March 2022 Approved Phase 7 Development Schedule

Year	2022	2023	2024	2025	2026	2027	2028
Phase 6 CAST	CAST6-2021		CAST6-2023		CAST6-2025		
Phase III WIP evaluation	Implement				Evaluate and track with Phase 6		
~~Current Climate Plans~~	~~Build Models~~		~~Review CAST~~	~~Develop 2035 targets with P7 models, Review estuary model~~	~~P7 CAST25 Available for Use~~		
WQGIT Recommends	Build Models				Review Models	New 2035 climate targets with P7 models	P7 CAST27 Available for Use

Important Notes:
- CAST23 will be the model of record for the evaluation of 2025 Progress
- CAST23 will not include the FY22 Ag Census or the High-Resolution Land Use Data from 21/22
- CAST25 will introduce FY22 Ag Census or the High-Resolution Land Use Data from 21/22
- Schedule provides a full year of review for Phase 7 suite of tools
- Schedule results in Climate Targets at the end of 2027

Option 1: CAST 2023 is last update for Phase 6

Year	2022	2023	2024	2025	2026	2027	2028
Phase 6 CAST	CAST6-2019		CAST6-2023				
Phase III WIP evaluation	Implement				Evaluate and track with Phase 6		
~~Current Climate Plans~~	~~Build Models~~		~~Review CAST~~	~~Develop 2035 targets~~	~~Track with Phase 7~~		
Phase 7 PSC Approved	Build Models that will also Address 2035 Climate Change Conditions				Review Models	New 2035 climate targets with P7 models	Track with Phase 7

Important Notes:

- CAST23 proposed release in Fall 2023

- CAST23 would be the model of record for the evaluation of 2025 Progress and all Progress scenarios post 2025 until Phase 7 is released

- The 2025 progress evaluation would have interim targets based on the definition of unaccounted additional loads that include 2025 climate change

- This is the last update to CAST in the Phase 6 model period

Option 2: CAST 2023 Plus CAST 2025 – 2023 is used for 2025 Progress

Year	2022	2023	2024	2025	2026	2027	2028
Phase 6 CAST	CAST6-2019		CAST6-2023		CAST6-2025		
Phase III WIP evaluation	Implement				Evaluate and track with Phase 6		
~~Current Climate Plans~~	~~Build Models~~		~~Review CAST~~	~~Develop 2035 targets~~	~~Track with Phase 7~~		
Phase 7 PSC Approved	Build Models that will also Address 2035 Climate Change Conditions				Review Models	New 2035 climate targets with P7 models	Track with Phase 7

Important Notes:

- CAST-23 proposed release in Fall 2023

- CAST-23 would be the model of record for the evaluation of 2025 Progress

- The 2025 progress evaluation would have interim targets based on the definition of unaccounted additional loads that include 2025 climate change

- CAST-25 would introduce FY22 Ag Census and the High-Resolution Land Use Data from 21/22

- CAST-25 would be the last update to the Phase 6 series of CAST – Release in Fall 2025

Consolidated Timeline

PSC Decision	Draft to WQGIT	Final By WQGIT	Draft to MB	Final By MB	Presentation to PSC for approval
1 - Unaccounted Additional Loads			8/10/2023	9/5/2023	9/26/2023
2 - Fertilizer	6/26/2023	7/24/2023	8/10/2023	9/5/2023	9/26/2023
3 - Illogical Results	6/26/2023	7/24/2023	8/10/2023	9/5/2023	9/26/2023

Pros/Cons for Each Option

	Option 1: **CAST-23 is final update for Phase 6;** **CAST-23 is used for 2025 Progress**	**Option 2:** **CAST-23 plus CAST-25;** **CAST-23 is used for 2025 Progress**
Pros:	• **Keeps focus on Phase 7** • **Ensures all priority items are reviewed and accurate because of time not spent on CAST25 update** • **In-Progress BMPs would be ready for incorporation in CAST-23 (i.e., Animal Mortality and Oysters)** • **There will be more dedicated personnel to Phase 7 model development** • *Capacity for data comparisons (i.e., BMPS, Land Use, Fertilizer, Ag Census) for review*	• **Introduces new High-Res land use, Ag Census, and BMPs data into the CAST-25, *if available***
Cons:	• **No introduction of newly proposed BMPS.** • **Does not conform with jurisdictional agreed-to schedule of CAST releases in line with 2-year Milestone period.**	• **Difficult to provide a new version of CAST (i.e., CAST-25) and give proper attention to Phase 7 model** • **Time spent on Phase 7 is reduced due to focus on Phase 6** • **More resources might be expended addressing Phase 7 and CAST-25 simultaneously; unknown if those resources would be available**