

OKLAHOMA COMPREHENSIVE WATER PLAN

 Date:
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 Project
 12012A.00

Oklahoma Water Resources Board

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Subject:	Programmatic Work Plan and Engagement Plan

Overview

The Oklahoma Water Resources Board (OWRB) is preparing the statutorily required update of the Oklahoma Comprehensive Water Plan (OCWP or 2025 OCWP). It will build upon the previous OCWP update (2012 OCWP) and will focus on the following key activities:

- Advance 2012 OCWP policy recommendations by identifying actions necessary to continue implementation of these.
- Model and assess water availability, water demand projections, and water quality trends, and identify basins with projected challenges or opportunities.
- Evaluate, develop, and recommend water management strategies for all water-use sectors, consider the cost of doing nothing, and develop innovative new funding mechanisms to support their implementation.
- Integrate the OCWP with Oklahoma's first Statewide Flood Plan.
- Conduct focused engagement throughout the process to identify the most pressing current issues and develop best practicable solutions in collaboration with representatives from all water use sectors, Tribal Nations, interested water planning groups, state agencies and legislators, local entities, and federal organizations.

This Programmatic Work Plan and Engagement Plan (PWP/EP) provide a roadmap to complete the OCWP key activities by describing necessary tasks and work products. Figure 1 provides an overview of the major phases of work and tasks in the PWP. Phase 1 work was initially completed in 2021, with periodic updates being made to the PWP/EP over time if needed. Additional detail (subtasks, etc.) is provided in the PWP outline (Appendix A). Note that some tasks may be broken into smaller tasks for phased development, based on available funding and/or timing. For example, Task 3B300 could be contracted in two phases. Figure 1 and the PWP outline were refined in April 2022 to address and incorporate input from engagement group discussions held in Phase 1 of the OCWP development process. Figure 2 was updated in February 2025 to show rollout continuing through State Fiscal Year 2026.





US Army Corps of Engineers



// OCWP PWP and Engagement Framework

Figure 1 PWP and Engagement Framework

The OCWP will be developed in the five inter-related phases shown in Figure 1. While the work will primarily be completed in order from Phase 1 through Phase 4, tasks will be executed as needed and some Phase overlap will inevitably occur. Phase 5 represents engagement activities (forming the EP), which will support and integrate each of the other phases of the work. While not detailed here, each phase will have tasks for Project Coordination and Quality Management (e.g., Tasks 1P and 1Q for Phase 1).

It is anticipated that OWRB staff and consultants will complete PWP tasks based on availability of funding and OWRB prioritization over time, and as such, some tasks in this PWP may not be completed. Historically, USACE Planning Assistances to States (PAS) and OWRB matching funds have been the primary funding sources for OCWP work. Subsequent requests with scopes will be submitted to USACE as ensuing consequential project needs become evident.

Phase 1: Plan

Phase 1 activities establish the vision for the OCWP, its interim and end products, and the PWP "roadmap" of activities to achieve those goals. Top-level tasks in Phase 1 include:

- **1A: Vision, Goals, and Objectives.** Synthesize OCWP vision, goals, objectives, and ideas for potential end products.
- **1B: Draft Programmatic Work Plan and Engagement Plan.** Develop PWP/EP framework to facilitate participant input regarding OCWP vision, key issues, and end products. Develop draft PWP/EP to reflect OWRB vision and participants' needs and interests and assign preliminary priority to key tasks.
- **1C: Final Programmatic Work Plan.** Revise PWP to reflect participant input and finalize.

Phase 2: Analyze

Phase 2 activities assess the water supply and demand outlook through the planning period. This includes updating and modernizing the Oklahoma H₂O Tool to characterize the potential for future water shortages

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in each basin and implementing a database that facilitates OWRB analyses and feeds an interactive dashboard for users to explore selected public-facing modeled scenarios and predicted future outcomes. Top-level tasks in Phase 2 include:

- 2A: Consumptive Water Demand Forecasts. Confirm data sources and water use sectors. Develop consumptive demand forecasts to 2075, including existing levels of conservation and passive conservation (i.e., demand that will occur without actively implementing new conservation measures, which are considered in Task 3B).
- **2B: Water Supply Availability Analyses.** Assessment of physical water (wet water) availability and legal water (permits/water rights) availability for traditional sources (surface water, alluvial groundwater, bedrock groundwater) and nontraditional sources (examples include municipal reuse, produced water reuse, other industrial reuse, brackish groundwater, and stored flood water), considering Interstate Compact obligations and climate change scenarios.
- 2C: Supply Planning Model, Database, and Interface. Modernize and update Oklahoma H₂O model, database, and interactive electronic user interface (for simplicity, the interactive electronic user interface is referred to as "OCWP Dashboard" in this memo). Assess potential supply shortages (surface water gaps and groundwater depletions) using physical supply availability and demand forecasts from Tasks 2A and 2B. Model additional scenarios as necessary to respond to participant feedback or project needs identified in later tasks.
- **2D: Water Quality Analyses.** Summarize groundwater quality and surface water quality in each Basin using OWRB BUMP/GMAP data. Assess trends in data and potential concerns with respect to meeting drinking water criteria and stream standards. This information will feed into the assessment of water supply concerns for each basin in Tasks 3B and 3D.

Integration of State Flood Plan Information

State Flood Planning work will be conducted in parallel with development of the OCWP. State Flood Plan outputs are expected to support the development of potential solutions to water supply issues (e.g., storage of excess flood flows for subsequent beneficial use). As such, State Flood Plan inputs are shown as feeding into the OCWP development process between Phases 2 and 3 with OCWP outputs feeding into the Flood Plan between Phases 3 and 4. Opportunities to integrate flood plan information with the OCWP Dashboard will be explored where appropriate.

Phase 3: Develop

In Phase 3, technical and policy solutions are explored to address the water supply issues identified in Phase 2. Most OCWP analyses will be conducted at the "Basin" level for each of the state's 82 planning Basins. Additional solutions will be explored via more detailed analyses at the sub-basin level for those Basins identified as water supply "Focus Basins" (FBs, those basins with the most significant projected water challenges in need of investment due to physical availability, legal availability, and/or water quality considerations). Top-level tasks in Phase 3 include:

- **3A: Resilience Assessment.** Inventory potential threats to reliable water supply, assess the likelihood of each threat occurring and the relative severity of consequences in each OCWP Region, and identify best practices and opportunities to create reliable water supplies and investment needs to mitigate each type of threat. Coordinate activities with federally mandated America's Water Infrastructure Act (AWIA) analyses and provide AWIA compliance information and/or support to water providers.
- **3B: Regional and Basin-Level Water Management Strategies and Supplemental Investigations.** Define Water Management Strategies (WMS) and assess their effectiveness at the Basin level.

Conduct supplemental investigations (e.g., source water protection, regionalization, drought response plan, nonconsumptive use considerations where appropriate, etc.).

- **3C: Local Projects and Programs (LPPs).** Compile LPPs in each Basin using input from Water Supply and Infrastructure Needs Survey (WSINS), Wastewater Collection and Treatment Infrastructure Needs (CWNS), and information received from other state agencies or through other OCWP engagement activities. Consider which LPPs to incorporate into the Oklahoma H₂O Tool and update Oklahoma H₂O accordingly.
- 3D: Focus Basins Identification and Solutions. Define criteria (e.g., physical availability, legal availability, and/or water quality considerations) and identify FBs. Develop user-level demand projections for selected water use sectors and assess the effectiveness of FB mitigation measures, including the use of WMSs from Task 3B and LPPs identified in Task 3C. Populate Oklahoma H₂O model and OCWP Interface/ Dashboard (from Task 2C) with FB information. Feed results from Tasks 3B (WMSs) and Task 3C (FBs) to Engagement process for review and consideration in Task 5C; refine and prioritize as appropriate after receiving participant input.
- 3E: Water Management Policies Analyses. Assess progress made on the 2012 OCWP policy
 recommendations and identify what is necessary to continue implementation of these. Close
 coordination with participants and possible workgroups (see Task 5C) and socio-economic
 analyses will support refinement and prioritization of these water management policies if
 appropriate.

Phase 4: Rollout

In Phase 4, work products developed in previous tasks are summarized and deployed for users of the OCWP. This includes finalizing and distributing reports and interactive tools, assessing financial needs and proposing solutions, and developing implementation plans for OCWP recommendations. Top-level tasks in Phase 4 include:

- **4A: Reports.** Compile reports from subtasks in Phases 1, 2, and 3 and post them to the external OCWP Dashboard. Develop Executive Report.
- **4B: OCWP Dashboard Rollout.** Identify, refine, and add functionality to interactive OCWP Dashboard initially developed under Task 2C. Develop online user guides. Increase user awareness through external communications and orientation workshops.
- 4C: Financial Assistance Needs and Recommendations. Assess fiscal needs by category and compare with the cost of doing nothing. Categories will be defined based on observed needs and participant input. Inventory and characterize existing funding/financing mechanisms. Propose potential new funding/financing mechanisms, documenting the need and basis for the programs, leveraging the database of LPPs from Task 3C and policies from Task 3E.
- **4D: Implementation Plans.** Identify what is necessary to implement Policy Recommendations (drawing on findings from Task 3E) and Financial Assistance Programs (from those developed in Task 4C).

Phase 5: Engagement Plan

Engagement activities will support all aspects of OCWP development, starting with input to support PWP development in Phase 1 and continuing through the characterization of potential issues in Phase 2, the development of water supply and policy solutions in Phase 3, and the rollout of OCWP products in Phase 4. Top-level tasks in Phase 5 form the basis for the EP, which include:

• 5A: Engagement Phase 1. Develop EP for all phases of OCWP development, including representative viewpoints, strategies and methods, and goals for each component of the plan. Gather feedback from Regional Planning Groups, Water Unity nations, Agencies, and subset of

the water user groups in support of developing the vision for OCWP work products that will help shape the development of the PWP and the priorities for the OCWP.

- The Draft PWP and EP was issued June 9, 2021 and reviewed with various engagement groups representing water users and water interests across the state. Feedback collected based on their review of the Draft PWP and EP is included in Appendix B.
- **5B: Engagement Phase 2.** Collaborate with specific state agencies, water users, Regional Planning Groups, and Water Unity nations to gather historical water demand and supply information, review basin level demand and supply forecasts, validate projected basin level shortages, review water quality findings. Refine supply planning model based on feedback from engagement groups. Begin identifying possible water management strategies, LPPs, and policy needs from engagement groups (for later use in Phase 3 work).
- 5C: Engagement Phase 3. Collaborate with specific state agencies, water users, Regional Planning Groups, and Water Unity nations to identify water management strategies, assess resilience of water supplies, compile list of local infrastructure projects and programs, and develop water management policies. Refine Focus Basin solutions, water management policies, and regional and basin level water management strategies based on feedback from engagement groups. Referencing input obtained in Phase 1, identify Topics of Interest that can be addressed immediately and begin design and coordination of appropriate work groups or meeting series to seek solutions. To date, work groups have been formed for the Oklahoma Water Reuse Action Plan, Agriculture Irrigators, Source Water Protection, and Workforce. Additional work groups may be formed, e.g., for a Brackish Resources Aquifer Characterization System, and/or infrastructure financing options. Begin getting feedback on mockups of potential Phase 4 Rollout items (for later use in Phase 4 work).
- **5D: Engagement Phase 4.** Collaborate with specific state agencies, legislators, water users, Regional Planning Groups, and Water Unity nations to identify financial assistance needs/programs and implementation plans. Refine and finalize OCWP Executive Summary, policy recommendations, funding programs, and Dashboard based on feedback from engagement groups. Develop and participate in a variety of activities to publicize available resources, new programs and policies.

Funding and Schedule

Figure 2 below indicates the estimated OCWP costs and timeline by Phase. The work conducted under the PWP, including engagement activities, will be prioritized based on funding availability. Costs for each task may be increased or decreased to reflect funding availability, OWRB priorities, and final work plans for the tasks. Foundational elements critical to subsequent tasks will be prioritized in terms of both schedule and funding. The PWP may be updated periodically through the course of developing the OCWP to reflect actual funding, feedback from engagement groups, and implementation priorities.

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			SFY 2	11		·	SFY 2	22			SFY 2	23			SFY 2	4			SFY 2	5			SFY 2	6		
Programmatic Work Plan (February 2025)	Estima Cost in \$1,000	ated n Ds	01				01	02	03	Q4	91	Q 2	Q3	Q4	Q1	02	Q 3	Q4		QZ	03	Q4		02		Q4
Phase 1: Plan	\$	335			1			1		ł.		1	1			1							1	1	40 - P	
1.A. Vision, Goals, and Objectives																										
1.B. Draft Programmatic Work Plan and Engagement Plan																										
1.C. Final Programmatic Work Plan																										
1.D. Project Coordination and Collaboration																0.1						1			1	
1.E. Quality Management																										
Phase 2: Analyze	\$	1,760							1	1-1						1		1					-			
2.A. Consumptive Water Demand Forecasts																										
2.B. Water Supply Availability Analyses																										
2.C. Supply Planning Model, Database, and Interface																										
2.D. Water Quality Analyses																										
Phase 3: Develop	\$	2,430												-		-					-				-	
3.A. Resilience Assessment																										
3.B. Regional and Basin-Level Water Management Strategies																										
(WMS) and Supplemental Investigations																										
3.C. Local Projects and Programs (LPPs)																							1			
3.D. Focus Basin Identification and Solutions																										
3.E. Water Management Policies Analyses																										
Phase 4: Rollout	\$	1,090	(-						
4.A. Reports		and the second																	1000							
4.B. OCWP Dashboard Rollout																										
4.C. Financial Assistance Needs and Recommendations																										
4.D. Implementation Plans																										
Phase 5: Engagement	\$	1,085																								
5.A. Engagement - Phase 1 Plan																										
5.B. Engagement - Phase 2 Analyze									-				-		1	-										
5.C. Engagement - Phase 3 Develop									1	1																
5.D. Engagement - Phase 4 Rollout																										
Total	\$	6,700									-															

Figure 2 OCWP Schedule and Estimated Cost

APPENDIX A PWP OUTLINE

Programmatic ^v	Work Plan (February 2025)	Brief description
1	Phase 1: Plan	
1.A.	Vision, Goals, and Objectives	Define OCWP initial goals, objectives, and vision.
1.B.	Draft Programmatic Work Plan and Engagement Plan	Develop initial framework for the Programmatic Work Plan (PWP)
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1.C.	Final Programmatic Work Plan	Refine PWP workflow and planned OCWP products based on
		feedback from 5A engagement meetings.
1.D.	Project Coordination and Collaboration	Project coordination and collaboration for Phase 1 work.
1.E.	Quality Management	QA/QC for Phase 1 work.
2	Phase 2: Analyze	
2.A.	Consumptive Water Demand Forecasts	
2A 100	Data Collection and Analysis	Aggregate and compile the available demographic information base
		of population (census), categorical service areas, categorical growth
		and use characteristics, connections, per capita use, water
		efficiency, reported or estimated historical water use for municipal
		and non-municipal uses and geographic region, along with analyses
		to determine historical trends.
110	Water Demand - Data Collection and Analysis	Aggregate and compile the available demographic information base
		of population (census), categorical service areas, categorical growth
		and use characteristics, connections, per capita use, water
		efficiency, reported or estimated historical water use for municipal
		and non-municipal uses and geographic region, along with analyses
		to determine historical trends.
120	Water Demand - Gather and Review ODOC and FSA Data	Gather and review data
2A 200	Develop Demand Forecasts by Decade to 2075 (Including	Establish assumptions and performance of quantitative analyses
	Existing, Planned, and Passive Conservation)	towards development of decadal demand projections by use
		category at the basin level. Existing conservation, goals, and
		estimates of anticipated water efficiency will be developed and
		incorporated.
210	Develop Demand Model and Forecast for All Water Use	Statistically analyze each water use category based on categorical
	Sectors	characteristics of historic patterns of growth and past water use.
220	Cross-Reference or Integrate Regional/Local-Developed	Compile selected local forecasts and studies of forecasted
	Forecasts	population growth, water demand, and/or water supply gathered
		via local engagement, and evaluate materials for potential
		reference or incorporation as appropriate.

Programmatic Wo	rk Plan (February 2025)	Brief description
230	Water Demand - revise projections using 2020 census	Update water demand forecast using 2020 Census and/or 2020
	and/or 2020 USGS	USGS report
2A 300	Other demand growth scenarios	Develop alternative demand growth scenarios reflecting variation in
	-	native flow and interbasin transfers.
2A 400	Weather Extremes Scenarios	Develop and apply assumed impacts of weather extremes to
		demand projections of water use by category, focusing upon the
		conservative estimation of drought effects on water demand.
2A 500	Allocate Demands to Basins by Scenarios	Disaggregate projected water demands by decade and water use
		category to geographical basin.
510	Allocate Demands to Basins by Scenarios	Disaggregate projected water demands by decade and water use
		category to geographical basin.
520	Allocate Demands - revise allocations using 2020 census	Update water demand allocations using 2020 Census and/or 2020
	and/or 2020 USGS reports	USGS report
2A 600	Demand Trend Analysis	Quantitative evaluation of characteristics and trends by water use
		category and basin to determine broader statewide traits in
		municipal and non-municipal uses.
2A 700	Reserved	
2A 900	Demand Forecast Report	Develop Technical Report documenting data and analyses
		performed under Task 2A. Content of this report will inform later
		development of final OCWP reporting.
2.B.	Water Supply Availability Analyses	
2B 100	Data Collection and Analysis	Aggregate and compile the available information base on
		streamflow, watershed characteristics, storage, legal and physical
		availability of water supply by geographic region. Analysis of
		available data will be utilized to identify knowledge gaps and for the
		establishment of assumptions for OCWP.
2B 200	Characterize Interstate Compact Requirements	Review and summarize quantitative interstate compact obligations,
		including inflow from upstream Compact states and required
		outflow to downstream Compact states. Data will be used as part of
		the permit supply availability analyses (2B 600).
2B 300	Physical Supply Availability Analysis – Traditional Sources	Analyze water supply availability from surface and groundwater
		sources. Evaluation will include use of existing basin studies,
		riverologic data, and surface water models with sufficient period of
	Devoiced Supply Avgilghility Arghesis and Water Orghity	record to include drought effects.
2B 400	Physical Supply Availability Analysis and Water Quality	Analyze and quantify water supply availability from sources other
	Characterization – Nontraditional Sources	than surface and groundwater supplies.

Programmatic Wor	k Plan (February 2025)	Brief description
410	Municipal Water Reuse	Analyze and evaluate existing and potentially feasible direct and indirect reuse of municipal supply. Develop assumptions and quantitative estimates of available reuse supply and geographic basin.
420	Produced Water Management and Reuse	Analyze and estimate potential water supply from produced water sources. Evaluation will include assessment of existing information base. This will include targeted engagement with OWRB staff.
430	Industrial Reuse (non-O&G)	Analyze and estimate existing and potentially available supply from reuse of industrial water supplies. Development of assumptions and quantitative estimates of available reuse supply and geographic basin.
440	Brackish Groundwater	Compile and analyze existing knowledge base and data on existing and potentially feasible brackish groundwater supply. This will include targeted engagement with ongoing working group and OWRB staff.
450	Regional Stormwater / Stored Flood Flows	Compile and analyze available stormwater and storage data for potential water supply. Identification at basin level of surplus (flood scalping) potential with storage (surface, ASR, MAR).
460	Decentralized Treatment and Reuse	Basin-scale assessment for potential of small-scale supply infrastructure (raw water treatment or reuse) for positioning of plants near identified water needs. Development of assumptions and high-level estimates of potentially feasible supply for both municipal and non-municipal needs.
470	Onsite (Rooftop Capture, Greywater, Onsite treatment and	r Review and assess available information base on estimation of existing and potentially feasible supply from rainwater/stormwater harvesting, onsite treatment, and reuse at the basin level.
480	Reserved	
2B 500	Weather Extreme Supply Scenarios	High-level analysis of potential change to existing supply when accounting for effects of weather extremes to precipitation and evaporation to streamflow and storage, with a focus upon characterizing potential drought effects.
2B 600	Permit Supply Availability Analysis	Compile legal and infrastructure information and data for the assessment of basin-level accessibility to water supply. Analysis to include Excess and Surplus characterization in coordination with OWRB, and development of basin-specific runoff modeling.

Programmatic W	ork Plan (February 2025)	Brief description
2B 700	Reserved	
2B 900	Water Supply Availability Report	Develop Technical Report documenting data and analyses
		performed under Task 2B. Content of this report will inform later
		development of final OCWP reporting.
2.C.	Supply Planning Model, Database, and Interface	
2C 100	Confirm Functionality and Planning Scenarios	Determine desired capabilities and planned interaction of
		functional elements for the H2O Tool, database, and portals.
2C 200	Update and Modernize Oklahoma H ₂ O Model	
210	Update and Modernize Oklahoma H ₂ O Model (part 1)	Model vetting, assessment, and selection of best appropriate
		methodology, development and coding as necessary for
		incorporation of model inputs, preliminary application of analytic
		approaches for planning scenarios, representations of basin
		demand and supply, and review of model results.
220	Update and Modernize Oklahoma H ₂ O Model (part 2)	Continued model development, refinement of analyses for FB
		evaluations and necessary model outputs for database and portal
		USES.
2C 300	Database Structure Development	Evaluate and develop structural database to process data and H2O
		Model outputs. Queries to be developed based on necessary
		functionality for both in-house State uses as well as public-facing
		portal.
2C 400	Interactive User Interface / OCWP Web Portal	Evaluate, select, design, and implement software for internal and
		external portals, utilizing database queries and outputs. Portal
		development will include presentation of key information as
		identified by OWRB for representation of the OCWP.
2C 500	Model Functionality for Nonconsumptive Demand	Evaluate and implement H2O Model functions to represent existing
		and potential future flow frequencies at the basin-level for
		potential impacts to available nonconsumptive uses.
2C 600	Run Model Supply/Demand Scenarios to Forecast Shortages in	Apply the fundamental water equation of supply and demand at
	Each Basin	the basin level to determine surpluses and shortages for various
		water use categories over the planning period. The extent,
		magnitude, and duration of such shortages will heavily inform upon
		the identification of FBs.
2C 700	Reserved	
2C 800	Supplemental Model Development and Runs to Address	Based on feedback from engagement, adjustments to the H2O
	Stakeholder Feedback	Model, database, and/or portal functionalities will be performed at
		the appropriate level.

Programmatic	Work Plan (February 2025)	Brief description
2C 900	Model and Interface Report	Development of Technical Report documenting modernization of the H2O Model, and development of the database and portals as performed under Task 2C. Content of this report will inform later development of final OCWP reporting.
2.D.	Water Quality Analyses	
2D 100	WQ Parameter Selection and Data Collection	Plan WQ work (what parameters are we going to use, what are outputs, etc.) Aggregate available pertinent water quality data and information base. Data will be provided at the basin level.
2D 200	Summary of Surface Water and Groundwater Data/Thresholds	Analyze data to determine trends in selected water quality parameters, with a potential focus on variation in water temperatures at the basin level.
2D 300	WQ Regulatory Considerations	Develop an inventory of present water quality regulations, rationale, and key influences affecting economy, recreation, and water supply permitting and planning.
2D 400	Reserved	
2D 900	Water Quality Summary Documentation	Develop Technical Report documenting data, analyses, and evaluations performed under Task 2D. Content of this report will inform later development of final OCWP reporting.
2.P.	Project Coordination and Collaboration	Internal project management functions, including coordination and collaboration amongst project team, OWRB, and other project team members. This includes preparation and participation in conference/video calls, internal team meetings, and in-person meetings as necessary.
2.Q.	Quality Management	Internal quality management for assurance and control functions. Applicable for technical analyses, tool/model development and functionality, and reporting.
3	PHASE 3: DEVELOP	
3.A.	Resilience Assessment	
3A 100	Inventory and Characterize Potential Threats to Water Supply Reliability	Identify statewide types/categories of threats to water supply reliability and characterize the potential types of implications for water supply reliability and/or water quality.
3A 200	Regional Assessment (for the 13 Watershed Planning Regions)	Develop a matrix indicating the likelihood/applicability of each threat category to each planning region, considering conditions specific to each region.

Programmatic Wo	ork Plan (February 2025)	Brief description
3A 300	Mitigation Strategies for Each Threat Type	Identify and characterize best practices that can be used to mitigate
		each category of water supply vulnerability.
3A 400	AWIA Coordination / AWIA Utility Support	Coordinate vulnerability assessments with AWIA requirements to
		provide supplemental guidance for communities to use in AWIA
		compliance documents.
3A 500	Populate Interactive Portal from 2C with Resilience Content	Populate the relative applicability/risk of each threat category for
		each region/basin into geospatial coverages in the interactive
		OCWP Portal.
3A 600	Reserved	
3A 900	Oklahoma Water Resilience Report	Develop technical report to document all methods and findings
		from the preceding Task 3A subtasks. This report will include a list
		of potential water threats, the matrix developed for each of the 13
		OCWP watershed planning regions, and mitigation strategies and
		supplemental guidance for communities to use in AWIA compliance
		documents.
3.B.	Regional and Basin-Level Water Management Strategies (WMS) a	and Supplemental Investigations
3B 100	Establish Categories of WMS	Identify categories of potential WMS, including supply, treatment,
		demand management and other aspects.
3B 200	Develop Effectiveness Rating Scale and Approach for Each	Develop a means to evaluate and characterize the effectiveness of
	WMS Category	individual WMS categories in addressing a range of water supply /
		water quality challenges. Develop criteria for assessing the
		potential effectiveness of a given category of WMS in mitigating
		supply shortages or water quality challenges.
3B 300	Assess Effectiveness for Applicable WMS Categories in Each	Evaluate potential effectiveness of each WMS Category in
	Basin	addressing water supply / WQ challenges in individual Basins.
3B 400	Water for 2060 Assessment/Tracking/Revisions	Develop an improved method for tracking progress toward the
		Water for 2060 (WF2060) goal both through fresh water saved and
		use of alternative sources to meet demands. Consider adding fields
		to OWRB Water-Use database and promote new technologies and
		practices.
3B 500	Populate Interactive Portal from 2C with WMS Content	Populate the results of WMS analyses for each region/basin into
		geospatial coverages in the interactive OCWP Portal.
3B 600	Supplemental Investigations	Supplemental studies contingent on funding availability.
610	Potential Nonconsumptive Flow Strategies	Evaluate potential methods for implementing nonconsumptive use
		strategies from prior OWRB investigations; consider reservoir
		release management and other innovative approaches.

Programmatic Work	Plan (February 2025)	Brief description
620	Source water protection	Evaluate existing state and local source water protection programs. Evaluate applicability of elements from successful programs
		elsewhere. Develop and analyze options to improve source water
		protection specifically with goal of improving or maintaining water
		quality for suitable uses, for possible inclusion in water
		management policy work (3E).
630	Regionalization	Evaluate potential regionalization projects (like developing shared infrastructure/treatment and supplies or developing system interconnections for greater resiliency/redundancy between nearby
		systems), determine if incentives are needed to promote
		regionalization and if so, develop incentive options for
		consideration. Develop guidelines/strategies of how regionalization can be implemented. Results from regionalization analysis may be incorporated into the water management policy work (3E) and/or
		used to develop solutions in Focus Basins (3D).
640	Drought management/contingency plan	Building on existing drought planning documents, identify drought management strategies (DMS) that OWRB could identify for potential statewide or regional implementation and their potential impact on water use.
		*Note: This technical report is NOT to be construed as an update to the 1998 Oklahoma Drought Management (Response) Plan which will require coordination between multiple state and local organizations.
650	Groundwater	
651	Aquifer Recharge (including storage and recovery)	Evaluate the current aquifer recharge program (i.e., update the 2010 Aquifer Recharge Issues and Recommendations to reflect new technological and legal framework/opportunities). Develop and analyze opportunities to enhance programs and implement recharge projects for possible inclusion in water management policy work (3E) and/or specific systems that could be added to the Local Infrastructure Projects and Programs (LPPs) database and/or address issues in Focus Basins (Task 3D).
652	Critical groundwater treatment needs (guide, best practices)	Characterize regional or aquifer-specific groundwater quality challenges and develop best practices for addressing them. The deliverable for this task is likely to be a user guide and may assist in development of LPPs (3C) and/or resolution of issues in Focus Basins (3D).

Programmatic Work Plan	(February 2025)	Brief description
653	Complete remaining basin studies and set EPS	This task will be led by OWRB. Complete basin studies and set equal proportionate share (EPS) in unstudied basins.
660	Surface water	
661	Surface Storage Sites and Implementation of New Storage	Prepare an Addendum to update previously-identified reservoir sites described in the 2012 Reservoir Viability Study to reflect latest data for proposed major reservoir or changes to reservoir use for non-federal reservoirs. Screen the most likely/best locations. Identify next steps for permitting and identifying any hurdles for implementation. *Note: This task is not intended to develop new reservoir sites but will use available data to focus on the implementation process and actions for specific sites.
661A	Surface Storage Sites and Implementation of New Storage (part 1)	Prepare Addendum to the 2012 Reservoir Viability Study to reflect latest data for proposed major reservoirs or changes to reservoir use for non-federal reservoirs. Screen the most likely/best locations and perform a more rigorous technical analysis, potentially informed by Task 2B450 and regional engagement.
661B	Surface Storage Sites and Implementation of New Storage (part 2)	Using findings from Task 3B661A, identifying next steps for permitting and identifying any hurdles to implementation for specific sites.
662	Reservoir Yield and Sedimentation Studies	This task will be led by OWRB. Complete additional yield studies and sedimentation studies.
663	Analyze Major Federal Reservoirs for Permit Allocation Usage	Identify major federal reservoirs that have a flood storage pool in Focus Basins that have a projected supply gap. Assess preliminary potential for reallocating flood storage to water supply storage through consultation with each federal reservoir owner. Identify projects and costs incurred on those projects associated with reallocating flood storage to water supply storage.
664	Harmful Algal Blooms	Assess supply reliability implications of HABs; integrate analyses with Water Research Foundation HAB prediction research study on which OWRB is a partner.
665	Protecting Reservoir Yields	
669	Reserved	
670	Agricultural	

Programmatic Work Plan	(February 2025)	Brief description
671	Soil health	Evaluate soil health's impact on water use and quality and develop/document best practices. The deliverable of this task may be a user guide and may assist in development of LPPs. Consider developing soil health improvement program including funding criteria.
672	Compare cost of converting to high efficiency irrigation to conveyance	As a pilot study, evaluate various degrees of conversion to high efficiency irrigation measures vs. bringing in new water supplies (in lieu of allowing greater depletions of groundwater supplies) for a few basins. Determine if incentives are needed to promote conversion and if so, develop incentive options for consideration. Develop guidelines/strategies of how conversion can be implemented. Based on pilot work, determine factors that drive the viability of conversion to high efficiency irrigation as a water management strategy and could be used as a potential solution to address FBs.
673	Compare water quality/chemical cost impacts if fertilize using drip irrigation (or other efficient method)	Evaluate various chemical delivery methods to crops in terms of cost and impact on water quality and water quantity and develop chemical delivery best practices (to minimize impact on water quality while not increasing water use). Determine if incentives are needed to promote better chemical delivery methods and if so, develop incentive options for consideration. Develop guidelines/strategies of how conversion to better chemical delivery methods can be implemented. Determine factors that drive the viability of better chemical delivery method as a water management strategy and could be used as a potential solution to address FBs.
674	Compare cost/water savings of implementing reuse versus high efficiency irrigation	As a pilot study, determine where implementing reuse for agriculture purposes is feasible, then select a few sites (counties/basins) and evaluate the cost of implementing nonpotable reuse. Compare cost to implement reuse with cost to convert to high efficiency irrigation (using 3B672 data). Determine non-monetary factors that influence decision to implement reuse versus high efficiency irrigation. Determine if incentives are needed and develop options for later consideration if appropriate. Results from this analysis may be incorporated into water management strategy and/or used as a potential solution to address Focus Basins.

Programmatic Work P	lan (February 2025)	Brief description
675	Irrigation Resource District Strategies	Evaluate existing state and national irrigation resource district
		programs and specifically the applicability of elements from
		successful programs. Develop and analyze options for possible
		inclusion in water management policy work (3E).
679	Reserved	
680	Onsite (localized) Sources	Evaluate potential water supply benefits and best practices
		associated with onsite sources such as greywater, decentralized
		treatment, rainwater harvesting, green stormwater infrastructure.
690	Mapping (not publicly available)	Develop additional GIS databases and mapping of water
		infrastructure in municipal and/or rural water systems.
6A0	Small system studies	Develop water supply planning guides and best practices unique to
		small systems across Oklahoma.
6B0	Regional Water Planning	Evaluate existing state and national regional water planning
		programs and specifically the applicability of elements from
		successful programs to Oklahoma. Work with various stakeholders
		to develop and analyze options for possible inclusion in water
		management policy work (3E).
6C0	Oklahoma Water Reuse Action Plan	Work with various stakeholders to develop and analyze water reuse
		options for possible inclusion in water management policy work
		(3E). If appropriate, develop an Oklahoma Water Reuse Action Plan.
6D0	Workforce Development	Work with various stakeholders to evaluate workforce challenges in
		Oklahoma, evaluate successful programs locally and elsewhere, and
		develop recommendations for possible inclusion in water
6E0	Statewide Hydrologic Modeling using USACE's "Rive	management policy work (3E). rware" Much of Oklahoma's Corps lakes and other systems are already
		modelled with Riverware. This effort by the Tulsa District will fill in
		where there are gaps with the general hydrology of major
		watersheds in the State.
6F0	Other studies	Other studies as identified by OWRB or water users, subject to
		funding availability.
6G0	Updates to the statewide 1998 Rural Water Service	Area Bou Updates to the statewide 1998 Rural Water Service Area
		Boundaries Map as a downloadable ESRI compatible layer.
6Z0	Reserved	
3B 700	Reserved	

Programmatic W	/ork Plan (February 2025)	Brief description
3B 900	Regional and Basin-Level Water Management Strategies	Document Task 3B methods and findings, excluding Supplemental
	Report	Investigations that may have their own dedicated reports.
3.C.	Local Projects and Programs (LPPs)	
3C 100	Establish Eligibility Criteria for Inclusion in OCWP / Financial	Develop criteria for projects to be included in OCWP LPP database.
	Assistance Eligibility	Compile eligibility criteria for existing or potential future financial
		programs and recommend changes to be considered. Results from
		this work may be incorporated into water management policies
		work (3E).
3C 200	Inventory Potential LPPs	
210	Water Supply and Infrastructure Needs Survey (WSINS)	Solicit LPP information from water providers, possibly through use
		of a survey or other outreach mechanisms.
220	Wastewater collection and treatment infrastructure needs	Solicit LPP information from wastewater providers, possibly
	(CWNS)	through use of a survey or other outreach mechanisms.
230	Coordinate survey with other OCWP elements	Coordinate with WSINS and CWNS during survey development and
		data collection
3C 300	Screen LPPs Using Eligibility Criteria	Using criteria developed in 3C100, screen LPP list and identify which
		projects are eligible for existing or potential future financial
		programs.
3C 400	Populate Interactive Portal from 3C with LPP Content	Populate LPPs into geospatial coverages in the interactive OCWP
		Portal.
3C 500	Reserved	
3C 900	LPPs Report	Summarize findings from analyses into report. Report will include
		documentation of LPP screening criteria and weighting criteria (if
		appropriate for funding).
3.D.	Focus Basin Identification and Solutions	
3D 100	Identify Focus Basins (FBs)	Develop criteria and scoring method to assess all 82 basins relative
		to physical water availability, legal water availability, and water
		quality and make determinations as to which basins will be
		categorized as a "Focus Basin." Of the identified FBs, select
		candidates for local stakeholder input meetings.
3D 200	Investigate Focus Basin Challenges through Water User	FB meetings will require targeted solicitation of key local water
	Engagement	users in each of the FBs selected for engagement.
		These meetings are intended to improve local understanding of
		long-term water challenges, provide local networking opportunities
		between water users, and discuss water management strategies to
		meet identified challenges.

Programmatic Wor	k Plan (February 2025)	Brief description
3D 300	Assess FB Mitigation Measures	Building on the list of WMS categories (see 3B 100) , assess the
		potential effectiveness of applicable water management strategies
		to mitigate or resolve projected supply challenges in each.
3D 400	Prioritization of Water Management Strategies	Prioritize water management strategies for local implementation at
		basin or project level, to mitigate supply issues in each, in
		coordination with the LPP database (see 3C).
3D 500	Populate Interactive Portal from 2C with FB Content	Populate FB issues and solutions into geospatial coverages in the
		interactive OCWP Portal.
3D 600	Reserved	
3D 900	Focus Basins Report	Develop a database of Focus Basins with scored criteria and
		prioritization. Prepare draft and final Focus Basin report
		documenting the analyses and water user engagement.
3.E.	Water Management Policies Analyses	
3E 100	Assess Progress in Addressing 2012 OCWP Policy Needs	Assess status of implementation or resolution of policies identified
		in the 2012 OCWP, including the "Big 8" and full lists of policy
		recommendations. Consult OWRB, agencies, water users, Tribes,
		RPGs, and other interested parties to gauge progress.
3E 200	Synthesize Potential Policy Priorities	Drawing from input obtained as part of Engagement Plan meetings
		and actions, compile and organize a list of potential policies for
		action by OWRB, other agencies, or the Legislature.
3E 300	Establish and Deploy Prioritization System for Water	Develop and apply criteria and method for evaluating and ranking
	Management Policies	the priority of identified policy measures.
3E 400	Socio-Economic Analysis	Assess the socio-economic aspects and cost/benefits of
		nonconsumptive water uses and the costs associated with inaction
		for consumptive use projects.
3E 500	Policy Refinement	Refine policies developed and prioritized in previous tasks based on
		further input and feedback from water users, agencies,
		organizations, Tribes, Legislators, and others.
3E 600	Reserved	
3E 900	Water Management Policy Report and Interactive Story Map	Document Task 3E methods and findings, including development of
		an online Story Map that depicts locations and issues associated
		with priority policy recommendations.

Programmatic	: Work Plan (February 2025)	Brief description
3.P.	Project Coordination and Collaboration	Internal project management functions, including coordination and
		collaboration amongst project team, OWRB, and other project team
		members. This includes preparation and participation in
		conference/video calls, internal team meetings, and in-person
		meetings as necessary.
3.Q.	Quality Management	Internal quality management for assurance and control functions.
		Applicable for technical analyses, tool/model development and
		functionality, and reporting.
4	PHASE 4: ROLLOUT	
4.A.	Reports	
4A 100	Compile / Synthesize / Publish Phase 1, 2, and 3 Reports	Compile Phase 1, 2, and 3 reports and develop final OCWP
		documentation. Publish report(s).
4A 200	Executive Report	Develop and publish OCWP Executive Report (ER). Initial table of
		contents of ER includes: Executive Summary, Policy
		Recommendations and Implementation, Statewide Overview and
		Water Assessments, Regional/Statewide Water Management
		Options and Solutions, and Funding Assessment.
4A 300	Provider planning guides (development and rollout)	Develop and publish identified user guides. Update and move the
		Public Water Supply Planning Guide and Public Wastewater
		Planning Guide online.
4.B.	OCWP Dashboard Rollout	
4B 100	Identify, Refine, and Add Functionality (building on 2C	Determine what information and tools will be part of the (public
	products)	facing) portal and how visitors will interact with it and, when
		feasible, real-time databases to be utilized. Develop content, add
		functionality, and publish portal.
4B 200	Develop Online User Guide	Develop OCWP portal user guide. Develop user guides for other
		tools developed as part of OCWP (example may be the Harmful
		Algal Bloom Predictive model).
4B 300	User Awareness and Orientation Workshops and Web Content	Develop materials for promoting and describing how to use the
		OCWP portal for use in engagement meetings and other workshops
		as identified.
4B 400	Reserved	
4.C.	Financial Assistance Needs and Recommendations	

Programmatic	Work Plan (February 2025)	Brief description
4C 100	Fiscal Need Analysis by Water Use Sector / LPP Prioritization	Using the results from Task 3C, assess each water use sector's
		ability to fund identified LPPs. Complete analysis at the Basin level
		with more detailed assessment possible for the FBs. Develop
		method of prioritizing LPPs for financial support.
4C 200	Inventory and Characterize Existing Federal Programs	Identify and compile requirements of existing federal programs that
		are available to financially support LPPs.
4C 300	Inventory and Characterize Existing State of Oklahoma	Identify and compile requirements of existing state programs that
	Programs	are available to help financially support LPPs.
4C 400	User Awareness and Orientation Workshops and Web Content	Develop and host workshops that provide information on federal
		and state programs that are available for financial assistance for
		LPPs. Solicit feedback from attendees (or users) about potential
		new state programs. Provide information on available programs
		that can be incorporated into the OCWP web portal (4B).
4C 500	Investigate Potential Additional Financing Mechanisms from	Develop recommendations for potential financing mechanisms and
	Major Water Use Sectors	models for public water infrastructure. Investigations and efforts
		should include:
		-research into investment incentives for both traditional and
		nontraditional water sources, water conservation and efficiency etc.
		-Identify leveraging opportunities including private, tribal, local
		partners.
		-Identify gaps and opportunities in current state-level water
		infrastructure financial assistance programs using information
		gathered in PWP Tasks 4C200 (Inventory and characterize existing
		federal funding programs) and 4C300 (Inventory and characterize
		existing state-level funding programs).
		-Recommendations will be in a format suitable for supporting
		dialogue with state lawmakers.
4C 600	Reserved	
4.D.	Implementation Plans	Develop actionable plans, assign priorities, responsibilities, and
		timelines for plan components. Develop implementation plan for
		water management strategies and special studies developed under
		Task 3B.
4D 100	Develop policy language for priority policies from 3E	Develop implementation plan for priority policy recommendations
		developed under Task 3E.
4D 200	Develop financial assistant programs from 4C	Develop implementation plan for financial assistance program
		recommendations developed under Task 4C.

Programmatic	Work Plan (February 2025)	Brief description
4D 300	Reserved	
4.E.	Reserved	
4.P.	Project Coordination and Collaboration	Internal project management functions, including coordination and
		collaboration amongst project team, OWRB, and other project team
		members. This includes preparation and participation in
		conference/video calls, internal team meetings, and in-person
		meetings as necessary.
4.Q.	Quality Management	Quality management for assurance and control functions.
		Applicable for technical analyses, tool/model development and
		functionality, and reporting.
5	PHASE 5: ENGAGEMENT	
5.A.	Engagement - Phase 1 Plan	
5A 100	Engagement 1B (Draft PWP & EP)	Present preliminary draft OCWP vision, goals, objectives, and PWP
		framework; Solicit input on collaboration, end products, key
		challenges
110	Develop Engagement Plan	Develop draft and final OCWP Engagement Plan
120	Tribal engagement (2 months)	Prepare and lead meetings with Tribal representatives (recurring
		meeting format for duration of OCWP).
130	Regional Planning Group engagement (2 months)	Prepare and lead meetings with existing Regional Planning Groups
		(recurring meeting format for duration of OCWP).
140	Agency engagement (1 meeting)	Develop, distribute, and analyze survey to various state agencies to
		gather feedback on possible OCWP end products, water challenges,
		opportunities for collaboration. Prepare materials for and lead
		meeting with state agency directors.
5A 200	Engagement 5A (end Phase 1 Plan beginning Phase 2 Analyze)	Present information on OCWP vision, goals, and objectives; Present
		PWP and EP; Solicit input on collaboration (Tribes and RPGs), end
		products (all), status of local/regional water planning efforts (Tribes
		and RPGs)
210	Tribal engagement	Prepare and lead meetings with Tribal representatives (recurring
		meeting format for duration of OCWP).
220	Regional Planning Group engagement	Prepare and lead meetings with existing Regional Planning Groups
		(recurring meeting format for duration of OCWP).
230	Water Users engagement	Prepare and lead meetings with Water Users (two virtual meetings
		with small group of water users).

Programmatic Wo	rk Plan (February 2025)	Brief description
5.B. and 5.C.	Engagement - Phase 2 Analyze and Phase 3 Develop	Present and ask for feedback when appropriate on demand, supply, gaps/depletions, water quality, water management strategies, resilience analysis, and other information developed as part of the OCWP. Activities may include: in person regional meetings and virtual meetings ; assist OWRB with engagement of key stakeholders and/or formation of workgroups (local officials, water utility suppliers, regulated industry, commercial agricultural producers, economic development entities, representing organizations, or other individuals/groups identified by OWRB); meetings with Water Unity Nations; preparing OCWP newsletters; and provide content for OCWP website.
5.D.	Engagement - Phase 4 Rollout	Present executive summary, OCWP portal demonstration, financial assistance needs and recommendations, and implementation plan.
5.P.	Project Coordination and Collaboration	
5.Q.	Quality Management	

PROJECT MEMORANDUM

APPENDIX B PHASE 5A ENGAGEMENT COMMENTS/RESPONSES

General theme	Paraphrased comment(s) received	Response
2012 OCWP	Request update on progress on implementing or addressing the 2012	This analysis will be conducted in PWP Task 3E100. Analysis will include
	OCWP policy recommendations	identifying activities that have been initated or completed in support of
		each of the recommendations. For activities not started, the OCWP
		planning team will determine whether proposed activities are still valid
		and should be carried forward or modified to better reflect current (2025
		OCWP) recommendations. Input regarding policy recommendations
		(considering the 2012 recommendations and newly-identified policy
		needs) will be solicited as part of the engagement process detailed in
		Phase 5 tasks.
Climate Change	Request analysis that looks at potential impacts on water supply and	The potential impact of climate change on water demands and water
	demand associated with various climate change scenarios	supply availability will be evaluated in PWP Tasks 2A400 and 2B500,
		respectively.
Environmental/Instream	Request to incorporate environmental or instream flows more specifically	PWP Task 3E (Develop OCWP Water Management Policies) is an
Flows	into the OCWP were received. A few specific notes related to these	opportunity to further examine the potential role, benefits, challenges,
	requests include:	and implementation of instream flow management in Oklahoma. PWP
	 recognizing financial impacts of flow in streams has on tourism, 	Task 2C500 is intended to integrate the evaluation of nonconsumptive
	property value, quality of life	needs into the functionality of the updated Oklahoma H2O
	 quantify non-consumptive/recreational flows to support existing 	supply/demand model. In Task 3B610, potential instream flow strategies
	activities and wildlife	can be further considered.
	 water quality associated with environmental / instream flows 	
Infrastructure	Expressed concerns about aging infrastructure and its	PWP Task 3C will compile a list of local infrastructure projects and
Improvements & Funding /	replacement/upgrade costs as well as need for new infrastructure to	programs intended to meet future needs as well as look at possible
Financing	access or treat new water supplies. Expressed interest in having more	funding mechanisms. PWP Task 4C will assess financial assistance needs
	funding available for water projects through both existing and/or new	and make recommendations regarding existing and/or new programs.
	programs.	
Other - working with	How will OWRB work with established water planning groups?	PWP Task 5 (Engagement) identifies a process whereby existing water
established water planning		planning groups along with water users, providers, experts, academia, and
groups		others will be sought for significant interaction, collaboration, and
		coordination.
Permitting / Regulations /	Comments received requested establishing minimum streamflow	PWP Task 3E (Develop OCWP Water Management Policies) will afford the
Policy	legislation, provide data about remaining streamflow after demands are	opportunity to identify and provide administrative, regulatory, and/or
	met, strengthing water quality regulations, and resolving ambiguities on	policy recommendations relating to water management in Oklahoma.
	delivering water to medical marijuana growers (ODEQ, ODAFF, OSDH,	Policy recommendations will be influenced by analysis completed in PWP
	and OMMA).	Task 2D Water Quality, PWP Task 3D Identification and Solutions for Hot
		Spot Basins, and others. Output from the supply/demand analyses using
		the updated Oklahoma H2O Tool could also provide insights into basin-
		level stream flows in decadal increments throughout the 50-year planning
		period.

General theme	Paraphrased comment(s) received	Response
Regionalization	Request to identify where system interconnectivity and regionalization makes sense	Regionalization will be one of the water management strategies explored in PWP Tasks 3B (Water Management Strategies) and Task 3E (Water Management Policies).
Staffing / Workforce	Expressed concerns about difficulty finding qualified staff for operations	PWP Task 3E (Develop OCWP Water Management Policies) will provide an
Shortages	and maintenance work as well concern about loss of institutional knowledge with aging workforce.	opportunity to identify and provide administrative, regulatory, and/or policy recommendations relating to water management in Oklahoma. The potential implementation of water management policies as they relate to the workforce will be considered within the context of this task.
Stormwater / Flooding	Comments received noted flooding frequency and concerns about future regulations.	A separate Oklahoma State Flood Plan is in development and will address these comments.
Support from Agencies / Scientific Communities	Agencies and the scientific community should be included in the planning process for the OCWP.	PWP Task 5 (Engagement) identifies a process whereby water users, providers, experts, academia, and others will be sought for significant interaction, collaboration, and coordination. Further, the PWP identifies tasks whereby external consultants may be brought on to accomplish specific elements of the work, which will include subject matter experts from water consulting, engineering, and academia.
Support to Rural Communities / Public Education	It is important that the plan offer benefits for struggling rural water users and providers.	PWP Task 3B (Regional and Basin-Level Water Management Strategies (WMS)) identifies a series of basin-level analyses comparatively assessing existing water supplies to projected demands. This focus at the basin-level is intended to capture both urban and rural water needs. PWP Task 3D then more thoroughly evaluates Hot Spot Basins where needs are identified and more rigorously vetted, thus capturing needs and evaluating potentially feasible water management strategies at the user level. This exercise will provide the basis for the OCWP's capability to inform legislators on both urban and rural water issues; identify potential strategies, policy recommendations, and/or financial programs; and provide planning information that might not otherwise be available to smaller water providers.
Sustainability	The OCWP's primary goal should be to establish and implement a sustainable management methodology for Oklahoma's water resources.	A fundamental precept of the OCWP is assessing supply capabilities under present water policy. A key element of this work is identifying areas where future demands are projected to exceed sustainable supplies, which will be illustrated as surface water gaps and groundwater depletions (PWP Task 2). The OCWP will also evaluate potential water management strategies to address these gaps and depletions at the basin level, and in more detail in identified "hot spot" basins (PWP Task 3).

General theme	Paraphrased comment(s) received	Response
Water Conservation	Acknowledge on-going water conservation efforts and cover in OCWP	PWP Task 2A200 will include passive conservation in demand forecast development (this is conservation that will happen because of changes to plumbing codes and fixture efficiencies) and savings from existing conservation programs and measures. PWP Task 3B will include conservation as one of water management strategies that will be analyzed.
Water Quality Issues	Water quality comments ranged from concerns about specific constituents (example, nitrates in groundwater), assessing progress on water quality from past efforts (example, phosphorus in eastern Oklahoma), degrading water quality during droughts and/or resulting from specfic activities	PWP Task 2D will compile and assess trends in water quality for both groundwater and surface water. Water quality will also be an element of determining whether a basin is identified as a "hot spot" basin. Once the potential water supply/water quality issues are characterized in Phase 2, solutions will be sought via water management strategies and policies in Phase 3.
Water Quantity Issues	Water quantity comments received requested identifying new supply sources, providing trend information on water quantity specifically in aquifers, addressing the hydrologic connection between surface and groundwater supplies, and enforcing senior water right access to water and protecting conservation pool storage in reservoirs.	PWP Task 2B will evaluate changes in supply availability since previous OCWP. PWP Task 2C (physical supply availability) incorporates the connection between surface water and alluvial groundwater. These tasks will be part of the information that is used in PWP Tasks 3B and 3E to identify effective water management strategies and policies.
Water Reuse	Modify regulations (or offer flexibility) to make reuse more feasible, remove barriers to implementation, so that reuse can be a viable water supply alternative. Comments were also received that requested OCWP look at better matching water quality available with water quality needed (e.g.,, are there some needs that can be met with nonpotable water instead)?	PWP Tasks 2B.410, 420, and 430 look at potential reuse from municipal, produced water, and industrial as water supply options. PWP Task 3E evaluates various water management policies which will include water recycling.