



MEETING MATERIALS

September 5, 2012

San Jacinto River Authority

Region H Water Planning Group
10:00 AM Wednesday
September 5, 2012
San Jacinto River Authority Office
1577 Dam Site Rd, Conroe, Texas

AGENDA

1. Introductions.
2. Review and approve minutes of June 6, 2012 meeting.
3. **Receive public comments on specific issues related to agenda items 4 through 10.** (Public comments limited to 3 minutes per speaker)
4. Receive presentation from Texas Water Foundation regarding a proposed pilot project to quantify water conservation savings in Region H.
5. Receive update from Consultant Team regarding the schedule and milestones for the first phase of development of the 2016 Region H Regional Water Plan.
6. Receive update from Consultant Team and Non-Population Demands Committee regarding Galveston County manufacturing demand projections recommended for the 2016 Region H Regional Water Plan and consider approving submittal to TWDB.
7. Receive update from Consultant Team and Population Demands Committee regarding draft population projections for use in development of the 2016 Region H Regional Water Plan.
8. Receive presentation from Tom Michel on status of Brazos River and Associated Bay and Estuary System Stakeholder Committee progress.
9. Receive report regarding recent and upcoming activities related to communications and outreach efforts on behalf of the Region H Planning Group.
10. Agency communications and general information.
11. **Receive public comments.** (Public comments limited to 3 minutes per speaker)
12. Next Meeting: December 5, 2012.
13. Adjourn

Agenda Item 2

Review and approve minutes of June 6, 2012 meeting.

MINUTES
REGION H WATER PLANNING GROUP MEETING
10:00 A.M.
June 6, 2012
SAN JACINTO RIVER AUTHORITY
GENERAL AND ADMINISTRATION BUILDING
1577 DAM SITE ROAD
CONROE, TEXAS

MEMBERS PRESENT: David Bailey, John Bartos, Robert Bruner, Mark Evans, Bob Hebert, Art Henson, John Hofmann, John Howard, Gena Leathers, Glynn Leiper, Marvin Marcell, Ron Neighbors, Jimmie Schindewolf, William Teer, Steve Tyler, C. Harold Wallace, J. Kevin Ward, and Pudge Willcox

DESIGNATED ALTERNATES: Charles Dean for John Blount, Lisa Lattu for Jun Chang, Davies Mtundu for Jace Houston, Ivan Langford for Robert Istre, Paul Nelson for Kathy Jones, and Zach Holland for James Morrison

MEMBERS ABSENT: Ted Long and Carl Masterson

NON-VOTING MEMBERS PRESENT: Bill Balboa, Scott Hall, Temple McKinnon, and Melinda Silva

PRESIDING: Mark Evans, Chair

CALL TO ORDER REGULAR MEETING AT 10:04 A.M.

A quorum was present.

INTRODUCTIONS

Mr. Evans welcomed everyone and alternates were announced.

REVIEW AND APPROVE MINUTES OF MAY 2, 2012 MEETING

The minutes for the May 2, 2012, meeting were presented. Motion was made by Mr. C. Harold Wallace, seconded by Mr. Art Henson, to approve the minutes. The motion carried unanimously.

RECEIVE PUBLIC COMMENTS ON SPECIFIC ISSUES RELATED TO AGENDA ITEMS 4 THROUGH 11

Brandt Manchenn expressed his personal comments regarding Agenda Items 9 and 10. He also presented the planning group with a letter outlining his comments. Mr. Manchenn specifically pointed out the need for a clearly understandable evaluation criteria for the 2016 Region H Water Plan and mentioned that he is opposed to the dam/reservoir proposed on Lake Creek.

Ken Cramer, Lone Star Chapter of the Sierra Club, discussed his concern regarding Agenda Item 10. Mr. Cramer mentioned that there needs to be more focus on the lower Brazos.

CONSIDER AND TAKE ACTION ON THE RESIGNATION OF DANNY VANCE AS A VOTING MEMBER OF THE REGION H WATER PLANNING GROUP REPRESENTING RIVER AUTHORITIES

Recommendation was made by Mr. Ron Neighbors to accept Mr. Vance's resignation as a member of the Region H Water Planning Group representing River Authorities. Mr. Bob Hebert seconded the motion. The motion carried unanimously.

CONSIDER AND TAKE ACTION ON THE SELECTION OF J. KEVIN WARD AS A VOTING MEMBER OF THE REGION H WATER PLANNING GROUP REPRESENTING RIVER AUTHORITIES

Recommendation was made by Mr. Henson to accept the selection of Mr. Ward as a member of the Region H Water Planning Group representing River Authorities. Mr. John Bartos seconded the motion. The motion carried unanimously.

RECEIVE UPDATE FROM CONSULTANT TEAM REGARDING THE SCHEDULE AND MILESTONES FOR THE FIRST PHASE OF THE DEVELOPMENT OF THE 2016 REGION H REGIONAL WATER PLAN

Mr. Jason Afinowicz updated the group on the schedule and milestones. He stated that when the group meets again the consultant team will have an updated schedule from the Texas Water Development Board. He specifically stated that the technical memorandum has shifted from February to a year down the road. Ms. Temple McKinnon stated that a critical building block for the technical memorandum is not ready and that is the reason for moving it out.

DISCUSSION AND POSSIBLE ACTION TO AUTHORIZE THE CONSULTANT TEAM TO PROVIDE PUBLIC NOTICE AND SUBMIT A GRANT APPLICATION TO TWDB ON BEHALF OF REGION H FOR FUNDING THE SECOND PHASE OF THE FOURTH ROUND OF REGIONAL WATER PLANNING

Mr. Afinowicz stated that the scope is dictated by the Texas Water Development Board's agenda and budget. Ms. McKinnon stated that the schedule will look similar to Phase 1.

Recommendation was made by Mr. Neighbors to authorize the Consultant Team to provide public notice and submit a grant application to TWDB on behalf of Region H for funding the second phase of the fourth round of regional water planning. Mr. John Hofmann seconded the motion. The motion carried unanimously.

RECEIVE UPDATE FROM CONSULTANT TEAM AND SURFACE WATER SUPPLY COMMITTEE REGARDING DRAFT SURFACE WATER SUPPLY AVAILABILITY ESTIMATES FOR USE IN DEVELOPMENT OF THE 2016 REGION H REGIONAL WATER PLAN

Mr. Afinowicz updated the group on the draft surface water supply model results for the Trinity and San Jacinto River Basins, including the variations from the 2011 Plan. Discussion ensued regarding shortages in the Brazos and sedimentation.

RECEIVE PRESENTATION FROM THE CONSULTANT TEAM AND WATER MANAGEMENT STRATEGY COMMITTEE ON THE STRATEGY SELECTION PROCESS AND CRITERIA FOR THE 2016 REGIONAL WATER PLAN AND TAKE ACTION AS NECESSARY

Mr. Afinowicz mentioned that as a continuation from discussions at the last meeting, generally the feedback from the group was that the water management strategy process needs to contain as much specificity as possible and that the selection process needs to be understandable. Discussion ensued regarding making the evaluation process consistent and picking one that makes the most sense.

Motion was made by Mr. Neighbors to authorize the consultant team to move forward with the strategy selection process and criteria for the 2016 Regional Water Plan. Mr. Marvin Marcell seconded the motion. The motion carried unanimously.

REVIEW AND CONSIDER AUTHORIZING CONSULTANT TEAM TO SUBMIT A SCOPE OF SERVICES AND BUDGET ESTIMATE FOR ACCELERATED FUNDING UNDER TASK 4D OF THE 2016 REGIONAL WATER PLAN

Mr. Mike Reedy updated the group on the budget estimate for accelerated funding under Task 4D of the 2016 Regional Water Plan. He further discussed Allens Creek Reservoir, regional return flows, Houston indirect reuse, brackish groundwater desalination, Montgomery County Reservoir, and the budget summary. Discussion ensued regarding brackish groundwater desalination.

Motion was made by Mr. Neighbors to authorize the consultant team to submit a scope of services and budget estimate for accelerated funding under Task 4D. Mr. J. Kevin Ward seconded the motion. The motion carried unanimously.

RECEIVE REPORT REGARDING RECENT AND UPCOMING ACTIVITIES RELATED TO COMMUNICATIONS AND OUTREACH EFFORTS ON BEHALF OF THE REGION H PLANNING GROUP

Mr. Afinowicz continued by discussing recent community outreach activities. He stated that the consultant team spoke at the *Brazos Basin and Bay Area Stakeholder Committee (BBASC)* meeting (05/30) and the *Gulf Coast/Montgomery County Water Efficiency Network* (06/04). He also mentioned the *Brazoria County EDA* (07/09).

AGENCY COMMUNICATIONS AND GENERAL INFORMATION

Ms. McKinnon stated that the draft rules for public comment ended Monday and that they had received six comments from the public.

Mr. Hofmann mentioned that BRA had submitted an application to TCEQ for a permit to appropriate available flows in the Brazos Basin.

Discussion ensued regarding the Legislative Reception and Texas Groundwater Summit.

RECEIVE PUBLIC COMMENTS

Ken Kramer stated that a Water Conservation Symposium was scheduled for June 21st in Waco, Texas, and that the group can find registration information at txwater.org.

NEXT MEETING

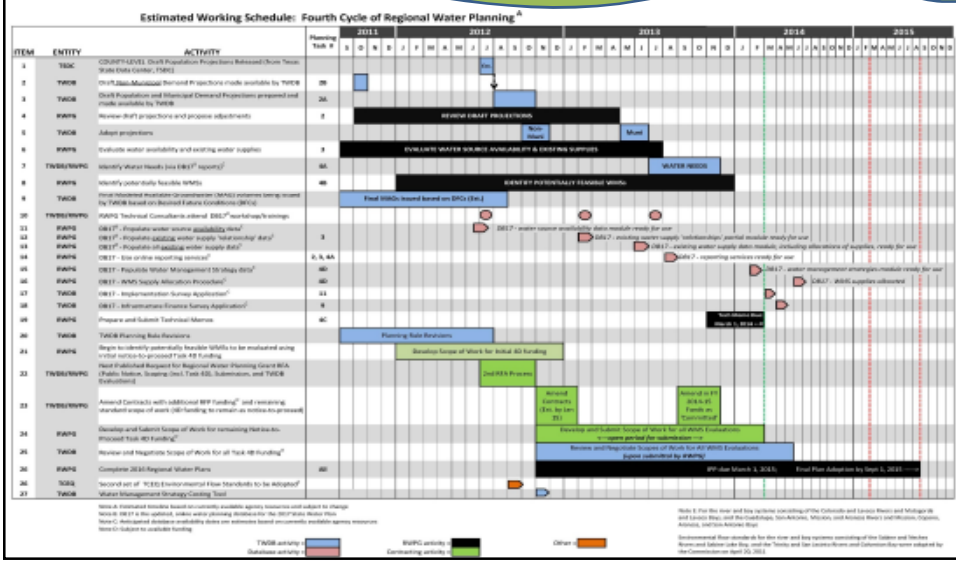
September 5, 2012
San Jacinto River Authority
General and Administration Building
1577 Dam Site Road
Conroe, Texas 77304

ADJOURNED AT 11:38 A.M.

Agenda Item 5

Receive update from Consultant Team regarding the schedule and milestones for the first phase of development of the 2016 Region H Regional Water Plan.

Agenda Item 5 2016 RWP Schedule and Milestones



Agenda Item 5 2016 RWP Schedule and Milestones



Date	Event	Phase 1 Scheduled Tasks
02/2012	RWPG Meeting	Review Non-Population Demands
05/2012	RWPG Meeting	Review Available Supplies
06/2012	RWPG Meeting	Review available supplies Review WMS selection methodology Review Task 4D Scope and Budget for submittal to TWDB
09/2012	RWPG Meeting	Review Population Projections
12/2012	RWPG Meeting	Review Population Demands
Q1/2013- Q3/2013	RWPG Meeting	Review Supply, Water Needs, and WMS Studies
Q4/2013	RWPG Meeting	Approve Technical Memorandum
2/28/2013 03/01/2014	Due Date	Technical Memorandum to TWDB

Agenda Item 5 2016 RWP Schedule and Milestones



Phase 2 Planning

- **Initially Prepared Plans**
 - March 1, 2015
- **Regional Water Plans**
 - September 1, 2015



Agenda Item 5 2016 RWP Schedule and Milestones



Phase 2 Planning

Region	TOTAL	PLANNING TASK									
		1	4D	5	6	7	8	9	10	11	
A	\$391,055	\$12,307	\$180,668	\$12,768	\$18,067	\$53,156	\$6,170	\$2,658	\$92,023	\$13,238	
B	\$297,910	\$6,553	\$143,840	\$10,932	\$14,384	\$32,556	\$6,058	\$2,268	\$70,133	\$11,186	
C	\$1,341,464	\$19,435	\$721,217	\$98,686	\$72,122	\$161,448	\$8,155	\$25,204	\$163,139	\$72,058	
D	\$581,804	\$16,139	\$278,388	\$19,070	\$27,839	\$81,590	\$6,307	\$2,706	\$131,932	\$17,833	
E	\$254,073	\$4,053	\$125,858	\$11,127	\$12,586	\$23,866	\$6,071	\$1,732	\$57,730	\$11,050	
F	\$558,724	\$18,177	\$266,969	\$16,994	\$26,697	\$86,011	\$6,376	\$4,070	\$114,539	\$18,891	
G	\$923,341	\$27,311	\$440,430	\$36,179	\$44,043	\$146,500	\$7,029	\$6,651	\$182,797	\$32,401	
H	\$1,417,302	\$19,392	\$800,407	\$79,989	\$80,041	\$141,058	\$8,136	\$33,872	\$173,194	\$81,213	
I	\$639,336	\$15,540	\$323,306	\$21,521	\$32,331	\$89,614	\$6,475	\$5,969	\$122,658	\$21,922	
J	\$252,779	\$3,733	\$127,431	\$9,697	\$12,743	\$22,345	\$6,021	\$1,635	\$58,927	\$10,247	
K	\$565,838	\$11,192	\$290,675	\$25,016	\$29,067	\$68,848	\$6,743	\$3,242	\$106,659	\$24,396	
L	\$787,421	\$17,387	\$414,187	\$34,593	\$41,419	\$94,766	\$6,799	\$3,924	\$142,823	\$31,523	
M	\$466,868	\$7,742	\$234,188	\$24,438	\$23,419	\$50,512	\$6,469	\$13,614	\$79,718	\$26,768	
N	\$315,787	\$7,185	\$153,764	\$12,825	\$15,376	\$32,058	\$6,089	\$1,927	\$75,343	\$11,220	
O	\$457,441	\$12,763	\$223,750	\$17,302	\$22,375	\$53,430	\$6,413	\$4,216	\$98,796	\$18,396	
P	\$212,604	\$2,142	\$109,714	\$9,261	\$10,971	\$11,103	\$6,002	\$1,197	\$52,882	\$9,332	
TOTAL	\$9,463,747	\$201,051	\$4,834,792	\$440,398	\$483,480	\$1,148,861	\$105,313	\$114,885	\$1,723,293	\$411,674	

Agenda Item 5
2016 RWP Schedule and Milestones



Phase 2 Planning

- October 4, 2012 – Response to RFA Due to TWDB
- October 17, 2012 – Anticipated TWDB Action
- January 15, 2013 – Execute Contract Amendments



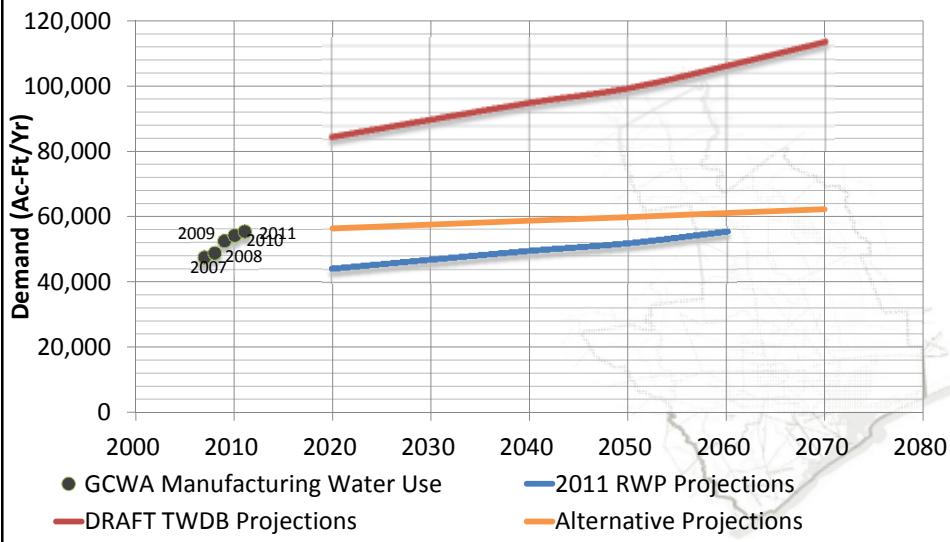
Agenda Item 6

Receive update from Consultant Team and Non-Population Demands Committee regarding Galveston County manufacturing demand projections recommended for the 2016 Region H Regional Water Plan and consider approving submittal to TWDB.

Non-Population Water Demands



Alternative Projections



Region H Manufacture Demand Projections for 2017 SWP						
County Name	2020	2030	2040	2050	2060	2070
Austin	108	117	126	133	145	158
Brazoria	247,938	267,567	287,195	306,824	326,452	346,081
Chambers	11,043	11,919	12,792	13,577	14,591	15,681
Fort Bend	8,971	9,306	9,576	9,755	9,233	8,739
Galveston¹	56,394	57,522	58,672	59,846	61,042	62,263
Harris	424,761	449,218	470,881	487,094	478,957	470,956
Leon	834	958	1,083	1,196	1,301	1415
Liberty	440	508	578	641	696	756
Madison	226	247	268	287	311	337
Montgomery	2,135	2,388	2,640	2,863	3,107	3372
Polk	0	0	0	0	0	0
San Jacinto	11	12	13	14	15	16
Trinity	0	0	0	0	0	0
Walker	312	312	312	312	312	312
Waller	134	149	164	177	192	208
Total	753,307	800,223	844,300	882,719	896,354	910,294

Bolded projections were submitted as proposed modifications to TWDB.

¹Galveston County Demands are proposed modifications to be sent to TWDB, pending Region H approval.

Agenda Item 6
Galveston County manufacturing



Item 6: Receive update from Consultant Team and Non-Population Demands Committee regarding Galveston County manufacturing demand projections recommended for the 2016 Region H Regional Water Plan and consider approving submittal to TWDB.

Consider action to approve submittal of the recommended Galveston County manufacturing water demand projections to TWDB.



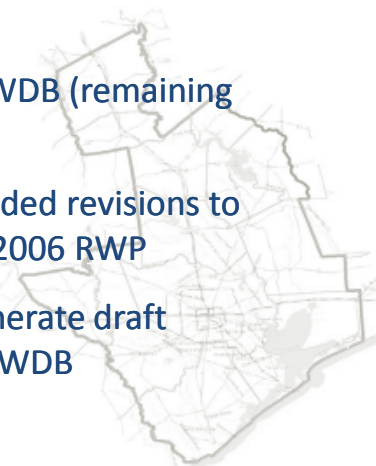
Agenda Item 7

Receive update from Consultant Team and Population Demands Committee regarding draft population projections for use in development of the 2016 Region H Regional Water Plan.

Population and Demand Projections Development Process



- Population projections from Regional Groundwater Study (five-county area)
- Population projections from TWDB (remaining counties)
- 2011 RWP: RWPGs recommended revisions to TWDB-adopted projections in 2006 RWP
- 2016 RWP: RWPGs receive/generate draft projections to be adopted by TWDB



Regional Groundwater Update Project Study Overview



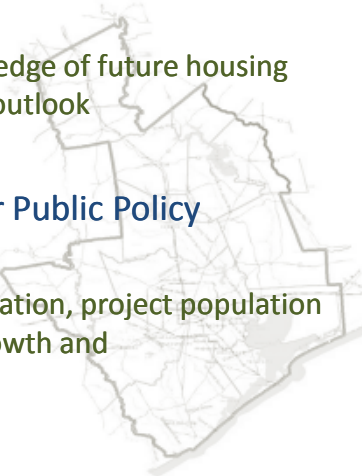
- Sponsored by HGSD, LSGCD, and FBSD
- Components:
 - **Population Projections**
 - **Water Demand Projections**
 - Groundwater Model Development
 - Subsidence Model Development
- Goals
 - Primary: Development of new regulatory plan for HGSD and FBSD (Dec. 2012)
 - **Secondary: Adopt Population/Water Demands for Region H**



Regional Groundwater Update Project Population Projection Methodology



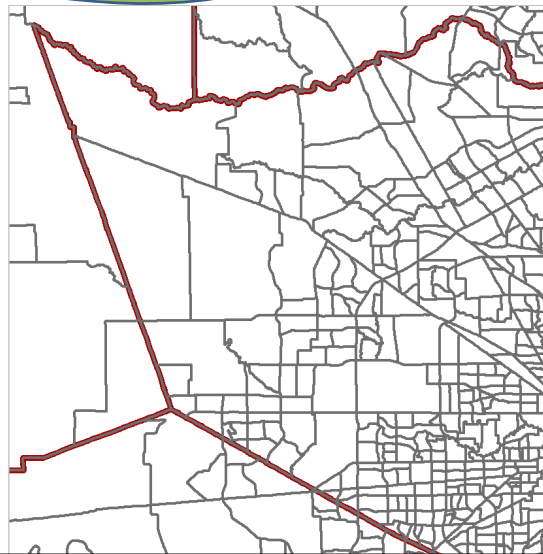
- **Metrostudy:**
 - Short Term (2010 to 2020)
 - Quarterly Housing Surveys, knowledge of future housing development, regional economic outlook
- **University of Houston Center for Public Policy**
 - Long Term (2030 to 2070 Decadal)
 - Models historic patterns in job creation, project population based on forecast of economic growth and number/location of future jobs



Regional Groundwater Update Project Population Projection Development



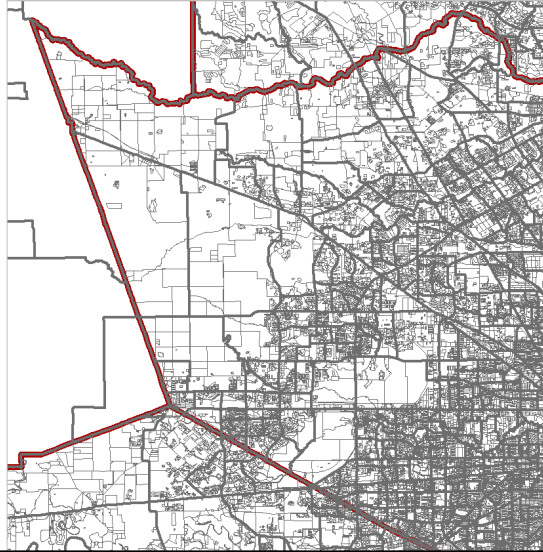
- **Tract Level Projections**
 - 1,039 tracts in 5 primary counties



Regional Groundwater Update Project Population Projection Development



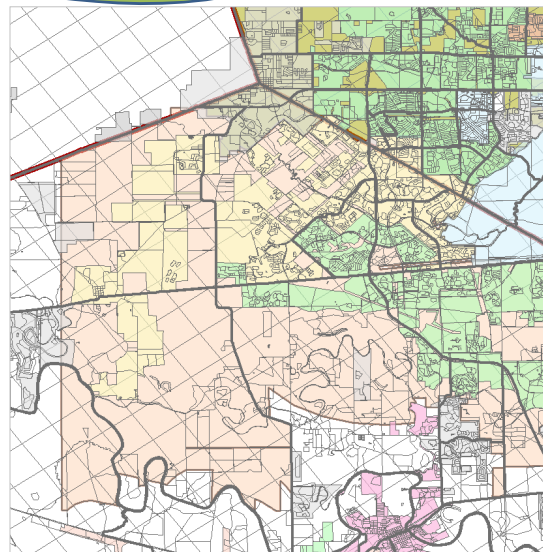
- **Distributed to Census Blocks**
 - H-GAC land use data
 - 114,200 blocks in 5 primary counties



Regional Groundwater Update Project Population Projection Development



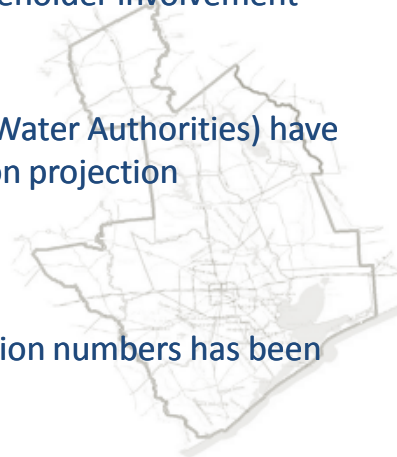
- **Other Boundary Projections Derived From Census Block Projections**
 - MUDs
 - Cities
 - Regional Water Authorities
 - Regulatory Boundaries
 - Groundwater Model Grids



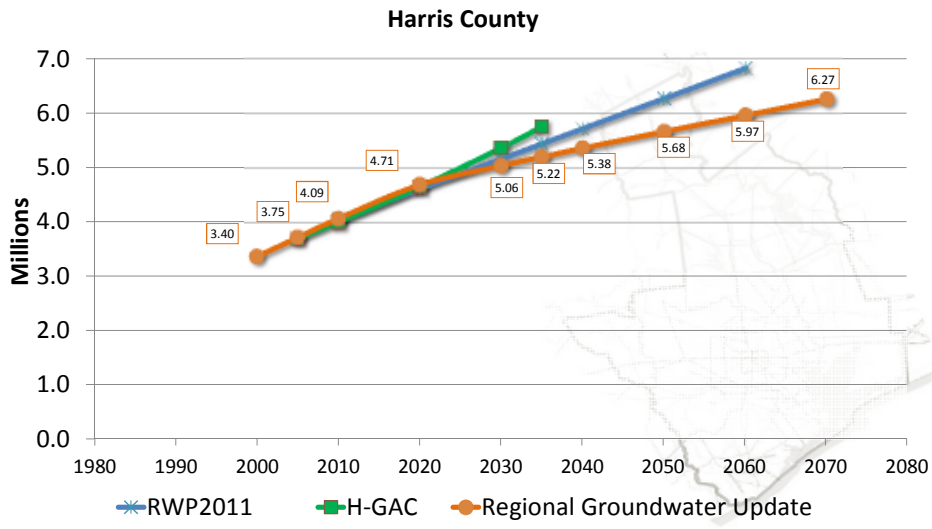
Regional Groundwater Update Project Stakeholder Process



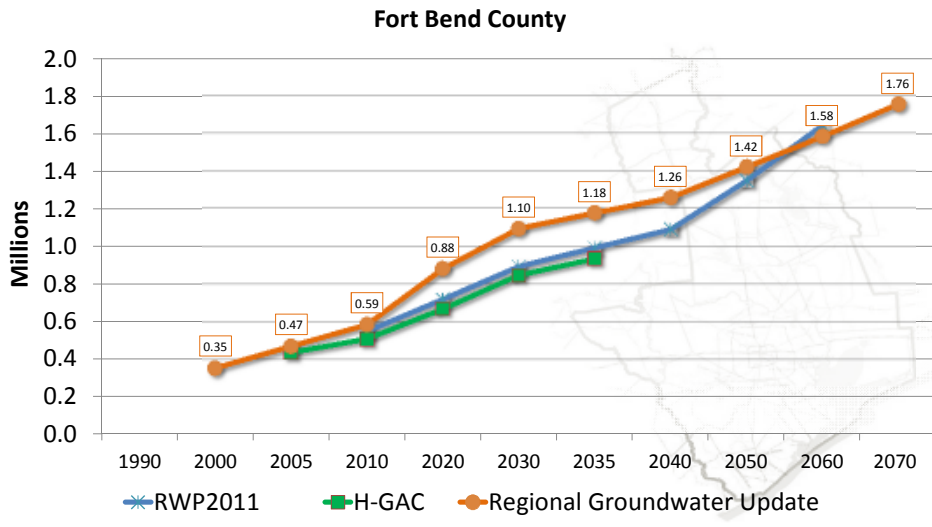
- Project conducted in an open and transparent process allowing for and achieving Stakeholder involvement
- Major GRP holders (Cities and Water Authorities) have been engaged during population projection development
- General agreement for population numbers has been established for Stakeholders



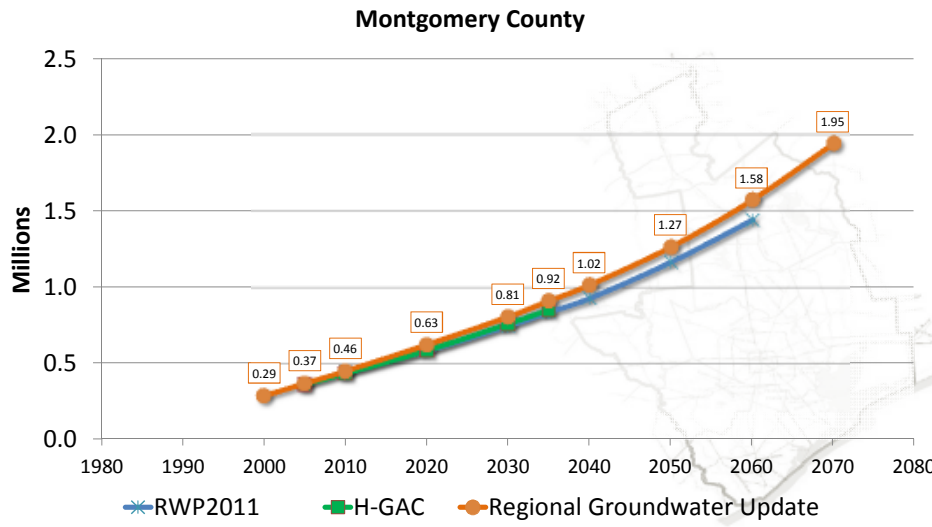
Regional Groundwater Update Project Harris County Projections



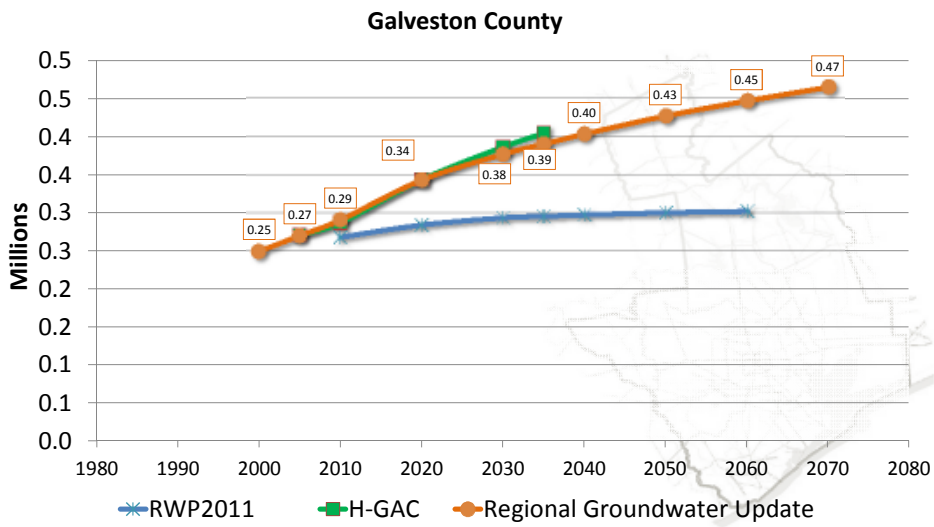
Regional Groundwater Update Project Fort Bend County Projections



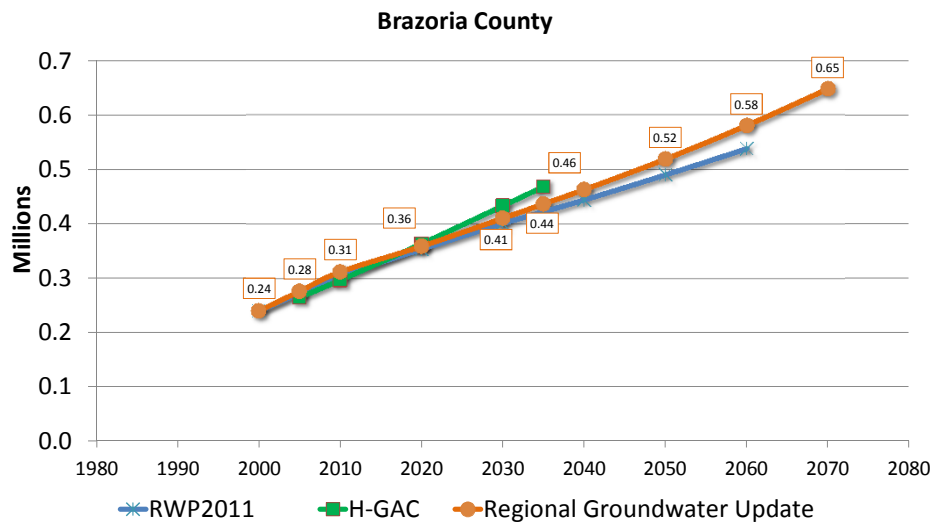
Regional Groundwater Update Project Montgomery County Projections



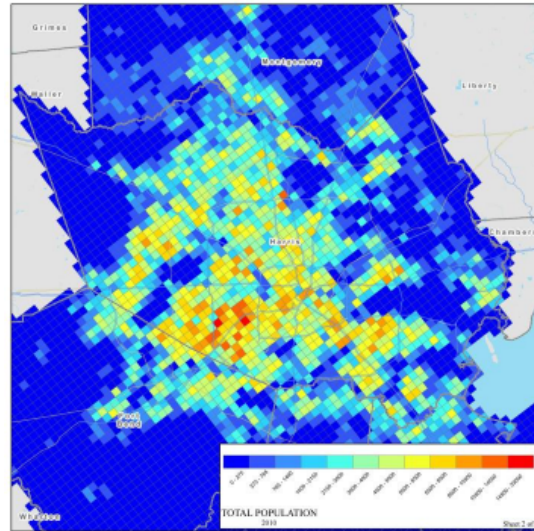
Regional Groundwater Update Project Galveston County Projections



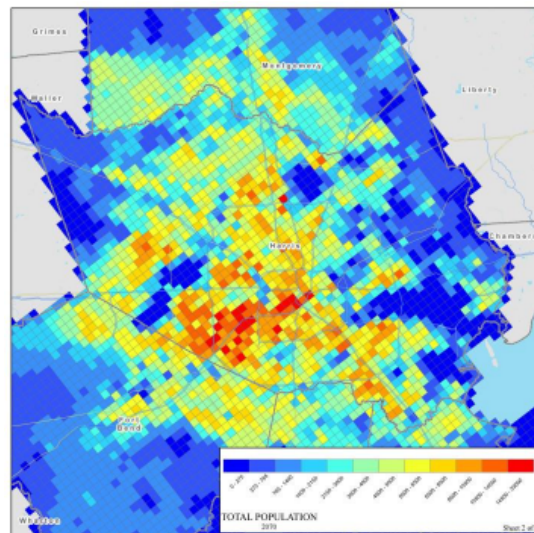
Regional Groundwater Update Project Brazoria County Projections



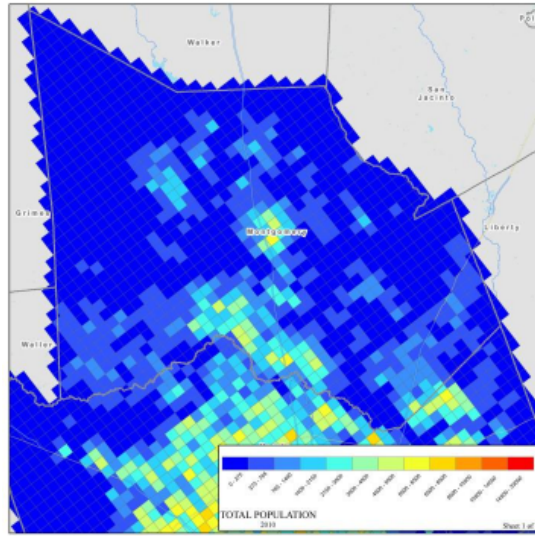
Harris County Population - 2010



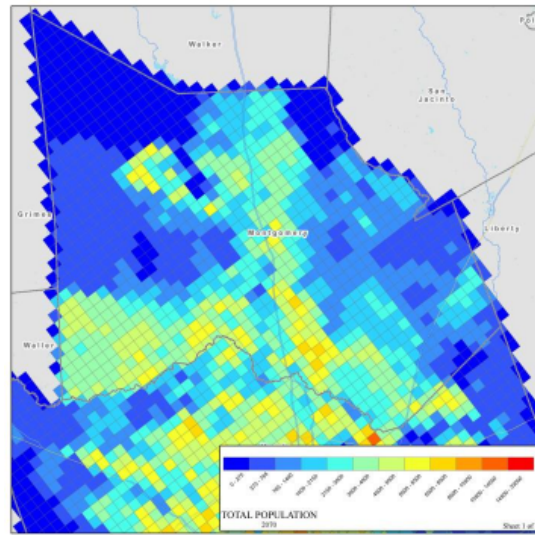
Harris County Population - 2070



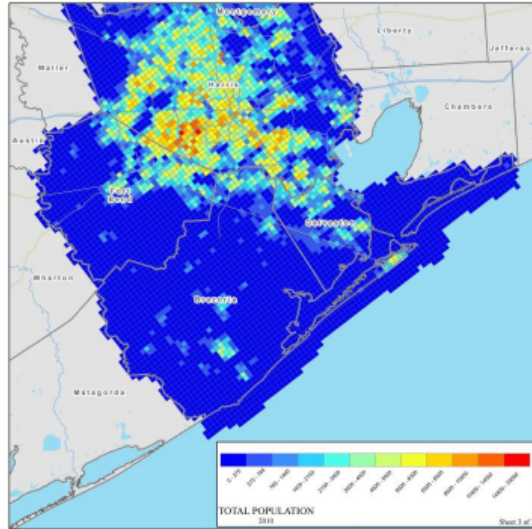
Montgomery County Population - 2010



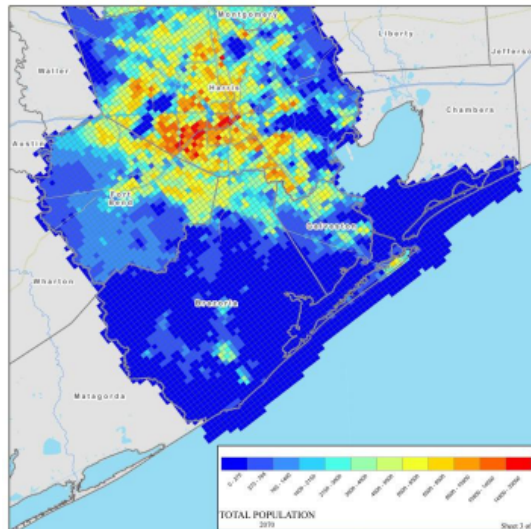
Montgomery County Population - 2070



Brazoria, Fort Bend, and Galveston County Population - 2010



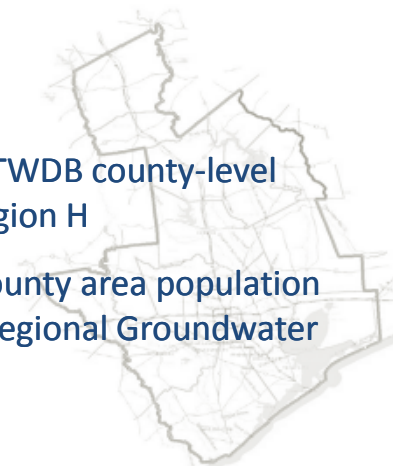
Brazoria, Fort Bend, and Galveston County Population - 2070



Population and Demand Projections Next Steps



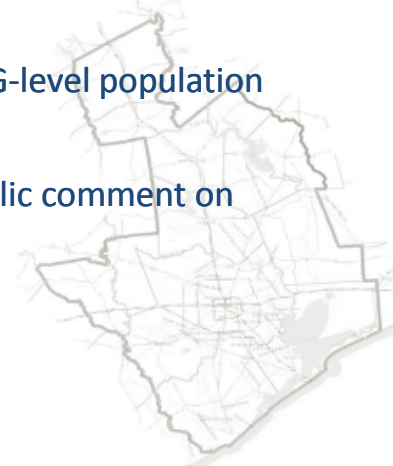
- WUG-level projections (5-county area)
 - Population
 - Per-capita and net demands
- State Data Center to provide TWDB county-level population projections for Region H
- TWDB expected to adopt 5-county area population projections developed from Regional Groundwater Update Project



Population and Demand Projections Next Steps



- Remaining county-level and WUG-level projections from TWDB
- Final consideration of all WUG-level population projections by RWPG
- Public meeting to receive public comment on population projections
- Submittal to TWDB
 - Adopted May/June 2013



Agenda Item 9

Receive report regarding recent and upcoming activities related to communications and outreach efforts on behalf of the Region H Planning Group.

Agenda Item 9
Community Outreach



- North Houston Association
June 28th
- Water Resource Stress
August 16th
- Water Efficiency Network
September 27th

