# REGION H Water Planning Group

# **MEETING MATERIALS**

February 1, 2023

#### **List of Abbreviations**

CRU	Collective Reporting Unit
DCP	Collective Reporting Unit Drought Contingency Plan
DFC	Desired Future Condition
DOR	
-	Drought of Record
EA	Executive Administrator
EPA	Environmental Protection Agency
FWSD	Fresh Water Supply District
GAM	Groundwater Availability Model
GCD	Groundwater Conservation District
GMA	Groundwater Management Area
GPCD	Gallons Per Capita Per Day
GRP	Groundwater Reduction Plan
IFR	Infrastructure Finance Report
IPP	Initially Prepared Plan
MAG	Modeled Available Groundwater
MPC	Master Planned Community
MUD	Municipal Utility District
MWP	Major Water Provider
PDSI	Palmer Drought Severity Index
PWS	Public Water Supply
RFPG	Regional Flood Planning Group
RHWPG	Region H Water Planning Group
ROR	Run-of-River
RWP	Regional Water Plan
RWPA	Regional Water Planning Area
RWPG	Regional Water Planning Group
SWIFT	State Water Implementation Fund for Texas
SWP	State Water Plan
TAC	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
TPWD	Texas Parks and Wildlife Department
TWC	Texas Water Code
TWDB	Texas Water Development Board
UCM	Unified Costing Model
URS	Unique Reservoir Site
USS	Unique Stream Segment
WAM	Water Availability Model
WCID	Water Control and Improvement District
WCP	Water Conservation Plan
WMS	Water Management Strategy
WRAP	Water Rights Analysis Package
WUD	Water Utility Database
WUG	Water User Group
WWP	Wholesale Water Provider

#### Water Measurements

- 1 acre-foot (AF) = 43,560 cubic feet = 325,851 gallons
- 1 acre-foot per year (ac-ft/yr) = 325,851 gallons per year = 893 gallons per day
- 1 gallon per minute (gpm) = 1,440 gallons per day = 1.6 ac-ft/yr
- 1 million gallons per day (mgd) = 1,000,000 gallons per day = 1,120 ac-ft/yr

#### Region H Water Planning Group 10:00 AM Wednesday February 1, 2023 San Jacinto River Authority Office 1577 Dam Site Rd, Conroe, Texas 77304 AGENDA

- 1. Call to order.
- 2. Introductions.
- 3. Review and approve minutes of the November 2, 2022 meeting.
- 4. Receive public comments on specific issues related to agenda items 5 through 8. (Public comments limited to 3 minutes per speaker)
- 5. Planning Group Membership
  - a. Receive Nominating Committee recommendations and discuss and elect officers and members of the Executive Committee of the Region H Water Planning Group (RHWPG).
- 6. Special Items and Informational Presentations
  - a. Receive presentation from the Gulf Coast Water Authority regarding the Brazos River Alluvium.
  - b. Receive presentation from the Consultant Team and Harris-Galveston Subsidence District on the Joint Regulatory Plan Review.
  - c. Discuss request from BASF Corporation regarding consistency of proposed project with the Regional Water Plan (RWP) and consider taking action authorizing submittal of a letter from the RHWPG on consistency status.
- 7. Plan Development and Administration
  - a. Receive update from the Consultant Team regarding non-population demand data and projections for the 2026 Region H RWP.
  - b. Receive update from the Consultant Team regarding population demand data and projections for the 2026 Region H RWP.
- 8. General Updates and Outreach
  - a. Receive update regarding schedule and milestones for the development of the 2026 Region H RWP.
  - b. Receive update from liaisons to other planning groups.
  - c. Receive report regarding recent and upcoming activities related to communications and outreach efforts on behalf of the RHWPG.
  - d. Agency communications and general information.
- 9. Receive public comments. (Public comments limited to 3 minutes per speaker)
- 10. Next Meeting: May 3, 2023.
- 11. Adjourn.

Persons with disabilities who plan to attend this meeting and would like to request auxiliary aids or services are requested to contact Sonia Zamudio at (936) 588-3111 at least three business days prior to the meeting so that appropriate arrangements can be made.

# Agenda Item 5a

Receive Nominating Committee recommendations and discuss and elect officers and members of the Executive Committee of the Region H Water Planning Group (RHWPG).



## Agenda Item 5a Annual Elections

- Annual election
- No term limits
- Must be from different interest categories
- Current Membership
  - RWPG Chair: Mark Evans (Counties)
  - Vice-Chair: Marvin Marcell (Water Districts)
  - Secretary: Jace Houston (River Authorities)
  - Committee: John Bartos (Environmental)
  - Committee: Yvonne Forrest (Municipalities)

#### Agenda Item 5a Annual Elections

# Action:

Elect officers and members of the Executive Committee of the RHWPG.

Freese and Nichols, Inc. | INTERA Inc.

# Agenda Item 6b

Receive presentation from the Consultant Team and Harris-Galveston Subsidence District on the Joint Regulatory Plan Review.





5

# 2023 JOINT REGULATORY Plan Review

Update To Region H RWPG

01 February 2023

# Develop Population and Demand Projections

Develop projections of population and water demand over a ten-county area through the year 2100.

#### Conduct Alternative Water Supply Assessment

Review alternative water supplies for the capability of reducing future groundwater demand.

#### Develop the Gulf Coast Land Subsidence and Groundwater Flow Model

Development of the GULF-2023 model for simulating regional groundwater flow and subsidence in the Gulf Coast Aquifer.

#### Evaluate Regulatory Scenarios

Evaluate the performance of the HGSD and FBSD regulatory plans and consider refinements to the regulatory plan framework to accommodate future growth, alternative water supplies, and the most recent aquifer science.

























# Agenda Item 6c

Discuss request from BASF Corporation regarding consistency of proposed project with the Regional Water Plan (RWP) and consider taking action authorizing submittal of a letter from the RHWPG on consistency status.



### Agenda Item 6c Consistency Status

- BASF Corporation water right application
  - Interruptible Brazos River diversion
  - Bed and banks transfer
  - Modeling shows available ≈64% of years
- TCEQ requiring RWPG letter
- Must not be inconsistent with RWP

#### Proposed Right Summary Information

Туре	Non-Firm (Interruptible)
Basin	Brazos River Basin, San Jacinto-Brazos Coastal Basin
County	Brazoria, Falls, Limestone, McLennan, Robertson
Use Types	Industrial, Municipal
Volume	Up to 9,000 ac-ft/yr
Rate	45 cfs (Lake Creek Reservoir) 630 cfs (Harris and Brazoria Reservoirs)
	Freese and Nichols, Inc.   INTERA Inc.

### Agenda Item 6c Consistency Status

- Based on project details, should <u>not</u> require:
  - RWP amendment
  - Formal RWP consistency waiver
- Plan review does not indicate consistency issues
  - Interruptible supply typically excluded from RWP
  - Leverages existing infrastructure
  - Not seeking TWDB funding

# Agenda Item 6c Consistency Status Action: Approve the submittal of a letter from the RHWPG on consistency status.

# Agenda Item 7a

Receive update from the Consultant Team regarding nonpopulation demand data and projections for the 2026 Region H RWP.



### Agenda Item 7a Non-Municipal Water Demand



- Review underway
- Detailed look at background data
- Look for evidence of:
  - Data errors
  - New or missed facilities
  - Planned facilities
  - Closures
  - Major difference in long-term demand
- Revision requests due July 14, 2023

# Agenda Item 7b

Receive update from the Consultant Team regarding population demand data and projections for the 2026 Region H RWP.



#### Agenda Item 7b Population Water Demand

- TWDB projections expected this month
- Potential <u>population</u> alignment with HGSD/FBSD Joint Regulatory Plan Review
  - Highly detailed local analysis
  - Enhanced spatial resolution
  - 9 Region H counties
- Ongoing coordination with RHWPG and TWDB













Agenda Item 7b **Population Water Demand** Harris 7,000,000 6,000,000 5,000,000 bon ation Projection 4,000,000 3,000,000 2,000,000 5,000,000 2,000,000 1,000,000 0 2020 2030 2040 2050 2060 2070 2080 2090 2100 \_\_\_\_\_JRPR ---2021 RWP Freese and Nichols, Inc. | INTERA Inc.







## Agenda Item 7b Population Water Demand

#### **JRPR Projection Process**

- Nine Region H counties
- Area-specific considerations
- Population disaggregated to block
- Average per-capita basis

#### **TWDB Projection Process**

- All 15 Region H counties
- Consistent methodology for State
- Population disaggregated to WUG
- Peak per-capita basis

#### **Bringing It Together**

- Aggregate JRPR populations to WUG boundaries
- Apply TWDB per-capita rates
- Utilize TWDB projections in remaining counties






Agenda Item 8a

Receive update regarding the schedule and milestones for the development of the 2026 Region H RWP.





## Agenda Item 8a 2026 RWP Schedule

Date	Scheduled Events/Tasks		
02/2023	RWPG Meeting		
02/2023	Draft Population and Municipal demand projections released		
05/2023	RWPG Meeting		
07/2023	Non-municipal adjustment requests due to TWDB		
08/2023	RWPG Meeting		4
08/2023	Municipal projection review concludes / requests due to TWDB		-
10/2023	TWDB adoption of projections		Ż
03/2024	Technical Memorandum due to TWDB		
		Freese and Nichols, Inc.   IN	TER/

## Agenda Item 8b

Receive update from liaisons to other groups.





## Agenda Item 8c

Receive report regarding recent and upcoming activities related to communications and outreach efforts on behalf of the RHWPG.



## Agenda Item 8c Community Outreach

- Looking for opportunities for external outreach
- Support materials available for
  - Stakeholder visits
  - Public meetings
  - Legislative outreach

