

**MEETING OF THE GROUNDWATER QUALITY COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
4040 PARAMOUNT BOULEVARD, LAKEWOOD, CA 90712
8:30 A.M., TUESDAY, MARCH 14, 2017**

AGENDA

EACH ITEM ON THE AGENDA, NO MATTER HOW DESCRIBED, SHALL BE DEEMED TO INCLUDE ANY APPROPRIATE MOTION, WHETHER TO ADOPT A MINUTE MOTION, RESOLUTION, PAYMENT OF ANY BILL, APPROVAL OF ANY MATTER OR ACTION, OR ANY OTHER ACTION. ITEMS LISTED AS "FOR INFORMATION" MAY ALSO BE THE SUBJECT OF ANY "ACTION" TAKEN BY THE BOARD OR A COMMITTEE AT THE SAME MEETING.

- 1. DETERMINATION OF A QUORUM**
- 2. PUBLIC COMMENT**
Pursuant to Government Code Section 54954.3
- 3. APPROVAL OF MINUTES OF SPECIAL MEETING FEBRUARY 14, 2017**
Staff Recommendation: Approve as submitted.
- 4. SAFE DRINKING WATER PROGRAM - DISADVANTAGED COMMUNITIES
OUTREACH PILOT PROGRAM UPDATE**
Staff Recommendation: For discussion.
- 5. ENVIRONMENTAL SITES REVIEW**
Staff Recommendation: For information.
- 6. DIRECTORS REPORTS, INQUIRIES AND FOLLOW UP OF DIRECTIONS TO
STAFF**
- 7. ADJOURNMENT**
The Committee will adjourn to the next regular meeting currently scheduled for April 11, 2017 at 8:30 A.M.

Agenda posted by Sherri Brown, Senior Administrative Specialist on March 9, 2017. In compliance with ADA requirements, this document can be made available in alternative formats upon request.

In compliance with the Americans with Disabilities Act (ADA), if special assistance is needed to participate in the meeting, please contact Senior Administrative Specialist Sherri Brown at (562) 921-5521 for assistance to enable the District to make reasonable accommodations.

All public records relating to an agenda item on this agenda are available for public inspection at the time the record is distributed to all, or a majority of all, members of the Board. Such records shall be available at the District office located at 4040 Paramount Boulevard, Lakewood, California 90712.

Agendas and minutes are available at the District's website, www.wrd.org.

EXHAUSTION OF ADMINISTRATIVE REMEDIES – If you challenge a District action in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this notice, or in written correspondence delivered to the District office at, or prior to, the public hearing. Any written correspondence delivered to the District office before the District's final action on a matter will become a part of the administrative record.



MEMORANDUM

ITEM NO. 3

DATE: MARCH 14, 2017
TO: GROUNDWATER QUALITY COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: MINUTES OF FEBRUARY 14, 2017

**MINUTES OF FEBRUARY 14, 2017
MEETING OF THE GROUNDWATER QUALITY COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA**

A meeting of the Groundwater Quality Committee of the Board of Directors of the Water Replenishment District of Southern California was held on Tuesday, February 14, 2017 at 8:32 a.m., at the District Office, 4040 Paramount Boulevard, Lakewood, California 90712. Committee Chair John D. S. Allen called the meeting to order and presided thereafter. Senior Administrative Assistant Sherri Brown recorded the minutes.

1. DETERMINATION OF A QUORUM

A quorum was present, which included:

Committee: Committee Chair John D. S. Allen;
President Rob Katherman (by phone)

Staff: Ted Johnson; Charlene King; Brian Partington; Pete Brown

Public: Maria Kennedy – Kennedy Communications

2. PUBLIC COMMENT

Pursuant to Government Code Section 54954.3

None.

3. APPROVAL OF MINUTES OF SPECIAL MEETING JANUARY 31, 2017

The Committee unanimously approved the minutes as submitted.

**4. SAFE DRINKING WATER PROGRAM – DISADVANTAGED COMMUNITIES
OUTREACH PILOT PROGRAM UPDATE**

Associate Engineer Charlene King and Maria Kennedy of Kennedy Communications provided the update for the Safe Drinking Water Program. Ms.

King stated that Bell Gardens had two resolutions remaining to be adopted that were the final pieces of the application. Ms. Kennedy said the items were on the agenda last evening and were approved. Discussion followed.

Ms. King reported that the City of Compton's final piece which is the financial package is in development. Ms. Kennedy said that Michael Harvey who works in the Water Department was asked to complete the application; however, he stated that they have a financial analyst working on the financial package. Ms. Kennedy stated that she will follow up tomorrow.

Ms. King said the City of Huntington Park's application is being reviewed by the State. Discussion followed.

Ms. King stated that Maywood #2 had a design project meeting on February 1st. She said that Ms. Kennedy is also working on the construction application. Ms. Kennedy reported that the project is ahead of schedule on a lot of the components, and will meet the January 1, 2018 deadline that was set by AB240 for the Prop 84 funding.

Ms. King stated that Sativa is waiting for the State to review their application; and Lynwood's technical, environmental and financial packages are still in development. She said that Maywood #3 is working on the general application. She pointed out and explained the updated political chart within the staff report and noted the detail changes previously suggested by the Committee. Discussion followed.

The Committee requested that staff provide a more formal briefing on Inglewood's water quality at the next Groundwater Quality Committee meeting, one item particularly regarding Inglewood/Honeywell and a separate item providing an update on permitting of new wells #12 and #13 in Torrance.

5. ENVIRONMENTAL SITES REVIEW

Chief Hydrogeologist Ted Johnson notified the Committee that President Katherman had been contacted by James Allen, Publisher of Random Lengths News in San Pedro regarding a former industrial zinc plating facility in Long Beach. He said this site is vacant and had previously been remediated by the Environmental Protection Agency and is now undergoing some clean-up by the Department of Toxic Substances Control (DTSC). He stated that it is not on WRD's active list of sites; however, at the request of the DTSC, WRD is reviewing the site and will provide some comments to the DTSC's plan for residual clean-up. Discussion followed.

Hydrogeologist Brian Partington reported that he is in the process of reviewing the corrective measures study for the site. He said the site had operated as various operations, including paint and plastic manufacturing, as part of a military site and an unlicensed landfill with remnant issues. He stated that it is on the radar because the site went bankrupt and the previous tenant of the plating operation left all of their property behind, until the EPA launched an emergency action to clean up the site and excavated all of the metals that were left behind; then, the DTSC took over

early 2000s to remediate the surface contaminates. He said that some impacts are still left in place.

Mr. Partington stated that in reviewing the data, he discovered there is a lot of petroleum contamination beneath the site and mobile non-aqueous phase liquid. He is also tracking a nearby site that may have a tie-in. Discussion followed.

The Committee requested that staff research and verify to be certain that this is actually within the City of Long Beach. Discussion followed.

6. DIRECTORS REPORTS, INQUIRIES, AND FOLLOW-UP OF DIRECTIONS TO STAFF

President Katherman reported that he recently attended the Well and Urban Water Conferences. He said the subjects were “Stormwater Capture” and “Direct Potable Reuse,” and asked staff how to start testing alternative methods of advanced treating of tertiary water for injection into the groundwater as opposed to using reverse osmosis membranes, and if there are any studies being conducted currently. Discussion followed.

Mr. Johnson stated that these test programs can be set up and performed in the state of California, usually in a lab. The Committee requested that at the next Groundwater Quality Committee meeting, staff provide the scope and cost to have research done by the Colorado School of Mines, University of Arizona, or others to evaluate a program to evaluate alternative treatment options for both tertiary water and advanced treated recycled water to provide the same level of safety but reducing cost or underground travel time.

Manager of Communication and Education Services Pete Brown reported that he is meeting with City, State and legislative staff and officials on an ongoing basis to keep them informed of WRD projects and events, and create opportunities to present at City Council meetings on behalf of the pumpers. He stated that staff is also planning a legislative recognition the second week of March during Groundwater Awareness Week. Discussion followed.

Mr. Brown said WRD is planning to hold another Water 101 Workshop around July this year He reported that another workshop is being planned which will target municipal employees, in conjunction with the California Contract Cities in April for city staff.

7. ADJOURNMENT

There being no further business to come before the Committee, the meeting was adjourned at 9:25 A.M.

Chair

ATTEST:

Member

Approved in minutes of:



MEMORANDUM

ITEM NO. 4

DATE: MARCH 14, 2017

TO: GROUNDWATER QUALITY COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

**SUBJECT: SAFE DRINKING WATER PROGRAM - DISADVANTAGED COMMUNITIES
OUTREACH PILOT PROGRAM UPDATE**

SUMMARY

The District administers the Safe Drinking Water Program (SDWP), providing grant or loan assistance to basin pumpers for wellhead treatment to remove contaminants and improve water quality. The Grant Program provides treatment for removing groundwater contaminants from man-made sources (e.g. Volatile Organic Compounds); whereas the Loan Program provides 10-year, zero-interest loans for water treatment, removing unacceptable levels of contaminants from natural sources (e.g. iron, manganese, and arsenic).

In 2016, the District approved three wellhead treatment projects through the Safe Drinking Water Program: California American Water Arlington Well, Huntington Park Well 15, and Lynwood Well 11. The wellhead treatment system at all three wells will consist of a complete granular activated filtration system built within the boundaries of the existing well sites owned and operated by the water systems. In addition, as part of Assembly Bill No. 240, the District was designated to manage and implement a water quality improvement project in the City of Maywood. The appropriated funds were assigned to the Maywood Avenue Wellhead treatment project for iron and manganese removal.

Safe Drinking Water Pilot Program

As an extension of the District's Safe Drinking Water Program, the District approved the creation of the Safe Drinking Water Disadvantage Communities (DAC) Pilot Program. The goal of this program is to assist water systems located in disadvantaged communities within the District's service area with state and federal funding to address the issues related to their drinking water wells. The focus of the program is to provide technical assistance and extensive outreach to help the systems secure funding that is set aside specifically for disadvantaged communities. Currently there are seven water systems participating in the program and receiving assistance: City of Bell Gardens, City of Compton, City of Huntington Park and City of Lynwood, Maywood Mutual Water Company No. 2, Maywood Mutual Water Company No. 3 and Sativa LA County Water District.

Safe Drinking Water Program Outreach Efforts

Outreach efforts continue as staff is preparing follow-up outreach to cities, particularly disadvantaged communities, to schedule presentations for upcoming city council meetings to further explain WRD's programs.

FISCAL IMPACT

None.

STAFF RECOMMENDATION

For discussion.



MEMORANDUM

ITEM NO. 5

DATE: MARCH 14, 2017

TO: GROUNDWATER QUALITY COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: ENVIRONMENTAL SITES REVIEW

BACKGROUND

WRD has and continues to take an active role in groundwater quality protection, cleanup, and investigation. As part of its Groundwater Contamination Prevention Program, WRD established the Central and West Coast Basin Groundwater Contamination Forum, a data-sharing and discussion forum with key stakeholders that include various cities, water purveyors, the United States Environmental Protection Agency (EPA), California Department of Toxic Substances Control (DTSC), Los Angeles Regional Water Quality Control Board (RWQCB), State Water Resources Control Board Division of Drinking Water (DDW), United States Geological Survey (USGS), and California Department of Water Resources (DWR).

In 2005, the stakeholders drafted and signed a Memorandum of Understanding ("MOU") agreeing to meet regularly and share data on major groundwater contaminated sites within the Central Basin and West Coast Basin. WRD acts as the meeting coordinator and data repository/distributor, helping stakeholders to characterize the extent of contamination to identify pathways for contaminants in shallow aquifers to reach deeper drinking water aquifers and develop optimal methods for remediating contaminated groundwater. The overall purpose of the Forum is to expedite the cleanup of these major contaminated sites in the basins.

With the cooperation and support of all stakeholders in the Groundwater Contamination Forum, WRD developed a list of high-priority groundwater contaminated sites ("environmental sites") located within the District. This list is a living document, subject to cleanup and "closure" of sites, as well as discovery of new sites warranting further attention. Currently, the list includes 48 sites located throughout the Central Basin and West Coast Basin. The list was developed based on the following criteria:

- Site location and hydrogeology
- Distance to nearest drinking water well
- Depth to shallowest water-supply aquifer beneath site
- Concentration of detected contaminants
- Fate and transport of detected contaminants
- Presence of contamination in nearby drinking water wells
- Status of site characterization with respect to groundwater contamination
- Status of site remediation with respect to groundwater contamination
- Stage of regulatory agency involvement

WRD works in close consultation with the lead regulatory agencies for each of these sites to provide data and technical support to facilitate site characterization and expedite cleanup. An

update is provided below for Honeywell Sepulveda #2 (Los Angeles) and Honeywell Site A (Torrance). Both sites are located in the West Coast Basin.

HONEYWELL SEPULVEDA #2, LOS ANGELES (WEST COAST BASIN)

The 20-acre facility (Site) formerly operated as an aerospace manufacturing plant from 1941 to 1988. The facility infrastructure was removed and the site was redeveloped as an asphalt covered commercial parking lot operated by Park’N’Fly (formerly ParkOne). The site is located directly adjacent to the northeast portion of Los Angeles International Airport (LAX).

Chemicals were primarily stored in drums, containers, and USTs. Soil and groundwater are impacted with various chlorinated solvents (i.e., TCE, 1,1,1-trichloroethane [1,1,1-TCA], and 1,1-dichloroethene [1,1-DCE]) and a semi-volatile constituent 1,4-Dioxane. Environmental related work is overseen by RWQCB.

Groundwater impacts (based on the existing monitoring well network) are present to a depth of approximately 120 ft bgs. The groundwater plume extends beyond the property line in an easterly direction and has not been fully delineated based on recent agency correspondence letter dated September 2, 2016. The 1,4-Dioxane and 1,1-DCE groundwater results from a recent off-site plume investigation appear to suggest the groundwater plume extends beyond the property line at least 1-mile (just past Aviation Blvd.). The nearest active production well is owned and operated by City of Inglewood (Well #6), located approximately 3.15 miles east-southeast of the Site. Site constituents have not been detected in Well #6. The most recent readily available groundwater sampling results are summarized below for July 2016.

Key Indicator Compounds in Groundwater*			
Chemical	MCL	Maximum Concentration (Perched Zone)	Maximum Concentration (Gage Aquifer)
TCE	5	19 in PMW-6	120 in MW-208S
1,1,1-TCA	200	ND	9,200 in MW-208S
1,1-DCE	6	1500 in PMW-1	5,100 in MW-208S
1,4-Dioxane	0.5	170 in PMW-11	13,000 in MW-207D

*Results in µg/L / ND = Not Detected

Soil remediation activities commenced in 1990. Impacted soils were either excavated or treated in-situ using SVE. SVE operations site-wide have removed approximately 297,700 pounds of VOCs (as of December 2016). Honeywell recently completed a pilot study for selecting an interim groundwater remedy and the results are currently being reviewed by the RWQCB.

HONEYWELL SITE A (CITY OF TORRANCE, WEST COAST BASIN)

The Site encompasses an area of approximately 84 acres. Honeywell divested the southern portion of the property (redeveloped into several office buildings), but continues to operate a manufacturing facility for the aerospace industry (occupying ~51 acres). Environmental investigations have identified soil impacts in four main areas including (1) a former clarifier outside southeast corner of Building 1/5, (2) a former waste storage area east of Building 1/5, (3) the northwest portion of the property just north/east of Building 35, and (4) a storage tank and conveyance piping containing 1,1,1-TCA [northeast corner of Building 1/5]. Main constituents include PCE, TCE, 1,1-DCA, 1,1-DCE, 1,1,1-TCA, and 1,4-Dioxane. Groundwater impacts are present throughout much of the eastern portion of the property and down-gradient beneath an adjacent residential neighborhood in the upper two water bearing units to 70 feet. Subsurface investigations have been conducted since early 2000.

The most recent readily available groundwater analytical results are summarized as follows:

Key Indicator Compounds in Groundwater (Results shown for October 2016)				
Chemical	MCL	A Zone Sand (~35 to 55')	B Zone Sand (~70')	C Zone Sand / Gage-Gardena Aquifer (~115')
PCE	5	2,000 (MW-10A)	790* (MW-22B)	ND or below MCL
TCE	5	1,700 (MW-9A)	900* (MW-22B)	ND or below MCL
1,1,1-TCA	200	640 (MW-5A)	1,200 (MW-5B)	ND or below MCL
1,1-DCA	5	150 (MW-9A)	330 (MW-9B)	ND or below MCL
1,1-DCE	6	3,400 (MW-5A & MW-9A)	15,000 (MW-18B)	ND or below MCL
1,4-Dioxane	10	3,200 (MW-5A)	12,000 (MW-9B)	ND or below MCL

TCE = Trichloroethene / PCE = Tetrachloroethene / DCA = Dichloroethane / DCE = Dichloroethene / TCA = Trichloroethane / ND = Not Detected
LNAPL present in three wells with apparent maximum thickness of 3.99 ft (MW-13A). * = Results from April 2016.

Pilot testing has been performed to evaluate soil / groundwater remediation options for the Site. Honeywell is currently evaluating vapor extraction for soil impacts and an interim hydraulic containment option for groundwater, which would be installed along the down-gradient eastern property boundary of the Site. The treated water would be discharged via injection wells to the upper most regional aquifer, the merged Gage-Gardena. Groundwater delineation is on-going based on a recent directive issued by the RWQCB.

The potential migration of site related groundwater impacts was also evaluated for two nearby water supply wells being proposed by the City of Torrance (COT). Honeywell's evaluation was performed using a site specific particle tracking groundwater model with results currently being reviewed the RWQCB. The model indicates groundwater related constituents will be captured by the interim hydraulic containment system and will not impact the pumping operations being proposed by the COT. A permit to proceed with the water supply well project recently received preliminary approval from the State Water Resources Control Board (SWRCB), Division of Drinking Water (DDW).

FISCAL IMPACT

None.

STAFF RECOMMENDATION

For information.