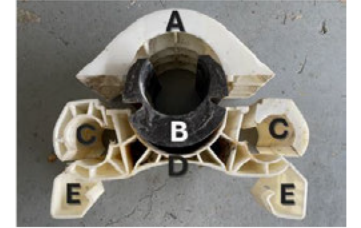


Piggyback clamps



Infrastructure	Quantity	Approximate Dimensions	Weight	Primary Materials	Current Status and Condition ¹	Removal under this EP?
Piggyback Clamps	821	360 x 446 x 400 mm	~ 3.1 Te	Polypropylene Nickel-based alloy	Current Status: Design life of 20 years. Clamps still holding piggybacked lines onto the pipeline. Burial: Predominately buried. Condition: Good condition.	Yes Commonwealth waters component only.

SADDLE CLAMP SEQUENCE OF EVENTS



SADDLE CLAMPS – FORWARD PLAN

Current Status

- Total saddle weight entire pipeline ~10,200kgs. Lost to date ~65kgs (150 items). Equivalent of ~0.6%.
 - ~70% of pipeline remaining on seabed

Preventative Measures in Place

- Cut on Field Joints (easier to identify, better separation from clamps, cleaner cut)
- Pool scoops on board to retrieve saddles if safe (sea state) – successful recovery already performed
- Continue close monitoring and log of losses as pipe is landed on deck
- Procedure to cut at least 500mm from saddle
- SS7 to report loss in daily HSE report
- Recovering negatively buoyant saddle segments with ROV

Mitigative Measures Being Evaluated

- Hydrodynamic Modelling to estimate saddle resting location has been conducted - analysis in progress
- Drone surveys of beaches (AMOSOC) to identify washed up saddles and attempt recovery
- Beach walks to recover plastic – dependent on coastline (cliffs etc)
- Drone survey from vessel when cutting to search for saddles floating to surface – limited by sea state and recovery capabilities
- FRC spotting and recovering plastic – ALARP concerns due to exposure of human life
- Risk Assessment for unplanned discharge of plastic to the environment

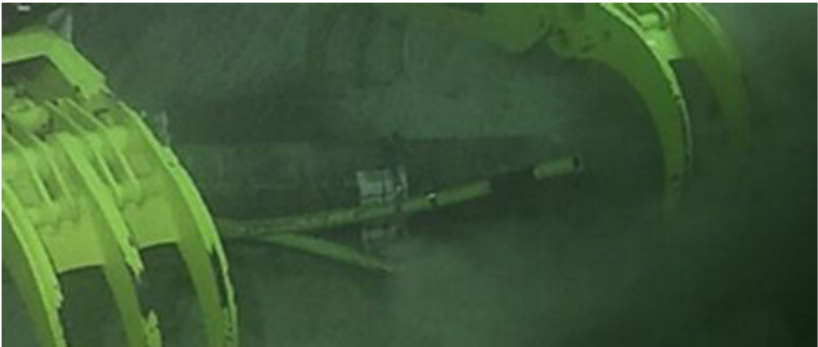
SADDLE LOSS – SUPPORTING MATERIAL



Pipeline cutting



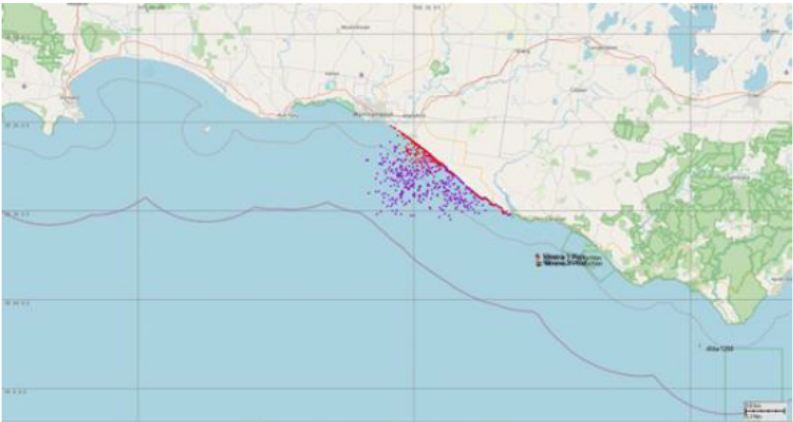
Retrieval of pipeline section



Visibility during retrieval process



Pool scoop saddle retrieval 2/4/25



Example of Drift Modelling performed for Saddle Clamps – 10,000 items

Lost Saddle Clamp Assessment											
											
		A		B		C		D		E	
		968		2536		122		1476		88	
		107mm L x 100mm W x 200 D		222mm L x 100mm W 1000 D		120mm L x 100mm W x 100mm D		400mm L x 200mm W x 200 D		100mm L x 100mm W x 80mm D	
		Top Saddle		Black Rubber		Two-piece Saddle		Base Plate (with Saddle)		Separated Ring	
		Number	Weight grams	Number	Weight grams	Number	Weight grams	Number	Weight grams	Number	Weight grams
Pipe Line 1 and cutting off end	17 Jan 25 - 10:50 Dredging	0	0	0	0	0	0	0	0	0	0
	17 Feb 25	0	0	0	0	0	0	0	0	0	0
	4 March 25 - 15:14	0	0	0	0	0	0	0	0	0	0
	4 March 25 - 15:34	0	954	0	2544	0	444	0	2	174	4360
	4 March 25 - 15:34	0	0	0	0	0	172	0	0	0	172
	4 March 25 - 15:34	0	0	0	0	0	216	0	0	0	216
Pipe Line 2	4 March 25	0	884	0	2536	4	684	0	1740	174	4360
	10 March 25 - 15:34	0	954	0	0	4	684	0	1740	174	4360
	17 March 25 - 15:34	0	954	0	2544	4	684	0	1740	2	174
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
24-25 March	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
Removal of Pipe Line 2	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
	17 March 25 - 15:34	0	954	0	0	0	0	0	0	0	0
		14	13,412	7	17,766	63	16,836	12	28,400	26	3880

Log of Saddle Losses

Environmental incident

EPO 9 Impacts from subsea discharges associated with decommissioning activities limited to localised, temporary changes in water and sediment quality in the vicinity of the discharge location.	C 8.1 See above.	PS 8.1 See above.	MC 8.1.1 See above.
	C 9.1 No cutting of the pipeline at field joins unless engineering assessment demonstrates that no plastic debris will be released.	PS 9.1 An engineering assessment must be undertaken prior to cutting the pipeline at a field join. The engineering assessment must provide reasonable assurance that plastic debris will not be released to the marine environment. The assessment must be completed before any pipeline cuts at field joins may be made to remove the pipeline.	MC 9.1.1 Engineering assessment documentation demonstrates that Woodside is reasonably satisfied that field join cuts (if required) will not release plastic debris to the marine environment.
	C 9.2 Debris created during Minerva subsea infrastructure removal to be recovered where practicable.	PS 9.2 Debris greater than 300 mm x 300 mm created during Minerva subsea infrastructure removal will be recovered where practicable.	MC 9.1.2 Records (e.g., ROV observations) demonstrate that field join cuts did not release plastic debris to the marine environment. MC 9.2.1 Records demonstrate that any debris created during Minerva subsea infrastructure removal observed by ROVs greater than 300 mm x 300 mm is recovered where practicable.

Relevant Plan/Conservation Advice	Relevant Objectives	Threats and or Management Strategies Relevant to the Activity
Threat Abatement Plan for the Impacts of Marine Debris on Vertebrate Wildlife of Australia's Coasts and Oceans (Commonwealth of Australia, 2018)	There are four relevant objectives: - Objective 1: Contribute to the long-term prevention of the incidence of marine debris Objective 2: Understand the scale of impacts from marine plastic and microplastic on key species, ecological communities and locations - Objective 3: Remove existing marine debris Objective 4: Monitor the quantities, origins, types and hazardous chemical contaminants of marine debris, and assess the effectiveness of management arrangements for reducing marine debris.	Ship-sourced marine debris as a risk to vertebrate marine life through entanglement or ingestion

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