

DRAFT

MEETING SUMMARY

Industrial Advisory Committee Southwest Florida Water Management District November 7, 2017

The Industrial (IAC) Advisory Committee of the Southwest Florida Water Management District convened for a regular meeting at 10:00 a.m., November 7, 2017, at the Tampa Service Office, 7601 US Highway 301 North, Tampa, Florida.

IAC Committee Members Present

Chair Denise Corrales, CEMEX
Terry Eastley, Tampa Electric Company
Fred Crabill, Southeast Environmental Solutions
Subrata Bandy, Mosaic Fertilizer, LLC

Staff Members Present

Cara Martin, Facilitator
Jason Mickel
George Schlutermann
Jason Patterson
Jerry Mallams

Recording Secretary

Kelly Schweigel

Approved summaries from previous meetings can be found on the District's website WaterMatters.org.

The numbers preceding the items below correspond to the order of presentation.

1. Call to Order and Introductions

Chair Denise Corrales called the meeting to order. She asked for member introductions.

2. Additions and Deletions to the Agenda

Ms. Cara Martin, board and executive services manager, stated there were no changes to the agenda.

3. Approval of the February 7, 2017 Committee Meeting Summary

A motion was made for approval of February 7, 2017 minutes. The motion was seconded and passed unanimously.

4. Public Comments

No public comment was given.

5. Elections of Chair and Vice Chair

Ms. Martin declared the absence of a quorum noting that no voting can occur until a quorum is recognized.

6. Central Florida Water Initiative (CFWI) and Polk Regional Water Cooperative Update

Mr. Jason Mickel, manager, Water Supply, presented an update on the CFWI and Polk Regional Water Cooperative.

The CFWI is a collaborative effort between St. John's River, Southwest and South Florida Water Management Districts to protect and restore central Florida's water resources. The purpose of this Initiative is to remedy the forecasted issue of Florida's 250 million gallons of water per day deficit by 2025. The CFWI was established in November 2015 and is updated every five years.

CFWI updates from each of the five teams involved are listed below:

- The Regional Water Supply Plan team has been working to establish consistent methods between the water management districts.
- The Water Resource Assessment Team (WRAT) has updated the groundwater model which improves the accuracy of the impact analysis. WRAT is also working to identify and install monitoring points as well as building a monitoring database.
- The Regulatory Team is working to establish consistent rules and regulations within CFWI. FDEP posted a formal notice of the rule-making process in December 2016, and there have been four public workshops held this year.
- The Conservation Team has calculated conservation savings for public water supply and agriculture from 2010 and also completed an implementation strategy.
- The Communications Team publishes a monthly press release, has a water conservation video available on the CFWI website, and is planning workshops with stakeholders to address demand projection methodologies.

Regarding the Polk Regional Water Cooperative, Mr. Mickel pointed out that Polk County fits within the CFWI and has the same concerns with the need to develop alternative water supplies. Currently there are three alternative supply projects within this Cooperative: West Polk Deep Wellfield, Southeast Wellfield, and Peace Creek Integrated Water Supply. These projects, as well as three conservation projects, are undergoing the first of three phases, which includes the testing and initial design phase.

The committee asked how CFWI and Polk Regional Water Cooperative work together and whether they fall under CFWI rules. Mr. Mickel explained the links between the two are geography, addressing similar needs, and discussing water supply projects. The Polk Regional Water Cooperative was formed by the cities of Polk County to address the water supply concern governing the CFWI and they are utilizing CFWI resources.

Members asked if the District tracks their projections to compare with the actual findings. Mr. Mickel said the District has projections during the planning phase but also uses the estimated water use report as a resource.

7. Exploration of the Lower Aquifer in Polk County

Mr. George Schlutermann, senior hydrogeologist, Water Supply, spoke to the committee regarding the District's hydrogeological investigation to determine whether the Lower Floridan Aquifer has sufficient water supply. These tests are determined by examining the water quality variations at varying depths of the aquifer. This project ties in with the CFWI in allowing the use of the Lower Floridan Aquifer as an alternative water supply.

The exploration of current and future sites will allow the District to evaluate lower water as a resource. The process consists of three phases. The first phase is the initial drilling and testing, which includes the installation of new wells. The second phase is continued drilling and testing for positive signs for use. If favorable signs exist, the third phase is to develop the production wells.

Members asked how to age-date the water. Mr. Schlutermann explained the US Geological Survey testing is performed by analyzing the isotopes to determine the relative age of the water. Currently the water found in the lower Floridan appears to be twice the age of the upper water, which is roughly 10,000 years old.

Members asked if this project is more exploratory rather than production. Mr. Schlutermann explained the intention behind the investigation is to collect the data that the District, utilities and Polk Regional Water Cooperative will eventually use to issue permitting and to have management of the resource.

Members asked what level of conductivity we can handle in terms of treatment costs, feasibility, and disposal. Mr. Schlutermann suggested this would be determined by the utilities and by the Polk Regional Water Cooperative in the later phases.

8. Ridge Lakes Recovery Efforts

Mr. Jason Patterson, hydrogeologist, reviewed the District's goal to work cooperatively with stakeholders in identifying and evaluating potential projects to recover lake levels, as part of the SWUCA goal to restore minimum levels to priority lakes in the Ridge area.

A five-year assessment was initialized in 2015 and we will continue to monitor lake levels and develop lake specific recovery plans. The District plans to begin recovery efforts by 2025.

Mr. Patterson showed a chart that lists the types of projects in discussion, as well as the potential benefits and issues of each. These projects include: reduce or relocate groundwater withdrawals, recharge the upper Floridan aquifer, recharge the superficial aquifer, direct lake augmentation, source substitution, and deepen wells.

9. Hurricane Irma Update

Mr. Jerry Mallams, bureau chief, Operations, presented members with an overview of the impact of Hurricane Irma and how the District's Emergency Operations Center (EOC) responded. The state of Florida issued Executive Order 17-235 on September 4, 2017 which declared a state of emergency for every county. District Emergency Order SWF Order 17-042 was issued on September 6, 2017 which suspended certain rules and orders in order to assist in response activities. This order authorizes temporary field authorizations and delegation of executive director authority.

District responses included pre-storm preparedness and protective measures, such as exercise of water control structures and generators, topped off fuel tanks and installed storm shutters, as well as monitoring and control of structures and levels during the storm. After the storm, the District EOC conducted debris assessments and cleanup and repaired water control structures and date collection sites, as well as supported state and local governments.

Hurricane impacts included loss of power or control of water control structures, minor impacts to data collection sites, structural impacts on two conservation sites, two flood control structures impacted, one water conservation structure fire (due to lightning), roadway and structure flooding, debris obstructing waterways, and low dissolved oxygen resulting in fish kills.

Total financial impact was \$310,715, including staff costs reaching upwards of \$204,000. Debris assessments are still ongoing. Potential reimbursements include FEMA, for compensation time, vehicles and equipment, US Corps of Engineers, to assist with Tampa Bypass and Tsala Apopka Outfall Canals, and NCRS, to assist with debris removal from Peace Creek Canal, Flint Creek, Withlacoochee River, and the Upper Peace River.

Members asked how many inches of rain we can withstand in this watershed. Mr. Mallams explained the original design of the Tampa Bypass Canal, and its flood detention area, by the Army Corps of Engineers is made to withstand a 100-year event plus 25 percent.

10. Development of agenda topics for the next Industrial Advisory Committee meeting at 10:00 a.m. on Tuesday, February 6, 2018 in the District's Tampa Office.

Members requested an update on the Lower Floridan Aquifer. Members asked about the water status update usually presented by Lois Sorenson. Ms. Martin relayed Ms. Sorenson's report from October's Governing Board meeting that the Hurricane resulted in higher water levels regionwide, and levels have begun receding. Also, we are expecting it to be a warmer, dryer winter.

11. Announcements and Other Business - None

12. Adjournment

Meeting adjourned at 11:15 a.m.