2020 OBMP Update

LISTENING SESSION 8

DECEMBER 11, 2019

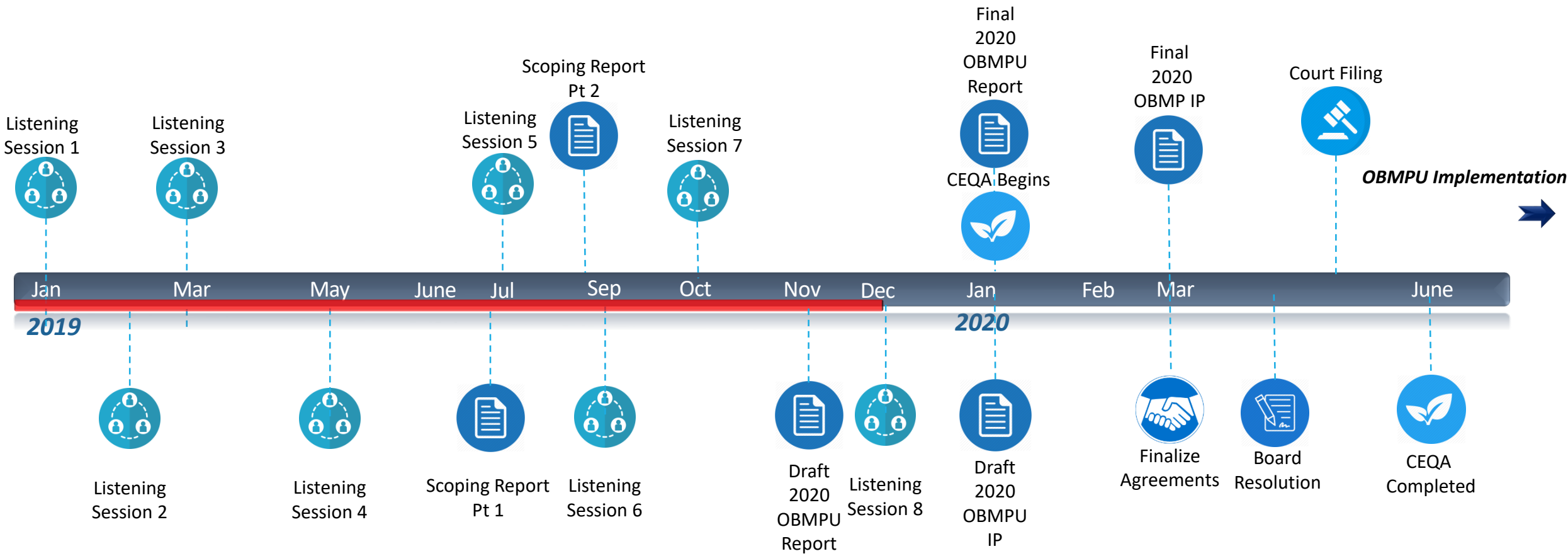
Agenda

- OBMP Update process recap
- Storage Management Plan → OBMP Program Element 8/9
- Overview of the Draft *2020 OBMP Update Report*
- Process and schedule: 2020 Implementation Plan Update and Agreement
- Next Steps

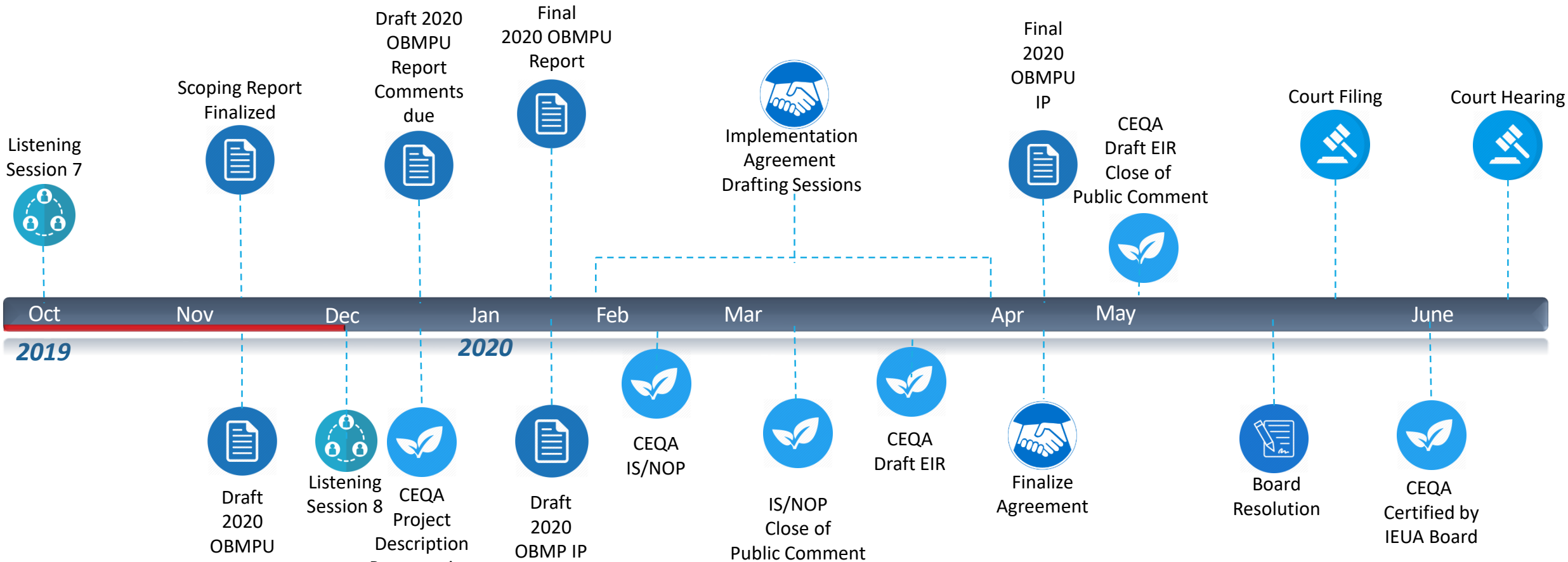
2020 OBMP Update Process Recap

- Listening Session 1:
  - History of the OBMP
  - Rationale for an update to the OBMP
  - Drivers, Trends and Implications
- Listening Session 2:
  - Issues, Needs and Wants
  - Goals and Impediments
- Listening Session 3:
  - 2020 OBMP Goals
  - 2020 OBMP Update Proposed Activities
- Listening Session 4:
  - Nexus between Proposed Activities, Goals and Impediments
- Listening Session 5:
  - 2020 OBMP Update Scoping Report (TM1) Pt. 1 review and comments
- Listening Session 6:
  - 2020 OBMP Update Scoping Report (TM1) Pt. 2 review and comments
- Listening Session 7:
  - Integration of 2000 PEs and 2020 Activities and Implementation Actions
- Listening Session 8:
  - PE 8/9 – Final Storage Management Plan
  - 2020 OBMP Update Report (TM2) review and comments

OBMP Update Timeline



OBMP Update Timeline – Oct 2019-June 2020



OBMPU Implementation

2000 OBMP

OBMP Phase 1 Report

1. Introduction
2. State of the Basin
3. OBMP Goals
4. Management Plan

OBMP Implementation Plan Program Elements (PEs)

1. Monitoring
2. Recharge Program
3. Water Supply Plan for Impaired Areas
4. Subsidence Management
5. Regional Supplemental Water Program
6. Cooperative Program with Regulators
7. Salt Management Plan
8. Storage Management Plan
9. Storage and Recovery Programs

Peace Agreement

OBMP PEIR

2020 OBMP Update

2020 OBMPU Scoping Report (TM1)

1. Introduction
2. Development of Activities
3. Scope of Work to Perform Proposed 2020 OBMP Update Activities.
   - Activity A: New and Improve Recharge Facilities
   - Activity B: Optimize Storage and Recovery Programs
   - Activity D: Maximize use of Recycled Water
   - Activity E/F: WQ Management Plan and Strategic Compliance Solutions
   - Activity C/G: Regional Conveyance and Treatment
   - Activity K: Salt and Nutrient Management
   - Activity L: Appropriate Monitoring

Integrate 2000 OBMP PEs with 2020 OBMP Update Activities

2020 OBMP Update Report (TM2)

1. Introduction
2. 2020 OMBP Goals and Activities
3. Integration of the 2020 OBMP Update Activities to the 2000 OBMP Program Elements
4. 2020 OBMP Management Plan

We are here

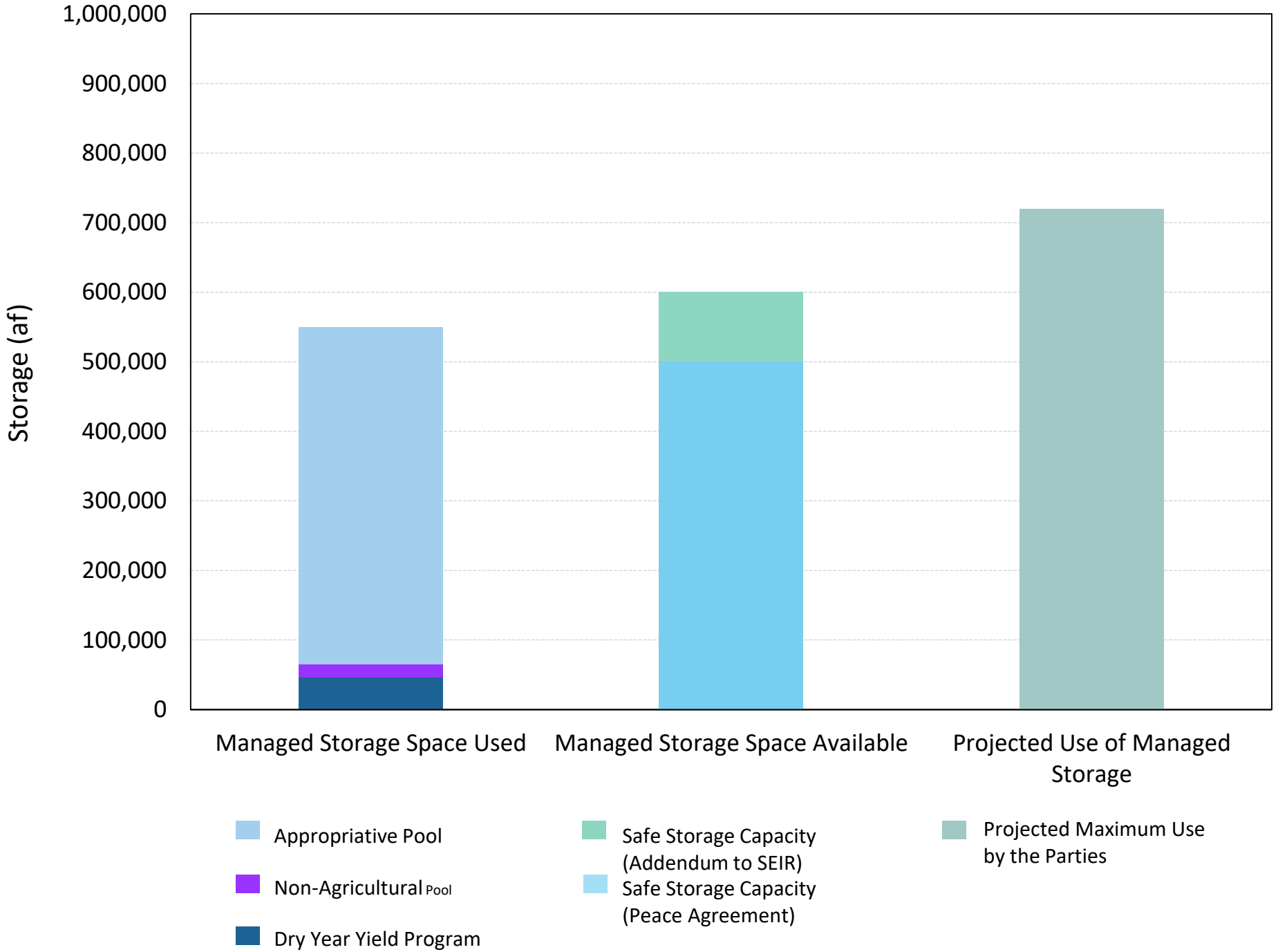
2020 OBMP Implementation Plan

Implementation Agreement

2020 OBMP PEIR

PE 8/9
Storage Management Plan

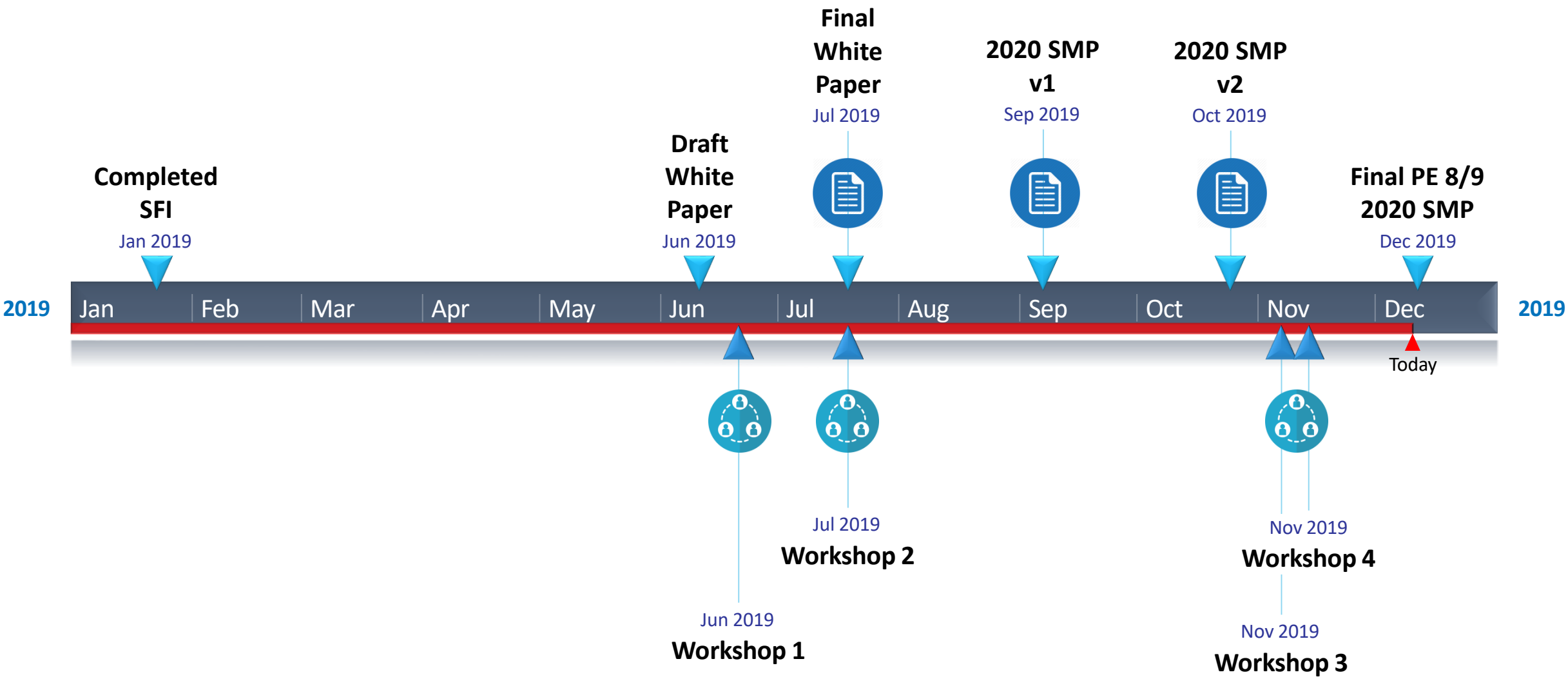
Comparison of managed storage space used, managed storage space available, and projected maximum use of managed storage by the Parties



What the 2020 SMP is and what it is not

- The 2020 SMP establishes the manner in which Basin storage may be utilized
  - It articulates the Judgment and the Peace Agreement requirements for use of storage – Watermaster will review all S&R program applications based on the SMP
  - It replaces the current SMP as described in PE8 (as modified by the Addendum to the Peace II SEIR)
  - It is not a plan to optimize the use of storage, it sets boundaries on storage management activities for subsequent optimization
- OBMP Update Activity B will utilize the 2020 SMP as a platform for the development of optimal S&R programs and to support Watermaster review and approval of applications

PE 8/9 Storage Management Plan Development Timeline



SMP v2 Comments and Responses

- **Ag Pool Comment 8**: “The Draft SMP Version 2 states, “Watermaster will periodically review current and projected basin conditions…” Periodically is subject to interpretation. Will this review be done at a minimum frequency, based on threshold changes in amounts of water in storage, or combined with other reviews (e.g., SMP updates, additional Safe Yield evaluations).”

- **Response**. “Watermaster will periodically review current and projected basin conditions when it updates the SMP as described in Section 2.6. Watermaster could conduct additional reviews if routine assessments of monitoring and planning data indicate changed conditions from that which was assumed in the evaluation of existing Storage and Recovery Program, when the Safe Yield is recalculated and when new Storage and Recovery Program applications are submitted to Watermaster.”

SMP v2 Comments and Responses

- **Ag Pool Comment 8 Response continued**

  The operable language in Section 2.6 reads: “The periodic review and update of the SMP will require the use of updated planning and hydrologic data and models, and it should be completed: at no less than a five-year frequency, when the Safe Yield is recalculated, or when Watermaster determines a review and update is warranted based new information and/or the needs of the Parties or the Basin.”

SMP v2 Comments and Responses

- **City of Ontario Comment 3b**: "The Storage Framework Investigation concluded that the reduction in Safe Yield (as a percentage of average annual storage space used) ranged from 1.50% to 2.41% for bands 2, 3 and 4. The Storage Management Plan states this value as 2.0 percent. Please clarify if the 2.0 percent is an average across the three bands or if Watermaster is using a different methodology to set the 2.0 percent impact."

- **Response**. It is an average. For clarity the text of SMP document was revised and it now reads:

  "The 2018 SFI concluded the that the net recharge and Safe Yield of the basin would be reduced annually by about 2.0 percent (ranged from 1.5 to 2.4 percent) of the volume of water stored in a Storage and Recovery Program." (emphasis added)

SMP v2 Comments and Responses

- **City of Ontario Comment 6b**: "Section 1.2 states that "for the planned use of managed storage by the Parties up to 700,000 af…there would be no MPI with the exception of a reduction of net recharge and Safe Yield…." A reduction of net recharge and Safe Yield is not included in the definition of Material Physical Injury."

- **Response**. The SMP document has been revised to characterize the reduction in net recharge and Safe Yield attributable to managed storage activities as an adverse impact. The text now reads:

  "The 2018 SFI projected that for the planned use of managed storage by the Parties up to 700,000 af that Hydraulic Control would be maintained, that there would be no MPI and that there would be an adverse impact from the reduction of net recharge and Safe Yield attributable to the use of managed storage." (emphasis added)

SMP v2 Comments and Responses

- Response to Comments

Overview of the Draft 2020 OBMP Update Report

2020 OBMP Update Report – TM2
Report Outline

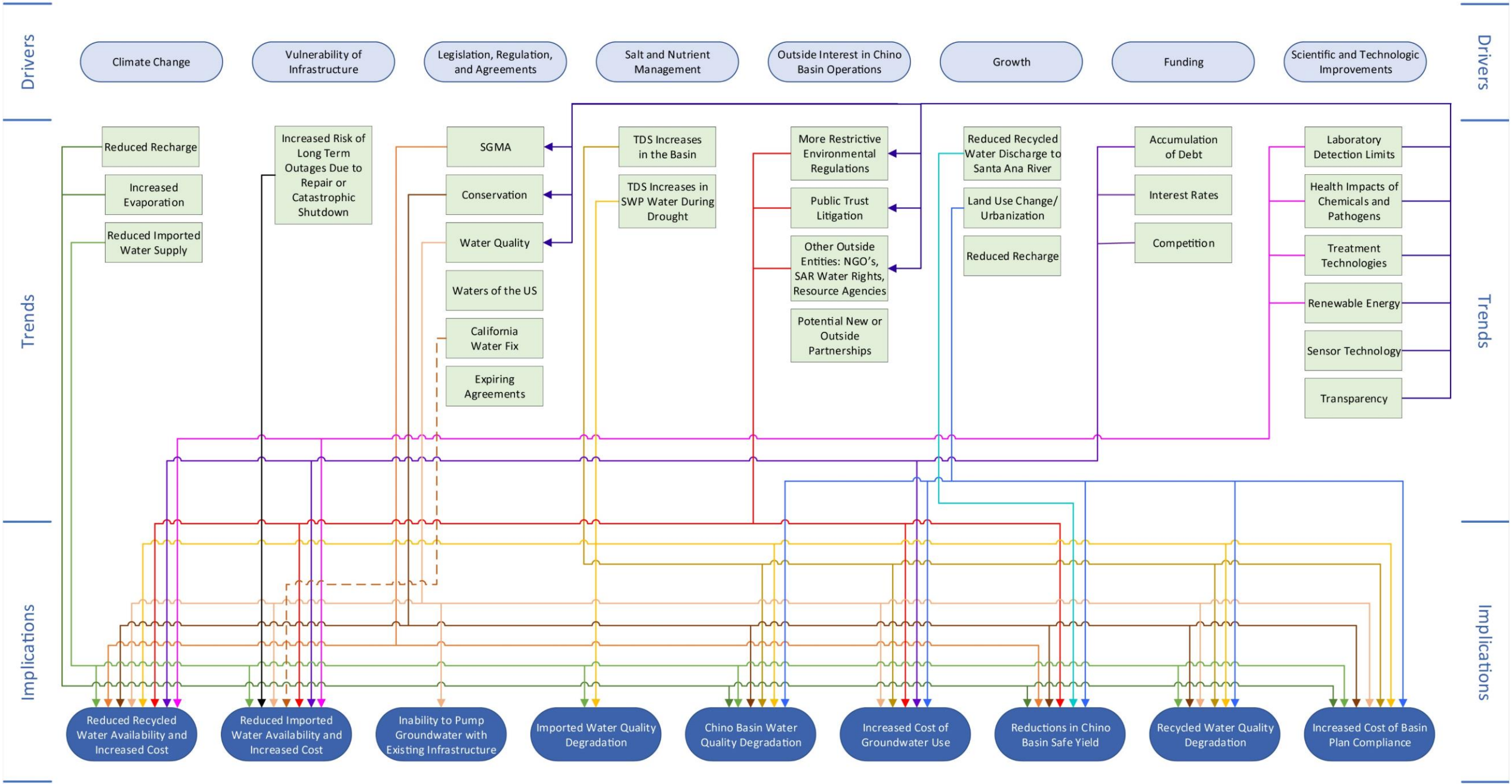
1. **Introduction**
   - History of the OBMP
   - Need for the 2020 OBMP Update
   - Stakeholder Process to Update the OBMP

2. **2020 OBMP Goals and Activities**
   - Summarizes the outcomes of the stakeholder process to define INWs, Goals, and Basin optimization Activities

3. **Integration of the 2020 OBMP Update Activities with the 2000 OBMP Program Elements (PEs)**
   - Describes the 2000 PEs and their IP and how the 2020 OBMP Update Activities are integrated to the PEs
   - Describes the objectives, implementation progress since 2000, and ongoing activities for each PE

4. **2020 OBMP Update Management Plan**
   - Describes the actions, schedule and responsible parties for implementing the PEs within the 2020 OBMP Update

Exhibit 1 – Drivers and Trends and Their Implications
2020 OBMP Update



Issues, Needs and Wants of the Chino Basin Stakeholders

Key: ● Need ● Want/Unspecified

*The letter in this column corresponds with the letter ID of the Activities listed in Table 3

Needs and Wants Categorized by Basin Management Issues	Pool Parties														Others						Addressed by Activities in Table 3*	Alignment with 2000 OBMP Goals
	Appropriative										Agricultural			Overlying Non-Ag								
	Pomona	Chino	Fontana	CVWD	SAWCO	MVWD	Chino Hills	Upland	JCSD	Ontario	Crops	Dairy	State of CA		IEUA	TVMWD	WMWD	Metropolitan	CBWCD	CDA		
Chino Basin Water Quality Degradation																						
Develop a water quality management plan to ensure ability to produce groundwater rights	●	●		●			●	●	●	●				●	●		●	●			E, F, G, J	2, 3
Develop regional infrastructure to address water quality contamination and treatment				●	●			●													A, B, C, E, F, G, I, J	2
Plan for and be prepared for new drinking water quality regulations that may result in an increase in groundwater treatment and costs	●	●	●	●			●	●	●	●					●		●				E, F	2
Be more proactive and engaged in the process to develop new drinking water quality regulations								●													A, B, D, E, G, J	2

2020 OBMP Goals

Goal No. 1 - Enhance Basin Water Supplies

Goal No.2 - Protect and Enhance Water Quality

Goal No.3 - Enhance Management of the Basin

Goal No. 4 - Equitably Finance the OBMP

2020 OBMP Update Activities

A - Increase the capacity to store and recharge storm and supplemental water

B - Develop, implement, and optimize Storage and Recovery Programs

CG - Identify and implement regional conveyance and treatment projects/programs and optimize the use of all water supply sources

D - Maximize the reuse of recycled water produced by the IEUA and others

EF - Develop and implement a groundwater-quality management plan to address contaminants of emerging concern

K - Develop a management strategy within the maximum-benefit salt and nutrient management plan to ensure compliance with recycled water recharge dilution requirements

L - Perform the appropriate amount of monitoring and reporting required to fulfill basin management and regulatory compliance requirements

Exhibit 6

2020 OBMP Update - Activity A:

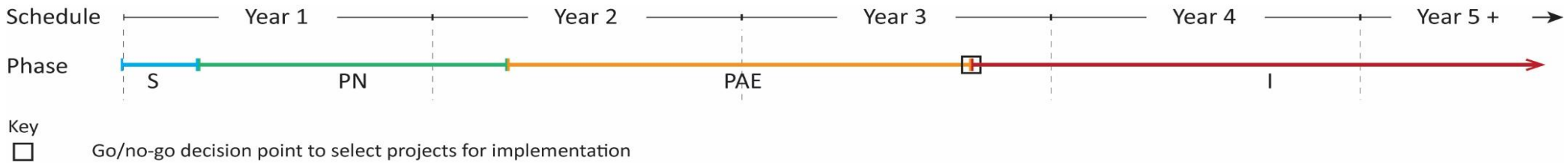
Construct new facilities and improve existing facilities to increase the capacity to store and recharge storm and supplemental waters, particularly in areas of the basin that will promote the long-term balance of recharge and discharge

Need and Objectives: The objectives of Activity A are (1) to maximize stormwater capture pursuant to Watermaster's diversion permits, (2) to promote the long-term balance of recharge and discharge, (3) to ensure sufficient supplemental water recharge capacity for future replenishment, (4) to reduce dependence on imported water by maintaining or enhancing Safe Yield, (5) to improve water quality, and (6) to ensure a supply of dilution water to comply with recycled water recharge permit requirements. Based on the alignment of the objectives of Activity A with those of the RMPU, Activity A can be accomplished through the existing RMPU process.

Phase	Task	Outcomes	Watermaster Role	Are these outcomes necessary for Watermaster to Administer the Physical Solution or Comply with Other Requirements ?
S	1 – Define objectives and refine scope of work	Consensus on objectives of 2023 RMPU	Convene committee	Yes
PN	2 – Develop planning, screening, and evaluation criteria	New criteria for selecting projects	Technical support role	Yes
PAE	3 – Describe recharge enhancement opportunities 4 – Develop reconnaissance-level engineering design and operating plan	Conceptual design, operating plans, and costs of recharge alternatives Project implementation and financing plan	Technical support role	Yes
I	5 – Plan, design, and construct selected recharge projects	New recharge projects	Technical support role	Yes, to the extent that additional recharge capacity is needed

**Phase Descriptions: S = Scoping PN = Evaluate need for project PAE = Project alternative evaluation I = Implementation*

Activity Implementation Schedule and Go/No-Go Decision Points



2000 OBMP Program Elements (PEs)

1 - Develop and Implement Comprehensive Monitoring Program

2 - Develop and Implement Comprehensive Recharge Program

3 - Develop and Implement Water Supply Plan for the Impaired Areas of the Basin

4 - Develop and Implement Comprehensive Groundwater Management Plan for Management Zone 1

5 - Develop and Implement Regional Supplemental Water Program

6 - Develop and Implement Cooperative Programs with the Regional Board and Other Agencies to Improve Basin Management

7 - Other Agencies to Improve Basin Management and Develop and Implement Salt Management Program

8 - Develop and Implement Groundwater Storage Management Program

9 - Develop and Implement Storage and Recovery Programs

2020 OBMPU Activities / 2000 OBMP Program Elements (PEs)	**A** - Increase Recharge	**B** - Optimize Storage and Recovery	**CG** - Regional Conveyance	**D** - Maximize RW Reuse	**EF** - Water Quality Mgmt.	**K** - Plan for SNMP Dilution Compliance	**L** - Monitoring
1 - Monitoring							⚓
2 - Recharge Program	⚓	•					•
3 - Impaired Areas		•			•	•	•
4 - Subsidence Mgmt.	•	•	•				•
5 - Supplemental Water		•	⚓	⚓	•		•
6 - Water Quality	•	•	•	•	⚓	•	•
7 - SNMP				•		⚓	•
8 – Storage Mgmt. Plan		•					•
9 – S&R Programs	•	⚓	•				•

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8 - Develop and Implement Groundwater Storage Management Program

9 - Develop and Implement Storage and Recovery Programs

Program Element 1 – Develop and Implement Comprehensive Monitoring Program

2020 OBMPU Implementation Action	Required by Watermaster?
Years 1 through 3	
Watermaster will continue to conduct the required monitoring and reporting programs, including collection of: groundwater production, groundwater level, groundwater quality, ground level, surface water, climate, water supply planning, biological, and well construction/destruction monitoring data.	Yes
Perform review and update of Watermaster's regulatory and Court-ordered monitoring and reporting programs and document in a work plan: *OBMP Monitoring and Reporting Work Plan.*	No
Years 4 through 20	
Watermaster will continue to conduct the required monitoring and reporting programs pursuant to the *OBMP Monitoring and Reporting Work Plan* (or other guidance documents developed by Watermaster).	Yes
Perform periodic review and update of the *OBMP Monitoring and Reporting Work Plan* (or other guidance documents developed by Watermaster) and modify the monitoring and reporting programs, as appropriate.	No

PE 2 – Develop and Implement Comprehensive Recharge Program

2020 OBMPU Implementation Action	Required by Watermaster?
Years 1 through 3	
Continue to convene the Recharge Investigations and Projects Committee.	Yes
Complete the 2023 Recharge Master Plan Update (RMPU).	Yes
Years 4 through 20	
Implement recharge projects based on need and available resources.	Yes
Continue to convene the Recharge Investigations and Projects Committee.	Yes
Update the RMPU no less than every five years (2028, 2033, 2038).	Yes

PE 3 – Develop and Implement Water Supply Plan for Impaired Areas

The objectives of PE 3 in the 2000 OBMP were to maintain and enhance Safe yield and maximize beneficial uses of groundwater by constructing and operating the Chino Basin Desalters at an ultimate capacity of 40,000 afy.

The final facilities to reach the ultimate capacity are under construction and are expected to be completed by 2021. Operation at this capacity, once all agricultural land uses have converted to urban uses, will fulfill the objectives of PE 3.

Because the operation of the Chion Basin Desalters is necessary to attain Hydraulic Control, which is a regulatory requirement of the maximum benefit SNMP under PE 7, the implementation actions related to the ongoing operation of the Chino Basin Desalters are contained in PE 7.

Thus, there are no separate implemention actions for PE 3 for the 2020 OBMP Update.

PE 4 – Develop and Implement Comprehensive Groundwater Management Plan for MZ-1

2020 OBMPU Implementation Action	Required by Watermaster?
Years 1 through 20	
Implement Watermaster's Subsidence Management Plan, and adapt it as necessary.	Yes
Watermaster will arrange for the physical recharge of at least 6,500 afy of Supplemental Water in MZ-1 as an annual average. Watermaster may re-evaluate the minimum annual quantity of Supplemental Water recharge in MZ-1 and may increase this quantity through the term of the Peace Agreement.	Yes

PE 5 – Develop and Implement Regional Supplemental Water Program

2020 OBMPU Implementation Action	One-time/ Ongoing
Years 1 through 20	
The IEUA will maximize the reuse of its recycled water in the Chino Basin.	No
The IEUA, the TVMWD, the WMWD, and/or other Party acting as a coordinating agency will establish or expand future recycled water planning efforts to maximize the reuse of all available sources of recycled water.	No
Watermaster will support the IEUA, the TVMWD, the WMWD, and/or others in their efforts to maximize recycled water reuse to ensure these efforts are integrated with Watermaster's groundwater and salinity management efforts.	No
The IEUA, the TVMWD, the WMWD, and/or other Party acting as a coordinating agency will establish or expand future integrated water resources planning efforts to address water supply reliability for all Watermaster Parties.	No
Watermaster will support the IEUA, the TVMWD, the WMWD, and/or others in their efforts to improve water supply reliability to ensure those efforts are integrated with Watermaster's groundwater management efforts.	No

PE 6 – Develop and Implement Cooperative Programs with the Regional Board and Other Agencies to Improve Basin Management

2020 OBMPU Implementation Action	Required by Watermaster?
Years 1 through 3	
Re-convene the water quality committee and meet periodically to update groundwater quality management priorities.	Yes
Develop and implement an initial emerging contaminants monitoring plan.	Yes
Prepare a water quality assessment of the Chino Basin to evaluate the need for a Groundwater Quality Management Plan and prepare a long-term emerging contaminants monitoring plan.	Yes
Continue to support the Parties in identifying funding from outside sources to finance cleanup efforts.	Yes
Years 4 through 20	
Develop and implement a Groundwater Quality Management Plan and periodically update it.	Yes
Implement long-term emerging contaminants monitoring plan.	Yes
Continue to conduct investigations to assist the Parties and/or the Regional Board in accomplishing mutually beneficial objectives as needed.	Yes
Implement projects of mutual interest.	No

PE 7 – Develop and Implement Salt Management Plan

2020 OBMPU Implementation Action	Required by Watermaster?
Years 1 through 3	
Complete the 2020 update of TDS and nitrate projections to evaluate compliance with maximum benefit salt and nutrient management plan, and, if necessary, based on the outcome, prepare a plan and schedule to implement a salt offset compliance strategy.	Yes
Continue to implement the maximum-benefit salt and nutrient management plan pursuant to the Basin Plan.	Yes
Years 4 through 20	
Continue to implement the maximum-benefit salt and nutrient management plan pursuant to the Basin Plan, and any amendments thereto.	Yes
Starting in 2025 and every five years thereafter, update water quality projections to evaluate compliance with the maximum-benefit salt and nutrient management plan.	Yes

PEs 8 and 9– Develop and Implement Groundwater Storage Management Program *AND* Develop and Implement Storage and Recovery Programs

2020 OBMPU Implementation Action	Required by Watermaster?
Years 1 through 3	
Complete and submit to the Court the 2020 Safe Yield Recalculation.	Yes
Complete and submit to the Court the 2020 Storage Management Plan.	Yes
Develop a *Storage and Recovery Master Plan* to support the design of optimized Storage and Recovery Programs that are consistent with the 2020 Storage Management Plan and provide the Watermaster with criteria to review, condition, and approve applications in a manner that is consistent with the Judgment and the Peace Agreement.	Yes
Assess losses from storage accounts based on the findings of the 2020 Safe Yield Recalculation.	Yes
Years 4 through 20	
Update the Storage Management Plan in 2025 and every five years thereafter and when: • the Safe Yield is recalculated, • Watermaster determines a review and update is warranted based new information and/or the needs of the Parties or the basin, and • at least five years before the aggregate amount of managed storage by the Parties is projected to fall below 340,000 af	Yes
Perform Safe Yield recalculation every 10 years (2030, 2040).	Yes
Update the storage loss rate following each recalculation of Safe Yield (2030, 2040) and during periodic updates of the SMP.	Yes

Process and Schedule:
2020 Implementation Plan Update
and
Agreement

2000 OBMP

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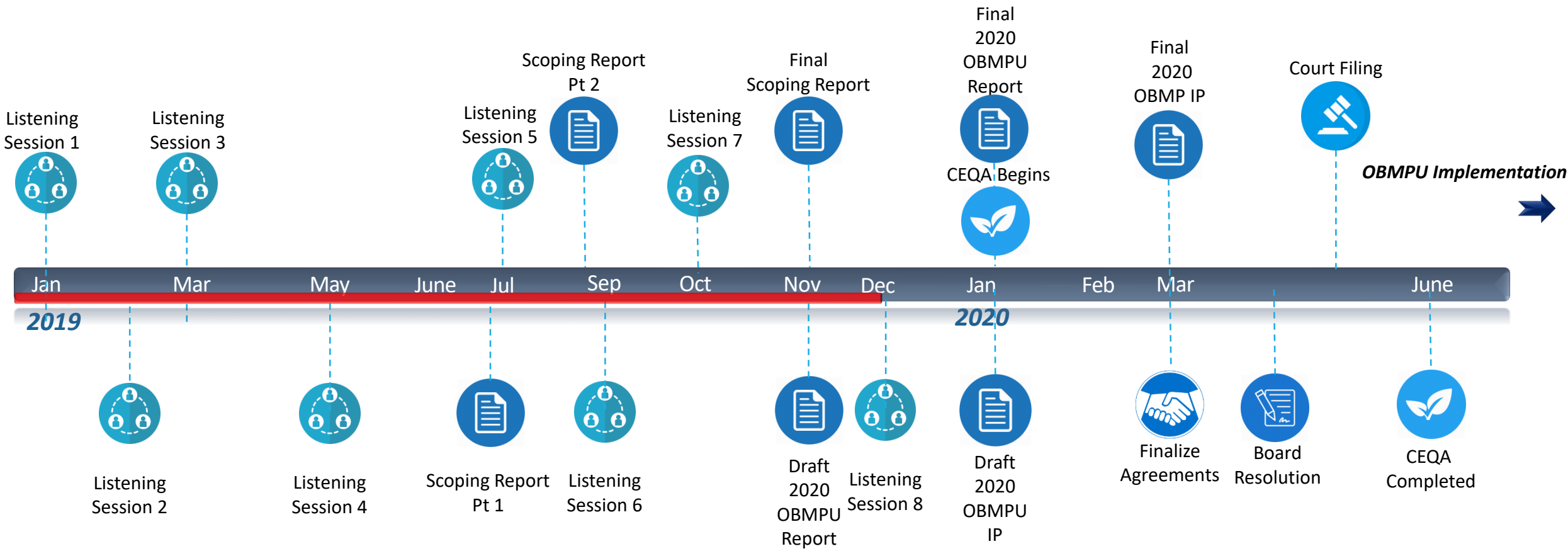
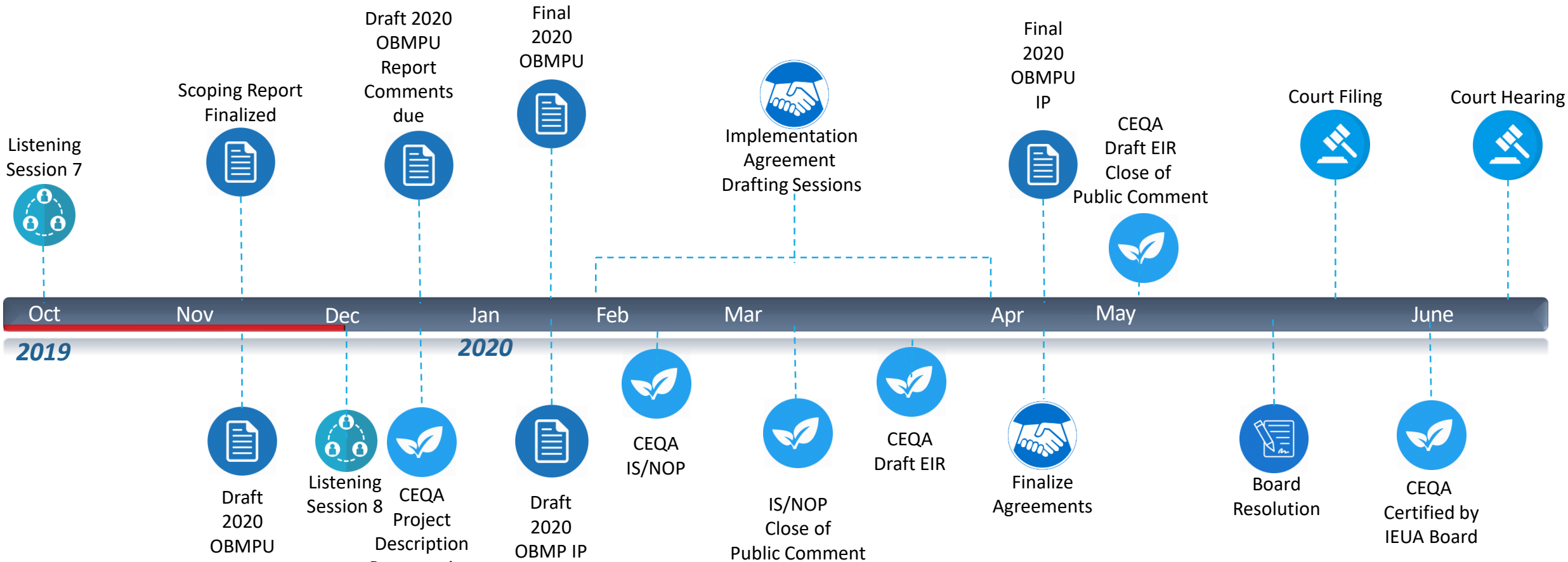


Milestones and Schedule

- December 2019
  - 11th: PE 8/9 – Storage Management Plan finalized
  - 19th: CEQA Draft Project Description Presentation
  - 20th: 2020 OBMP Update Report comments due
- January:
  - 24th: 2020 OBMP Update Report finalized
  - 31st: First draft 2020 OBMP Implementation Plan Update
- February
  - Agreement Drafting Sessions
  - 3rd: CEQA NOP/IS distributed
- March:
  - Agreement Drafting Sessions
  - 23rd: Draft EIR distributed
- April
  - Watermaster Board review of 2020 OBMPU IP Update and Agreement
- May
  - 8th: End of comment period for Draft EIR
  - 27th: Court Filing
- June
  - 17th: CEQA certification by IEUA
  - 26th: Court Hearing

OBMP Update Timeline – Oct 2019-June 2020



Next Steps

2020 OBMP Update Report (TM2)

Comments due – December 20, 2019

Final – January 24, 2020

CEQA Draft Project Description Presentation – December 19, 2019

First Draft of 2020 OBMP IP Update -- January 31, 2020

END