

# 2020 Water Shortage Contingency Plan

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# **Acronyms and Abbreviations**

% Percent AF Acre-Feet

Annual Assessment Annual Water Supply and Demand Assessment

BPP Basin Production Percentage
City City of Huntington Beach
CRA Colorado River Aqueduct
DDW Division of Drinking Water
DRA Drought Risk Assessment
DVL Diamond Valley Lake

DWR California Department of Water Resources

EAP Emergency Operations Center Actions Plan

EOC Emergency Operation Center
EOP Emergency Operations Plan

FY Fiscal Year

GSP Groundwater Sustainability Plan

HMP Hazard Mitigation Plan

IRP Integrated Water Resource Plan

M&I Municipal and Industrial
MCL Maximum Contaminant Level

MET Metropolitan Water District of Southern California

Metropolitan Act Metropolitan Water District Act

MGD Million Gallons per Day

MWDOC Municipal Water District of Orange County
NIMS National Incident Management System
OC Basin Orange County Groundwater Basin

OCWD Orange County Water District

PFAS Per- and Polyfluoroalkyl Substances

PFOA Perfluorooctanoic Acid PFOS Perfluorooctane Sulfonate

PPT Parts Per Trillion

Producer Groundwater Producer

RL Response Level

SEMS California Standardized Emergency Management System

Supplier Urban Water Supplier SWP State Water Project

SWRCB California State Water Resources Control Board

UWMP Urban Water Management Plan
WARN Water Agency Response Network

Water Code California Water Code

## Huntington Beach 2020 Water Shortage Contingency Plan

WEROC Water Emergency Response Organization of Orange County

WSAP Water Supply Allocation Plan

WSCP Water Shortage Contingency Plan

WSDM Water Surplus and Drought Management Plan

#### 1 INTRODUCTION AND WSCP OVERVIEW

The Water Shortage Contingency Plan (WSCP) is a strategic planning document designed to prepare for and respond to water shortages. This Water Shortage Contingency Plan (WSCP) complies with California Water Code (Water Code) Section 10632, which requires that every urban water supplier (Supplier) shall prepare and adopt a WSCP as part of its Urban Water Management Plan (UWMP). This level of detailed planning and preparation is intended to help maintain reliable supplies and reduce the impacts of supply interruptions.

The WSCP is the City of Huntington Beach (City)'s operating manual that is used to prevent catastrophic service disruptions through proactive, rather than reactive, management. A water shortage, when water supply available is insufficient to meet the normally expected customer water use at a given point in time, may occur due to a number of reasons, such as drought, climate change, and catastrophic events. This plan provides a structured guide for the City to deal with water shortages, incorporating prescriptive information and standardized action levels, along with implementation actions in the event of a catastrophic supply interruption. This way, if and when shortage conditions arise, the City's governing body, its staff, and the public can easily identify and efficiently implement pre-determined steps to manage a water shortage. A well-structured WSCP allows real-time water supply availability assessment and structured steps designed to respond to actual conditions, to allow for efficient management of any shortage with predictability and accountability.

The WSCP also describes the City's procedures for conducting an Annual Water Supply and Demand Assessment (Annual Assessment) that is required by Water Code Section 10632.1 and is to be submitted to the California Department of Water Resources (DWR) on or before July 1 of each year, or within 14 days of receiving final allocations from the State Water Project (SWP), whichever is later. The City's 2020 WSCP is included as an appendix to its 2020 UWMP which will be submitted to DWR by July 1, 2021. However, this WSCP is created separately from the City's 2020 UWMP and can be amended, as needed, without amending the UWMP. Furthermore, the Water Code does not prohibit a Supplier from taking actions not specified in its WSCP, if needed, without having to formally amend its UWMP or WSCP.

# 1.1 Water Shortage Contingency Plan Requirements and Organization

The WSCP provides the steps and water shortage response actions to be taken in times of water shortage conditions. WSCP has prescriptive elements, such as an analysis of water supply reliability; the water shortage response actions for each of the six standard water shortage levels that correspond to water shortage percentages ranging from 10% to greater than 50%; an estimate of potential to close supply gap for each measure; protocols and procedures to communicate identified actions for any current or predicted water shortage conditions; procedures for an Annual Assessment; monitoring and reporting requirements to determine customer compliance; and reevaluation and improvement procedures for evaluating the WSCP.

This WSCP is organized into three main sections, with Section 3 aligned with Water Code Section 16032 requirements.

Section 1 Introduction and WSCP Overview gives an overview of the WSCP fundamentals.

Section 2 Background provides a background on the City of Huntington Beach's water service area.

Section 3 Water Shortage Contingency Preparedness and Response Planning

**Section 3.1 Water Supply Reliability Analysis** provides a summary of the water supply analysis and water reliability findings from the 2020 UWMP.

**Section 3.2 Annual Water Supply and Demand Assessment Procedures** provide a description of procedures to conduct and approve the Annual Assessment.

**Section 3.3 Six Standard Water Shortage Stages** explains the WSCP's six standard water shortage levels corresponding to progressive ranges of up to 10, 20, 30, 40, 50, and more than 50% shortages.

**Section 3.4 Shortage Response Actions** describes the WSCP's shortage response actions that align with the defined shortage levels.

**Section 3.5 Communication Protocols** addresses communication protocols and procedures to inform customers, the public, interested parties, and local, regional, and state governments, regarding any current or predicted shortages and any resulting shortage response actions.

**Section 3.6 Compliance and Enforcement** describes customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions.

**Section 3.7 Legal Authorities** is a description of the legal authorities that enable the City to implement and enforce its shortage response actions.

**Section 3.8 Financial Consequences of the WSCP** provides a description of the financial consequences of and responses for drought conditions.

**Section 3.9 Monitoring and Reporting** describes monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance and to meet state reporting requirements.

**Section 3.10 WSCP Refinement Procedures** addresses reevaluation and improvement procedures for monitoring and evaluating the functionality of the WSCP.

**Section 3.11 Special Water Feature Distinction** is a required definition for inclusion in a WSCP per the Water Code.

**Section 3.12 Plan Adoption, Submittal, and Implementation** provides a record of the process the City followed to adopt and implement its WSCP.

# 1.2 Integration with Other Planning Efforts

As a retail water supplier in Orange County, the City considered other key entities in the development of this WSCP, including the Municipal Water District of Orange County ([MWDOC] (regional wholesale supplier)), the Metropolitan Water District of Southern California ([MET] (regional wholesaler for Southern California and the direct supplier of imported water to MWDOC)), and Orange County Water District ([OCWD] (Orange County Groundwater Basin manager and provider of recycled water in North Orange

County)). As a MWDOC member agency, the City also developed this WSCP with input from several coordination efforts led by MWDOC.

Some of the key planning and reporting documents that were used to develop this WSCP are:

- MWDOC's 2020 UWMP provides the basis for the projections of the imported supply availability over the next 25 years for the City's service area.
- MWDOC's 2020 WSCP provides a water supply availability assessment and structured steps
  designed to respond to actual conditions that will help maintain reliable supplies and reduce the
  impacts of supply interruptions.
- 2021 Orange County Water Demand Forecast for MWDOC and OCWD Technical Memorandum (Demand Forecast TM) provides the basis for water demand projections for MWDOC's member agencies as well as Anaheim, Fullerton, and Santa Ana.
- MET's 2020 Integrated Water Resources Plan (IRP) is a long-term planning document to ensure water supply availability in Southern California and provides a basis for water supply reliability in Orange County.
- MET's 2020 UWMP was developed as a part of the 2020 IRP planning process and was used by MWDOC as another basis for the projections of supply capability of the imported water received from MET.
- MET's 2020 WSCP provides a water supply assessment and guide for MET's intended actions during water shortage conditions.
- OCWD's 2019-20 Engineer's Report provides information on the groundwater conditions and basin utilization of the Orange County Groundwater Basin (OC Basin).
- OCWD's 2017 Basin 8-1 Alternative is an alternative to the Groundwater Sustainability Plan
  (GSP) for the OC Basin and provides significant information related to sustainable management
  of the basin in the past and hydrogeology of the basin, including groundwater quality and basin
  characteristics.
- 2020 Local Hazard Mitigation Plan (HMP) provides the basis for the seismic risk analysis of the water system facilities.
- Orange County Local Agency Formation Commission's 2020 Municipal Service Review for MWDOC Report provides a comprehensive service review of the municipal services provided by MWDOC.
- Water Master Plan and Sewer Master Plan of the City provide information on water infrastructure planning projects and plans to address any required water system improvements.
- **Groundwater Management Plans** provide the groundwater sustainability goals for the basins in the MWDOC's service area and the programs, actions, and strategies activities that support those goals.

## 2 BACKGROUND INFORMATION

The City was incorporated in 1909 and is governed by a seven-member elected City Council. In 1964, the City's Water Division was established as a Division of the Public Works Department. The City is a predominantly residential community located along the California coastline in Orange County. It was incorporated in 1909 and is a charter city. From 1936 to 1964, the water system serving the City was owned and operated by the Southern California Water Company. In 1964, the City purchased the private system and the City's Water Division was established as a Division of the Public Works Department. In 2003, the Public Works Wastewater Section was incorporated into the Water Division to form the Utilities Division.

# 2.1 City Service Area

The City is located 35 miles southeast of Los Angeles and 90 miles northwest of San Diego along the Southern California Coast of Orange County. The City's water service area is 27.3 square miles. The City is generally flat, with elevations ranging from a low of about five feet below sea level to 120 feet above sea level. The City's Public Works Department operates four storage and distribution reservoirs with a combined capacity of 55 million gallons, four booster stations, eight active groundwater wells and manages a 6,31-mile water mains system with 53,091 service connections. The City also has 71 parks and public facilities and 8.5 miles of beaches. The City formerly supplied water to Sunset Beach, which is approximately 68 acres of land located off of the Pacific Coast Highway near Huntington Harbor. A map of the City's water service area is shown on Figure 2-1.

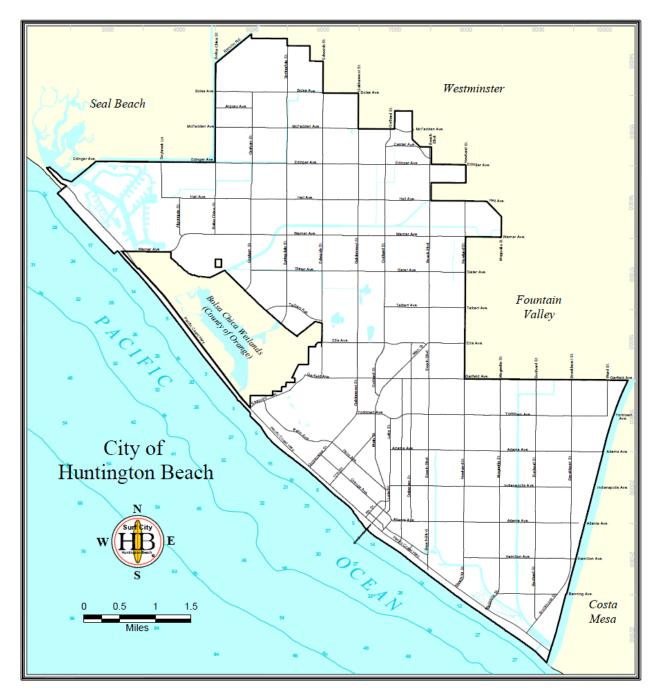


Figure 2-1: City Service Area

# 2.2 Relationship to Wholesalers

**MET**: MET is the largest water wholesaler for domestic and municipal uses in California, serving approximately 19 million customers. MET wholesales imported water supplies to 26 member cities and water districts in six Southern California counties. Its service area covers the Southern California coastal plain, extending approximately 200 miles along the Pacific Ocean from the City of Oxnard in the north to

the international boundary with Mexico in the south. This encompasses 5,200 square miles and includes portions of Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura counties. Approximately 85% of the population from the aforementioned counties reside within MET's boundaries.

MET is governed by a Board of Directors comprised of 38 appointed individuals with a minimum of one representative from each of MET's 26 member agencies. The allocation of directors and voting rights are determined by each agency's assessed valuation. Each member of the Board shall be entitled to cast one vote for each ten million dollars (\$10,000,000) of assessed valuation of property taxable for district purposes, in accordance with Section 55 of the Metropolitan Water District Act (Metropolitan Act). Directors can be appointed through the chief executive officer of the member agency or by a majority vote of the governing board of the agency. Directors are not compensated by MET for their service.

MET is responsible for importing water into the region through its operation of the Colorado River Aqueduct (CRA) and its contract with the State of California for SWP supplies. Member agencies receive water from MET through various delivery points and pay for service through a rate structure made up of volumetric rates, capacity charges and readiness to serve charges. Member agencies provide estimates of imported water demand to MET annually in April regarding the amount of water they anticipate they will need to meet their demands for the next five years.

**MWDOC:** In Orange County, MWDOC and the Cities of Anaheim, Fullerton, and Santa Ana are MET member agencies that purchase imported water directly from MET. Furthermore, MWDOC purchases both treated potable and untreated water from MET to supplement its retail agencies' local supplies.

The City is one of MWDOC's 28 member agencies receiving imported water from MWDOC. The City's location within MWDOC's service area is shown on Figure 2-2.

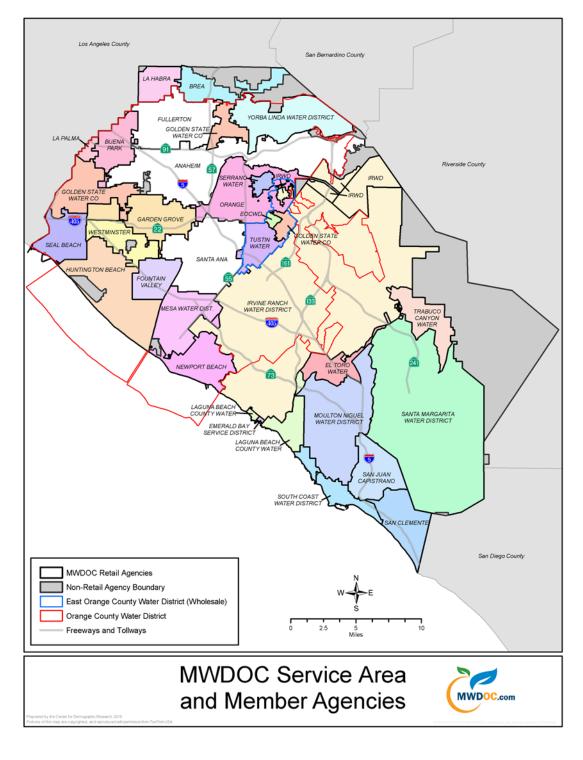


Figure 2-2: Regional Location of the City and Other MWDOC Member Agencies

# 2.3 Relationship with Wholesaler Water Shortage Planning

The WSCP is designed to be consistent with MET's Water Shortage and Demand Management (WSDM) Plan, MWDOC's Water Supply Allocation Plan (WSAP), and other emergency planning efforts as described below. MWDOC's WSAP is integral to the WSCP's shortage response strategy in the event that MET or MWDOC determines that supply augmentation (including storage) and lesser demand reduction measures would not be sufficient to meet a projected shortage levels needed to meet demands.

#### 2.3.1 MET Water Surplus and Drought Management Plan

MET evaluates the level of supplies available and existing levels of water in storage to determine the appropriate management stage annually. Each stage is associated with specific resource management actions to avoid extreme shortages to the extent possible and minimize adverse impacts to retail customers should an extreme shortage occur. The sequencing outlined in the WSDM Plan reflects anticipated responses towards MET's existing and expected resource mix.

Surplus stages occur when net annual deliveries can be made to water storage programs. Under the WSDM Plan, there are four surplus management stages that provides a framework for actions to take for surplus supplies. Deliveries in Diamond Valley Lake (DVL) and in SWP terminal reservoirs continue through each surplus stage provided there is available storage capacity. Withdrawals from DVL for regulatory purposes or to meet seasonal demands may occur in any stage.

The WSDM Plan distinguishes between shortages, severe shortages, and extreme shortages. The differences between each term are listed below.

- Shortage: MET can meet full-service demands and partially meet or fully meet interruptible demands using stored water or water transfers as necessary.
- Severe Shortage: MET can meet full-service demands only by using stored water, transfers, and possibly calling for extraordinary conservation.
- Extreme Shortage: MET must allocate available supply to full-service customers.

There are six shortage management stages to guide resource management activities. These stages are defined by shortfalls in imported supply and water balances in MET's storage programs. When MET must make net withdrawals from storage to meet demands, it is considered to be in a shortage condition. Figure 2-3 gives a summary of actions under each surplus and shortage stages when an allocation plan is necessary to enforce mandatory cutbacks. The goal of the WSDM plan is to avoid Stage 6, an extreme shortage (MET, 1999).

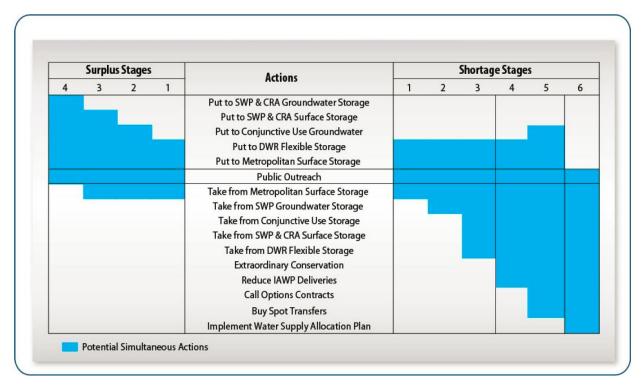


Figure 2-3: Resource Stages, Anticipated Actions, and Supply Declarations

Source: MET, 1999.

MET's Board of Directors adopted a Water Supply Condition Framework in June 2008 in order to communicate the urgency of the region's water supply situation and the need for further water conservation practices. The framework has four conditions, each calling increasing levels of conservation. Descriptions for each of the four conditions are listed below:

- Baseline Water Use Efficiency: Ongoing conservation, outreach, and recycling programs to achieve permanent reductions in water use and build storage reserves.
- Condition 1 Water Supply Watch: Local agency voluntary dry-year conservation measures and use of regional storage reserves.
- Condition 2 Water Supply Alert: Regional call for cities, counties, member agencies, and retail water
  agencies to implement extraordinary conservation through drought ordinances and other measures to
  mitigate use of storage reserves.
- Condition 3 Water Supply Allocation: Implement MET's WSAP.

As noted in Condition 3, should supplies become limited to the point where imported water demands cannot be met, MET will allocate water through the WSAP (MET, 2021a).

#### 2.3.2 MET Water Supply Allocation Plan

MET's imported supplies have been impacted by a number of water supply challenges as noted earlier. In case of extreme water shortage within the MET service area is the implementation of its WSAP.

MET's Board of Directors originally adopted the WSAP in February 2008 to fairly distribute a limited amount of water supply and applies it through a detailed methodology to reflect a range of local conditions and needs of the region's retail water consumers (MET, 2021a).

The WSAP includes the specific formula for calculating member agency supply allocations and the key implementation elements needed for administering an allocation. MET's WSAP is the foundation for the urban water shortage contingency analysis required under Water Code Section 10632 and is part of MET's 2020 UWMP.

MET's WSAP was developed in consideration of the principles and guidelines in MET's 1999 WSDM Plan with the core objective of creating an equitable "needs-based allocation". The WSAP's formula seeks to balance the impacts of a shortage at the retail level while maintaining equity on the wholesale level for shortages of MET supplies of greater than 50% supply shortage. The formula takes into account a number of factors, such as the impact on retail customers, growth in population, changes in supply conditions, investments in local resources, demand hardening aspects of water conservation savings, recycled water, extraordinary storage and transfer actions, and groundwater imported water needs.

The formula is calculated in three steps: 1) based period calculations, 2) allocation year calculations, and 3) supply allocation calculations. The first two steps involve standard computations, while the third step contains specific methodology developed for the WSAP.

**Step 1: Base Period Calculations** – The first step in calculating a member agency's water supply allocation is to estimate their water supply and demand using a historical based period with established water supply and delivery data. The base period for each of the different categories of supply and demand is calculated using data from the two most recent non-shortage years.

**Step 2: Allocation Year Calculations –** The next step in calculating the member agency's water supply allocation is estimating water needs in the allocation year. This is done by adjusting the base period estimates of retail demand for population growth and changes in local supplies.

**Step 3: Supply Allocation Calculations –** The final step is calculating the water supply allocation for each member agency based on the allocation year water needs identified in Step 2.

In order to implement the WSAP, MET's Board of Directors makes a determination on the level of the regional shortage, based on specific criteria, typically in April. The criteria used by MET includes current levels of storage, estimated water supplies conditions, and projected imported water demands. The allocations, if deemed necessary, go into effect in July of the same year and remain in effect for a 12-month period. The schedule is made at the discretion of the Board of Directors (MET, 2021b)

As demonstrated by the findings in MET's 2020 UWMP both the Water Reliability Assessment and the Drought Risk Assessment (DRA) demonstrate that MET is able to mitigate the challenges posed by hydrologic variability, potential climate change, and regulatory risk on its imported supply sources through the significant storage capabilities it has developed over the last two decades, both dry-year and emergency storage (MET, 2021a).

Although MET's 2020 UWMP forecasts that MET will be able to meet projected imported demands throughout the projected period from 2025 to 2045, uncertainty in supply conditions can result in MET needing to implement its WSAP to preserve dry-year storage and curtail demands (MET, 2021b).

#### 2.3.3 MWDOC Water Supply Allocation Plan

To prepare for the potential allocation of imported water supplies from MET, MWDOC worked collaboratively with its 28 retail agencies to develop its own WSAP that was adopted in January 2009 and amended in 2016. The MWDOC WSAP outlines how MWDOC will determine and implement each of its retail agency's allocation during a time of shortage.

The MWDOC WSAP uses a similar method and approach, when reasonable, as that of the MET's WSAP. However, MWDOC's plan remains flexible to use an alternative approach when MET's method produces a significant unintended result for the member agencies. The MWDOC WSAP model follows five basic steps to determine a retail agency's imported supply allocation.

**Step 1: Determine Baseline Information –** The first step in calculating a water supply allocation is to estimate water supply and demand using a historical based period with established water supply and delivery data. The base period for each of the different categories of demand and supply is calculated using data from the last two non-shortage years.

**Step 2: Establish Allocation Year Information –** In this step, the model adjusts for each retail agency's water need in the allocation year. This is done by adjusting the base period estimates for increased retail water demand based on population growth and changes in local supplies.

**Step 3: Calculate Initial Minimum Allocation Based on MET's Declared Shortage Level –** This step sets the initial water supply allocation for each retail agency. After a regional shortage level is established, MWDOC will calculate the initial allocation as a percentage of adjusted Base Period Imported water needs within the model for each retail agency.

Step 4: Apply Allocation Adjustments and Credits in the Areas of Retail Impacts and Conservation—In this step, the model assigns additional water to address disparate impacts at the retail level caused by an across-the-board cut of imported supplies. It also applies a conservation credit given to those agencies that have achieved additional water savings at the retail level as a result of successful implementation of water conservation devices, programs and rate structures.

**Step 5: Sum Total Allocations and Determine Retail Reliability –** This is the final step in calculating a retail agency's total allocation for imported supplies. The model sums an agency's total imported allocation with all of the adjustments and credits and then calculates each agency's retail reliability compared to its Allocation Year Retail Demand.

The MWDOC WSAP includes additional measures for plan implementation, including the following (MWDOC, 2016):

- Appeal Process An appeals process to provide retail agencies the opportunity to request a change
  to their allocation based on new or corrected information. MWDOC anticipates that under most
  circumstances, a retail agency's appeal will be the basis for an appeal to MET by MWDOC.
- Melded Allocation Surcharge Structure At the end of the allocation year, MWDOC would only
  charge an allocation surcharge to each retail agency that exceeded their allocation if MWDOC
  exceeds its total allocation and is required to pay a surcharge to MET. MET enforces allocations to
  retail agencies through an allocation surcharge to a retail agency that exceeds its total annual
  allocation at the end of the 12-month allocation period. MWDOC's surcharge would be assessed

according to the retail agency's prorated share (acre-feet over usage) of MWDOC amount with MET. Surcharge funds collected by MET will be invested in its Water Management Fund, which is used to in part to fund expenditures in dry-year conservation and local resource development.

- Tracking and Reporting Water Usage MWDOC will provide each retail agency with water use monthly reports that will compare each retail agency's current cumulative retail usage to their allocation baseline. MWDOC will also provide quarterly reports on its cumulative retail usage versus its allocation baseline.
- Timeline and Option to Revisit the Plan The allocation period will cover 12 consecutive months and the Regional Shortage Level will be set for the entire allocation period. MWDOC only anticipates calling for allocation when MET declares a shortage; and no later than 30 days from MET's declaration will MWDOC announce allocation to its retail agencies.

# 3 WATER SHORTAGE CONTINGENCY PREPAREDNESS AND RESPONSE PLANNING

The City's WSCP is a detailed guide of how the City intends to act in the case of an actual water shortage condition. The WSCP anticipates a water supply shortage and provides pre-planned guidance for managing and mitigating a shortage. Regardless of the reason for the shortage, the WSCP is based on adequate details of demand reduction and supply augmentation measures that are structured to match varying degrees of shortage will ensure the relevant stakeholders understand what to expect during a water shortage situation.

# 3.1 Water Supply Reliability Analysis

Per Water Code Section 10632 (a)(1), the WSCP shall provide an analysis of water supply reliability conducted pursuant to Water Code Section 10635, and the key issues that may create a shortage condition when looking at the City's water asset portfolio.

Understanding water supply reliability, factors that could contribute to water supply constraints, availability of alternative supplies, and what effect these have on meeting customer demands provides the City with a solid basis on which to develop appropriate and feasible response actions in the event of a water shortage. In the 2020 UWMP, the City conducted a Water Reliability Assessment to compare the total water supply sources available to the water supplier with long-term projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and a drought lasting five consecutive water years (Huntington Beach, 2021).

The City also conducted a DRA to evaluate a drought period that lasts five consecutive water years starting from the year following when the assessment is conducted. An analysis of both assessments determined that the City is capable of meeting all customers' demands from 2021 through 2045 for a normal year, a single dry year, and a drought lasting five consecutive years with significant imported water supplemental dedicated drought supplies from MWDOC/MET and ongoing conversation program efforts. The City also has added reliability through receiving the majority of its water supply from groundwater from the OC Basin and supplemental imported supplies from MET/MWDOC. As a result, there is no projected shortage condition due to drought that will trigger customer demand reduction actions until MWDOC notifies the City of insufficient imported supplies. More information is available in the City's 2020 UWMP Section 6 and 7 (Huntington Beach, 2021).

# 3.2 Annual Water Supply and Demand Assessment Procedures

Per Water Code Section 10632.1, the City will conduct an Annual Assessment pursuant to subdivision (a) of Section 10632 and by July 1st of each year, beginning in 2022, submit an Annual Assessment with information for anticipated shortage, triggered shortage response actions, compliance and enforcement actions, and communication actions consistent with the Supplier's WSCP.

The City must include in its WSCP the procedures used for conducting an Annual Assessment. The Annual Assessment is a determination of the near-term outlook for supplies and demands and how a perceived shortage may relate to WSCP shortage stage response actions in the current calendar year. This determination is based on information available to the City at the time of the analysis. Starting in 2022, the Annual Assessment will be due by July 1 of every year.

This section documents the decision-making process required for formal approval of the City's Annual Assessment determination of water supply reliability each year and the key data inputs and the methodologies used to evaluate the water system reliability for the coming year, while considering that the year to follow would be considered dry.

#### 3.2.1 Decision-Making Process

The following decision-making process describes the functional steps that the City will take to formally approve the Annual Assessment determination of water supply reliability each year.

#### 3.2.1.1 City Steps to Approve the Annual Assessment Determination

The Annual Assessment will be predicated on the OCWD Basin Production Percentage (BPP) and on MWDOCs Annual Assessment outcomes.

The City is supplied groundwater from OCWD. The OC Basin is not adjudicated and as such, pumping from the OC Basin is managed through a process that uses financial incentives to encourage groundwater producers (Producers) to pump a sustainable amount of water. The framework for the financial incentives is based on establishing the BPP, the percentage of each Producer's total water supply that comes from groundwater pumped from the OC Basin. The BPP is set uniformly for all Producers by OCWD on an annual basis in by OCWD Board of Directors. Based on the projected water demand and water modeled water supply, over the long-term, OCWD anticipates sustainably supporting a BPP of 85%; however, volumes of groundwater and imported water may vary depending on OCWD's actual BPP projections. A supply reduction that may result from the annual BPP projection will be included in the Annual Assessment.

While the City's primary source of water is OCWD groundwater, any remaining source to meet retail demands comes from the purchase of imported water from MWDOC. MWDOC surveys its member agencies annually for anticipated water demands and supplies for the upcoming year. MWDOC utilizes this information to plan for the anticipated imported water supplies for the MWDOC service area. This information is then shared and coordinated with MET and is incorporated into their analysis of their service area's annual imported water needs. Based on the year's supply conditions and WSDM actions, MET will present a completed Annual Assessment for its member agencies' review from which they will then seek Board approval in April of each year. Additionally, MET expects that any triggers or specific shortage response actions that result from the Annual Assessment would be approved by their Board at that time. Based upon MET's Assessment and taking into consideration information provided to MWDOC through the annual survey, MWDOC will provide an anticipated estimate of imported supplies for the City to incorporate into the Annual Assessment.

The Annual Assessment findings will determine the approval process. If a shortage is identified, the Annual Assessment will be taken to City Council for approval and formally submitted to DWR prior to the July 1 deadline. If no shortage is identified, the Annual Assessment will be approved by the Public Works Director, or designee, and formally submitted to DWR prior to the July 1 deadline.

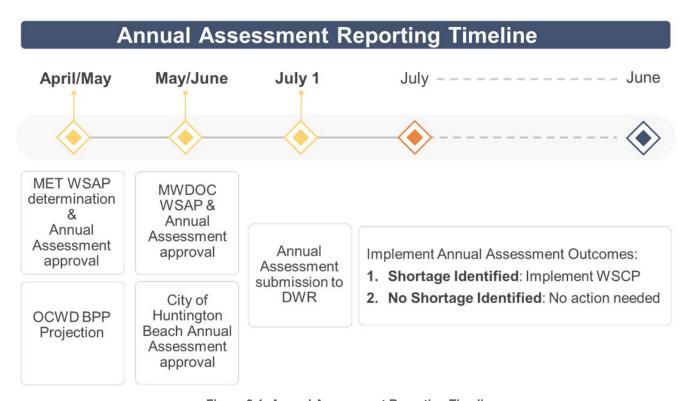


Figure 3-1: Annual Assessment Reporting Timeline

## 3.2.2 Data and Methodologies

The following paragraphs document the key data inputs and methodologies that are used to evaluate the water system reliability for the coming year, while considering that the year to follow would be considered dry.

#### 3.2.2.1 Assessment Methodology

The City will evaluate water supply reliability for the current year and one dry year for the purpose of the Annual Assessment. The Annual Assessment determination will be based on considerations of unconstrained water demand, local water supplies, MWDOC imported water supplies, planned water use, and infrastructure considerations. The balance between projected in-service area supplies, coupled with MWDOC imported supplies, and anticipated unconstrained demand will be used to determine what, if any, shortage stage is expected under the WSCP framework as presented in Figure 3-2. The WSCP's standard shortage stages are defined in terms of shortage percentages. Shortage percentages will be calculated by dividing the difference between water supplies and unconstrained demand by total unconstrained demand. This calculation will be performed separately for anticipated current year conditions and for assumed dry year conditions.

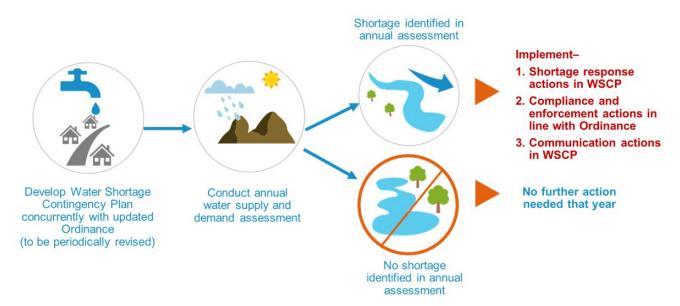


Figure 3-2: Water Shortage Contingency Plan Annual Assessment Framework

## 3.2.2.2 Locally Applicable Evaluation Criteria

Within Orange County, there are no significant local applicable criteria that directly affect reliability. Through the years, the water agencies in Orange County have made tremendous efforts to integrate their systems to provide flexibility to interchange with different sources of supplies. There are emergency agreements in place to ensure all parts of the County have an adequate supply of water. In the northern part of the County, agencies have the ability to meet a majority of their demands through groundwater with very little limitation, except for the OCWD BPP.

The City will also continue to monitor emerging supply and demand conditions related to supplemental imported water from MWDOC/MET and take appropriate actions consistent with the flexibility and adaptiveness inherent to the WSCP. The City's Annual Assessment was based on the City's service area, water sources, water supply reliability, and water use as described in Water Code Section 10631, including available data from state, regional, or local agency population, land use development, and climate change projections within the service area of the City. Some conditions that affect MWDOC's wholesale supply and demand, such as groundwater replenishment, surface water and local supply production, can differ significantly from earlier projections throughout the year.

If a major earthquake on the San Andreas Fault occurs, it has the potential to damage all three key regional water aqueducts and disrupt imported supplies for up to six months. The region would likely impose a water use reduction ranging from 10-25% until the system is repaired. However, MET has taken proactive steps to handle such disruption, such as constructing DVL, which mitigates potential impacts. DVL, along with other local reservoirs, can store a six to twelve-month supply of emergency water (MET, 2021b).

#### 3.2.2.3 Water Supply

As detailed in the City's 2020 UWMP, the City meets all of its customers' demands with a combination of local groundwater from the OC Basin and imported water from MWDOC/MET. The City's main source of water supply is groundwater, with imported water making up the rest of the City's water supply portfolio. In fiscal year (FY) 2019-20, the City relied on 70% groundwater and 30% imported water. It is projected that by 2045, the water

supply portfolio will change to approximately 85% groundwater and 15% imported water, reflecting the increase in OCWD's BPP to 85% beginning in 2025 (Huntington Beach, 2021).

#### 3.2.2.4 Unconstrained Customer Demand

The WSCP and Annual Assessment define unconstrained demand as expected water use prior to any projected shortage response actions that may be taken under the WSCP. Unconstrained demand is distinguished from observed demand, which may be constrained by preceding, ongoing, or future actions, such as emergency supply allocations during a multi-year drought. WSCP shortage response actions to constrain demand are inherently extraordinary; routine activities such as ongoing conservation programs and regular operational adjustments are not considered as constraints on demands.

The City's DRA reveals that its supply capabilities are expected to balance anticipated total water use and supply, assuming a five-year consecutive drought from FY 2020-21 through FY 2024-25 (Huntington Beach, 2021). Water demands in a five-year consecutive drought are calculated as a 6% increase in water demand above a normal year for each year of the drought (CDM Smith, 2021).

#### 3.2.2.5 Planned Water Use for Current Year Considering Dry Subsequent Year

Water Code Section 10632(a)(2)(B)(ii) requires the Annual Assessment to determine "current year available supply, considering hydrological and regulatory conditions in the current year and one dry year."

The Annual Assessment will include two separate estimates of City's annual water supply and unconstrained demand using: 1) current year conditions, and 2) assumed dry year conditions. Accordingly, the Annual Assessment's shortage analysis will present separate sets of findings for the current year and dry year scenarios. The Water Code does not specify the characteristics of a dry year, allowing discretion to the Supplier. The City will use its discretion to refine and update its assumptions for a dry year scenarios in each Annual Assessment as information becomes available and in accordance with best management practices.

Supply and demand analyses for the single-dry year case was based on conditions affecting the SWP as this supply availability fluctuates the most among MET's, and therefore MWDOC and the City's, sources of supply. FY 2013-14 was the single driest year for SWP supplies with an allocation of 5% to Municipal and Industrial (M&I) uses. Unique to this year, the 5% SWP allocation was later reduced to 0%, before ending up at its final allocation of 5%, highlight the stressed water supplies for the year. Furthermore, on January 17, 2014 Governor Brown declared the drought State of Emergency citing 2014 as the driest year in California history. Additionally, within MWDOC's service area, precipitation for FY 2013-14 was the second lowest on record, with 4.37 inches of rain, significantly impacting water demands.

The water demand forecasting model developed for the Demand Forecast TM isolated the impacts that weather and future climate can have on water demand through the use of a statistical model. The impacts of hot/dry weather condition are reflected as a percentage increase in water demands from the normal year condition (average of FY 2017-18 and FY 2018-19). For a single dry year condition (FY 2013-14), the model projects a 6% increase in demand for the OC Basin area where the City's service area is located (CDM Smith, 2021). Detailed information of the model is included in the City's 2020 UWMP.

The City has documented that it is 100% reliable for single dry year demands from 2025 through 2045 with a demand increase of 6% from normal demand with significant reserves held by MET, local groundwater supplies, and water use efficiency (Huntington Beach, 2021).

#### 3.2.2.6 Infrastructure Considerations

The Annual Assessment will include consideration of any infrastructure issues that may pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that may temporarily constrain capabilities, as well as any new projects that may add to system capacity. MWDOC closely coordinates with MET and its member agencies, including the City, on any planned infrastructure work that may impact water supply availability. Throughout each year, MET regularly carries out preventive and corrective maintenance of its facilities within the MWDOC service area that may require shutdowns to inspect and repair pipelines and facilities and support capital improvement projects. These shutdowns involve a high level of planning and coordination between MWDOC, MWDOC's member agencies, and MET to ensure that major portions of the distribution system are not out of service at the same time. Operational flexibility within MET's system and the cooperation of member agencies allow shutdowns to be successfully completed while continuing to meet all system demands.

Specifically for the City, as of July 2021, there are no foreseen near-term infrastructure issues that would impact supply; however, the City is planning to update the Water Master Plan in 2022 and will update infrastructure considerations based on Water Master Plan outcomes.

#### 3.2.2.7 Other Factors

For the Annual Assessment, any known issues related to water quality would be considered for their potential effects on water supply reliability.

Per- and polyfluoroalkyl substances (PFAS) are a group of thousands of manmade chemicals that includes perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS). PFAS compounds were once commonly used in many products including, among many others, stain- and water-repellent fabrics, nonstick products (e.g., Teflon), polishes, waxes, paints, cleaning products, and fire-fighting foams. Beginning in the summer of 2019, the California State Division of Drinking Water (DDW) began requiring testing for PFAS compounds in some groundwater production wells in the OCWD area.

Although PFAS have not been detected in the City's wells, PFAS are of particular concern for groundwater quality, and since the summer of 2019, DDW requires testing for PFAS compounds in some groundwater production wells in the OCWD area. In February 2020, the DDW lowered its Response Levels (RL) for PFOA and PFOS to 10 and 40 parts per trillion (ppt), respectively. The DDW recommends Producers not serve any water exceeding the RL – effectively making the RL an interim Maximum Contaminant Level (MCL) while DDW undertakes administrative action to set a MCL. In response to DDW's issuance of the revised RL, as of December 2020, approximately 45 wells in the OCWD service area have been temporarily turned off until treatment systems can be constructed. As additional wells are tested, OCWD expects this figure may increase to at least 70 to 80 wells. The state has begun the process of establishing MCLs for PFOA and PFOS and anticipates these MCLs to be in effect by the Fall of 2023. OCWD anticipates the MCLs will be set at or below the RLs.

In April 2020, OCWD as the groundwater basin manager, executed an agreement with the impacted Producers to fund and construct the necessary treatment systems for production wells impacted by PFAS compounds. The PFAS treatment projects includes the design, permitting, construction, and operation of PFAS removal systems for impacted Producer production wells. Each well treatment system will be evaluated for use with either granular activated carbon or ion exchange for the removal of PFAS compounds. These treatment systems utilize vessels in a lead-lag configuration to remove PFOA and PFOS to less than 2 ppt (the current non-detect limit). Use of these PFAS treatment systems are designed to ensure the groundwater supplied by Producer wells can be

served in compliance with current and future PFAS regulations. With financial assistance from OCWD, the Producers will operate and maintain the new treatment systems once they are constructed.

To minimize expenses and provide maximum protection to the public water supply, OCWD initiated design, permitting, and construction of the PFAS treatment projects on a schedule that allows rapid deployment of treatment systems. Construction contracts were awarded for treatment systems for production wells in the City of Fullerton and Serrano Water District in Year 2020. Additional construction contracts will likely be awarded in the first and second quarters of 2021. OCWD expects the treatment systems to be constructed for most of the initial 45 wells above the RL within the next 2 to 3 years.

As additional data are collected and new wells experience PFAS detections at or near the current RL, and/or above a future MCL, and are turned off, OCWD will continue to partner with the affected Producers and take action to design and construct necessary treatment systems to bring the impacted wells back online as quickly as possible.

Groundwater production in FY 2019-20 was expected to be approximately 325,000 acre-feet (AF) but declined to 286,550 AF primarily due to PFAS impacted wells being turned off around February 2020. OCWD expects groundwater production to be in the area of 245,000 AF in FY 2020-21 due to the currently idled wells and additional wells being impacted by PFAS and turned off. As PFAS treatment systems are constructed, OCWD expects total annual groundwater production to slowly increase back to normal levels (310,000 to 330,000 AF) (OCWD, 2020).

# 3.3 Six Standard Water Shortage Levels

Per Water Code Section 10632 (a)(3)(A), the City must include the six standard water shortage levels that represent shortages from the normal reliability as determined in the Annual Assessment. The shortage levels have been standardized to provide a consistent regional and statewide approach to conveying the relative severity of water supply shortage conditions. This is an outgrowth of the severe statewide drought of 2012-2016, and the widely recognized public communication and state policy uncertainty associated with the many different local definitions of water shortage Levels.

The six standard water shortage levels correspond to progressively increasing estimated shortage conditions (up to 10, 20, 30, 40, 50%, and greater than 50% shortage compared to the normal reliability condition) and align with the response actions the Supplier would implement to meet the severity of the impending shortages.

Table 3-1: Water Shortage Contingency Plan Levels

Submittal Table 8-1 Water Shortage Contingency Plan Levels				
Shortage Level	Percent Shortage Range	Shortage Response Actions		
0	0% (Normal)	A Level 0 Water Supply Shortage –Condition exists when the City notifies its water users that no supply reductions are anticipated in this year. The City proceeds with planned water efficiency best practices to support consumer demand reduction in line with state mandated requirements and local City goals for water supply reliability. Permanent water waste prohibitions are in place as stipulated in the City's Water Shortage Response Ordinance.		
1	Up to 10%	A Level 1 Water Supply Shortage – Condition exists when the City notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 10% is necessary to make more efficient use of water and respond to existing water conditions. The City shall implement the mandatory Level 1 conservation measures identified in this WSCP. The type of event that may prompt the City to declare a Level 1 Water Supply Shortage may include, among other factors, a finding that its wholesale water provider calls for extraordinary water conservation.		
2	11% to 20%	A Level 2 Water Supply Shortage – Condition exists when the City notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 20% is necessary to make more efficient use of water and respond to existing water conditions. Upon declaration of a Level 2 Water Supply Shortage condition, the City shall implement the mandatory Level 2 conservation measures identified in this WSCP.		
3	21% to 30%	A Level 3 Water Supply Shortage – Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 30% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.		
4	31% to 40%	A Level 4 Water Supply Shortage - Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 40% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.		

Submittal Table 8-1 Water Shortage Contingency Plan Levels				
Shortage Level	Percent Shortage Range	Shortage Response Actions		
5	41% to 50%	A Level 5 Water Supply Shortage - Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.		
6	>50%	A Level 6 Water Supply Shortage – Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that greater than 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.		
NOTES:				

# 3.4 Shortage Response Actions

Water Code Section 10632 (a)(4) requires the WSCP to specify shortage response actions that align with the defined shortage levels. The City has defined specific shortage response actions that align with the defined shortage levels in DWR Tables 8-2 and 8-3 (Appendix A). These shortage response actions were developed with consideration to the system infrastructure and operations changes, supply augmentation responses, customerclass or water use-specific demand reduction initiatives, and increasingly stringent water use prohibitions.

#### 3.4.1 Demand Reduction

The demand reduction measures that would be implemented to address shortage levels are described in DWR Table 8-2 (Appendix A). This table indicates which actions align with specific defined shortage levels and estimates the extent to which that action will reduce the gap between supplies and demands. DWR Table 8-2 (Appendix A) demonstrates to the that choose suite of shortage response actions can be expected to deliver the expected outcomes necessary to meet the requirements of a given shortage level (e.g., target of an additional 10% water savings). This table also identifies the enforcement action, if any, associated with each demand reduction measure.

#### 3.4.2 Supply Augmentation

The supply augmentation actions are described in DWR Table 8-3 (Appendix A). These augmentations represent short-term management objectives triggered by the MET's WSDM Plan and do not overlap with the long-term new water supply development or supply reliability enhancement projects. Supply Augmentation is made available to the City through MWDOC and MET. The City relies on MET's reliability portfolio of water supply programs including existing water transfers, storage and exchange agreements to supplement gaps in the City's supply/demand balance. MET has developed significant storage capacity (over 5 million AF) in reservoirs and groundwater banking programs both within and outside of the Southern California region. Additionally, MET can pursue additional water transfer and exchange programs with other water agencies to help mitigate supply/demand imbalances and provide additional dry-year supply sources.

MWDOC, and in turn its retail agencies, including the City, has access to supply augmentation actions through MET. MET may exercise these actions based on regional need, and in accordance with their WSCP, and may include the use of supplies and storage programs within the Colorado River, SWP, and in-region storage. The City has the ability to augment its supply to reduce the shortage gap by up to 100% by purchasing additional imported water through MWDOC or pumping additional groundwater in the OC Basin; however, both are subject to rate penalties from MWDOC and OCWD, respectively.

#### 3.4.3 Operational Changes

During shortage conditions, operations may be affected by supply augmentation or demand reduction responses. The City will consider their operational procedures when it completes its Annual Assessment or as needed to identify changes that can be implemented to address water shortage on a short-term basis. The City can alter maintenance cycles, such as system flushing, and defer planned construction activities and capital improvement projects to limit or defer planned system outages. The City has one pressure zone and all water sources (the City's wells and connections to MET) pump directly into the system, in which the City would have to adjust control valves to lower the pressure in the system and restrict flows for operational control.

#### 3.4.4 Additional Mandatory Restrictions

Water Code Section 10632(a)(4)(D) calls for "additional, mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions and appropriate to the local conditions" to be included among the WSCP's shortage response actions. The City will identify additional mandatory restrictions as needed based on the existing Huntington Beach Municipal Code Chapter 14.18 Water Management Program (Appendix B). The City intends to update any mandatory restrictions in a subsequently adopted ordinance which will supersede the existing ordinance.

# 3.4.5 Emergency Response Plan (Hazard Mitigation Plan)

A catastrophic water shortage would be addressed according to the appropriate water shortage level and response actions. It is likely that a catastrophic shortage would immediately trigger Shortage Level 6 and response actions have been put in place to mitigate a catastrophic shortage. In addition, there are several Plans that address catastrophic failures and align with the WSCP, including MET's WSDM and WSAP, the City's HMP, and the Water Emergency Response Organization of Orange County (WEROC)'s Emergency Operations Plan (EOP).

#### 3.4.5.1 MET's WSDM and WSAP

MET has comprehensive plans for stages of actions it would undertake to address a catastrophic interruption in water supplies through its WSDM and WSAP. MET also developed an Emergency Storage Requirement to mitigate against potential interruption in water supplies resulting from catastrophic occurrences within the Southern California region, including seismic events along the San Andreas Fault. In addition, MET is working with the state to implement a comprehensive improvement plan to address catastrophic occurrences outside of the Southern California region, such as a maximum probable seismic event in the Sacramentro-San Joaquin River Delta that would cause levee failure and disruption of SWP deliveries.

# 3.4.5.2 Water Emergency Response Organization of Orange County Emergency Operations Plan

In 1983, the Orange County water community identified a need to develop a plan on how agencies would respond effectively to disasters impacting the regional water distribution system. The collective efforts of these agencies resulted in the formation of WEROC to coordinate emergency response on behalf of all Orange County water and wastewater agencies, develop an emergency plan to respond to disasters, and conduct disaster training exercises for the Orange County water community. WEROC was established with the creation of an indemnification agreement between its member agencies to protect each other against civil liabilities and to facilitate the exchange of resources. WEROC is unique in its ability to provide a single point of contact for representation of all water and wastewater utilities in Orange County during a disaster. This representation is to the county, state, and federal disaster coordination agencies. Within the Orange County Operational Area, WEROC is the recognized contact for emergency response for the water community, including the City.

As a member of WEROC, the City will follow WEROC's EOP in the event of an emergency and coordinate with WEROC to assess damage, initiate repairs, and request and coordinate mutual aid resources in the event that the City is unable to provide the level of emergency response support required by the situation.

The EOP defines the actions to be taken by WEROC Emergency Operations Center (EOC) staff to reduce the loss of water and wastewater infrastructure; to respond effectively to a disaster; and to coordinate recovery operations in the aftermath of any emergency involving extensive damage to Orange County water and wastewater utilities. The EOP includes activation notification protocol that will be used to contact partner agencies to inform them of the situation, activation status of the EOC, known damage or impacts, or resource needs. The EOP is a standalone document that is reviewed annually and approved by the Board every three years.

WEROC is organized on the basis that each member agency is responsible for developing its own EOP in accordance with the California Standardized Emergency Management System (SEMS), National Incident Management System (NIMS), and Public Health Security and Bioterrorism Preparedness and Response Act of 2002 to meet specific emergency needs within its service area.

The WEROC EOC is responsible for assessing the overall condition and status of the Orange County regional water distribution and wastewater collection systems including MET facilities that serve Orange County. The EOC can be activated during an emergency situation that can result from both natural and man-made causes, and can be activated through automatic, manual, or standby for activation.

WEROC recognized four primary phases of emergency management, which include:

- Preparedness: Planning, training, and exercises that are conducted prior to an emergency to support and enhance response to an emergency or disaster.
- **Response:** Activities and programs designed to address the immediate and short-term effects of the onset of an emergency or disaster that helps to reduce effects to water infrastructure and speed recovery. This includes alert and notification, EOC activation, direction and control, and mutual aid.
- **Recovery:** This phase involved restoring systems to normal, in which short-term recovery actions are taken to assess the damage and return vital life-support systems to minimum operating standards, while long-term recovery actions have the potential to continue for many years.
- Mitigation/Prevention: These actions prevent the occurrence of an emergency or reduce the area's
  vulnerability in ways that minimize the adverse impacts of a disaster or emergency. MWDOC's HMP
  outlines threats and identifies mitigation projects.

The EOC Action Plans (EAP) provide frameworks for EOC staff to respond to different situations with the objectives and steps required to complete them, which will in turn serve the WEROC member agencies. In the event of an emergency which results in a catastrophic water shortage, the City will declare a water shortage condition of up to Level 6 for the impacted area depending on the severity of the event, and coordination with WEROC is anticipated to begin at Level 4 or greater (WEROC, 2018).

#### 3.4.5.3 City of Huntington Beach Emergency Response Plan

The City will also refer to its current American Water Infrastructure Act Risk and Resilience Assessment and Emergency Response Plan in the event of a catastrophic supply interruption.

#### 3.4.6 Seismic Risk Assessment and Mitigation Plan

Per the Water Code Section 10632.5, Suppliers are required to assess seismic risk to water supplies as part of their WSCP. The plan also must include the mitigation plan for the seismic risk(s). Given the great distances that imported supplies travel to reach Orange County, the region is vulnerable to interruptions along hundreds of miles aqueducts, pipelines and other facilities associated with delivering the supplies to the region. Additionally, the infrastructure in place to deliver supplies are susceptible to damage from earthquakes and other disasters.

In lieu of conducting a seismic risk assessment specific to the City's 2020 UWMP, the City has included the previously prepared regional HMP by MWDOC, as the regional imported water wholesaler, and the City's local HMP, that is required under the federal Disaster Mitigation Act of 2000 (Public Law 106-390).

MWDOC's HMP identified that the overarching goals of the HMP were the same for all of its member agencies, which include:

- Goal 1: Minimize vulnerabilities of critical infrastructure to minimize damages and loss of life and injury to human life caused by hazards.
- Goal 2: Minimize security risks to water and wastewater infrastructure.
- Goal 3: Minimize interruption to water and wastewater utilities.
- Goal 4: Improve public outreach, awareness, education, and preparedness for hazards in order to increase community resilience.
- Goal 5: Eliminate or minimize wastewater spills and overflows.
- Goal 6: Protect water quality and supply, critical aquatic resources, and habitat to ensure a safe water supply.

 Goal 7: Strengthen Emergency Response Services to ensure preparedness, response, and recovery during any major or multi-hazard event.

MWDOC's HMP evaluates hazards applicable to all jurisdictions in its entire planning area, prioritized based on probability, location, maximum probable extent, and secondary impacts. The identification of hazards is highly dependent on the location of facilities within the City's jurisdiction and takes into consideration the history of the hazard and associated damage, information provided by agencies specializing in a specific hazard, and relies upon the City's expertise and knowledge.

Earthquake fault rupture and seismic hazards, including ground shaking and liquefaction, are among the highest ranked hazards to the region as a whole because of its long history of earthquakes, with some resulting in considerable damage. A significant earthquake along one of the major faults could cause substantial casualties, extensive damage to infrastructure, fires, damages and outages of water and wastewater facilities, and other threats to life and property.

Nearly all of Orange County is at risk of moderate to extreme ground shaking, with liquefaction possible throughout much of Orange County but the most extensive liquefaction zones occur in coastal areas. Based on the amount of seismic activity that occurs within the region, there is no doubt that communities within Orange County will continue to experience future earthquake events, and it is a reasonable assumption that a major event will occur within a 30 year timeframe (MWDOC, 2019).

The mitigation actions identify the hazard, proposed mitigation action, location/facility, local planning mechanism, risk, cost, timeframe, possible funding sources, status, and status rationale, as applicable. For the City, mitigation actions for seismic risks include (Huntington Beach, 2017):

- Conduct a survey of seismically vulnerable buildings in the City, including soft first-story and older concrete structures. Ensure that the survey remains accurate through regular survey updates.
- Develop an incentive program for property owners to retrofit seismically vulnerable structures.
- Require a seismic hazard assessment for new buildings or significant retrofits within the Alquist-Priolo
  Earthquake Fault Zone or in an area with high liquefaction risk. Require buildings in seismic hazard-prone
  areas to reduce their vulnerability as appropriate.
- Explore adopting amendments to the City's building code requiring new buildings to exceed the minimum seismic standards in the state Buildings Standards Code. Emphasize constructing buildings to remain safely habitable and functional following an earthquake.
- Incorporate the possibility of a major urban fire or tsunami following a significant earthquake into Fire Department training and emergency response procedures.

#### 3.4.7 Shortage Response Action Effectiveness

For each specific Shortage Response Action identified in the plan, the WSCP also estimates the extent to which that action will reduce the gap between supplies and demands identified in DWR Table 8-2 (Appendix A). To the extent feasible, the City has estimated percentage savings for the chosen suite of shortage response actions, which can be anticipated to deliver the expected outcomes necessary to meet the requirements of a given shortage level.

#### 3.5 Communication Protocols

Timely and effective communication is a key element of the WSCP implementation. Per Water Code Section 10632 (a)(5), the City has established communication protocols and procedures to inform customers, the public, interested parties, and local, regional, and state governments regarding any current or predicted shortages as determined by the Annual Assessment described pursuant to Section 10632.1; any shortage response actions triggered or anticipated to be triggered by the Annual Assessment described pursuant to Section 10632.1; and any other relevant communications. The City's Water Shortage Communication Plan is documented in Appendix C.

## 3.6 Compliance and Enforcement

Per the Water Code Section 10632 (a)(6), the City has defined customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions. Procedures to ensure customer compliance are described in Section 3.5 Communication Protocols and customer enforcement, appeal, and exemption procedures are defined in the City's existing Municipal Code Chapter 14.18 Water Management Program (Appendix B). The City intends to update any enforcement procedures in a subsequently adopted ordinance which will supersede the existing ordinance.

# 3.7 Legal Authorities

Per Water Code Section 10632 (a)(7)(A), the City has provided a description of the legal authorities that empower the City of Huntington Beach to implement and enforce its shortage response in the City's Municipal Code Chapter 14.18 Water Management Program (Appendix B).

Per Water Code Section 10632 (a)(7) (B), the City shall declare a water shortage emergency condition to prevail within the area served by such wholesaler whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

Per Water Code Section 10632 (a)(7)(C), the City shall coordinate with any agency or county within which it provides water supply services for the possible proclamation of a local emergency under California Government Code, California Emergency Services Act (Article 2, Section 8558). Table 3-2 identifies the contacts for all cities or counties for which the Supplier provides service in the WSCP, along with developed coordination protocols, can facilitate compliance with this section of the Water Code in the event of a local emergency as defined in subpart (c) of Government Code Section 8558.

Contact	Agency	Coordination Protocols
City Manager	City of Huntington Beach	In person/Phone/Email/Memo
City Council	City of Huntington Beach	Memo/Council Meeting
Director of Public Works	County of Orange Public Works	Call/email

**Table 3-2: Agency Contacts and Coordination Protocols** 

# 3.8 Financial Consequences of WSCP

Per Water Code Section 10632(a)(8), Suppliers must include a description of the overall anticipated financial consequences to the Supplier of implementing the WSCP. This description must include potential reductions in revenue and increased expenses associated with implementation of the shortage response actions. This should be coupled with an identification of the anticipated mitigation actions needed to address these financial impacts.

During a catastrophic interruption of water supplies, prolonged drought, or water shortage of any kind, the City will experience a reduction in revenue due to reduced water sales. Throughout this period of time, expenditures may increase or decrease with varying circumstances. Expenditures may increase in the event of significant damage to the water system, resulting in emergency repairs. Expenditures may also decrease as less water is pumped through the system, resulting in lower power costs. Water shortage mitigation actions will also impact revenues and require additional costs for drought response activities such as increased staff costs for tracking, reporting, and communications.

The City receives water revenue from a service charge and a commodity charge based on consumption. The service charge recovers costs associated with providing water to the serviced property. The service charge does not vary with consumption and the commodity charge is based on water usage. Rates have been designed to recover the full cost of water service in the charges. Therefore, the total cost of purchasing water would decrease as the usage or sale of water decreases. In the event of a drought emergency, the City will impose excessive water use penalties on its customers, which may include additional costs associated with reduced water revenue, staff time taken for penalty enforcement, and advertising the excessive use penalties. The excessive water use penalties are further described in the City's Municipal Code Chapter 14.18 Water Management Program (Appendix B).

However, there are significant fixed costs associated with maintaining a minimal level of service. The City will monitor projected revenues and expenditures should an extreme shortage and a large reduction in water sales occur for an extended period of time. To overcome these potential revenue losses and/or expenditure impacts, the City may use reserves. If necessary, the City may reduce expenditures by delaying implementation of its Capital Improvement Program and equipment purchases to reallocate funds to cover the cost of operations and critical maintenance, adjust the work force, implement a drought surcharge, and/or make adjustments to its water rate structure.

Based on current water rates, a volumetric cutback of 50% and above of water sales may lead to a range of reduction in revenues. The impacts to revenues will depend on a proportionate reduction in variable costs related to supply, pumping, and treatment for the specific shortage event. The City has set aside reserve funding as a Drought Reserve Fund to mitigate short-term water shortage situation.

# 3.9 Monitoring and Reporting

Per Water Code Section 10632(a)(9), the City is required to provide a description of the monitoring and reporting requirements and procedures that have been implemented to ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance and to meet state reporting requirements.

Monitoring and reporting key water use metrics is fundamental to water supply planning and management. Monitoring is also essential in times of water shortage to ensure that the response actions are achieving their intended water use reduction purposes, or if improvements or new actions need to be considered (see Section 3.10). Monitoring for customer compliance tracking is also useful in enforcement actions.

Under normal water supply conditions, potable water production figures are recorded daily. Weekly and monthly reports are prepared and monitored. This data will be used to measure the effectiveness of any water shortage contingency level that may be implemented. As levels of water shortage are declared by MET and MWDOC, the City will follow implementation of those levels as appropriate based on the City's risk profile provided in UWMP Chapter 6 and continue to monitor water demand levels. When MET calls for extraordinary conservation, MET's Drought Program Officer will coordinate public information activities with MWDOC and monitor the effectiveness of ongoing conservation programs.

The City will participate in monthly member agency manager meetings with both MWDOC and OCWD to monitor and discuss monthly water allocation charts. This will enable the City to be aware of import and groundwater use on a timely basis as a result of specific actions taken responding to the City's WSCP.

#### 3.10 WSCP Refinement Procedures

Per Water Code Section 10632 (a)(10), the City must provide reevaluation and improvement procedures for systematically monitoring and evaluating the functionality of the water shortage contingency plan in order to ensure shortage risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented as needed.

The City's WSCP is prepared and implemented as an adaptive management plan. The City will use the monitoring and reporting process defined in Section 3.9 to refine the WSCP. In addition, if certain procedural refinements or new actions are identified by City staff, or suggested by customers or other interested parties, the City will evaluate their effectiveness, incorporate them into the WSCP, and implement them quickly at the appropriate water shortage level.

It is envisioned that the WSCP will be periodically re-evaluated to ensure that its shortage risk tolerance is adequate and the shortage response actions are effective and up to date based on lessons learned from implementing the WSCP. The WSCP will be revised and updated during the UWMP update cycle to incorporate updated and new information. For example, new supply augmentation actions will be added, and actions that are no longer applicable for reasons such as program expiration will be removed. However, if revisions to the WSCP are warranted before the UWMP is updated, the WSCP will be updated outside of the UWMP update cycle. In the

course of preparing the Annual Assessment each year, City staff will routinely consider the functionality the overall WSCP and will prepare recommendations for City Council if changes are found to be needed.

### 3.11 Special Water Feature Distinction

Per Water Code Section 10632 (b), the City has defined water features in that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas, as defined in subdivision (a) of Section 115921 of the Health and Safety Code, in the City's Municipal Code Chapter 14.18 Water Management Program (Appendix B).

### 3.12 Plan Adoption, Submittal, and Availability

Per Water Code Section 10632 (a)(c), the City provided notice of the availability of the draft 2020 UWMP and draft 2020 WSCP and notice of the public hearing to consider adoption of the WSCP. The public review drafts of the 2020 UWMP and the 2020 WSCP were posted prominently on the City's <u>website</u> in advance of the public hearing on June 7, 2021. Copies of the draft WSCP were also made available for public inspection at the City Clerk's and Utilities Department offices and public hearing notifications were published in local newspapers. A copy of the published Notice of Public Hearing is included in Appendix D.

The City held the public hearing for the draft 2020 UWMP and draft WSCP on June 7, 2021, at the City Council meeting. The City Council reviewed and approved the 2020 UWMP and the WSCP at its June 7, 2021 meeting after the public hearing. See Appendix E for the resolution approving the WSCP.

By July 1, 2021, the City's adopted 2020 UWMP and WSCP was filed with DWR, California State Library, and the County of Orange. The City will make the WSCP available for public review on its website no later than 30 days after filing with DWR.

Based on DWR's review of the WSCP, the City will make any amendments in its adopted WSCP, as required and directed by DWR.

If the City revises its WSCP after UWMP is approved by DWR, then an electronic copy of the revised WSCP will be submitted to DWR within 30 days of its adoption.

#### 4 REFERENCES

- CDM Smith. (2021, March 30). Orange County Water Demand Forecast for MWDOC and OCWD Technical Memorandum.
- City of Huntington Beach. (2021, July). 2020 Urban Water Management Plan.
- City of Huntington Beach. (2017, December). Local Hazard Mitigation Plan.
- Metropolitan Water District of Southern California (MET). (2021a, March). *Water Shortage Contingency Plan*. http://www.mwdh2o.com/PDF\_About\_Your\_Water/Draft\_Metropolitan\_WSCP\_March\_2021.pdf
- Metropolitan Water District of Southern California (MET). (2021b, June). 2020 Urban Water Management Plan.
- Metropolitan Water District of Southern California (MET). (1999, August). Water Surplus and Drought Management Plan.
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- Municipal Water District of Orange County (MWDOC). (2016). Water Supply Allocation Plan.
- Municipal Water District of Orange County (MWDOC). (2019, August). *Orange County Regional Water and Wastewater Hazard Mitigation Plan*.
- Water Emergency Response Organization of Orange County (WEROC). (2018, March). WEROC Emergency Operations Plan (EOP).

## **Appendix A**

#### **DWR Submittal Tables**

**Table 8-1: Water Shortage Contingency Plan Levels** 

**Table 8-2: Demand Reduction Actions** 

**Table 8-3: Supply Augmentation and Other Actions** 

<b>Submittal Table</b>	8-1	
<b>Water Shortage</b>	Contingency	/ Plan Levels

Percent Shortage Range	Shortage Response Actions (Narrative description)
0% (Normal)	A Level 0 Water Supply Shortage –Condition exists when the City notifies its water users that no supply reductions are anticipated in this year. The City proceeds with planned water efficiency best practices to support consumer demand reduction in line with state mandated requirements and local City goals for water supply reliability. Permanent water waste prohibitions are in place as stipulated in the City's Water Shortage Response Ordinance.
Up to 10%	A Level 1 Water Supply Shortage – Condition exists when the City notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 10% is necessary to make more efficient use of water and respond to existing water conditions. The City shall implement the mandatory Level 1 conservation measures identified in this WSCP. The type of event that may prompt the City to declare a Level 1 Water Supply Shortage may include, among other factors, a finding that its wholesale water provider calls for extraordinary water conservation.
11% to 20%	A Level 2 Water Supply Shortage – Condition exists when the City notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 20% is necessary to make more efficient use of water and respond to existing water conditions. Upon declaration of a Level 2 Water Supply Shortage condition, the City shall implement the mandatory Level 2 conservation measures identified in this WSCP.
21% to 30%	A Level 3 Water Supply Shortage – Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 30% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
31% to 40%	A Level 4 Water Supply Shortage - Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 40% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
41% to 50%	A Level 5 Water Supply Shortage - Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
>50%	A Level 6 Water Supply Shortage – Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that greater than 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
	O% (Normal)  Up to 10%  11% to 20%  21% to 30%  41% to 50%

Submittal Ta	ble 8-2: Demand Reduction Actions			
Shortage Level	Demand Reduction Actions  Drop down list  These are the only categories that will be accepted by the  WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?  Include units used (volume type or percentage)	Additional Explanation or Reference (optional)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
0	Other water feature or swimming pool restriction	Statewide Prohibition is Required	All decorative water features must re- circulate water or users must secure a waiver from the City.	Yes
0	Other	Statewide Prohibition is Required	Washing or hosing down vehicles is prohibited except by use of a hand held container, hose with an automatic shut off device, or at a commercial car wash.	Yes
0	Other - Prohibit use of potable water for washing hard surfaces	Statewide Prohibition is Required	Washing hard or paved surfaces is prohibited except to alleviate safety or sanitary hazards using a hand held container, hose with an automatic shut off device, or a low-volume high pressure cleaning machine that recycles used water.	Yes
0	Landscape - Restrict or prohibit runoff from landscape irrigation	Statewide Prohibition is Required	Watering vegetated areas in a manner that causes excessive water flow or runoff onto an adjoining sidewalk, driveway, street, alley, gutter, or ditch is prohibited.	Yes
0	Landscape - Other landscape restriction or prohibition	Statewide Prohibition is Required	Irrigating ornamental turf on public street medians is prohibited.	Yes
0	Landscape - Other landscape restriction or prohibition	Statewide Prohibition is Required	No landscape watering shall occur within 48 hours after measurable precipitation.	Yes
0	Landscape - Limit landscape irrigation to specific times	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	Watering or irrigation with a device that is not continuously attended to is limited to fifteen (10) minutes per day per valve. Low flow drip type systems, water efficient stream rotor systems, and sensor/weather controlled systems are exempt.	Yes
0	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	Fix leaks or faulty sprinklers promptly/within 5 day(s).	Yes
0	CII - Restaurants may only serve water upon request	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	CII - Restaurants may only serve water upon request	Yes
0	CII - Lodging establishment must offer opt out of linen service	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	CII - Lodging establishment must offer opt out of linen service	Yes
0	CII - Other CII restriction or prohibition	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	No single pass cooling systems may be installed in new or remodeled buildings.	Yes

Submittal Tal	ble 8-2: Demand Reduction Actions			
Shortage Level	Demand Reduction Actions  Drop down list  These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?  Include units used (volume type or percentage)	Additional Explanation or Reference (optional)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
0	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	All new commercial car wash and laundry facilities must re-circulate the wash water or obtain a waiver from the City of Huntington Beach.	Yes
0	CII - Commercial kitchens required to use pre-rinse spray valves	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	Food preparation establishments must use water efficient kitchen spray valves.	Yes
0	Landscape - Limit landscape irrigation to specific times	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	Watering or irrigation of vegetated areas is prohibited between 9 am and 5 pm except by use of a hand held device, hose equipped with an automatic shutoff device, or for adjusting or repairing an irrigation system for short periods of time.	Yes
0	Other - Require automatic shut of hoses	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	Use a shutoff nozzle on hoses.	Yes
0	Other	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	Unauthorized use of hydrants is prohibited. Authorization for use must be obtained from water supplier.	Yes
1	Expand Public Information Campaign	0-3%	Community Outreach and Messaging (Expand Public Information Campaign)	Yes
1	Expand Public Information Campaign	0-1%	Encourage customers to wash only full loads when washing dishes or clothes.	Yes
1	Expand Public Information Campaign	0-1%	Encourage customers to use pool covers to minimize evaporation.	Yes
1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	Fix leaks or faulty sprinklers promptly/within 72 hours.	Yes
1	Landscape - Other landscape restriction or prohibition	0-5%	New residential automated irrigation systems must be equipped with rain sensors that shut off the system when it rains, or smart controllers or evapotranspiration sensors that use weather-based data to set efficient watering schedules.	Yes
1	Improve Customer Billing	0-3%	AMI Customer Leak Reports with Detection and Repair Assistance	Yes

Submittal Ta	ble 8-2: Demand Reduction Actions			
Shortage Level	Demand Reduction Actions  Drop down list  These are the only categories that will be accepted by the  WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap? Include units used (volume type or percentage)	Additional Explanation or Reference (optional)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
1	Provide Rebates for Landscape Irrigation Efficiency	0-1%	Expanded/Enhanced Rebate Programs	Yes
1	Provide Rebates on Plumbing Fixtures and Devices	0-1%	Provide Rebates on Plumbing Fixtures and Devices	Yes
1	Provide Rebates for Turf Replacement	0-1%	Provide Rebates for Turf Replacement	Yes
1	Increase Water Waste Patrols	0-1%	Increase Water Waste Patrols	Yes
2	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	Fix leaks or faulty sprinklers within 48 hours.	Yes
2	Landscape - Limit landscape irrigation to specific days	5-10%	Irrigation shall be limited to 3 days per week turf watering when using potable water. Plant containers, trees, shrubs and vegetable gardens may be watered additional days using only drip irrigation or hand watering.	Yes
2	Water Features - Restrict water use for decorative water features, such as fountains	0-1%	Filling or refilling ornamental lakes and ponds is prohibited. Ornamental lakes and ponds that sustain aquatic life of significant value and were actively managed prior to the storage declaration are exempt.	Yes
2	Improve Customer Billing	0-1%	Improve customer billing reports to include more details on water use	Yes
2	Decrease Line Flushing	0-1%	Decrease Line Flushing	Yes
3	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	0-1%	Fix leaks or faulty sprinklers within 24 hours	Yes
3	Other - Prohibit use of potable water for construction and dust control	0-1%	Require a construction water use plan be submitted to the water supplier that addresses how impacts to existing water users will be mitigated (such as dust control).	Yes

Submittal Tab	ole 8-2: Demand Reduction Actions			
Shortage Level	Demand Reduction Actions  Drop down list  These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	How much is this going to reduce the shortage gap?  Include units used (volume type or percentage)	Additional Explanation or Reference (optional)	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
3	Landscape - Limit landscape irrigation to specific days	10-25%	Irrigation shall be limited to 2 days per week turf watering when using potable water. Plant containers, trees, shrubs and vegetable gardens may be watered additional days using only drip irrigation or hand watering.	Yes
4	Reduce System Water Loss	0-5%	Real Loss Reduction - Pressure Management and More Aggressive Leak Detection and Repair	Yes
4	Landscape - Limit landscape irrigation to specific days	5-20%	Irrigation shall be limited to 1 days per week turf watering when using potable water. Plant containers, trees, shrubs and vegetable gardens may be watered additional days using only drip irrigation or hand watering.	Yes
5	Landscape - Prohibit all landscape irrigation	5-10%	All irrigation is prohibited except with hand- held bucket or hand-held hose equipped with a positive self-closing shut off nozzle or device.	Yes
5	Moratorium or Net Zero Demand Increase on New Connections	0-2%	Moratorium or Net Zero Demand Increase on New Connections	Yes
6	Landscape - Prohibit all landscape irrigation	0-1%	Previous waivers for watering during an establishment period will be revoked.	Yes
6	Other	0-1%	The city of Huntington Beach may discontinue service to consumers who willfully violate any water conservation provisions	Yes
6	Landscape - Prohibit all landscape irrigation	0-5%	The City of Huntington Beach may shut off all non-essential water services. All irrigation is prohibited.	Yes
6	Other	0-70%	Water use for public health and safety purposes only. Customer rationing may be implemented.	Yes
NOTES:				

Submittal Table 8-3: Supply Augmentation and Other Actions						
Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier  Drop down list  These are the only categories that will be accepted by the WUEdata online submittal tool	How much is this going to reduce the shortage gap? Include units used (volume type or percentage)	Additional Explanation or Reference (optional)			
1 through 6	Other Purchases	10 - 100%	Additional imported water purchases through MWDOC			
1 through 6	Other Purchases	10 - 100%	Additional groundwater pumping in the Orange County Groundwater Basin			

#### NOTES:

Additional imported water purchases and groundwater pumping may be subject to rate penalties from MWDOC and OCWD, respectively.

## **Appendix B**

# **Huntington Beach Municipal Code Chapter 14.18 Water Management Program**

Below is the weblink to the current ordinance (last accessed on May 3, 2021) <a href="http://www.qcode.us/codes/huntingtonbeach/view.php?topic=municipal\_code-14-14\_18">http://www.qcode.us/codes/huntingtonbeach/view.php?topic=municipal\_code-14-14\_18</a>

# **Appendix C**

Water Shortage Communication Plan

#### 1 Communication Protocol

Public communication is an ongoing activity where the purpose, audience, message, tools, and channels may change at any given moment. In the context of water shortage response, the purpose may be an immediate emergency water shortage situation, such as may result from an earthquake, or a longer-term emergency shortage condition, such as may result from a drought. In a catastrophic emergency under crisis conditions, the City will activate the communication protocol detailed in the City of Huntington Beach American Water Infrastructure Act Risk and Resilience Assessment and Emergency Response Plan (ERP). In a longer-term water shortage situation, the City will implement the procedures identified in this Communication Plan.

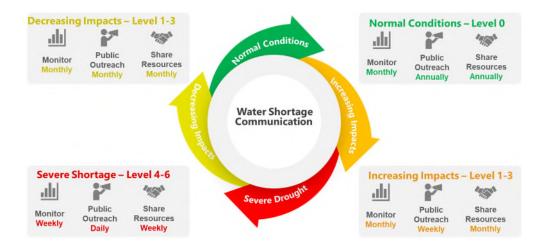
Timely and effective communication is a key element of the WSCP implementation. Per CWC Section 10632 (a)(5), the City has established communication protocols and procedures to inform stakeholders regarding any current or predicted shortages as determined by the annual water supply and demand assessment described pursuant to Section 10632.1; any shortage response actions triggered or anticipated to be triggered by the annual water supply and demand assessment described pursuant to Section 10632.1; and any other relevant communications.

#### **Emergency Response Plan Communication**

The ERP defines the actions to be taken by City staff to reduce the loss of water and wastewater infrastructure; to respond effectively to a disaster; and to coordinate recovery operations in the aftermath of any emergency involving extensive damage to local and regional water and wastewater utilities. The ERP includes activation notification protocols that will be used to contact partner agencies to inform them of the situation, activation status of the ERP, known damage or impacts, or resource needs. The ERP is a standalone document that is reviewed annually. Refer to the ERP for full details.

#### **Water Shortage Communication Plan**

The Water Shortage Communication Plan serves as the baseline understanding for how the City will provide information and value to its various stakeholders, partners, and employees during normal conditions where water efficiency is an everyday goal for water supply reliability. In times of water shortage, this Communications Plan can be enhanced for the purposes of a Water Shortage Communication Plan. The Water Conservation Coordinator works to elevate public awareness and participation in water efficiency so, in the event of a water shortage, the community is aware of the importance of response actions and can identify as an active participant in the City demand reduction target levels. The Communications Plan is designed to provide transparent, reliable, and accurate information to the public and collaborating agencies by identifying goals and objectives for each shortage level and outlining the appropriate communication interface tools and implementation schedule to for effective communication to assist customers with curtailing their water use.



#### Goals & Objectives

The goal of the City's Water Shortage Communication Plan is to create a local awareness of water shortage conditions and to encourage water efficiency from all citizens. The Water Shortage Communication Plan objectives further refine the focus of the program goal to achieve a desired outcome at specified shortage levels. As a water shortage condition escalates, the objectives of the Communication Plan also escalate to ensure progress toward water supply reliability. The defined objectives for each Water Shortage Level will determine the information that is communicated at each level.

#### **Target Audiences**

The City reviewed its water demand and customer class profile to develop a communication plan to be the most effective with its unique customer profile and water demands. By understanding the local customer and water use profile, the City can implement a Water Shortage Communication Plan that leverages the appropriate communications tools to reach the target audience most effectively during a water shortage.

The City has further refined their customer categories to identify the following target audiences for communication:

- City staff
- Homeowners and renters
- Business owners
- Local Industries
- Property owners and managers
- School district administrators and teachers
- Elected officials and staff
- Environmental/public interest groups
- General public
- Local media
- Homeowners Associations
- Golf courses

#### Communications Interfaces and Tools

During normal and water shortage conditions, the City will utilize a comprehensive set of communication interface tools to engage water customers. The interface options and tools include, but are not limited to:

- Water Bill Communications
- Website Information and News Bulletins
- City's Newsletter
- Social Media Outreach
- Media Coverage (print and electronic)
- Publications and Handouts
- Presence at Local Events
- Mayor Public Service Announcements
- Direct Mailings
- School Education Programs
- Customer Billing Portal
- Direct Customer Communication

#### Communication Tactics and Implementation Schedule

The City understands their responsibility to be transparent, accountable, have a positive impact on the community, and provide actionable guidance in times of water shortage. Carefully developed and executed communication tactics and implementation schedule will establish trust and credibility for all stakeholders by clearly communicating expectations and responsibilities. Below is a description of the Water Shortage Communication Plan Tactics. These tactics will be implemented according to the schedule and objectives defined in Table 1.

This Water Shortage Communication Plan is designed to have a standard set of Tactics systematically align to the current Water Shortage Level. For example, information that may be educational during Shortage Level 0 will shift to specific status information and shortage level response action requirements, as defined in Section 3.4.1 of the WSCP and DWR Table 8-2, as water shortage levels increase from 1 to 6. In Shortage Level 0, shortage communication will include a general overview of water efficiency and water shortage levels so, in the event of a water shortage, the understanding and response requirements are familiar. As the Water Shortage Levels increase, messaging will align with specific shortage level response requirements and objectives.

#### Website

- City Website: Provide water efficiency information and resources on City website including water shortage level status.
- Water Shortage Indicator: develop a permanent image on the webpage that identifies water shortage level status. Image will be updated promptly when status level changes and will link to additional shortage level information.
- Promote MWDOC WaterSmart: Provide information and link directing viewers to MWDOC incentive programs.

#### Social Media

- Facebook: Post water efficiency information and shortage level status on City's Facebook page. This may include unique City content or reposting of regional messages and images.
- Instagram: Post water efficiency information and shortage level status on City's Instagram account. This may include unique City content or reposting of regional messages and images.
- Twitter: Tweet water efficiency information and water shortage level status on City's account. This may include unique City content or reposting of regional messages and images.

#### Digital and Print Media

 Flyers/Signage/Brochures: Create and provide informational materials on water efficiency actions, local/regional water resource awareness, and water shortage level status.

#### Media Relations

- News Stories/News Releases/Newsletters: Provide news releases with information regarding water shortage level and expected trends.
- Briefing Papers/Talking Points: Provide briefing papers to local media outlets such as newspapers, magazines, and other publications. This may also include social media posts and infographics.

#### Community Outreach

- Public Events: Promote water efficiency and water awareness at local events such as concerts in the park, disaster preparedness expos and other community events.
- o Promotional Giveaways: Provide promotional water efficiency devices or messaging materials (i.e. hats, stickers, mugs, etc.) promoting water efficiency and response.

#### Educational Outreach

- School Programs: Provide water resource and efficiency presentations for local schools, including information and response to water shortage levels.
- Residential Water Efficiency Educational Classes: Provide educational classes to community on topics such as finding and fixing leaks, irrigation program scheduling, waterwise vegetation, etc.
- Non-residential Water Efficiency Training Classes/Programs: Provide training programs to local irrigation and cooling tower service technicians on water efficient practices and water shortage level requirements.

#### City Water Efficiency Programs

- Rebate/Incentive Programs: Promote regional rebate and incentive programs for local water users. Messaging frequency increased as the shortage levels increase.
- Turf Removal: Promote regional rebate and incentive programs for local water users.
   Messaging frequency increased as the shortage levels increase.
- Landscape Design Assistance Residential: Promote free landscape design assistance program to help homeowners convert their existing landscaping to California friendly, waterefficient landscapes. Messaging frequency increased as the shortage levels increase.

 California Friendly Landscaping Classes: Promote free classes on California friendly landscape design, irrigation principles and maintenance. Messaging frequency increased as the shortage levels increase.

#### **Direct Customer Communication**

- Billing Inserts: Include billing inserts in water utility billings, including water shortage level status and response actions.
- Water Use Notifications: Include a comparison of actual water use compared to allocated water use and information regarding penalties.
- Neighborhood Canvasing: City staff and/or representatives will canvas neighborhoods to educate residents of water shortage status and response action requirements.

#### Partnerships/Regional Initiatives

- MET/MWODOC: Utilize regional messaging programs, messages, and resources to communicate with local water users.
- Coordinate messaging with other member agencies and public partnerships.
- MWDOC OC Water Smart: Direct local water users to regional incentive programs for water efficiency incentive opportunities.

#### Monitor, Evaluate, and Amend

The effectiveness of the Citv's Communication Plan depends on a large variety of factors, including technological advancements changes, the rise and fall of audience engagement, current news or media concentration, political changes in leadership and focus, and the weather. The Communication Plan will be effectiveness evaluated for and updated accordingly based on available metrics (i.e. website traffic) and stakeholder feedback.

	Water Shortage Communication Matrix							
	Wholesaler	Huntington Beach	Stakeholders					
Decision	Wholesaler Board of Directors	Huntington Beach City Council	Member Agencies Board/Council Community Groups					
Interagency Coordination	Water Shortage Team Leader	Huntington Beach Water Shortage Leader	Member Agencies and Community Group Leaders					
Support Staff	Coordination Support  Policy/Legal Public Outreach Logistics Monitoring	Huntington Beach Water Shortage Team  Engineering Planning Operations Communications Financial Urban Conservation Public Outreach	Member Agency Water Shortage Team Community Group Water Shortage Support					

Table 1: Water Shortage Communication Plan

Water Shortage Level	0	1	2	3	4	5	6	
Goal	Create an aw	Create an awareness of water shortage level status and encourage water efficiency from all citizens.						
Objective	Permanent Water Waste Prohibitions, Water Awareness	Compliance with response actions, 10% reduction in water use	Compliance with response actions, 20% reduction in water use	Compliance with response actions, 30% reduction in water use	Compliance with response actions, 40% reduction in water use	Compliance with response actions, 50% reduction in water use	Compliance with response actions, Essential Water Use only	
Outreach Strategies	<ol> <li>City Website</li> <li>Written and Print Media</li> <li>Social Media</li> <li>Community Outreach</li> <li>Educational Outreach</li> <li>Direct communication with high water users</li> <li>Communication with commercial/industrial water users</li> <li>City Water Efficiency Programs</li> <li>Water Use Communications</li> <li>Partnerships/Regional Initiatives</li> </ol>							
Tactics								
Website								
City Website	Х	X	X	X	X	X	X	
Water Shortage Indicator	Х	X	X	X	X	X	X	
Social Media								
Facebook	Х	X	X	X	X	X	X	
Instagram	Х	X	X	X	X	Χ	X	
Twitter	Х	X	Χ	X	Χ	X	X	
Digital and Print Media								
Flyers/Signage/Brochures	Χ	Χ	Χ	Χ	Χ	Χ	X	
Consumer Confidence Reports (CCRs)	Х	X	X	X	X	X	X	
Media Relations								

News Stories/News Releases/Newsletters	X	X	X	X	X	X	X
Community Outreach							
Public Events	Χ	X	X	X	X	Χ	X
Promotional Giveaways	Χ	X	X	X	X	X	X
Educational Outreach							
School Programs	Χ	X	X	X	X	X	X
Residential Water Efficiency Educational Classes	Х	X	X	X	X	X	X
City Water Efficiency Programs							
Rebate/Incentive Programs	X	X	X	X	X	X	X
Turf Removal	Χ	X	X	X	X	X	X
Water Surveys	Χ	X	X	X	X	Χ	X
California Friendly Landscaping Classes	X	X	X	X	X	X	X
Direct Customer Communication							
Billing Inserts	Χ	X	X	X	X	X	X
Water Use Notifications	Χ	X	X	X	X	X	X
Neighborhood Canvasing				X	X	Χ	X
Partnerships/Regional Initiatives	Χ	X	X	X	X	X	X
Message Frequency	Ongoing, regular messaging	Frequency es	calates depend	ing on water sh	ortage level an	d/or financial bu	udget.

# **Appendix D**

**Notice of Public Hearing** 

# A COUNTY CALL

#### **CITY OF HUNTINGTON BEACH**

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021
Bolsa Chica Conservancy
Attn: Ms. Grace Adams, Director
3842 Warner Avenue
Huntington Beach, California 92649

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

The City of Huntington Beach (City) is in the process of preparing and updating its 2020 Urban Water Management Plan (UWMP) in compliance with the Urban Water Management Planning Act and the Water Conservation Act of 2009, commonly referred to as SBX7-7. An update of the City's UWMP is required every five (5) years.

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If you have any input for the matters contained in this notice letter, require additional information, or would like to set up a meeting to discuss City's 2020 UWMP update, please contact me at (714) 536-5291, or by email at aferrigno@surfcity-hb.org.

Sincerely,

# AND TOWN CAN

### **CITY OF HUNTINGTON BEACH**

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021 County of Los Angeles Attn: Mr. Dean Logan, Registrar-Recorder/County Clerk 12400 Imperial Highway Norwalk, California 90650

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

The City of Huntington Beach (City) is in the process of preparing and updating its 2020 Urban Water Management Plan (UWMP) in compliance with the Urban Water Management Planning Act and the Water Conservation Act of 2009, commonly referred to as SBX7-7. An update of the City's UWMP is required every five (5) years.

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Sincerely

# TOUNTY CAY

### **CITY OF HUNTINGTON BEACH**

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021
County of Orange
Attn: Mr. Hugh Nguyen, Clerk Recorder
12 Civic Center Plaza, Room 101
Santa Ana, California 92701

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

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Sincerely

Andrew Ferrigno

# SE COUNTY CALLED

#### **CITY OF HUNTINGTON BEACH**

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021 California Department of Fish and Wildlife Attn: Ms. Kelly O'Reilly, Associate Marine Fisheries Biologist 3883 Ruffin Road San Diego, California 92123

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

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Sincerely,

# HUNTING TON

#### **CITY OF HUNTINGTON BEACH**

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021 City of Fountain Valley Attn: Mr. Rick Miller, City Clerk 10200 Slater Avenue Fountain Valley, California 92708

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

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Sincerely,

Andrew Ferrigno

# REAL COUNTY CAN

#### **CITY OF HUNTINGTON BEACH**

## Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021 Los Angeles County

Attn: Ms. Stephanie Pincetl, Department of Regional Planning Chair

320 West Temple Street, 13th Floor Los Angeles, California 90012

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

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Sincerely,

# ARTONITY CALLS

## **CITY OF HUNTINGTON BEACH**

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021 Orange County Parks Attn: Mr. David Hanson, Commission Chair 13042 Old Myford Road Irvine, California 92602

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

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Sincerely,

# BE COUNTY CA

#### **CITY OF HUNTINGTON BEACH**

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021
Orange County Public Works/Development Services
Attn: Mr. Colby Cataldi, Deputy Director
P.O. Box 4048
Santa Ana, California 92702

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

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Sincerely,

# A COUNTY CALLS

## **CITY OF HUNTINGTON BEACH**

#### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021 Municipal Water District of Orange County Attn: Mr. Rob Hunter, General Manager P.O. Box 20895 Fountain Valley, California 92708

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

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Sincerely,

Andrew Ferrigno

# TOUNTY CALL

#### **CITY OF HUNTINGTON BEACH**

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021 Orange County Sanitation District Attn: Ms. Maria Ayala, Clerk of the Board 10844 Ellis Avenue Fountain Valley, California 92708

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

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Sincerely,

# WINTINGTON PARTY COUNTY CAN

#### **CITY OF HUNTINGTON BEACH**

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021 County of Orange Attn: Mr. Mike Markus, General Manager P.O. Box 8300 Fountain Valley, California 92728

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

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Sincerely,

# SA TOURTY CAN

## **CITY OF HUNTINGTON BEACH**

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021 City of Seal Beach Attn: Ms. Jill Ingram, City Manager 211 Eighth Street Seal Beach, California 90740

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

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Sincerely,

# WINTING TO JOHN TO JOH

#### CITY OF HUNTINGTON BEACH

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021 Sunset Beach Sanitary District Attn: Chris Montana, Clerk of the Board P.O. Box 1185 Sunset Beach, California 90742

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

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Sincerely,

# THINTING TON

#### CITY OF HUNTINGTON BEACH

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021 Torch Operating Company 5775 Pacific Coast Highway Ventura, California 93001

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

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City is also considering an Addendum to the 2015 UWMP to demonstrate consistency with the Delta Plan Policy to Reduce Reliance on the Delta Through Improved Regional Water Self-Reliance (California Code Reg., tit. 23, § 5003). The 2015 UWMP Addendum and a copy of City's draft 2020 UWMP will be available for review on the City website <a href="https://www.huntingtonbeachca.gov/files/users/public\_works/urban-water-plan.pdf">https://www.huntingtonbeachca.gov/files/users/public\_works/urban-water-plan.pdf</a>] in spring of 2021, and City will subsequently hold noticed public hearings on the 2020 UWMP, Water Shortage Contingency Plan, and 2015 UWMP Addendum in advance of their proposed adoption.

City invites you to submit comments and consult with City regarding its 2020 UWMP update and 2015 UWMP Addendum. City anticipates holding a public comment period in spring 2021, with a public hearing planned during that time.

If you have any input for the matters contained in this notice letter, require additional information, or would like to set up a meeting to discuss City's 2020 UWMP update, please contact me at (714) 536-5291, or by email at aferrigno@surfcity-hb.org.

Sincerely.

# THIN TIME TO THE TOTAL THE

## **CITY OF HUNTINGTON BEACH**

### Public Works Department

Sean Crumby, PE Director of Public Works

March 9, 2021 City of Westminster Attn: Ms. Amanda Jensen, City Clerk 8200 Westminster Boulevard Westminster, California 92683

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

The City of Huntington Beach (City) is in the process of preparing and updating its 2020 Urban Water Management Plan (UWMP) in compliance with the Urban Water Management Planning Act and the Water Conservation Act of 2009, commonly referred to as SBX7-7. An update of the City's UWMP is required every five (5) years.

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Sincerely,



# HUGH NGUYEN CLERK-RECORDER

BIRTH AND DEATH RECORDS
FICTITIOUS BUSINESS NAMES
MARRIAGE LICENSES/RECORDS
NOTARY REGISTRATION
ORANGE COUNTY ARCHIVES
PASSPORTS
PROPERTY RECORDS

<u>CITY OF HUNTINGTON BEACH</u> <u>2000 MAIN ST, 3RD FLOOR</u> <u>HUNTINGTON BEACH, CA</u> 92648

Office of the Orange County Clerk-Recorder **Memorandum** 

SUBJECT: PUBLIC NOTICE

The attached notice was received, filed and a copy was posted on 03/12/2021

It remained posted for 30 (thirty) days.

Hugh Nguyen Clerk - Recorder In and for the County of Orange

By: Aguirre, Idalia

Deputy

#### Public Resource Code 21092.3

The notice required pursuant to Sections 21080.4 and 21092 for an <u>environmental impact report</u> shall be posted in the office of the County Clerk of each county \*\*\* in which the project will be located and shall remain posted for a period of 30 days. The notice required pursuant to Section 21092 for a negative declaration shall be so posted for a period of 20 days, unless otherwise required by law to be posted for 30 days. The County Clerk shall post notices within 24 hours of receipt.

#### Public Resource Code 21152

All notices filed pursuant to this section shall be available for public inspection, and shall be posted \*\*\* within 24 hours of receipt in the office of the County Clerk. Each notice shall remain posted for a period of 30 days.

\*\*\* Thereafter, the clerk shall return the notice to the local lead agency \*\*\* within a notation of the period it was posted. The local lead agency shall retain the notice for not less than nine months.

Additions or changes by underline; deletions by \*\*\*

March 9, 2021 County of Orange

#### CITY OF HUNTINGTON BEACH

#### Public Works Department

Sean Crumby, PE Director of Public Works

Attn: Mr. Hugh Nguyen, Clerk Recorder 12 Civic Center Plaza, Room 101 Santa Ana. California 92701

MAR 1 2 2021

ORANGE COUNTY CLERK-RECORDER DEPARTMENT

DEPUTY

Subject: City of Huntington Beach 2020 Urban Water Management Plan Update

The City of Huntington Beach (City) is in the process of preparing and updating its 2020 Urban Water Management Plan (UWMP) in compliance with the Urban Water Management Planning Act and the Water Conservation Act of 2009, commonly referred to as SBX7-7. An update of the City's UWMP is required every five (5) years.

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Sincerely.

Andrew Ferrigno

#### **The Orange County Register**

1771 S. Lewis Street Anaheim, CA 92805 714-796-2209

5190751

HUNTINGTON BEACH, CITY OF CITY CLERK DEPARTMENT 2000 MAIN ST HUNTINGTON BEACH, CA 92648-2763

# FILE NO. 6.1.21 UWMP PH AFFIDAVIT OF PUBLICATION

STATE OF CALIFORNIA,

County of Orange

SS.

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk of The Orange County Register, a newspaper of general circulation, published in the city of Santa Ana, County of Orange, and which newspaper has been adjudged to be a newspaper of general circulation by the Superior Court of the County of Orange, State of California, under the date of November 19, 1905, Case No. A-21046, that the notice, of which the annexed is a true printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

05/18/2021, 05/25/2021

I certify (or declare) under the penalty of perjury under the laws of the State of California that the foregoing is true and correct:

Executed at Anaheim, Orange County, California, on Date: May 25, 2021.

ridene Domo

Signature

PROOF OF PUBLICATION

Legal No. **0011462461** 

1

CITY OF HUNTINGTON BEACH
NOTICE OF PUBLIC HEARING
2020 URBAN WATER MANAGEMENT PLAN & WATER SHORTAGE
CONTINGENCY PLAN

NOTICE IS HEREBY GIVEN that the City of Huntington Beach ("City") will hold a public hearing on June 1, 2021, or as soon thereafter as the Agenda permits, to consider the City's proposed 2020 Urban Water
Management Plan ("UWMP"), 2020 Water Shortage Contingency Plan ("WSCP"), and Appendix L, an Addendum to its 2015 UWMP, in advance of their proposed adoption.

The public hearing is being held in accordance with the Urban Water Management Planning Act (California Water Code Sections 10610 through 10656; herein referred to as the "Act"). The Act requires "every urban water supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 care-feet of water annually," to prepare, adopt, and file a UWMP with the California Department of Water Resources and review and update its UWMP every five years. The purpose of the public hearing will be to solicit public comment prior to adoption of the proposed updated UWMP, WSCP, and Appendix L.

Copies of the proposed 2020 UWMP, 2020 WSCP, and Appendix L, an Addendum to the 2015 UWMP are available for public inspection at the Public Works Counter at City Hall, which is located at 2000 Main Street, on the first floor, during normal business hours, from 8:00 AM to 5:00 PM. It will also be available on the City's website at https://www.huntingtonbeachca.gov/.

City's public hearing is scheduled for June 1, 2021 at 6:00 PM as a part of the City Council Meeting.

The City offers several ways to view City Council meetings live or on-demand. Council meetings are livestreamed on HBTV Channel 3. In addition, live and archived meetings for on-demand viewing can be accessed from <a href="https://huntingtonbeach.legistar.com/calendar">https://huntingtonbeach.legistar.com/calendar</a>, or from any Roku or Apple device by downloading the Cablecast Screenweave App and searching for the City of Huntington Beach channel.

PUBLIC COMMENTS: At 6:00 PM, individuals wishing to attend the meeting to provide a comment on agendized or nonagendized items may enter Zoom Webinar ID 971 5413 0528 via computer device, or by phone at (669) 900-6833. The Webinar can be accessed here: https://huntingtonbeach.zoom.us//97154130528. Attendees utilizing computer devices to request to speak may select the "Raise Hand" feature in the Webinar Controls section. Attendees entering the Webinar and requesting to speak by phone can enter \*9 to enable the "Raise Hand" feature, followed by the \*6 prompt that unmutes their handheld device microphone. Once the Mayor opens Public Comments, speakers will be provided a 15-minute window to raise their hands, and will be prompted to speak when the City Clerk announces their name or the last three digits of their phone number. Speakers are encouraged, but not required to identify themselves by name. Each person may have up to 3 minutes to speak, but the Mayor, at her discretion, may reduce the time allowance if warranted by the volume of calls. The Public Comment process will only be active during designated portions of the agenda (Public Comments and/or Public Hearing). After a speaker concludes their comment, their microphone will be muted, but they may remain in Webinar attendance for the duration of the meeting.

Robin Estanislau, City Clerk City of Huntington Beach
2000 Main Street, 2nd Floor
Huntington Beach, California 92648
714-536-5227
http://huntingtonbeachca.gov/HBPublicComments/

Publication Dates: May 18thth and 25th, 2021 11462461

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# **Appendix E**

**Adopted WSCP Resolution** 

#### RESOLUTION NO. 2021-35

#### A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HUNTINGTON BEACH ADOPTING THE 2020 WATER SHORTAGE CONTINGENCY 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

Under state regulations, a Water Shortage Contingency Plan is required to be adopted every five years starting in 2020; and

In the semi-arid coastal plain of Southern California, it is imperative that every reasonable measure be taken to manage precious local and imported water supplies; and

A current Water Shortage Contingency Plan ("Plan") 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; and

The Plan is a general information document and compliments the plan of the Municipal Water District of Orange County (MWDOC) and the Regional Plan of the Metropolitan Water District of Southern California; and

The purpose of Huntington Beach's Plan is to address the effects of water shortages within the City's boundaries and suggests a framework for developing a mechanism, in concert with neighboring cities, to cope with short term as well as chronic water supply deficiencies; and

Huntington Beach's Plan will be periodically updated to reflect changes in water supply trends and conservation policies within the boundaries of Huntington Beach,

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

- 1. That the City Council of the City of Huntington Beach hereby acknowledges the essential nature of water conservation within its boundaries as described herein; and
- 2. That the City's 2020 Water Shortage Contingency Plan, as shown on the attached Exhibit "A," is hereby approved and adopted, and the City will implement the Plan as discussed therein.

	Council of the City of Huntington Beach at a
regular meeting thereof held on the da	y of
	Li Mayor
REVIEWED AND APPROVED:	APPROVED AS TO FORM:
( till	Mil 2
City Manager	2. City Attorney
	INITIATED AND APPROVED:
	Director of Public Works

# **EXHIBIT "A"**

# **2020 WATER SHORTAGE CONTIGENCY PLAN**





Jime 2021

# 2020 Water Shortage Confingency Plan Final Draft

## 2020 Water Shortage Contingency Plan

June 2021

#### Prepared By:

Arcadis U.S., Inc.
320 Commerce, Suite 200
Irvine
California 92602
Phone: 714 730 9052
https://www.arcadis.com

Maddaus Water Management, Inc. Danville, California 94526 Sacramento, California 95816 www.maddauswater.com

#### Our Ref:

30055240

Lisa Maddaus, PE Technical Lead Maddaus Water Management, Inc.

Sarina Sriboonlue, PE Project Manager Arcadis U.S., Inc.

#### Prepared For:

City of Huntington Beach 2000 Main Street Huntington Beach California 92648 Phone: 714 536 5431

Phone: 714 536 5431
https://www.huntingtonbeachca.gov

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# **Appendices**

**DWR Submittal Tables** Appendix A.

Table 8-1: Water Shortage Contingency Plan Levels

**Table 8-2: Demand Reduction Actions** 

**Table 8-3: Supply Augmentation and Other Actions** 

Huntington Beach Municipal Code Chapter 14.18 Water Management Program Appendix B.

Appendix C. Water Shortage Communication Plan

Appendix D. **Notice of Public Hearing** 

**Adopted WSCP Resolution** Appendix E.

# **Acronyms and Abbreviations**

% Percent
AF Acre-Feet

Annual Assessment Annual Water Supply and Demand Assessment

BPP Basin Production Percentage
City City of Huntington Beach
CRA Colorado River Aqueduct
DDW Division of Drinking Water
DRA Drought Risk Assessment
DVL Diamond Valley Lake

DWR California Department of Water Resources

EAP Emergency Operations Center Actions Plan

EOC Emergency Operation Center
EOP Emergency Operations Plan

FY Fiscal Year

GSP Groundwater Sustainability Plan

HMP Hazard Mitigation Plan

IRP Integrated Water Resource Plan

M&I Municipal and Industrial
MCL Maximum Contaminant Level

MET Metropolitan Water District of Southern California

Metropolitan Act Metropolitan Water District Act

MGD Million Gallons per Day

MWDOC Municipal Water District of Orange County
NIMS National Incident Management System
OC Basin Orange County Groundwater Basin

OCWD Orange County Water District

PFAS Per- and Polyfluoroalkyl Substances

PFOA Perfluorooctanoic Acid
PFOS Perfluorooctane Sulfonate

PPT Parts Per Trillion

Producer Groundwater Producer

RL Response Level

SEMS California Standardized Emergency Management System

Supplier Urban Water Supplier SWP State Water Project

SWRCB California State Water Resources Control Board

UWMP Urban Water Management Plan
WARN Water Agency Response Network

Water Code California Water Code

#### Huntington Beach 2020 Water Shortage Contingency Plan

Water Emergency Response Organization of Orange County WEROC

Water Supply Allocation Plan WSAP WSCP Water Shortage Contingency Plan

Water Surplus and Drought Management Plan WSDM

#### 1 INTRODUCTION AND WSCP OVERVIEW

The Water Shortage Contingency Plan (WSCP) is a strategic planning document designed to prepare for and respond to water shortages. This Water Shortage Contingency Plan (WSCP) complies with California Water Code (Water Code) Section 10632, which requires that every urban water supplier (Supplier) shall prepare and adopt a WSCP as part of its Urban Water Management Plan (UWMP). This level of detailed planning and preparation is intended to help maintain reliable supplies and reduce the impacts of supply interruptions.

The WSCP is the City of Huntington Beach (City)'s operating manual that is used to prevent catastrophic service disruptions through proactive, rather than reactive, management. A water shortage, when water supply available is insufficient to meet the normally expected customer water use at a given point in time, may occur due to a number of reasons, such as drought, climate change, and catastrophic events. This plan provides a structured guide for the City to deal with water shortages, incorporating prescriptive information and standardized action levels, along with implementation actions in the event of a catastrophic supply interruption. This way, if and when shortage conditions arise, the City's governing body, its staff, and the public can easily identify and efficiently implement pre-determined steps to manage a water shortage. A well-structured WSCP allows real-time water supply availability assessment and structured steps designed to respond to actual conditions, to allow for efficient management of any shortage with predictability and accountability.

The WSCP also describes the City's procedures for conducting an Annual Water Supply and Demand Assessment (Annual Assessment) that is required by Water Code Section 10632.1 and is to be submitted to the California Department of Water Resources (DWR) on or before July 1 of each year, or within 14 days of receiving final allocations from the State Water Project (SWP), whichever is later. The City's 2020 WSCP is included as an appendix to its 2020 UWMP which will be submitted to DWR by July 1, 2021. However, this WSCP is created separately from the City's 2020 UWMP and can be amended, as needed, without amending the UWMP. Furthermore, the Water Code does not prohibit a Supplier from taking actions not specified in its WSCP, if needed, without having to formally amend its UWMP or WSCP.

# 1.1 Water Shortage Contingency Plan Requirements and Organization

The WSCP provides the steps and water shortage response actions to be taken in times of water shortage conditions. WSCP has prescriptive elements, such as an analysis of water supply reliability; the water shortage response actions for each of the six standard water shortage levels that correspond to water shortage percentages ranging from 10% to greater than 50%; an estimate of potential to close supply gap for each measure; protocols and procedures to communicate identified actions for any current or predicted water shortage conditions; procedures for an Annual Assessment; monitoring and reporting requirements to determine customer compliance; and reevaluation and improvement procedures for evaluating the WSCP.

This WSCP is organized into three main sections, with Section 3 aligned with Water Code Section 16032 requirements.

Section 1 Introduction and WSCP Overview gives an overview of the WSCP fundamentals.

Section 2 Background provides a background on the City of Huntington Beach's water service area.

Section 3 Water Shortage Contingency Preparedness and Response Planning

**Section 3.1 Water Supply Reliability Analysis** provides a summary of the water supply analysis and water reliability findings from the 2020 UWMP.

Section 3.2 Annual Water Supply and Demand Assessment Procedures provide a description of procedures to conduct and approve the Annual Assessment.

Section 3.3 Six Standard Water Shortage Stages explains the WSCP's six standard water shortage levels corresponding to progressive ranges of up to 10, 20, 30, 40, 50, and more than 50% shortages.

Section 3.4 Shortage Response Actions describes the WSCP's shortage response actions that align with the defined shortage levels.

**Section 3.5 Communication Protocols** addresses communication protocols and procedures to inform customers, the public, interested parties, and local, regional, and state governments, regarding any current or predicted shortages and any resulting shortage response actions.

**Section 3.6 Compliance and Enforcement** describes customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions.

**Section 3.7 Legal Authorities** is a description of the legal authorities that enable the City to implement and enforce its shortage response actions.

Section 3.8 Financial Consequences of the WSCP provides a description of the financial consequences of and responses for drought conditions.

Section 3.9 Monitoring and Reporting describes monitoring and reporting requirements and procedures that ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance and to meet state reporting requirements.

**Section 3.10 WSCP Refinement Procedures** addresses reevaluation and improvement procedures for monitoring and evaluating the functionality of the WSCP.

**Section 3.11 Special Water Feature Distinction** is a required definition for inclusion in a WSCP per the Water Code.

**Section 3.12 Plan Adoption, Submittal, and Implementation** provides a record of the process the City followed to adopt and implement its WSCP.

### 1.2 Integration with Other Planning Efforts

As a retail water supplier in Orange County, the City considered other key entities in the development of this WSCP, including the Municipal Water District of Orange County ([MWDOC] (regional wholesale supplier)), the Metropolitan Water District of Southern California ([MET] (regional wholesaler for Southern California and the direct supplier of imported water to MWDOC)), and Orange County Water District ([OCWD] (Orange County Groundwater Basin manager and provider of recycled water in North Orange

County)). As a MWDOC member agency, the City also developed this WSCP with input from several coordination efforts led by MWDOC.

Some of the key planning and reporting documents that were used to develop this WSCP are:

- MWDOC's 2020 UWMP provides the basis for the projections of the imported supply availability over the next 25 years for the City's service area.
- MWDOC's 2020 WSCP provides a water supply availability assessment and structured steps
  designed to respond to actual conditions that will help maintain reliable supplies and reduce the
  impacts of supply interruptions.
- 2021 Orange County Water Demand Forecast for MWDOC and OCWD Technical Memorandum (Demand Forecast TM) provides the basis for water demand projections for MWDOC's member agencies as well as Anaheim, Fullerton, and Santa Ana.
- MET's 2020 Integrated Water Resources Plan (IRP) is a long-term planning document to ensure water supply availability in Southern California and provides a basis for water supply reliability in Orange County.
- MET's 2020 UWMP was developed as a part of the 2020 IRP planning process and was used by MWDOC as another basis for the projections of supply capability of the imported water received from MET.
- MET's 2020 WSCP provides a water supply assessment and guide for MET's intended actions during water shortage conditions.
- OCWD's 2019-20 Engineer's Report provides information on the groundwater conditions and basin utilization of the Orange County Groundwater Basin (OC Basin).
- OCWD's 2017 Basin 8-1 Alternative is an alternative to the Groundwater Sustainability Plan
  (GSP) for the OC Basin and provides significant information related to sustainable management
  of the basin in the past and hydrogeology of the basin, including groundwater quality and basin
  characteristics.
- 2020 Local Hazard Mitigation Plan (HMP) provides the basis for the seismic risk analysis of the water system facilities.
- Orange County Local Agency Formation Commission's 2020 Municipal Service Review for MWDOC Report provides a comprehensive service review of the municipal services provided by MWDOC.
- Water Master Plan and Sewer Master Plan of the City provide information on water infrastructure planning projects and plans to address any required water system improvements.
- Groundwater Management Plans provide the groundwater sustainability goals for the basins in the MWDOC's service area and the programs, actions, and strategies activities that support those goals.

#### 2 BACKGROUND INFORMATION

The City was incorporated in 1909 and is governed by a seven-member elected City Council. In 1964, the City's Water Division was established as a Division of the Public Works Department. The City is a predominantly residential community located along the California coastline in Orange County. It was incorporated in 1909 and is a charter city. From 1936 to 1964, the water system serving the City was owned and operated by the Southern California Water Company. In 1964, the City purchased the private system and the City's Water Division was established as a Division of the Public Works Department. In 2003, the Public Works Wastewater Section was incorporated into the Water Division to form the Utilities Division.

#### 2.1 City Service Area

The City is located 35 miles southeast of Los Angeles and 90 miles northwest of San Diego along the Southern California Coast of Orange County. The City's water service area is 27.3 square miles. The City is generally flat, with elevations ranging from a low of about five feet below sea level to 120 feet above sea level. The City's Public Works Department operates four storage and distribution reservoirs with a combined capacity of 55 million gallons, four booster stations, eight active groundwater wells and manages a 6,31-mile water mains system with 53,091 service connections. The City also has 71 parks and public facilities and 8.5 miles of beaches. The City formerly supplied water to Sunset Beach, which is approximately 68 acres of land located off of the Pacific Coast Highway near Huntington Harbor. A map of the City's water service area is shown on Figure 2-1.

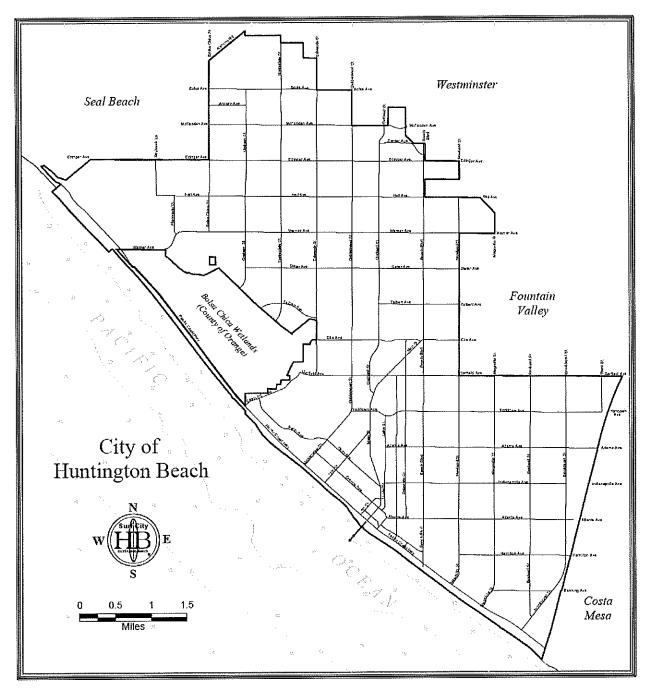


Figure 2-1: City Service Area

#### 2.2 Relationship to Wholesalers

MET: MET is the largest water wholesaler for domestic and municipal uses in California, serving approximately 19 million customers. MET wholesales imported water supplies to 26 member cities and water districts in six Southern California counties. Its service area covers the Southern California coastal plain, extending approximately 200 miles along the Pacific Ocean from the City of Oxnard in the north to

the international boundary with Mexico in the south. This encompasses 5,200 square miles and includes portions of Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura counties. Approximately 85% of the population from the aforementioned counties reside within MET's boundaries.

MET is governed by a Board of Directors comprised of 38 appointed individuals with a minimum of one representative from each of MET's 26 member agencies. The allocation of directors and voting rights are determined by each agency's assessed valuation. Each member of the Board shall be entitled to cast one vote for each ten million dollars (\$10,000,000) of assessed valuation of property taxable for district purposes, in accordance with Section 55 of the Metropolitan Water District Act (Metropolitan Act). Directors can be appointed through the chief executive officer of the member agency or by a majority vote of the governing board of the agency. Directors are not compensated by MET for their service.

MET is responsible for importing water into the region through its operation of the Colorado River Aqueduct (CRA) and its contract with the State of California for SWP supplies. Member agencies receive water from MET through various delivery points and pay for service through a rate structure made up of volumetric rates, capacity charges and readiness to serve charges. Member agencies provide estimates of imported water demand to MET annually in April regarding the amount of water they anticipate they will need to meet their demands for the next five years.

**MWDOC:** In Orange County, MWDOC and the Cities of Anaheim, Fullerton, and Santa Ana are MET member agencies that purchase imported water directly from MET. Furthermore, MWDOC purchases both treated potable and untreated water from MET to supplement its retail agencies' local supplies.

The City is one of MWDOC's 28 member agencies receiving imported water from MWDOC. The City's location within MWDOC's service area is shown on Figure 2-2.

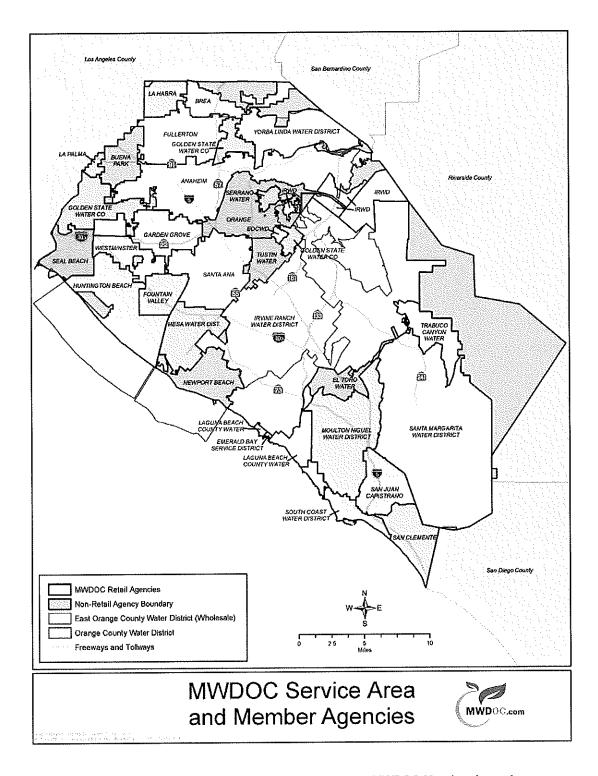


Figure 2-2: Regional Location of the City and Other MWDOC Member Agencies

#### 2.3 Relationship with Wholesaler Water Shortage Planning

The WSCP is designed to be consistent with MET's Water Shortage and Demand Management (WSDM) Plan, MWDOC's Water Supply Allocation Plan (WSAP), and other emergency planning efforts as described below. MWDOC's WSAP is integral to the WSCP's shortage response strategy in the event that MET or MWDOC determines that supply augmentation (including storage) and lesser demand reduction measures would not be sufficient to meet a projected shortage levels needed to meet demands.

#### 2.3.1 MET Water Surplus and Drought Management Plan

MET evaluates the level of supplies available and existing levels of water in storage to determine the appropriate management stage annually. Each stage is associated with specific resource management actions to avoid extreme shortages to the extent possible and minimize adverse impacts to retail customers should an extreme shortage occur. The sequencing outlined in the WSDM Plan reflects anticipated responses towards MET's existing and expected resource mix.

Surplus stages occur when net annual deliveries can be made to water storage programs. Under the WSDM Plan, there are four surplus management stages that provides a framework for actions to take for surplus supplies. Deliveries in Diamond Valley Lake (DVL) and in SWP terminal reservoirs continue through each surplus stage provided there is available storage capacity. Withdrawals from DVL for regulatory purposes or to meet seasonal demands may occur in any stage.

The WSDM Plan distinguishes between shortages, severe shortages, and extreme shortages. The differences between each term are listed below.

- Shortage: MET can meet full-service demands and partially meet or fully meet interruptible demands using stored water or water transfers as necessary.
- Severe Shortage: MET can meet full-service demands only by using stored water, transfers, and possibly calling for extraordinary conservation.
- Extreme Shortage: MET must allocate available supply to full-service customers.

There are six shortage management stages to guide resource management activities. These stages are defined by shortfalls in imported supply and water balances in MET's storage programs. When MET must make net withdrawals from storage to meet demands, it is considered to be in a shortage condition. Figure 2-3 gives a summary of actions under each surplus and shortage stages when an allocation plan is necessary to enforce mandatory cutbacks. The goal of the WSDM plan is to avoid Stage 6, an extreme shortage (MET, 1999).

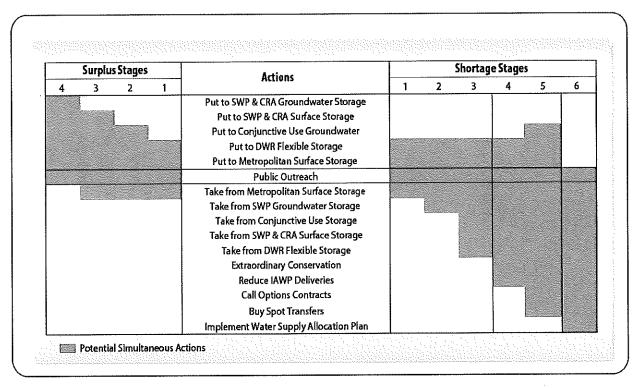


Figure 2-3: Resource Stages, Anticipated Actions, and Supply Declarations

Source: MET, 1999.

MET's Board of Directors adopted a Water Supply Condition Framework in June 2008 in order to communicate the urgency of the region's water supply situation and the need for further water conservation practices. The framework has four conditions, each calling increasing levels of conservation. Descriptions for each of the four conditions are listed below:

- Baseline Water Use Efficiency: Ongoing conservation, outreach, and recycling programs to achieve permanent reductions in water use and build storage reserves.
- Condition 1 Water Supply Watch: Local agency voluntary dry-year conservation measures and use of regional storage reserves.
- Condition 2 Water Supply Alert: Regional call for cities, counties, member agencies, and retail water
  agencies to implement extraordinary conservation through drought ordinances and other measures to
  mitigate use of storage reserves.
- Condition 3 Water Supply Allocation: Implement MET's WSAP.

As noted in Condition 3, should supplies become limited to the point where imported water demands cannot be met, MET will allocate water through the WSAP (MET, 2021a).

#### 2.3.2 MET Water Supply Allocation Plan

MET's imported supplies have been impacted by a number of water supply challenges as noted earlier. In case of extreme water shortage within the MET service area is the implementation of its WSAP.

MET's Board of Directors originally adopted the WSAP in February 2008 to fairly distribute a limited amount of water supply and applies it through a detailed methodology to reflect a range of local conditions and needs of the region's retail water consumers (MET, 2021a).

The WSAP includes the specific formula for calculating member agency supply allocations and the key implementation elements needed for administering an allocation. MET's WSAP is the foundation for the urban water shortage contingency analysis required under Water Code Section 10632 and is part of MET's 2020 UWMP.

MET's WSAP was developed in consideration of the principles and guidelines in MET's 1999 WSDM Plan with the core objective of creating an equitable "needs-based allocation". The WSAP's formula seeks to balance the impacts of a shortage at the retail level while maintaining equity on the wholesale level for shortages of MET supplies of greater than 50% supply shortage. The formula takes into account a number of factors, such as the impact on retail customers, growth in population, changes in supply conditions, investments in local resources, demand hardening aspects of water conservation savings, recycled water, extraordinary storage and transfer actions, and groundwater imported water needs.

The formula is calculated in three steps: 1) based period calculations, 2) allocation year calculations, and 3) supply allocation calculations. The first two steps involve standard computations, while the third step contains specific methodology developed for the WSAP.

Step 1: Base Period Calculations – The first step in calculating a member agency's water supply allocation is to estimate their water supply and demand using a historical based period with established water supply and delivery data. The base period for each of the different categories of supply and demand is calculated using data from the two most recent non-shortage years.

Step 2: Allocation Year Calculations – The next step in calculating the member agency's water supply allocation is estimating water needs in the allocation year. This is done by adjusting the base period estimates of retail demand for population growth and changes in local supplies.

Step 3: Supply Allocation Calculations – The final step is calculating the water supply allocation for each member agency based on the allocation year water needs identified in Step 2.

In order to implement the WSAP, MET's Board of Directors makes a determination on the level of the regional shortage, based on specific criteria, typically in April. The criteria used by MET includes current levels of storage, estimated water supplies conditions, and projected imported water demands. The allocations, if deemed necessary, go into effect in July of the same year and remain in effect for a 12-month period. The schedule is made at the discretion of the Board of Directors (MET, 2021b)

As demonstrated by the findings in MET's 2020 UWMP both the Water Reliability Assessment and the Drought Risk Assessment (DRA) demonstrate that MET is able to mitigate the challenges posed by hydrologic variability, potential climate change, and regulatory risk on its imported supply sources through the significant storage capabilities it has developed over the last two decades, both dry-year and emergency storage (MET, 2021a).

Although MET's 2020 UWMP forecasts that MET will be able to meet projected imported demands throughout the projected period from 2025 to 2045, uncertainty in supply conditions can result in MET needing to implement its WSAP to preserve dry-year storage and curtail demands (MET, 2021b).

#### 2.3.3 MWDOC Water Supply Allocation Plan

To prepare for the potential allocation of imported water supplies from MET, MWDOC worked collaboratively with its 28 retail agencies to develop its own WSAP that was adopted in January 2009 and amended in 2016. The MWDOC WSAP outlines how MWDOC will determine and implement each of its retail agency's allocation during a time of shortage.

The MWDOC WSAP uses a similar method and approach, when reasonable, as that of the MET's WSAP. However, MWDOC's plan remains flexible to use an alternative approach when MET's method produces a significant unintended result for the member agencies. The MWDOC WSAP model follows five basic steps to determine a retail agency's imported supply allocation.

**Step 1: Determine Baseline Information** – The first step in calculating a water supply allocation is to estimate water supply and demand using a historical based period with established water supply and delivery data. The base period for each of the different categories of demand and supply is calculated using data from the last two non-shortage years.

**Step 2: Establish Allocation Year Information** – In this step, the model adjusts for each retail agency's water need in the allocation year. This is done by adjusting the base period estimates for increased retail water demand based on population growth and changes in local supplies.

Step 3: Calculate Initial Minimum Allocation Based on MET's Declared Shortage Level – This step sets the initial water supply allocation for each retail agency. After a regional shortage level is established, MWDOC will calculate the initial allocation as a percentage of adjusted Base Period Imported water needs within the model for each retail agency.

Step 4: Apply Allocation Adjustments and Credits in the Areas of Retail Impacts and Conservation—In this step, the model assigns additional water to address disparate impacts at the retail level caused by an across-the-board cut of imported supplies. It also applies a conservation credit given to those agencies that have achieved additional water savings at the retail level as a result of successful implementation of water conservation devices, programs and rate structures.

Step 5: Sum Total Allocations and Determine Retail Reliability – This is the final step in calculating a retail agency's total allocation for imported supplies. The model sums an agency's total imported allocation with all of the adjustments and credits and then calculates each agency's retail reliability compared to its Allocation Year Retail Demand.

The MWDOC WSAP includes additional measures for plan implementation, including the following (MWDOC, 2016):

- Appeal Process An appeals process to provide retail agencies the opportunity to request a change
  to their allocation based on new or corrected information. MWDOC anticipates that under most
  circumstances, a retail agency's appeal will be the basis for an appeal to MET by MWDOC.
- Melded Allocation Surcharge Structure At the end of the allocation year, MWDOC would only
  charge an allocation surcharge to each retail agency that exceeded their allocation if MWDOC
  exceeds its total allocation and is required to pay a surcharge to MET. MET enforces allocations to
  retail agencies through an allocation surcharge to a retail agency that exceeds its total annual
  allocation at the end of the 12-month allocation period. MWDOC's surcharge would be assessed

according to the retail agency's prorated share (acre-feet over usage) of MWDOC amount with MET. Surcharge funds collected by MET will be invested in its Water Management Fund, which is used to in part to fund expenditures in dry-year conservation and local resource development.

- Tracking and Reporting Water Usage MWDOC will provide each retail agency with water use
  monthly reports that will compare each retail agency's current cumulative retail usage to their
  allocation baseline. MWDOC will also provide quarterly reports on its cumulative retail usage versus
  its allocation baseline.
- Timeline and Option to Revisit the Plan The allocation period will cover 12 consecutive months
  and the Regional Shortage Level will be set for the entire allocation period. MWDOC only anticipates
  calling for allocation when MET declares a shortage; and no later than 30 days from MET's
  declaration will MWDOC announce allocation to its retail agencies.

# 3 WATER SHORTAGE CONTINGENCY PREPAREDNESS AND RESPONSE PLANNING

The City's WSCP is a detailed guide of how the City intends to act in the case of an actual water shortage condition. The WSCP anticipates a water supply shortage and provides pre-planned guidance for managing and mitigating a shortage. Regardless of the reason for the shortage, the WSCP is based on adequate details of demand reduction and supply augmentation measures that are structured to match varying degrees of shortage will ensure the relevant stakeholders understand what to expect during a water shortage situation.

#### 3.1 Water Supply Reliability Analysis

Per Water Code Section 10632 (a)(1), the WSCP shall provide an analysis of water supply reliability conducted pursuant to Water Code Section 10635, and the key issues that may create a shortage condition when looking at the City's water asset portfolio.

Understanding water supply reliability, factors that could contribute to water supply constraints, availability of alternative supplies, and what effect these have on meeting customer demands provides the City with a solid basis on which to develop appropriate and feasible response actions in the event of a water shortage. In the 2020 UWMP, the City conducted a Water Reliability Assessment to compare the total water supply sources available to the water supplier with long-term projected water use over the next 20 years, in five-year increments, for a normal water year, a single dry water year, and a drought lasting five consecutive water years (Huntington Beach, 2021).

The City also conducted a DRA to evaluate a drought period that lasts five consecutive water years starting from the year following when the assessment is conducted. An analysis of both assessments determined that the City is capable of meeting all customers' demands from 2021 through 2045 for a normal year, a single dry year, and a drought lasting five consecutive years with significant imported water supplemental dedicated drought supplies from MWDOC/MET and ongoing conversation program efforts. The City also has added reliability through receiving the majority of its water supply from groundwater from the OC Basin and supplemental imported supplies from MET/MWDOC. As a result, there is no projected shortage condition due to drought that will trigger customer demand reduction actions until MWDOC notifies the City of insufficient imported supplies. More information is available in the City's 2020 UWMP Section 6 and 7 (Huntington Beach, 2021).

### 3.2 Annual Water Supply and Demand Assessment Procedures

Per Water Code Section 10632.1, the City will conduct an Annual Assessment pursuant to subdivision (a) of Section 10632 and by July 1st of each year, beginning in 2022, submit an Annual Assessment with information for anticipated shortage, triggered shortage response actions, compliance and enforcement actions, and communication actions consistent with the Supplier's WSCP.

The City must include in its WSCP the procedures used for conducting an Annual Assessment. The Annual Assessment is a determination of the near-term outlook for supplies and demands and how a perceived shortage may relate to WSCP shortage stage response actions in the current calendar year. This determination is based on information available to the City at the time of the analysis. Starting in 2022, the Annual Assessment will be due by July 1 of every year.

This section documents the decision-making process required for formal approval of the City's Annual Assessment determination of water supply reliability each year and the key data inputs and the methodologies used to evaluate the water system reliability for the coming year, while considering that the year to follow would be considered dry.

#### 3.2.1 Decision-Making Process

The following decision-making process describes the functional steps that the City will take to formally approve the Annual Assessment determination of water supply reliability each year.

#### 3.2.1.1 City Steps to Approve the Annual Assessment Determination

The Annual Assessment will be predicated on the OCWD Basin Production Percentage (BPP) and on MWDOCs Annual Assessment outcomes.

The City is supplied groundwater from OCWD. The OC Basin is not adjudicated and as such, pumping from the OC Basin is managed through a process that uses financial incentives to encourage groundwater producers (Producers) to pump a sustainable amount of water. The framework for the financial incentives is based on establishing the BPP, the percentage of each Producer's total water supply that comes from groundwater pumped from the OC Basin. The BPP is set uniformly for all Producers by OCWD on an annual basis in by OCWD Board of Directors. Based on the projected water demand and water modeled water supply, over the long-term, OCWD anticipates sustainably supporting a BPP of 85%; however, volumes of groundwater and imported water may vary depending on OCWD's actual BPP projections. A supply reduction that may result from the annual BPP projection will be included in the Annual Assessment.

While the City's primary source of water is OCWD groundwater, any remaining source to meet retail demands comes from the purchase of imported water from MWDOC. MWDOC surveys its member agencies annually for anticipated water demands and supplies for the upcoming year. MWDOC utilizes this information to plan for the anticipated imported water supplies for the MWDOC service area. This information is then shared and coordinated with MET and is incorporated into their analysis of their service area's annual imported water needs. Based on the year's supply conditions and WSDM actions, MET will present a completed Annual Assessment for its member agencies' review from which they will then seek Board approval in April of each year. Additionally, MET expects that any triggers or specific shortage response actions that result from the Annual Assessment would be approved by their Board at that time. Based upon MET's Assessment and taking into consideration information provided to MWDOC through the annual survey, MWDOC will provide an anticipated estimate of imported supplies for the City to incorporate into the Annual Assessment.

The Annual Assessment findings will determine the approval process. If a shortage is identified, the Annual Assessment will be taken to City Council for approval and formally submitted to DWR prior to the July 1 deadline. If no shortage is identified, the Annual Assessment will be approved by the Public Works Director, or designee, and formally submitted to DWR prior to the July 1 deadline.

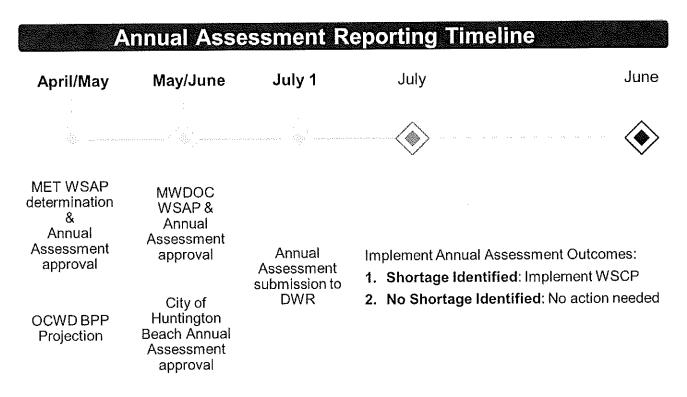


Figure 3-1: Annual Assessment Reporting Timeline

#### 3.2.2 Data and Methodologies

The following paragraphs document the key data inputs and methodologies that are used to evaluate the water system reliability for the coming year, while considering that the year to follow would be considered dry.

#### 3.2.2.1 Assessment Methodology

The City will evaluate water supply reliability for the current year and one dry year for the purpose of the Annual Assessment. The Annual Assessment determination will be based on considerations of unconstrained water demand, local water supplies, MWDOC imported water supplies, planned water use, and infrastructure considerations. The balance between projected in-service area supplies, coupled with MWDOC imported supplies, and anticipated unconstrained demand will be used to determine what, if any, shortage stage is expected under the WSCP framework as presented in Figure 3-2. The WSCP's standard shortage stages are defined in terms of shortage percentages. Shortage percentages will be calculated by dividing the difference between water supplies and unconstrained demand by total unconstrained demand. This calculation will be performed separately for anticipated current year conditions and for assumed dry year conditions.

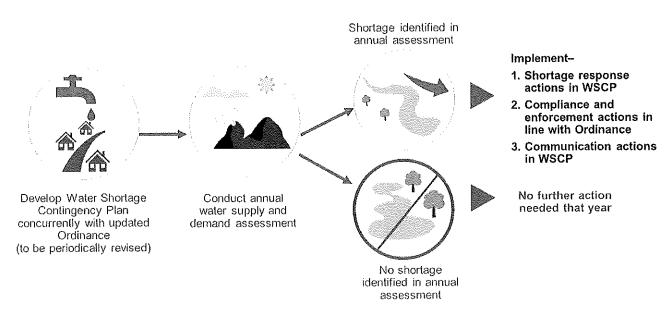


Figure 3-2: Water Shortage Contingency Plan Annual Assessment Framework

#### 3.2.2.2 Locally Applicable Evaluation Criteria

Within Orange County, there are no significant local applicable criteria that directly affect reliability. Through the years, the water agencies in Orange County have made tremendous efforts to integrate their systems to provide flexibility to interchange with different sources of supplies. There are emergency agreements in place to ensure all parts of the County have an adequate supply of water. In the northern part of the County, agencies have the ability to meet a majority of their demands through groundwater with very little limitation, except for the OCWD BPP.

The City will also continue to monitor emerging supply and demand conditions related to supplemental imported water from MWDOC/MET and take appropriate actions consistent with the flexibility and adaptiveness inherent to the WSCP. The City's Annual Assessment was based on the City's service area, water sources, water supply reliability, and water use as described in Water Code Section 10631, including available data from state, regional, or local agency population, land use development, and climate change projections within the service area of the City. Some conditions that affect MWDOC's wholesale supply and demand, such as groundwater replenishment, surface water and local supply production, can differ significantly from earlier projections throughout the year.

If a major earthquake on the San Andreas Fault occurs, it has the potential to damage all three key regional water aqueducts and disrupt imported supplies for up to six months. The region would likely impose a water use reduction ranging from 10-25% until the system is repaired. However, MET has taken proactive steps to handle such disruption, such as constructing DVL, which mitigates potential impacts. DVL, along with other local reservoirs, can store a six to twelve-month supply of emergency water (MET, 2021b).

#### 3.2.2.3 Water Supply

As detailed in the City's 2020 UWMP, the City meets all of its customers' demands with a combination of local groundwater from the OC Basin and imported water from MWDOC/MET. The City's main source of water supply is groundwater, with imported water making up the rest of the City's water supply portfolio. In fiscal year (FY) 2019-20, the City relied on 70% groundwater and 30% imported water. It is projected that by 2045, the water

supply portfolio will change to approximately 85% groundwater and 15% imported water, reflecting the increase in OCWD's BPP to 85% beginning in 2025 (Huntington Beach, 2021).

#### 3.2.2.4 Unconstrained Customer Demand

The WSCP and Annual Assessment define unconstrained demand as expected water use prior to any projected shortage response actions that may be taken under the WSCP. Unconstrained demand is distinguished from observed demand, which may be constrained by preceding, ongoing, or future actions, such as emergency supply allocations during a multi-year drought. WSCP shortage response actions to constrain demand are inherently extraordinary; routine activities such as ongoing conservation programs and regular operational adjustments are not considered as constraints on demands.

The City's DRA reveals that its supply capabilities are expected to balance anticipated total water use and supply, assuming a five-year consecutive drought from FY 2020-21 through FY 2024-25 (Huntington Beach, 2021). Water demands in a five-year consecutive drought are calculated as a 6% increase in water demand above a normal year for each year of the drought (CDM Smith, 2021).

#### 3.2.2.5 Planned Water Use for Current Year Considering Dry Subsequent Year

Water Code Section 10632(a)(2)(B)(ii) requires the Annual Assessment to determine "current year available supply, considering hydrological and regulatory conditions in the current year and one dry year."

The Annual Assessment will include two separate estimates of City's annual water supply and unconstrained demand using: 1) current year conditions, and 2) assumed dry year conditions. Accordingly, the Annual Assessment's shortage analysis will present separate sets of findings for the current year and dry year scenarios. The Water Code does not specify the characteristics of a dry year, allowing discretion to the Supplier. The City will use its discretion to refine and update its assumptions for a dry year scenarios in each Annual Assessment as information becomes available and in accordance with best management practices.

Supply and demand analyses for the single-dry year case was based on conditions affecting the SWP as this supply availability fluctuates the most among MET's, and therefore MWDOC and the City's, sources of supply. FY 2013-14 was the single driest year for SWP supplies with an allocation of 5% to Municipal and Industrial (M&I) uses. Unique to this year, the 5% SWP allocation was later reduced to 0%, before ending up at its final allocation of 5%, highlight the stressed water supplies for the year. Furthermore, on January 17, 2014 Governor Brown declared the drought State of Emergency citing 2014 as the driest year in California history. Additionally, within MWDOC's service area, precipitation for FY 2013-14 was the second lowest on record, with 4.37 inches of rain, significantly impacting water demands.

The water demand forecasting model developed for the Demand Forecast TM isolated the impacts that weather and future climate can have on water demand through the use of a statistical model. The impacts of hot/dry weather condition are reflected as a percentage increase in water demands from the normal year condition (average of FY 2017-18 and FY 2018-19). For a single dry year condition (FY 2013-14), the model projects a 6% increase in demand for the OC Basin area where the City's service area is located (CDM Smith, 2021). Detailed information of the model is included in the City's 2020 UWMP.

The City has documented that it is 100% reliable for single dry year demands from 2025 through 2045 with a demand increase of 6% from normal demand with significant reserves held by MET, local groundwater supplies, and water use efficiency (Huntington Beach, 2021).

#### 3.2.2.6 Infrastructure Considerations

The Annual Assessment will include consideration of any infrastructure issues that may pertain to near-term water supply reliability, including repairs, construction, and environmental mitigation measures that may temporarily constrain capabilities, as well as any new projects that may add to system capacity. MWDOC closely coordinates with MET and its member agencies, including the City, on any planned infrastructure work that may impact water supply availability. Throughout each year, MET regularly carries out preventive and corrective maintenance of its facilities within the MWDOC service area that may require shutdowns to inspect and repair pipelines and facilities and support capital improvement projects. These shutdowns involve a high level of planning and coordination between MWDOC, MWDOC's member agencies, and MET to ensure that major portions of the distribution system are not out of service at the same time. Operational flexibility within MET's system and the cooperation of member agencies allow shutdowns to be successfully completed while continuing to meet all system demands.

Specifically for the City, as of July 2021, there are no foreseen near-term infrastructure issues that would impact supply; however, the City is planning to update the Water Master Plan in 2022 and will update infrastructure considerations based on Water Master Plan outcomes.

#### 3.2.2.7 Other Factors

For the Annual Assessment, any known issues related to water quality would be considered for their potential effects on water supply reliability.

Per- and polyfluoroalkyl substances (PFAS) are a group of thousands of manmade chemicals that includes perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS). PFAS compounds were once commonly used in many products including, among many others, stain- and water-repellent fabrics, nonstick products (e.g., Teflon), polishes, waxes, paints, cleaning products, and fire-fighting foams. Beginning in the summer of 2019, the California State Division of Drinking Water (DDW) began requiring testing for PFAS compounds in some groundwater production wells in the OCWD area.

Although PFAS have not been detected in the City's wells, PFAS are of particular concern for groundwater quality, and since the summer of 2019, DDW requires testing for PFAS compounds in some groundwater production wells in the OCWD area. In February 2020, the DDW lowered its Response Levels (RL) for PFOA and PFOS to 10 and 40 parts per trillion (ppt), respectively. The DDW recommends Producers not serve any water exceeding the RL – effectively making the RL an interim Maximum Contaminant Level (MCL) while DDW undertakes administrative action to set a MCL. In response to DDW's issuance of the revised RL, as of December 2020, approximately 45 wells in the OCWD service area have been temporarily turned off until treatment systems can be constructed. As additional wells are tested, OCWD expects this figure may increase to at least 70 to 80 wells. The state has begun the process of establishing MCLs for PFOA and PFOS and anticipates these MCLs to be in effect by the Fall of 2023. OCWD anticipates the MCLs will be set at or below the RLs.

In April 2020, OCWD as the groundwater basin manager, executed an agreement with the impacted Producers to fund and construct the necessary treatment systems for production wells impacted by PFAS compounds. The PFAS treatment projects includes the design, permitting, construction, and operation of PFAS removal systems for impacted Producer production wells. Each well treatment system will be evaluated for use with either granular activated carbon or ion exchange for the removal of PFAS compounds. These treatment systems utilize vessels in a lead-lag configuration to remove PFOA and PFOS to less than 2 ppt (the current non-detect limit). Use of these PFAS treatment systems are designed to ensure the groundwater supplied by Producer wells can be

served in compliance with current and future PFAS regulations. With financial assistance from OCWD, the Producers will operate and maintain the new treatment systems once they are constructed.

To minimize expenses and provide maximum protection to the public water supply, OCWD initiated design, permitting, and construction of the PFAS treatment projects on a schedule that allows rapid deployment of treatment systems. Construction contracts were awarded for treatment systems for production wells in the City of Fullerton and Serrano Water District in Year 2020. Additional construction contracts will likely be awarded in the first and second quarters of 2021. OCWD expects the treatment systems to be constructed for most of the initial 45 wells above the RL within the next 2 to 3 years.

As additional data are collected and new wells experience PFAS detections at or near the current RL, and/or above a future MCL, and are turned off, OCWD will continue to partner with the affected Producers and take action to design and construct necessary treatment systems to bring the impacted wells back online as quickly as possible.

Groundwater production in FY 2019-20 was expected to be approximately 325,000 acre-feet (AF) but declined to 286,550 AF primarily due to PFAS impacted wells being turned off around February 2020. OCWD expects groundwater production to be in the area of 245,000 AF in FY 2020-21 due to the currently idled wells and additional wells being impacted by PFAS and turned off. As PFAS treatment systems are constructed, OCWD expects total annual groundwater production to slowly increase back to normal levels (310,000 to 330,000 AF) (OCWD, 2020).

#### 3.3 Six Standard Water Shortage Levels

Per Water Code Section 10632 (a)(3)(A), the City must include the six standard water shortage levels that represent shortages from the normal reliability as determined in the Annual Assessment. The shortage levels have been standardized to provide a consistent regional and statewide approach to conveying the relative severity of water supply shortage conditions. This is an outgrowth of the severe statewide drought of 2012-2016, and the widely recognized public communication and state policy uncertainty associated with the many different local definitions of water shortage Levels.

The six standard water shortage levels correspond to progressively increasing estimated shortage conditions (up to 10, 20, 30, 40, 50%, and greater than 50% shortage compared to the normal reliability condition) and align with the response actions the Supplier would implement to meet the severity of the impending shortages.

Table 3-1: Water Shortage Contingency Plan Levels

	mittal Table 8-1 er Shortage Contingency Plan Levels	
Shortage Level	Percent Shortage Range	Shortage Response Actions
0	0% (Normal)	A Level 0 Water Supply Shortage –Condition exists when the City notifies its water users that no supply reductions are anticipated in this year. The City proceeds with planned water efficiency best practices to support consumer demand reduction in line with state mandated requirements and local City goals for water supply reliability. Permanent water waste prohibitions are in place as stipulated in the City's Water Shortage Response Ordinance.
1	Up to 10%	A Level 1 Water Supply Shortage – Condition exists when the City notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 10% is necessary to make more efficient use of water and respond to existing water conditions. The City shall implement the mandatory Level 1 conservation measures identified in this WSCP. The type of event that may prompt the City to declare a Level 1 Water Supply Shortage may include, among other factors, a finding that its wholesale water provider calls for extraordinary water conservation.
2	11% to 20%	A Level 2 Water Supply Shortage – Condition exists when the City notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 20% is necessary to make more efficient use of water and respond to existing water conditions. Upon declaration of a Level 2 Water Supply Shortage condition, the City shall implement the mandatory Level 2 conservation measures identified in this WSCP.
3	21% to 30%	A Level 3 Water Supply Shortage – Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 30% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
4	31% to 40%	A Level 4 Water Supply Shortage - Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 40% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.

Shortage Level	Percent Shortage Range	Shortage Response Actions
5	41% to 50%	A Level 5 Water Supply Shortage - Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
6	>50%	A Level 6 Water Supply Shortage – Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that greater than 50% or more consumer deman reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.

### 3.4 Shortage Response Actions

Water Code Section 10632 (a)(4) requires the WSCP to specify shortage response actions that align with the defined shortage levels. The City has defined specific shortage response actions that align with the defined shortage levels in DWR Tables 8-2 and 8-3 (Appendix A). These shortage response actions were developed with consideration to the system infrastructure and operations changes, supply augmentation responses, customerclass or water use-specific demand reduction initiatives, and increasingly stringent water use prohibitions.

#### 3.4.1 Demand Reduction

The demand reduction measures that would be implemented to address shortage levels are described in DWR Table 8-2 (Appendix A). This table indicates which actions align with specific defined shortage levels and estimates the extent to which that action will reduce the gap between supplies and demands. DWR Table 8-2 (Appendix A) demonstrates to the that choose suite of shortage response actions can be expected to deliver the expected outcomes necessary to meet the requirements of a given shortage level (e.g., target of an additional 10% water savings). This table also identifies the enforcement action, if any, associated with each demand reduction measure.

#### 3.4.2 Supply Augmentation

The supply augmentation actions are described in DWR Table 8-3 (Appendix A). These augmentations represent short-term management objectives triggered by the MET's WSDM Plan and do not overlap with the long-term new water supply development or supply reliability enhancement projects. Supply Augmentation is made available to the City through MWDOC and MET. The City relies on MET's reliability portfolio of water supply programs including existing water transfers, storage and exchange agreements to supplement gaps in the City's supply/demand balance. MET has developed significant storage capacity (over 5 million AF) in reservoirs and groundwater banking programs both within and outside of the Southern California region. Additionally, MET can pursue additional water transfer and exchange programs with other water agencies to help mitigate supply/demand imbalances and provide additional dry-year supply sources.

MWDOC, and in turn its retail agencies, including the City, has access to supply augmentation actions through MET. MET may exercise these actions based on regional need, and in accordance with their WSCP, and may include the use of supplies and storage programs within the Colorado River, SWP, and in-region storage. The City has the ability to augment its supply to reduce the shortage gap by up to 100% by purchasing additional imported water through MWDOC or pumping additional groundwater in the OC Basin; however, both are subject to rate penalties from MWDOC and OCWD, respectively.

#### 3.4.3 Operational Changes

During shortage conditions, operations may be affected by supply augmentation or demand reduction responses. The City will consider their operational procedures when it completes its Annual Assessment or as needed to identify changes that can be implemented to address water shortage on a short-term basis. The City can alter maintenance cycles, such as system flushing, and defer planned construction activities and capital improvement projects to limit or defer planned system outages. The City has one pressure zone and all water sources (the City's wells and connections to MET) pump directly into the system, in which the City would have to adjust control valves to lower the pressure in the system and restrict flows for operational control.

#### 3.4.4 Additional Mandatory Restrictions

Water Code Section 10632(a)(4)(D) calls for "additional, mandatory prohibitions against specific water use practices that are in addition to state-mandated prohibitions and appropriate to the local conditions" to be included among the WSCP's shortage response actions. The City will identify additional mandatory restrictions as needed based on the existing Huntington Beach Municipal Code Chapter 14.18 Water Management Program (Appendix B). The City intends to update any mandatory restrictions in a subsequently adopted ordinance which will supersede the existing ordinance.

#### 3.4.5 Emergency Response Plan (Hazard Mitigation Plan)

A catastrophic water shortage would be addressed according to the appropriate water shortage level and response actions. It is likely that a catastrophic shortage would immediately trigger Shortage Level 6 and response actions have been put in place to mitigate a catastrophic shortage. In addition, there are several Plans that address catastrophic failures and align with the WSCP, including MET's WSDM and WSAP, the City's HMP, and the Water Emergency Response Organization of Orange County (WEROC)'s Emergency Operations Plan (EOP).

#### 3.4.5.1 MET's WSDM and WSAP

MET has comprehensive plans for stages of actions it would undertake to address a catastrophic interruption in water supplies through its WSDM and WSAP. MET also developed an Emergency Storage Requirement to mitigate against potential interruption in water supplies resulting from catastrophic occurrences within the Southern California region, including seismic events along the San Andreas Fault. In addition, MET is working with the state to implement a comprehensive improvement plan to address catastrophic occurrences outside of the Southern California region, such as a maximum probable seismic event in the Sacramentro-San Joaquin River Delta that would cause levee failure and disruption of SWP deliveries.

# 3.4.5.2 Water Emergency Response Organization of Orange County Emergency Operations Plan

In 1983, the Orange County water community identified a need to develop a plan on how agencies would respond effectively to disasters impacting the regional water distribution system. The collective efforts of these agencies resulted in the formation of WEROC to coordinate emergency response on behalf of all Orange County water and wastewater agencies, develop an emergency plan to respond to disasters, and conduct disaster training exercises for the Orange County water community. WEROC was established with the creation of an indemnification agreement between its member agencies to protect each other against civil liabilities and to facilitate the exchange of resources. WEROC is unique in its ability to provide a single point of contact for representation of all water and wastewater utilities in Orange County during a disaster. This representation is to the county, state, and federal disaster coordination agencies. Within the Orange County Operational Area, WEROC is the recognized contact for emergency response for the water community, including the City.

As a member of WEROC, the City will follow WEROC's EOP in the event of an emergency and coordinate with WEROC to assess damage, initiate repairs, and request and coordinate mutual aid resources in the event that the City is unable to provide the level of emergency response support required by the situation.

The EOP defines the actions to be taken by WEROC Emergency Operations Center (EOC) staff to reduce the loss of water and wastewater infrastructure; to respond effectively to a disaster; and to coordinate recovery operations in the aftermath of any emergency involving extensive damage to Orange County water and wastewater utilities. The EOP includes activation notification protocol that will be used to contact partner agencies to inform them of the situation, activation status of the EOC, known damage or impacts, or resource needs. The EOP is a standalone document that is reviewed annually and approved by the Board every three years.

WEROC is organized on the basis that each member agency is responsible for developing its own EOP in accordance with the California Standardized Emergency Management System (SEMS), National Incident Management System (NIMS), and Public Health Security and Bioterrorism Preparedness and Response Act of 2002 to meet specific emergency needs within its service area.

The WEROC EOC is responsible for assessing the overall condition and status of the Orange County regional water distribution and wastewater collection systems including MET facilities that serve Orange County. The EOC can be activated during an emergency situation that can result from both natural and man-made causes, and can be activated through automatic, manual, or standby for activation.

WEROC recognized four primary phases of emergency management, which include:

- **Preparedness:** Planning, training, and exercises that are conducted prior to an emergency to support and enhance response to an emergency or disaster.
- Response: Activities and programs designed to address the immediate and short-term effects of the
  onset of an emergency or disaster that helps to reduce effects to water infrastructure and speed recovery.
   This includes alert and notification, EOC activation, direction and control, and mutual aid.
- Recovery: This phase involved restoring systems to normal, in which short-term recovery actions are
  taken to assess the damage and return vital life-support systems to minimum operating standards, while
  long-term recovery actions have the potential to continue for many years.
- Mitigation/Prevention: These actions prevent the occurrence of an emergency or reduce the area's
  vulnerability in ways that minimize the adverse impacts of a disaster or emergency. MWDOC's HMP
  outlines threats and identifies mitigation projects.

The EOC Action Plans (EAP) provide frameworks for EOC staff to respond to different situations with the objectives and steps required to complete them, which will in turn serve the WEROC member agencies. In the event of an emergency which results in a catastrophic water shortage, the City will declare a water shortage condition of up to Level 6 for the impacted area depending on the severity of the event, and coordination with WEROC is anticipated to begin at Level 4 or greater (WEROC, 2018).

#### 3.4.5.3 City of Huntington Beach Emergency Response Plan

The City will also refer to its current American Water Infrastructure Act Risk and Resilience Assessment and Emergency Response Plan in the event of a catastrophic supply interruption.

#### 3.4.6 Seismic Risk Assessment and Mitigation Plan

Per the Water Code Section 10632.5, Suppliers are required to assess seismic risk to water supplies as part of their WSCP. The plan also must include the mitigation plan for the seismic risk(s). Given the great distances that imported supplies travel to reach Orange County, the region is vulnerable to interruptions along hundreds of miles aqueducts, pipelines and other facilities associated with delivering the supplies to the region. Additionally, the infrastructure in place to deliver supplies are susceptible to damage from earthquakes and other disasters.

In lieu of conducting a seismic risk assessment specific to the City's 2020 UWMP, the City has included the previously prepared regional HMP by MWDOC, as the regional imported water wholesaler, and the City's local HMP, that is required under the federal Disaster Mitigation Act of 2000 (Public Law 106-390).

MWDOC's HMP identified that the overarching goals of the HMP were the same for all of its member agencies, which include:

- Goal 1: Minimize vulnerabilities of critical infrastructure to minimize damages and loss of life and injury to human life caused by hazards.
- Goal 2: Minimize security risks to water and wastewater infrastructure.
- Goal 3: Minimize interruption to water and wastewater utilities.
- Goal 4: Improve public outreach, awareness, education, and preparedness for hazards in order to increase community resilience.
- Goal 5: Eliminate or minimize wastewater spills and overflows.
- Goal 6: Protect water quality and supply, critical aquatic resources, and habitat to ensure a safe water supply.

 Goal 7: Strengthen Emergency Response Services to ensure preparedness, response, and recovery during any major or multi-hazard event.

MWDOC's HMP evaluates hazards applicable to all jurisdictions in its entire planning area, prioritized based on probability, location, maximum probable extent, and secondary impacts. The identification of hazards is highly dependent on the location of facilities within the City's jurisdiction and takes into consideration the history of the hazard and associated damage, information provided by agencies specializing in a specific hazard, and relies upon the City's expertise and knowledge.

Earthquake fault rupture and seismic hazards, including ground shaking and liquefaction, are among the highest ranked hazards to the region as a whole because of its long history of earthquakes, with some resulting in considerable damage. A significant earthquake along one of the major faults could cause substantial casualties, extensive damage to infrastructure, fires, damages and outages of water and wastewater facilities, and other threats to life and property.

Nearly all of Orange County is at risk of moderate to extreme ground shaking, with liquefaction possible throughout much of Orange County but the most extensive liquefaction zones occur in coastal areas. Based on the amount of seismic activity that occurs within the region, there is no doubt that communities within Orange County will continue to experience future earthquake events, and it is a reasonable assumption that a major event will occur within a 30 year timeframe (MWDOC, 2019).

The mitigation actions identify the hazard, proposed mitigation action, location/facility, local planning mechanism, risk, cost, timeframe, possible funding sources, status, and status rationale, as applicable. For the City, mitigation actions for seismic risks include (Huntington Beach, 2017):

- Conduct a survey of seismically vulnerable buildings in the City, including soft first-story and older concrete structures. Ensure that the survey remains accurate through regular survey updates.
- Develop an incentive program for property owners to retrofit seismically vulnerable structures.
- Require a seismic hazard assessment for new buildings or significant retrofits within the Alquist-Priolo
  Earthquake Fault Zone or in an area with high liquefaction risk. Require buildings in seismic hazard-prone
  areas to reduce their vulnerability as appropriate.
- Explore adopting amendments to the City's building code requiring new buildings to exceed the minimum seismic standards in the state Buildings Standards Code. Emphasize constructing buildings to remain safely habitable and functional following an earthquake.
- Incorporate the possibility of a major urban fire or tsunami following a significant earthquake into Fire Department training and emergency response procedures.

#### 3.4.7 Shortage Response Action Effectiveness

For each specific Shortage Response Action identified in the plan, the WSCP also estimates the extent to which that action will reduce the gap between supplies and demands identified in DWR Table 8-2 (Appendix A). To the extent feasible, the City has estimated percentage savings for the chosen suite of shortage response actions, which can be anticipated to deliver the expected outcomes necessary to meet the requirements of a given shortage level.

#### 3.5 Communication Protocols

Timely and effective communication is a key element of the WSCP implementation. Per Water Code Section 10632 (a)(5), the City has established communication protocols and procedures to inform customers, the public, interested parties, and local, regional, and state governments regarding any current or predicted shortages as determined by the Annual Assessment described pursuant to Section 10632.1; any shortage response actions triggered or anticipated to be triggered by the Annual Assessment described pursuant to Section 10632.1; and any other relevant communications. The City's Water Shortage Communication Plan is documented in Appendix C.

#### 3.6 Compliance and Enforcement

Per the Water Code Section 10632 (a)(6), the City has defined customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions. Procedures to ensure customer compliance are described in Section 3.5 Communication Protocols and customer enforcement, appeal, and exemption procedures are defined in the City's existing Municipal Code Chapter 14.18 Water Management Program (Appendix B). The City intends to update any enforcement procedures in a subsequently adopted ordinance which will supersede the existing ordinance.

#### 3.7 Legal Authorities

Per Water Code Section 10632 (a)(7)(A), the City has provided a description of the legal authorities that empower the City of Huntington Beach to implement and enforce its shortage response in the City's Municipal Code Chapter 14.18 Water Management Program (Appendix B).

Per Water Code Section 10632 (a)(7) (B), the City shall declare a water shortage emergency condition to prevail within the area served by such wholesaler whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent that there would be insufficient water for human consumption, sanitation, and fire protection.

Per Water Code Section 10632 (a)(7)(C), the City shall coordinate with any agency or county within which it provides water supply services for the possible proclamation of a local emergency under California Government Code, California Emergency Services Act (Article 2, Section 8558). Table 3-2 identifies the contacts for all cities or counties for which the Supplier provides service in the WSCP, along with developed coordination protocols, can facilitate compliance with this section of the Water Code in the event of a local emergency as defined in subpart (c) of Government Code Section 8558.

Contact Agency Coordination Protocols

City Manager City of Huntington Beach In person/Phone/Email/Memo

City Council City of Huntington Beach Memo/Council Meeting

Director of Public Works County of Orange Public Works

**Table 3-2: Agency Contacts and Coordination Protocols** 

#### 3.8 Financial Consequences of WSCP

Per Water Code Section 10632(a)(8), Suppliers must include a description of the overall anticipated financial consequences to the Supplier of implementing the WSCP. This description must include potential reductions in revenue and increased expenses associated with implementation of the shortage response actions. This should be coupled with an identification of the anticipated mitigation actions needed to address these financial impacts.

During a catastrophic interruption of water supplies, prolonged drought, or water shortage of any kind, the City will experience a reduction in revenue due to reduced water sales. Throughout this period of time, expenditures may increase or decrease with varying circumstances. Expenditures may increase in the event of significant damage to the water system, resulting in emergency repairs. Expenditures may also decrease as less water is pumped through the system, resulting in lower power costs. Water shortage mitigation actions will also impact revenues and require additional costs for drought response activities such as increased staff costs for tracking, reporting, and communications.

The City receives water revenue from a service charge and a commodity charge based on consumption. The service charge recovers costs associated with providing water to the serviced property. The service charge does not vary with consumption and the commodity charge is based on water usage. Rates have been designed to recover the full cost of water service in the charges. Therefore, the total cost of purchasing water would decrease as the usage or sale of water decreases. In the event of a drought emergency, the City will impose excessive water use penalties on its customers, which may include additional costs associated with reduced water revenue, staff time taken for penalty enforcement, and advertising the excessive use penalties. The excessive water use penalties are further described in the City's Municipal Code Chapter 14.18 Water Management Program (Appendix B).

However, there are significant fixed costs associated with maintaining a minimal level of service. The City will monitor projected revenues and expenditures should an extreme shortage and a large reduction in water sales occur for an extended period of time. To overcome these potential revenue losses and/or expenditure impacts, the City may use reserves. If necessary, the City may reduce expenditures by delaying implementation of its Capital Improvement Program and equipment purchases to reallocate funds to cover the cost of operations and critical maintenance, adjust the work force, implement a drought surcharge, and/or make adjustments to its water rate structure.

Based on current water rates, a volumetric cutback of 50% and above of water sales may lead to a range of reduction in revenues. The impacts to revenues will depend on a proportionate reduction in variable costs related to supply, pumping, and treatment for the specific shortage event. The City has set aside reserve funding as a Drought Reserve Fund to mitigate short-term water shortage situation.

#### 3.9 Monitoring and Reporting

Per Water Code Section 10632(a)(9), the City is required to provide a description of the monitoring and reporting requirements and procedures that have been implemented to ensure appropriate data is collected, tracked, and analyzed for purposes of monitoring customer compliance and to meet state reporting requirements.

Monitoring and reporting key water use metrics is fundamental to water supply planning and management. Monitoring is also essential in times of water shortage to ensure that the response actions are achieving their intended water use reduction purposes, or if improvements or new actions need to be considered (see Section 3.10). Monitoring for customer compliance tracking is also useful in enforcement actions.

Under normal water supply conditions, potable water production figures are recorded daily. Weekly and monthly reports are prepared and monitored. This data will be used to measure the effectiveness of any water shortage contingency level that may be implemented. As levels of water shortage are declared by MET and MWDOC, the City will follow implementation of those levels as appropriate based on the City's risk profile provided in UWMP Chapter 6 and continue to monitor water demand levels. When MET calls for extraordinary conservation, MET's Drought Program Officer will coordinate public information activities with MWDOC and monitor the effectiveness of ongoing conservation programs.

The City will participate in monthly member agency manager meetings with both MWDOC and OCWD to monitor and discuss monthly water allocation charts. This will enable the City to be aware of import and groundwater use on a timely basis as a result of specific actions taken responding to the City's WSCP.

#### 3.10 WSCP Refinement Procedures

Per Water Code Section 10632 (a)(10), the City must provide reevaluation and improvement procedures for systematically monitoring and evaluating the functionality of the water shortage contingency plan in order to ensure shortage risk tolerance is adequate and appropriate water shortage mitigation strategies are implemented as needed.

The City's WSCP is prepared and implemented as an adaptive management plan. The City will use the monitoring and reporting process defined in Section 3.9 to refine the WSCP. In addition, if certain procedural refinements or new actions are identified by City staff, or suggested by customers or other interested parties, the City will evaluate their effectiveness, incorporate them into the WSCP, and implement them quickly at the appropriate water shortage level.

It is envisioned that the WSCP will be periodically re-evaluated to ensure that its shortage risk tolerance is adequate and the shortage response actions are effective and up to date based on lessons learned from implementing the WSCP. The WSCP will be revised and updated during the UWMP update cycle to incorporate updated and new information. For example, new supply augmentation actions will be added, and actions that are no longer applicable for reasons such as program expiration will be removed. However, if revisions to the WSCP are warranted before the UWMP is updated, the WSCP will be updated outside of the UWMP update cycle. In the

course of preparing the Annual Assessment each year, City staff will routinely consider the functionality the overall WSCP and will prepare recommendations for City Council if changes are found to be needed.

#### 3.11 Special Water Feature Distinction

Per Water Code Section 10632 (b), the City has defined water features in that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas, as defined in subdivision (a) of Section 115921 of the Health and Safety Code, in the City's Municipal Code Chapter 14.18 Water Management Program (Appendix B).

#### 3.12 Plan Adoption, Submittal, and Availability

Per Water Code Section 10632 (a)(c), the City provided notice of the availability of the draft 2020 UWMP and draft 2020 WSCP and notice of the public hearing to consider adoption of the WSCP. The public review drafts of the 2020 UWMP and the 2020 WSCP were posted prominently on the City's website in advance of the public hearing on June 7, 2021. Copies of the draft WSCP were also made available for public inspection at the City Clerk's and Utilities Department offices and public hearing notifications were published in local newspapers. A copy of the published Notice of Public Hearing is included in Appendix D.

The City held the public hearing for the draft 2020 UWMP and draft WSCP on June 7, 2021, at the City Council meeting. The City Council reviewed and approved the 2020 UWMP and the WSCP at its June 7, 2021 meeting after the public hearing. See Appendix E for the resolution approving the WSCP.

By July 1, 2021, the City's adopted 2020 UWMP and WSCP was filed with DWR, California State Library, and the County of Orange. The City will make the WSCP available for public review on its website no later than 30 days after filing with DWR.

Based on DWR's review of the WSCP, the City will make any amendments in its adopted WSCP, as required and directed by DWR.

If the City revises its WSCP after UWMP is approved by DWR, then an electronic copy of the revised WSCP will be submitted to DWR within 30 days of its adoption.

#### 4 REFERENCES

- CDM Smith. (2021, March 30). Orange County Water Demand Forecast for MWDOC and OCWD Technical Memorandum.
- City of Huntington Beach. (2021, July). 2020 Urban Water Management Plan.
- City of Huntington Beach. (2017, December). Local Hazard Mitigation Plan.
- Metropolitan Water District of Southern California (MET). (2021a, March). Water Shortage Contingency Plan. http://www.mwdh2o.com/PDF\_About\_Your\_Water/Draft\_Metropolitan\_WSCP\_March\_2021.pdf
- Metropolitan Water District of Southern California (MET). (2021b, June). 2020 Urban Water Management Plan.
- Metropolitan Water District of Southern California (MET). (1999, August). Water Surplus and Drought Management Plan.
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- Municipal Water District of Orange County (MWDOC). (2016). Water Supply Allocation Plan.
- Municipal Water District of Orange County (MWDOC). (2019, August). Orange County Regional Water and Wastewater Hazard Mitigation Plan.
- Water Emergency Response Organization of Orange County (WEROC). (2018, March). WEROC Emergency Operations Plan (EOP).

### **APPENDICES**

Appendix A. DWR Submittal Tables

Table 8-1: Water Shortage Contingency Plan

Levels

**Table 8-2: Demand Reduction Actions** 

**Table 8-3: Supply Augmentation and Other** 

**Actions** 

Appendix B. Huntington Beach Municipal Code Chapter 14.18

**Water Management Program** 

Appendix C. Water Shortage Communication Plan

Appendix D. Notice of Public Hearing

Appendix E. Adopted WSCP Resolution

Arcadis U.S., Inc.
320 Commerce, Suite 200
Irvine
California 92602
Phone: 714 730 9052
www.arcadis.com

Maddaus Water Management, Inc. Danville, California 94526 Sacramento, California 95816 Phone: 916 730 1456 www.maddauswater.com STATE OF CALIFORNIA
COUNTY OF ORANGE ) ss:
CITY OF HUNTINGTON BEACH )

I, ROBIN ESTANISLAU the duly elected, qualified City Clerk of the City of Huntington Beach, and ex-officio Clerk of the City Council of said City, do hereby certify that the whole number of members of the City Council of the City of Huntington Beach is seven; that the foregoing resolution was passed and adopted by the affirmative vote of at least a majority of all the members of said City Council at a **Special** meeting thereof held on **June 1, 2021** by the following vote:

AYES:

Peterson, Kalmick, Carr, Posey, Moser, Delgleize

NOES:

None

**ABSENT:** 

Ortiz

**RECUSE:** 

None

City Clerk and ex-officio Clerk of the City Council of the City of Huntington Beach, California Arcadis U.S., Inc. 320 Commerce, Suite 200 Irvine California 92602 Phone: 714 730 9052

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