

# Work plan for SDL compliance make-good actions in the Barwon-Darling – updated August 2022

Task		Description	Indicative Timeline
1.	Remove historic embargo behaviour and inclusion of current restrictions in Barwon-Darling model	Barwon-Darling Watercourse (BDW) APT model development (restrictions): <ul style="list-style-type: none"> <li>Remove historical (Broken Hill) embargo behaviour,</li> <li>Method to represent current temporary restrictions.</li> </ul>	Completed Feb 2021
		Model to MDBA for review / revise as required for submission of revised method for the 2020-21 water year	Completed Feb 2021
		Include revised method in re-submitted WRP for accreditation.	2022
2.	Metering Recalibration project adjustment of Barwon-Darling models project	A metering recalibration project is underway to upgrade the accuracy of metered diversion records that were captured prior to the new pattern approved metering rollout program.	Underway
		Collect and collate most up to date water take information from water users on the Barwon Darling.  Note: Due to COVID and significant rainfall through the area, the collection of the most recent water user information has been significantly delayed	Fourth Quarter 2022
		Collate data sets from the NSW Metering Recalibration Program for the old (time and event meters) and the newer flow meters (mostly MACE meters, also some AS4747-compliant meters). Calculate preliminary ratio between recorded flow volume in the old and the newer meters and use to improve estimates of diversions (as recommended by reviewer).	Preliminary work completed Dec 2021
		Post process APT model results with site by site ratios between new and old meters applied to model diversions. NSW will provide the	Completed Feb 22

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		adjustment spreadsheet to MDBA to inform a 20/21 reasonable excuse application if required.	
		Provide MDBA a report based on the metering adjustment data that estimates the difference in metering outcomes for 2019-20 and 2020-21.	First Quarter 2023
		Barwon Darling watercourse cap model development: Use the recalibrated pumping rates of all the irrigators in the Cap model and run it for the cap period to determine the individual irrigators cap share and the total valley cap value.	Mid-2023
		BDW Cap/BDL/APT model development (metering): Step 2: reprocess historical observed data stored in the NSW databases then recalibrate all the relevant models with adjusted diversion rates for submission to MDBA for accreditation through both Schedule E of the MDB Agreement (Cap conditions).	June 2023
		Amend Barwon Darling water sharing and water resource plans: (a) Present Cap, BDL and APT models to MDBA for review; (b) Re-issue entitlements and amend WSP and WRP.	Before December 2023
		MACE meters replaced with AS4747-compliant meters. Update models and update WSP and WRP.	June 2028
3.	Implement systems enabling reporting of compliance data by due date	<p>NSW systems already in place are gradually being improved and streamlined. NSW will continue to endeavour to achieve submission of the s71 reports by 31 October following the water year.</p> <p>NSW will continue to initially submit s71 reports as drafts to allow later revision if necessary.</p> <p>The progressive installation and confidence in telemetered metering technology under the NSW non-urban metering framework should allow for the future provision of actual take data in a timely manner.</p> <p>However currently, finalisation and verification of actual take data in the Barwon-Darling is, to some extent, still dependent on the timing (and vagaries of weather) of manual meter read runs and data input.</p>	Ongoing
4.	Assessing compliance with long-term average	Work is progressing currently on an assessment of compliance with LTAAEL in accordance with the requirements of Barwon Darling water sharing plan.	Ongoing Annual LTAAEL compliance assessment

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	annual extraction limit (LTAAEL)	Results of this assessment will be made available to the MDBA as requested.	
		In addition, a project is underway which includes scoping processes and methodologies for ongoing LTAAEL assessment and reporting for water sharing plan areas throughout NSW. A risk-based approach will be adopted with the initial priority for this project being the NSW MDB.	Ongoing Annual LTAAEL compliance assessment
5.	Accreditation of Barwon-Darling WRP	NSW received the Notice of Grounds for the Barwon Darling WRP on 27 May 2021. The WRP has been withdrawn and NSW will continue to work with the MDBA to resolve issues in all the NSW WRPs. NSW intends to resubmit the WRPs before April 2022	Submitted before September 2022
6.	Implementation of Barwon-Darling WRP	NSW will implement the WRPs as it implements the relevant parts of its WSPs. Where implementation actions are outside of the NSW WSPs, NSW will undertake a prioritisation process for those elements of the WRPs.	After accreditation of the WRP
7.	Regulation of floodplain harvesting	The current NSW Healthy Floodplains project includes the establishment of a regulatory framework that will licence and manage floodplain take in the northern basin in line with the NSW Floodplain Harvesting Policy.	December 2022
8.	Measurement of floodplain harvesting take	NSW will continue to work to ensure FPH is within allowable limits.  The measurement of FPH take in the northern basin is a key aspect of the Healthy Floodplains project regulatory framework to be implemented in the NSW northern basin.	December 2022
		Until recorded FPH take data is available as a result of the Healthy Floodplains project, NSW will continue to account for FPH for annual SDL compliance in accordance with the Bilateral Agreement and/or the Barwon-Darling WRP.	Ongoing
9.	Monitor compliance by individual entitlement holders	The NSW Natural Resources Access Regulator (NRAR) independently conducts ongoing water surveillance and investigative activities to monitor and enforce compliance with individual entitlement holders' licence and approval conditions.	Ongoing

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10.	Mandate and enforce the take up of AS4747 meters	The NSW non-urban water metering framework has commenced. A gradual rollout has been implemented to allow water users to transition to Pattern Approved AS4747 compliant meters. Higher water users are targeted first under the framework, with all pumps =>500mm diameter should now be compliant (by 1 December 2020) and all other surface water works in northern inland NSW to be compliant by 1 December 2021.	Ongoing in line with the published metering program roll-out.
		Provisions of the NSW non-urban water metering framework will form part of licence and approval conditions and will be enforced by NRAR.	Ongoing
11.	Upgrade of Barwon-Darling watercourse model to the Source platform	NSW is continuing to develop a new Barwon-Darling planning model in the Source platform and expects to complete major development activities in 2022. The NSW goal is to have a Source based Barwon-Darling model operational in time to support the development of the next Barwon-Darling Water Sharing Plan.	2023
		NSW continues to be closely and actively involved in shared basin wide modelling community efforts designed to produce consistent and best practice models. NSW has demonstrated its commitment to this important program with ongoing in-kind contributions from two Principal modellers over an extended period, including the lead modeller for the Barwon-Darling system.	
		NSW will complete trials of an automated system to provide harmonised northern basin modelling capability using the Sentient Hubs platform during 2021 and is currently engaging QLD & MDBA to work with NSW on the next phase of this rollout, whilst remaining flexible to adapt to the outcomes of the MDBA funding bid in this area of activity.	progressing
		The proposed 2023 timeline will be subject to MDBA functions related to accreditation of models either for Cap or APT purposes which cannot be controlled by NSW. There is also little expectation within NSW that a new modelling platform will materially alter the modelled SDL and APT volumes when considering that the underlying data sets have not been substantially altered and hence it is not clear how MDBA has concluded how a different modelling platform will contribute to a make good outcome.	2023

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12.	Compliance response according to clause 36 of the water sharing plan	Should it still be required, available water determinations will be reduced to the extent to which, and only for as long as necessary to meet the requirements of Division 2 of Part 4 of Chapter 6 of the Basin Plan	As required