

City of Huntington Beach

Amendments to 2015 Urban Water Management Plan

January 2018



City of Huntington Beach

Amendments to 2015 Urban Water Management Plan (UWMP)

Contents

Revisions to Section 3.3.1 – States that the basin is not adjudicated to address CWC 10631 (b) (2).

Revisions to Section 3.3.3 – States that the Alamitos barrier is outside of the City's service area.

Revisions to Section 5.2.3 Table 5-1 – Provides an outline of specific water supply conditions applicable to each stage of water supply reduction as well as assigning percent reduction in water supply to each stage up to a 50 percent reduction to address CWC 10632 (a).

Revisions to Section 5.5.3 Table 5-4 – Includes consumption reduction methods to address CWC 10632 (a) (5) and provide context for the stages for water supply reduction.

Revisions to DWR Table 6-4 and Table 6-5 – Includes recycled water used at the Talbert Barriers and the portion of water that will be captured through the OCWD Phase III expansion to address CWC 10633 (a)(b).

Revisions to Section DWR Table 6-5 – Includes the amount from Barriers in 2010 to address CWC 10633 (a)(b).

Revisions to Section 6.2 and DWR Table 6.3 – Clarifies the agency coordination with OCSD and that wastewater is treated within the service area. Specifies the volume of wastewater collected in the service area to address CWC 10633 (a)(b).

Addition of Section 8.4 – Provides an outline of the steps the City is taking to adopt the Amended UWMP including publicizing a public hearing, holding a public hearing, adopting the UWMP, and submitting the UWMP to the appropriate agencies.

Appendices

Appendix B – Update DWR standardized tables 6-2, 6-3, 6-4, 6-5, 8-1, and 8-3.

Addition of Appendix E-1 – Public Hearing Notice for Amended UWMP.

Addition of Appendix F-1 – Resolution of the Amended UWMP adoption (Pending City Council Approval).

**Revisions to
Main UWMP Document**

3.3.1 Basin Characteristics

The OC Basin underlies the northerly half of Orange County beneath broad lowlands. The OC Basin is not an adjudicated basin and is managed by OCWD. It covers an area of approximately 350 square miles, bordered by the Coyote and Chino Hills to the north, the Santa Ana Mountains to the northeast, and the Pacific Ocean to the southwest. The OC Basin boundary extends to the Orange County-Los Angeles Line to the northwest, where groundwater flows across the county line into the Central Groundwater Basin of Los Angeles County. The total thickness of sedimentary rocks in the OC Basin is over 20,000 feet, with only the upper 2,000 to 4,000 feet containing fresh water. The Pleistocene or younger aquifers comprising this Basin are over 2,000 feet deep and form a complex series of interconnected sand and gravel deposits. The OC Basin's full volume is approximately 66 MAF.

3.3.3 Groundwater Recharge Facilities

Recharging water into the OC Basin through natural and artificial means is essential to support pumping from the OC Basin. Active recharge of groundwater began in 1949, in response to increasing drawdown of the OC Basin and consequently the threat of seawater intrusion. The OC Basin's primary source of recharge is flow from the Santa Ana River, which is diverted into recharge basins and its main Orange County tributary, Santiago Creek. Other sources of recharge water include natural infiltration and recycled water. Today OCWD owns and operates a network of recharge facilities that cover 1,067 acres. An increase in recharge capacity of greater than 10,000 AFY occurred with the addition of the La Jolla Recharge Basin which came online in 2008. The La Jolla Recharge Basin is a 6-acre recharge basin.

One of OCWD's primary efforts has been the control of seawater intrusion into the OC Basin, especially via the Talbert and Alamitos seawater intrusion barriers. The Talbert and Alamitos seawater intrusion barriers are shown on Figure 3-3. Some of the injection wells from the Talbert intrusion barrier are located within the City's service area, however, the Alamitos barrier is outside of the City's service area.

5.2.4 City of Huntington Beach

As defined in Chapter 14.18 of the City's Municipal Water Code, a water shortage is declared based on one or more of the following conditions:

- A general water supply shortage due to increased demand or limited supplies
- A major failure of the supply, storage, and distribution facilities of Metropolitan or of the City
- A local or regional disaster, which limits the water supply

The City's Water Management Program is defined in Chapter 14.18 of the Huntington Beach Municipal Code. This program establishes a staged water conservation program that will encourage reduced water consumption within the City through conservation, enable effective water supply planning, assure reasonable and beneficial use of water, prevent waste of water, and maximize the efficient use of water within the City. Along with permanent water conservation requirements, the City's Water Conservation Program consists of three stages to respond to a reduction in potable water available to the City for distribution to its customers. For the first two stages, the City Council determines, in its sole discretion, that due to drought or other water supply conditions, a water supply shortage or threatened shortage exists and a consumer demand reduction is necessary to make more efficient use of water and appropriately respond to existing water conditions. The third stage is declared by the City Council as a water shortage emergency and residents and businesses are notified that a significant reduction in consumer demand is necessary to maintain sufficient water suppliers for public health and safety. A

summary of the stages of water shortage is displayed in Table 5-1 (Huntington Beach, Chapter 14.18 Municipal Code).

Conditions prevailing in the City area require that available water resources be put to maximum beneficial use to the extent possible. The waste, unreasonable use, or unreasonable method of use of water should be prevented and water conservation and water use efficiency should be encouraged with a view toward maximizing reasonable and beneficial use in the interests of the people of the City and for the public welfare. Preservation of health and safety is a top priority for the City.

Table 5-1: Stages of Water Shortage Contingency Plan

Retail Stages of Water Shortage Contingency Plan		
Stage	Complete Both	
	Percent Supply Reduction ¹	Water Supply Condition
1	Up to 10%	The City may determine that a "mild" water supply shortage or threatened shortage exists and consumer demand reduction necessary to respond to existing water conditions on a voluntary basis.
2	Up to 20%	The City may determine that a "moderate" water supply shortage or threatened shortage exists and consumer demand reduction necessary to existing water conditions including limiting days of irrigation on a mandatory basis.
3	Up to 50%	An "Emergency" condition. Exists when the City declares a water shortage emergency and notifies its residents and businesses that significant reduction in consumer demand is necessary to maintain water supplies for public health, safety, and welfare.
¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.		
NOTES:		

5.5.3 Consumption Reduction Methods

Table 5-4 lists the consumption reduction methods that will be used to reduce water use in restrictive stages.

Table 5-4: Stages of Water Shortage Contingency Plan - Consumption Reduction Methods

Retail Only: Stages of Water Shortage Contingency Plan - Consumption Reduction Methods		
Stage	Consumption Reduction Methods by Water Supplier	Additional Explanation or Reference
All	Offer Water Use Surveys	Program administered by MWDOC
All	Provide Rebates on Plumbing Fixtures and Devices	Program administered by MWDOC offers rebates to CII and residential customers on devices such as laminar flow restrictors, dry vacuum pumps, premium high efficiency toilets.
All	Provide Rebates for Landscape Irrigation Efficiency	Program administered by MWDOC offers rebates to CII and residential customers on devices such as spray nozzles, drip irrigation, smart irrigation timers, soil moisture sensor, in-stem flow regulator.
All	Provide Rebates for Turf Replacement	Program administered by MWDOC offers turf removal rebates to CII and residential customers.
3	Moratorium or Net Zero Demand Increase on New Connections	The city will limit or withhold issuance of building permits which require new or expanded water service
3	Moratorium or Net Zero Demand Increase on New Connections	No new potable water service will be provided except under special circumstances by the City
3	Moratorium or Net Zero Demand Increase on New Connections	The City will suspend consideration of annexations to its service area
NOTES:		

6.2 Wastewater Description and Disposal

The City operates and maintains the local sewer collection pipes that feed into the OCSD's trunk sewer system to convey wastewater to OCSD's Plant No. 2. OCSD is responsible for the treatment and disposal of all the City's wastewater. The City's sewer system includes 360 miles of sewer lines ranging from 6 inches to 30 inches in diameter, 10,000 manholes and 27 lift stations. OCSD has an extensive system of gravity flow sewers, pump stations, and pressurized sewers. OCSD Plant No. 2 has a capacity of 312 MGD with a 120-inch diameter ocean outfall that extends 4 miles off the coast of the City. There is also a 78-inch diameter emergency outfall that extends 1.3 miles off the coast.

Residential homes northwest of Sunset Beach, in the area known as Surfside, have sewer flow that goes to the Sunset Beach Sanitary District, which eventually connects into the City's sewer collection system. The Sunset Aquatic Marina also sends its sewer flow to the City's sewer collection system. Lastly, a property at the northeast corner of Beach Boulevard and Edinger Avenue is within the City of Westminster, but their sewage also goes to the City.

Table 6-1 summarizes the wastewater collected by the City and transported to OCSD's Plant No. 2 in 2015.

Table 6-1: Wastewater Collected Within Service Area in 2015 (AF)

Retail: Wastewater Collected Within Service Area in 2015					
Wastewater Collection			Recipient of Collected Wastewater		
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated?	Volume of Wastewater Collected in 2015	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area?
City of Huntington Beach	Estimated	18,197	OCSD	Plant No. 2	Yes
Total Wastewater Collected from Service Area in 2015:		18,197			
NOTES: Estimated at 65% of 2015 potable water consumption. This includes the wastewater from Surfside, Sunset Aquatic Marina, and City of Westminster.					

8.4 UWMP Amendment Process

8.4.1 Resubmitting UWMP

The City is required by DWR to resubmit the 2015 UWMP Amendments to address certain sections of the California Water Code that were not covered by the original plan. After making edits to the UWMP, the City will go through the adoption process once more. Table 8-3 presents a summary of the steps by the City to adopt the 2015 UWMP Amendments.

Table 8-3: External Coordination and Outreach for Resubmitting UWMP

External Coordination and Outreach	Date	Reference
Public notification	01/18/18 01/25/18	Appendix E-1
Held public hearing	TBD	Appendix E-1
Adopted UWMP Amendment	TBD	Appendix F-1
Submitted UWMP to DWR	TBD	-
Submitted UWMP to the California State Library and city or county within the supplier's service area	TBD	-
Made UWMP available for public review	TBD	-

The City will publish a public hearing notification in the local newspaper for the UWMP Amendments which can be viewed in Appendix E-1. Subsequent to public notifications, the general public will have opportunities to review the amendments. At the public hearing, the City Council will review and approve the 2015 UWMP Amendments. Appendix F-1 includes the resolution to approve the 2015 UWMP Amendments. The City will submit the 2015 UWMP Amendments to DWR, California State Library, and County of Orange. The 2015 UWMP Amendments will be available for public review no later than 30 days after filing with DWR.

Revisions to Appendix B DWR Standardized Tables

Table 6-2 Retail: Wastewater Collected Within Service Area in 2015

There is no wastewater collection system. The supplier will not complete the table below.						
Percentage of 2015 service area covered by wastewater collection system <i>(optional)</i>						
Percentage of 2015 service area population covered by wastewater collection system <i>(optional)</i>						
Wastewater Collection			Recipient of Collected Wastewater			
Name of Wastewater Collection Agency	Wastewater Volume Metered or Estimated? <i>Drop Down List</i>	Volume of Wastewater Collected in 2015	Name of Wastewater Treatment Agency Receiving Collected Wastewater	Treatment Plant Name	Is WWTP Located Within UWMP Area? <i>Drop Down List</i>	Is WWTP Operation Contracted to a Third Party? <i>(optional)</i> <i>Drop Down List</i>
City of Huntington Beach	Estimated	18,197	OCSD	Plant No. 2	Yes	
Total Wastewater Collected from Service Area in 2015:		18,197				
NOTES: Estimated at 65% of 2015 potable water consumption. This includes the wastewater from Surfside, Sunset Aquatic Marina, and City of Westminster.						

Table 6-3 Retail: Wastewater Treatment and Discharge Within Service Area in 2015

<input type="checkbox"/> No wastewater is treated or disposed of within the UWMP service area. The supplier will not complete the table below.										
Wastewater Treatment Plant Name	Discharge Location Name or Identifier	Discharge Location Description	Wastewater Discharge ID Number (optional)	Method of Disposal <i>Drop down list</i>	Does This Plant Treat Wastewater Generated Outside the Service Area?	Treatment Level <i>Drop down list</i>	2015 volumes			
							Wastewater Treated	Discharged Treated Wastewater	Recycled Within Service Area	Recycled Outside of Service Area
<i>Add additional rows as needed</i>										
OCSD Plant No. 2	Ocean		Ocean Outfall		Yes	Secondary, Disinfected - 2.2	75,000	75,000	0	0
Total							75,000	75,000	0	0
NOTES: All treated wastewater from Plant No. 2 discharges to the ocean (OCSD, Design Consultant Open House Presentation,2016 https://www.ocsd.com/Home/ShowDocument?id=18737)										

Table 6-4 Retail: Current and Projected Recycled Water Direct Beneficial Uses Within Service Area

<input type="checkbox"/>		Recycled water is not used and is not planned for use within the service area of the supplier. The supplier will not complete the table below.						
Name of Agency Producing (Treating) the Recycled Water:		OCSD and OCWD						
Name of Agency Operating the Recycled Water Distribution System:		OCWD						
Supplemental Water Added in 2015		N/A						
Source of 2015 Supplemental Water		N/A						
Beneficial Use Type <i>These are the only Use Types that will be recognized by the DWR online submittal tool</i>	General Description of 2015 Uses	Level of Treatment <i>Drop down list</i>	2015	2020	2025	2030	2035	2040 (opt)
Agricultural irrigation								
Landscape irrigation (excludes golf courses)								
Golf course irrigation								
Commercial use								
Industrial use								
Geothermal and other energy production								
Seawater intrusion barrier	Talbert Barrier	Advanced	8,061	8,061	9,080	9,080	9,080	9,080
Recreational impoundment								
Wetlands or wildlife habitat								
Groundwater recharge (IPR)								
Surface water augmentation (IPR)								

Table 6-4 Retail: Current and Projected Recycled Water Direct Beneficial Uses Within Service Area

<input type="checkbox"/>		Recycled water is not used and is not planned for use within the service area of the supplier. The supplier will not complete the table below.						
Name of Agency Producing (Treating) the Recycled Water:		OCSD and OCWD						
Name of Agency Operating the Recycled Water Distribution System:		OCWD						
Supplemental Water Added in 2015		N/A						
Source of 2015 Supplemental Water		N/A						
Beneficial Use Type <i>These are the only Use Types that will be recognized by the DWR online submittal tool</i>	General Description of 2015 Uses	Level of Treatment <i>Drop down list</i>	2015	2020	2025	2030	2035	2040 (opt)
Direct potable reuse								
Other	Type of Use							
			Total:	8,061	8,061	9,080	9,080	9,080
<i>IPR - Indirect Potable Reuse</i>								
<p>NOTES: Talbert Barrier - In 2015, a total volume of approximately 36,275 AF from Orange County Water District's Groundwater Replenishment System (GWRS) is used for the Talbert Barrier injection to prevent seawater intrusion (OCWD 2015 Groundwater Management Plan). We assumed 22 percent of the injected water is through injection wells located within the City of Huntington Beach boundary (8 of 36 injections wells lie within Huntington Beach). In 2025 GWRS Phase III expansion is projected to add 33,600 AFY (OCWD 2015 Groundwater Management Plan). Since 35 percent of GWRS water is currently used for seawater intrusion, the same percentage is assumed for Phase III. Talbert Barrier represents 39 percent of all seawater intrusion barrier water (OCWD 2015 Groundwater Management Plan).</p> <p>Assumes amount used in 2020 equals 2015 (prior to Phase III expansion in 2025). Assumes amount used in 2025 will equal 2030, 2035, and 2040 per Phase III expansion.</p>								

Table 6-5 Retail: 2010 UWMP Recycled Water Use Projection Compared to 2015 Actual

<input type="checkbox"/>		Recycled water was not used in 2010 nor projected for use in 2015. The supplier will not complete the table below.	
Use Type <i>These are the only Use Types that will be recognized by the WUEdata online submittal tool</i>		2010 Projection for 2015	2015 actual use
Agricultural irrigation			
Landscape irrigation (excludes golf courses)			
Golf course irrigation			
Commercial use			
Industrial use			
Geothermal and other energy production			
Seawater intrusion barrier		Data not available	8,061
Recreational impoundment			
Wetlands or wildlife habitat			
Groundwater recharge (IPR)			
Surface water augmentation (IPR)			
Direct potable reuse			
Other	Required for this use		
Total			8,061
NOTES: See Table 6-4			

**Table 8-1 Retail:
Stages of Water Shortage Contingency Plan**

Stage	Complete Both	
	Percent Supply Reduction ¹	Water Supply Condition
1	Up to 10%	The City may determine that a "mild" water supply shortage or threatened shortage exists and consumer demand reduction necessary to respond to existing water conditions on a voluntary basis.
2	Up to 20%	The City may determine that a "moderate" water supply shortage or threatened shortage exists and consumer demand reduction necessary to existing water conditions including limiting days of irrigation on a mandatory basis.
3	Up to 50%	An "Emergency" condition. Exists when the City declares a water shortage emergency and notifies its residents and businesses that significant reduction in consumer demand is necessary to maintain water supplies for public health, safety, and welfare
¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.		
NOTES:		

**Table 8-3 Retail Only:
Stages of Water Shortage Contingency Plan - Consumption Reduction Methods**

Stage	Consumption Reduction Methods by Water Supplier	Additional Explanation or Reference
All	Offer Water Use Surveys	The City provides public education by contracting with MWDOC through the Choice Program. The program includes a public website, school programs, water news in the local newspaper, quarterly Water Policy Dinners, annual Water summit, and tours of water facilities.
All	Provide Rebates on Plumbing Fixtures and Devices	The City offers rebates to CII and residential customers (by contracting with MWDOC through its Choice Program) on devices such as laminar flow restrictors, dry vacuum pumps, premium high efficiency toilets.
All	Provide Rebates for Landscape Irrigation Efficiency	The City offers rebates to CII and residential customers (by contracting with MWDOC through the Choice Program) on devices such as spray nozzles, drip irrigation, smart irrigation timers, soil moisture sensor, in-stem flow regulator.
All	Provide Rebates for Turf Replacement	The City provides public education by contracting with MWDOC through the Choice Program. The program includes a public website, school programs, water news in the local newspaper, quarterly Water Policy Dinners, annual Water summit, and tours of water facilities.
3	Moratorium or Net Zero Demand Increase on New Connections	The city will limit or withhold issuance of building permits which require new or expanded water service
3	Moratorium or Net Zero Demand Increase on New Connections	No new potable water service will be provided except under special circumstances by the City

**Table 8-3 Retail Only:
Stages of Water Shortage Contingency Plan - Consumption Reduction Methods**

Stage	Consumption Reduction Methods by Water Supplier	Additional Explanation or Reference
3	Moratorium or Net Zero Demand Increase on New Connections	The City will suspend consideration of annexations to its service area
NOTES:		

Revisions to Appendix E-1
Public Hearing Notice for Amended UWMP

City of Huntington Beach – Notice of Public Hearing on Consideration to Adopt Amendments to the 2015 Urban Water Management Plan

Notice is hereby given that a public hearing for considering the adoption of the amendments to the City's adopted 2015 Urban Water Management Plan (Plan) will be held by the City Council of the City of Huntington Beach at the February 5th City Council meeting in the Council Chambers of the Huntington Beach Civic Center located at 2000 Main Street.

The 2015 Urban Water Management Plan is submitted to the State Department of Water Resources (DWR) every five years pursuant to the Urban Water Management Planning Act of 1983. The Plan is a general information document and complements the Municipal Water District of Orange County and the Metropolitan Water District of Southern California plan. The purpose of the Urban Water Management Plan is to provide a local perspective and analysis of the current and projected future water supplies and demands and water conservation activities of the City. Minor revisions were requested by DWR to be included in the Plan, and those changes are summarized in the Amendments to 2015 Urban Water Management (Amendments).

The Amendments for the Plan will be made available for public review at the Office of the City Clerk and on the City's website at Huntingtonbeachca.gov/hbwater/2015-UWMP-Amendments.pdf. All interested persons are invited to attend the hearing on the Amendments, to express their opinions for, or against, with written or oral comments. Written communications to the City Council may also be mailed to the City Clerk. Further information may be obtained from the Office of the City Clerk, 2000 Main Street, Huntington Beach, CA 92648. Phone # (714) 536-5227.

The City of Huntington Beach endeavors to accommodate persons of handicapped status in the admission or access to, or treatment or employment in, City programs or activities. The City of Huntington Beach is an equal opportunity employer.

Robin Estanislau, City Clerk
City of Huntington
2000 Main Street, 2nd Floor
Huntington Beach, California 92648
Telephone (714) 536-5227
CityClerkAgenda@surfcity-hb.org
<http://www.huntingtonbeachca.gov>

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**Revisions to Appendix F-1
Resolution of the Amended UWMP adoption
(Pending City Council Approval)**

RESOLUTION NO. 2018-03

A RESOLUTION OF THE CITY COUNCIL OF THE
CITY OF HUNTINGTON BEACH ADOPTING THE
AMENDMENTS TO THE ADOPTED 2015 URBAN WATER MANAGEMENT PLAN
PURSUANT TO AB 797 AND SB 1011

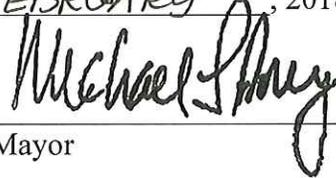
WHEREAS, Resolution No. 2016-38 adopted the City of Huntington Beach 2015 Urban Water Management Plan in 2016; and

A current Urban Water Management Plan Amendments (“Amendments”), resulting from review by the State Department of Water Resources has been completed, and is attached hereto as Exhibit “A” and incorporated by this reference as though fully set forth herein, pursuant to the requirements of the Urban Water Management Planning Act of 1983,

NOW, THEREFORE, the City Council of the City of Huntington Beach does hereby resolve as follows:

1. That the Amendments to the City’s adopted 2015 Urban Water Management Plan, as shown on the attached Exhibit “A”, is hereby approved and adopted.

PASSED AND ADOPTED by the City Council of the City of Huntington Beach at a regular meeting thereof held on the 5th day of FEBRUARY, 2018.



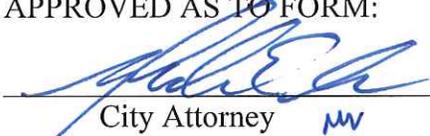
Mayor

REVIEWED AND APPROVED:



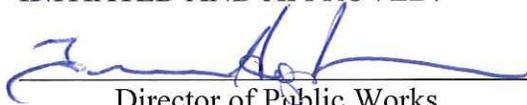
City Manager

APPROVED AS TO FORM:



City Attorney *mv*

INITIATED AND APPROVED:



Director of Public Works