2020 Water Shortage Contingency Plan

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Acronyms and Abbreviations

%  Percent
Act  Urban Water Management Planning Act
AF  Acre-Feet
AFY  Acre-Feet per Year
Annual Assessment  Annual Water Supply and Demand Assessment
BPP  Basin Production Percentage
City  City of Newport 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
GAP  Green Acres Project
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  Orange County
OC Basin  Orange County Groundwater Basin
OC San  Orange County Sanitation District
OCWD  Orange County Water District
PFAS  Per- and Polyfluoroalkyl Substances
PFOA  Perfluorooctanoic Acid
PFOS  Perfluorooctane Sulfonate
PPT  Parts Per Trillion
Producer  Groundwater Producer Authorized to Pump from Groundwater Basin
RL  Response Level
SEMS  California Standardized Emergency Management System
Supplier  Urban Water Supplier
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<tr>
<td>SWP</td>
<td>State Water Project</td>
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<tr>
<td>SWRCB</td>
<td>California State Water Resources Control Board</td>
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<tr>
<td>UWMP</td>
<td>Urban Water Management Plan</td>
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<tr>
<td>WARN</td>
<td>Water Agency Response Network</td>
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<td>Water Code</td>
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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 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 Newport 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 the Water Code Section 16032 requirements.
Section 1 Introduction and WSCP Overview gives a summary of the WSCP fundamentals.

Section 2 Background provides a background on the City’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...
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 provides 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 on September 1, 1906 and the current City Charter was adopted in 1954. The City is governed by a seven-member City Council which operates under a Council-Manager format of government. The City Utilities Department is responsible for the operation and maintenance of the City’s water, wastewater, water quality, and storm drain systems, as well as and other municipal utilities within the City. The City’s Public Works Department is responsible for engineering services including capital project delivery, environmental services, and transportation and development services. The two departments work collaboratively to provide water to the customers. The City is known for its fine residential areas, modern shopping facilities, strong business community and quality school system.

2.1 City Service Area

The City provides water to approximately 11 square miles of land area located along the Orange County coast of Southern California. The City is bounded to the West by the Pacific Ocean, to the North by the cities of Huntington Beach and Costa Mesa, to the South by Laguna Beach, and to the East by Irvine. The water service area covers most of the City’s boundaries with the remaining areas served by IRWD and Mesa Water as shown on Figure 2-1. The City operates a wellfield with a total capacity of 10,900 gallons per minute, 15 recycled water connections, 6 inter-agency emergency interconnections and manages about 300-mile water mains system with 26,765 service connections.
Although the City supplements its water supply portfolio with recycled water, the WSCP only applies to its potable water supply. The City is directly involved in wastewater services through its ownership and operation of the wastewater collection system in its service area and sends all collected wastewater to Orange County Sanitation District (OC San) for treatment and disposal. The City sells and distributes OCWD Green Acres Project (GAP) water to recycled water customers, as detailed in Section 6.6 of the City’s 2020 UWMP (Newport Beach, 2021). The City will determine the recycled water demand reduction actions for recycled water based on the availability of supply and to meet necessary wastewater discharge permit requirements.

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 supply portfolio options.

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).
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 up to or if necessary greater than 50% cutback. 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 (AF 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 (Newport 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 receives the majority of its water supply from groundwater from the OC Basin, as well as supplemental supplies from local recycled water from the OCWD GAP that adds reliability for non-potable water demand.

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 (Newport 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 Percent (BPP) and on MWDOCs Annual Assessment outcomes.

The City receives 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 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 MET 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 Utilities Director and formally submitted to DWR prior to the July 1 deadline.
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.
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.

However, 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 and MWDOC have 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 UWMP, the City meets all of its customers’ demands with a combination of local groundwater, local recycled water, and imported water from MWDOC/MET. The City’s main source of water supply is groundwater from the OC Basin, with imported water from MET through MWDOC and recycled water making up the rest of the City’s water supply portfolio. In fiscal year (FY) 2019-20, the City relied on 68%
groundwater, 28% imported water, and 4% recycled water. It is projected that by 2045, the water supply portfolio will change to approximately 82% groundwater, 15% imported water, and 3% recycled water, reflecting the increase in OCWD’s BPP to 85% beginning in 2025 (Newport 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 (Newport Beach, 2021). Water demands in a five-year consecutive drought are calculated as a six percent 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 scenario 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 conservation (Newport 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.

The City has a Capital Improvement Program schedule documented in its current Water Master Plan and will consider planned projects and their potential impact on supply reliability in the Annual Assessment each year.

3.2.2.7 Other Factors

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.

PFAS have been detected in one City well but are below the notification level. The City continues to monitor per state testing requirements. 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 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 define the water shortage levels that represent shortages from the normal reliability as determined in the Annual Assessment. The Water Code provides an option for suppliers to align with six standard water shortage levels; however, the City has selected to retain its existing water shortage levels as defined in City Code (Table 3-1). Table 3-2 shows the City’s water shortage levels in relationship to the six standard water shortage levels prescribed by statute. This crosswalk is intended to clearly translate the City’s water shortage levels to those mandated by statute.
### Table 3-1: Water Shortage Contingency Plan Levels

<table>
<thead>
<tr>
<th>Shortage Levels</th>
<th>Percent Shortage Range(^1)</th>
<th>Water Shortage Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0%</td>
<td>Permanent Mandatory Water Conservation Requirements</td>
</tr>
<tr>
<td>1</td>
<td>&gt;10%</td>
<td>A Level 1 Water Shortage applies when the City determines that a water supply shortage or threatened shortage exists and, and it is necessary to impose mandatory conservation requirements to appropriately respond to conditions created by the water supply shortage.</td>
</tr>
<tr>
<td>2</td>
<td>10-25%</td>
<td>A Level 2 Water Shortage applies when the City determines that a water supply shortage or threatened shortage exists and, and it is necessary to impose mandatory conservation requirements to appropriately respond to conditions created by the water supply shortage.</td>
</tr>
<tr>
<td>3</td>
<td>25-40%</td>
<td>A Level 3 Water Shortage applies when the City determines that a water supply shortage or threatened shortage exists and, and it is necessary to impose mandatory conservation requirements to appropriately respond to conditions created by the water supply shortage.</td>
</tr>
<tr>
<td>4</td>
<td>&gt;40%</td>
<td>A Level 4 Water Shortage applies when the City determines that a water supply shortage or threatened shortage exists and, and it is necessary to impose mandatory conservation requirements to appropriately respond to conditions created by the water supply shortage.</td>
</tr>
</tbody>
</table>

\(^1\) One level in the Water Shortage Contingency Plan must address a water shortage of >50%.

**NOTES:**
Table 3-2: Relationship Between the City’s Water Shortage Levels and Mandated Shortage Levels

<table>
<thead>
<tr>
<th>City of Newport Beach Water Shortage Levels</th>
<th>Mandated Shortage Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shortage Level</td>
<td>Percent Shortage Range</td>
</tr>
<tr>
<td>Permanent Water Conservation Requirements</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>1</td>
<td>10%</td>
</tr>
<tr>
<td>2</td>
<td>10-25%</td>
</tr>
<tr>
<td>3</td>
<td>25-40%</td>
</tr>
<tr>
<td>4</td>
<td>&gt;40%</td>
</tr>
<tr>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

### 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, customer-class 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, such as temporarily altering maintenance cycles, deferring planned system outages, and adjusting the flow and routing of water through its system to more effectively distribute available supply across the service area.

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 Newport Beach Municipal Code Chapter 14.16 Water Conservation and Supply Level Regulations (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 Sacramento-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 Newport 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, 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.

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 (MWDOC, 2019):

- Update Vulnerability Assessment Plan at all utilities facilities.
- Update Risk Management Plan for Big Canyon Reservoir and 16th St Yard.
- Replacement of aging infrastructure throughout the City per the Water Master Plan.

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 the 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 Protocol is documented in Appendix C.

3.6 Compliance and Enforcement

Per 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 and customer enforcement, appeal, and exemption procedures are defined in the City’s Municipal Code Chapter 14.16 Water Conservation and Supply Level Regulations (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 to implement and enforce its shortage response in the City’s Municipal Code Chapter 14.16 Water Conservation and Supply Level Regulations (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 3-3 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.

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

<table>
<thead>
<tr>
<th>Contact</th>
<th>Agency</th>
<th>Coordination Protocols</th>
</tr>
</thead>
<tbody>
<tr>
<td>City Manager</td>
<td>City of Newport Beach</td>
<td>In person/Phone/Email/Memo</td>
</tr>
<tr>
<td>City Council</td>
<td>City of Newport Beach</td>
<td>Memo/Council Meeting</td>
</tr>
<tr>
<td>Director of Public Works</td>
<td>County of Orange Public Works</td>
<td>Call/email</td>
</tr>
</tbody>
</table>

### 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 14.16 Water Conservation and Supply Level Regulations (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 of the overall WSCP and will prepare recommendations for the Utilities Director 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 14.16 Water Conservation and Supply Level Regulations (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 City website in advance of the public hearing on May 25, 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 May 25, 2021 at the City Council meeting. The City Council reviewed and approved the 2020 UWMP and the WSCP at its May 25, 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.*


   http://www.mwdh2o.com/PDF_About_Your_Water/2.4_Water_Supply_Drought_Management_Plan.pdf


Municipal Water District of Orange County (MWDOC). (2019, August). *Orange County Regional Water and Wastewater Hazard Mitigation Plan.*

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
## Submittal Table 8-1
### Water Shortage Contingency Plan Levels

<table>
<thead>
<tr>
<th>Shortage Level</th>
<th>Percent Shortage Range</th>
<th>Shortage Response Actions (Narrative description)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0%</td>
<td>Permanent Mandatory Water Conservation Requirements</td>
</tr>
<tr>
<td>1</td>
<td>&gt;10%</td>
<td>A Level 1 Water Shortage applies when the City determines that a water supply shortage or threatened shortage exists and, and it is necessary to impose mandatory conservation requirements to appropriately respond to conditions created by the water supply shortage.</td>
</tr>
<tr>
<td>2</td>
<td>10-25%</td>
<td>A Level 2 Water Shortage applies when the City determines that a water supply shortage or threatened shortage exists and, and it is necessary to impose mandatory conservation requirements to appropriately respond to conditions created by the water supply shortage.</td>
</tr>
<tr>
<td>3</td>
<td>25-40%</td>
<td>A Level 3 Water Shortage applies when the City determines that a water supply shortage or threatened shortage exists and, and it is necessary to impose mandatory conservation requirements to appropriately respond to conditions created by the water supply shortage.</td>
</tr>
<tr>
<td>4</td>
<td>&gt;40%</td>
<td>A Level 4 Water Shortage applies when the City determines that a water supply shortage or threatened shortage exists and, and it is necessary to impose mandatory conservation requirements to appropriately respond to conditions created by the water supply shortage.</td>
</tr>
</tbody>
</table>

NOTES:
<table>
<thead>
<tr>
<th>Shortage Level</th>
<th>Demand Reduction Actions</th>
<th>How much is this going to reduce the shortage gap? Include units used (volume type or percentage)</th>
<th>Additional Explanation or Reference (optional)</th>
<th>Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Water Features - Restrict water use for decorative water features, such as fountains</td>
<td>Statewide Prohibition is Required</td>
<td>All decorative water features must re-circulate water system</td>
<td>No</td>
</tr>
<tr>
<td>0</td>
<td>Other - Prohibit vehicle washing except at facilities using recycled or recirculating water</td>
<td>Statewide Prohibition is Required</td>
<td>No customer shall use water to clean a vehicle, including but not limited to any automobile, truck, van, bus, motorcycle, boat or trailer, whether motorized or not, except by use of a hand-held bucket or similar container or a hand-held hose equipped with a positive self-closing water shut-off nozzle or device.</td>
<td>Yes</td>
</tr>
<tr>
<td>0</td>
<td>Other - Prohibit use of potable water for washing hard surfaces</td>
<td>Statewide Prohibition is Required</td>
<td>No person shall use water to wash down hard or paved surfaces, including, but not limited to, sidewalks, walkways, driveways, parking areas, tennis courts, patios or alleys, except when necessary to alleviate safety or sanitary hazards, and then only by use of a hand-held bucket or similar container, a hand-held hose equipped with a positive self-closing water shut-off device, or a low-volume, high-pressure cleaning machine (e.g., “water broom”) equipped to recycle any water used.</td>
<td>Yes</td>
</tr>
<tr>
<td>0</td>
<td>Landscape - Restrict or prohibit runoff from landscape irrigation</td>
<td>Statewide Prohibition is Required</td>
<td>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.</td>
<td>Yes</td>
</tr>
<tr>
<td>0</td>
<td>Landscape - Other landscape restriction or prohibition</td>
<td>Statewide Prohibition is Required</td>
<td>Irrigating ornamental turf on public street medians is prohibited</td>
<td>No</td>
</tr>
</tbody>
</table>
### Submittal Table 8-2: Demand Reduction Actions

<table>
<thead>
<tr>
<th>Shortage Level</th>
<th>Demand Reduction Actions</th>
<th>How much is this going to reduce the shortage gap?</th>
<th>Additional Explanation or Reference (optional)</th>
<th>Penalty, Charge, or Other Enforcement?</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Landscape - Other landscape restriction or prohibition</td>
<td>Statewide Prohibition is Required</td>
<td>No landscape watering shall occur within 48 hours after measurable precipitation.</td>
<td>Yes</td>
</tr>
<tr>
<td>0</td>
<td>Landscape - Other landscape restriction or prohibition</td>
<td>On-going Long Term Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.</td>
<td>Watering or irrigation with a device that is not continuously attended to is limited to fifteen (15) minutes per day per valve. Low flow drip type systems, water efficient stream rotor systems, and sensor/weather controlled systems are exempt.</td>
<td>Yes</td>
</tr>
<tr>
<td>0</td>
<td>Landscape - Prohibit certain types of landscape irrigation</td>
<td>Statewide Prohibition is Required</td>
<td>Any new planting and irrigation design should be performed in accordance to the Maximum Applied Water Allowance using drought tolerant plants, as listed in Metropolitan's list of California friendly plants and Design Standards For Implementation of the Water Efficient Landscape Ordinance</td>
<td>Yes</td>
</tr>
<tr>
<td>0</td>
<td>Other - Customers must repair leaks, breaks, and malfunctions in a timely manner</td>
<td>On-going Long Term Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.</td>
<td>No person shall permit excessive use, loss or escape of water through leaks, breaks, or other malfunctions in the irrigation or distribution system for any period of time after notification and corrected no more than seven days after receiving notice of the condition from the City.</td>
<td>Yes</td>
</tr>
<tr>
<td>0</td>
<td>CII - Restaurants may only serve water upon request</td>
<td>Statewide Prohibition is Required</td>
<td>CII - Customers operating eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drinks are sold, served, or offered for sale, shall not provide drinking water to any person unless expressly requested by the person.</td>
<td>Yes</td>
</tr>
<tr>
<td>Shortage Level</td>
<td>Demand Reduction Actions</td>
<td>On-going Long Term Conservation Savings Measure</td>
<td>Additional Explanation or Reference (optional)</td>
<td>Penalty, Charge, or Other Enforcement?</td>
</tr>
<tr>
<td>---------------</td>
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<td>-----------------------------------------------</td>
<td>------------------------------------------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>0</td>
<td>CII - Lodging establishment must offer opt out of linen service</td>
<td>CII - Customers operating hotel, motel, and other commercial lodging establishments shall provide persons the option of not having towels and linen laundered daily. Commercial lodging establishments must prominently display notice of this option.</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>CII - Other CII restriction or prohibition</td>
<td>No customer shall install a new single pass cooling system in a building or premises requesting new water service.</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Other - Prohibit vehicle washing except at facilities using recycled or recirculating water</td>
<td>All commercial conveyor car wash systems in commercial car washing facilities shall be operational recirculating water systems, or the customer must have secured an exemption from this requirement.</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>CII - Commercial kitchens required to use pre-rinse spray valves</td>
<td>Food preparation establishments must use water efficient kitchen spray valves.</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Landscape - Prohibit certain types of landscape irrigation</td>
<td>New and existing 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.</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

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

These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.
<table>
<thead>
<tr>
<th>Shortage Level</th>
<th>Demand Reduction Actions</th>
<th>How much is this going to reduce the shortage gap?</th>
<th>Additional Explanation or Reference (optional)</th>
<th>Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Other</td>
<td>On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.</td>
<td>No customer shall use water from any fire hydrant for any purpose other than fire suppression or emergency aid without first: (1) requesting and posting the appropriate fees at the City, and (2) obtaining a hydrant meter to record all water consumption for a specified project.</td>
<td>Yes</td>
</tr>
<tr>
<td>0</td>
<td>Other - Prohibit use of potable water for construction and dust control</td>
<td>On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.</td>
<td>No person shall use potable water for soil compaction or dust control in a construction site where there is an available and feasible source of recycled water or non-potable water approved by the Department of Public Health and appropriate for such use.</td>
<td>Yes</td>
</tr>
<tr>
<td>0</td>
<td>CII - Commercial kitchens required to use pre-rinse spray valves</td>
<td>On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.</td>
<td>No customer may operate a commercial kitchen without Water-Conserving Pre-Rinse Kitchen Spray Valves. New or remodeled commercial kitchens shall be equipped with water-conserving kitchen spray valves.</td>
<td>Yes</td>
</tr>
<tr>
<td>0</td>
<td>Improve Customer Billing</td>
<td>On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.</td>
<td>AMI Customer Leak Reports with Detection and Repair Assistance</td>
<td>No</td>
</tr>
<tr>
<td>1</td>
<td>Expand Public Information Campaign</td>
<td>3%</td>
<td>Community Outreach and Messaging (Expand Public Information Campaign)</td>
<td>No</td>
</tr>
</tbody>
</table>
### Submittal Table 8-2: Demand Reduction Actions

<table>
<thead>
<tr>
<th>Shortage Level</th>
<th>Demand Reduction Actions</th>
<th>How much is this going to reduce the shortage gap?</th>
<th>Additional Explanation or Reference (optional)</th>
<th>Penalty, Charge, or Other Enforcement?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Provide Rebates on Plumbing Fixtures and Devices</td>
<td>1%</td>
<td>Increase awareness to rebate incentives, mailers, web, email, social media and PSAs</td>
<td>No</td>
</tr>
<tr>
<td>1</td>
<td>Reduce System Water Loss</td>
<td>2%</td>
<td>More Aggressive Leak Detection and Repair</td>
<td>No</td>
</tr>
<tr>
<td>1</td>
<td>Increase Water Waste Patrols</td>
<td>3%</td>
<td>Increase Water Waste Patrols</td>
<td>Yes</td>
</tr>
<tr>
<td>1</td>
<td>Other - Customers must repair leaks, breaks, and malfunctions in a timely manner</td>
<td>1%</td>
<td>Fix leaks or faulty sprinklers promptly/within 72 hrs.</td>
<td>Yes</td>
</tr>
<tr>
<td>1</td>
<td>Landscape - Limit landscape irrigation to specific days</td>
<td>5%</td>
<td>Irrigation shall be limited to 4 days per week turf watering when using potable water in summer and 2 days in winter. Plant containers, trees, shrubs and vegetable gardens may be watered additional days using only drip irrigation or hand watering.</td>
<td>Yes</td>
</tr>
</tbody>
</table>
### Submittal Table 8-2: Demand Reduction Actions

<table>
<thead>
<tr>
<th>Shortage Level</th>
<th>Demand Reduction Actions</th>
<th>How much is this going to reduce the shortage gap?</th>
<th>Additional Explanation or Reference (optional)</th>
<th>Penalty, Charge, or Other Enforcement?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Other water feature or swimming pool restriction</td>
<td>1%</td>
<td>No customer may use more than one foot of potable water per week to fill or refill a residential swimming pool or outdoor spa.</td>
<td>Yes</td>
</tr>
<tr>
<td>1</td>
<td>Landscape - Limit landscape irrigation to specific days</td>
<td>5%</td>
<td>No customer shall use potable water to irrigate any lawn, landscape or other vegetated area except on the scheduled irrigation days established</td>
<td>Yes</td>
</tr>
<tr>
<td>1</td>
<td>Water Features - Restrict water use for decorative water features, such as fountains</td>
<td>1%</td>
<td>No customer may use potable water to fill or refill an ornamental lake, pond, or fountain, more than once per week, except to the extent needed to sustain aquatic life</td>
<td>Yes</td>
</tr>
<tr>
<td>1</td>
<td>Improve Customer Billing</td>
<td>5-10%</td>
<td>Enhance customer billing reports to include more details on water use: No customer shall use more water during any billing period than the percentage of the base amount established in the resolution declaring the Level One water supply shortage, which percentage shall be in the range from one hundred (100) percent to ninety (90) percent of the base amount.</td>
<td>No</td>
</tr>
<tr>
<td>2</td>
<td>Landscape - Limit landscape irrigation to specific times</td>
<td>3%</td>
<td>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 shut off device, or for adjusting or repairing an irrigation system for short periods of time.</td>
<td>Yes</td>
</tr>
<tr>
<td>Shortage Level</td>
<td>Demand Reduction Actions</td>
<td>How much is this going to reduce the shortage gap? Include units used (volume type or percentage)</td>
<td>Additional Explanation or Reference (optional)</td>
<td>Penalty, Charge, or Other Enforcement?</td>
</tr>
<tr>
<td>----------------</td>
<td>--------------------------</td>
<td>------------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>2</td>
<td>Other - Customers must repair leaks, breaks, and malfunctions in a timely manner</td>
<td>1%</td>
<td>Fix leaks or faulty sprinklers within 48 hrs</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>Landscape - Limit landscape irrigation to specific days</td>
<td>5-10%</td>
<td>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.</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>Increase Water Waste Patrols</td>
<td>1%</td>
<td>Increase Water Waste Patrols</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>Water Features - Restrict water use for decorative water features, such as fountains</td>
<td>1%</td>
<td>No customer may use potable water to fill or refill an ornamental lake, pond, or fountain more than once every other week, except to the extent needed to sustain aquatic life</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>Pools - Allow filling of swimming pools only when an appropriate cover is in place.</td>
<td>1%</td>
<td>Customers may use no more than six inches of potable water per week to fill or refill a residential swimming pool or outdoor spa.</td>
<td>No</td>
</tr>
<tr>
<td>Shortage Level</td>
<td>Demand Reduction Actions</td>
<td>How much is this going to reduce the shortage gap? Include units used (volume type or percentage)</td>
<td>Additional Explanation or Reference (optional)</td>
<td>Penalty, Charge, or Other Enforcement?</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>2</td>
<td>Improve Customer Billing</td>
<td>5-10%</td>
<td>Enhance customer billing reports to include more details on water use: No customer shall use more water during any billing period than the percentage of the base amount established in the resolution declaring the Level Two water supply shortage, which percentage shall be in the range from ninety (90) percent to seventy-five (75) percent of the base amount.</td>
<td>No</td>
</tr>
<tr>
<td>2</td>
<td>Other</td>
<td>0-1%</td>
<td>The City may reduce non-potable water allocations in all categories to meet the available water supply.</td>
<td>Yes</td>
</tr>
<tr>
<td>3</td>
<td>Other - Customers must repair leaks, breaks, and malfunctions in a timely manner</td>
<td>1%</td>
<td>Fix leaks or faulty sprinklers within 24 hrs</td>
<td>Yes</td>
</tr>
<tr>
<td>3</td>
<td>Landscape - Limit landscape irrigation to specific days</td>
<td>10-20%</td>
<td>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.</td>
<td>Yes</td>
</tr>
<tr>
<td>3</td>
<td>Increase Water Waste Patrots</td>
<td>1%</td>
<td>Increase Water Waste Patrots</td>
<td>Yes</td>
</tr>
<tr>
<td>Shortage Level</td>
<td>Demand Reduction Actions</td>
<td>How much is this going to reduce the shortage gap? (Include units used (volume type or percentage))</td>
<td>Additional Explanation or Reference (optional)</td>
<td>Penalty, Charge, or Other Enforcement?</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>3</td>
<td>Water Features - Restrict water use for decorative water features, such as fountains</td>
<td>1%</td>
<td>No customer may use potable water to fill or refill an ornamental lake, pond, or fountain more than once every other week, except to the extent needed to sustain aquatic life</td>
<td>Yes</td>
</tr>
<tr>
<td>3</td>
<td>Pools - Allow filling of swimming pools only when an appropriate cover is in place.</td>
<td>0-1%</td>
<td>Customers may use no more than three inches of potable water per week to fill or refill a residential swimming pool or outdoor spa.</td>
<td>No</td>
</tr>
<tr>
<td>3</td>
<td>Improve Customer Billing</td>
<td>5-10%</td>
<td>Enhance customer billing reports to include more details on water use: No customer shall use more water during any billing period than the percentage of the base amount established in the resolution declaring the Level Three water shortage, which percentage shall be in the range from seventy-five (75) percent to sixty (60) percent of the base amount.</td>
<td>No</td>
</tr>
<tr>
<td>4</td>
<td>Landscape - Prohibit certain types of landscape irrigation</td>
<td>10-20%</td>
<td>No customer shall use potable water to irrigate any lawn, landscape or other vegetated area.</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>Other - Customers must repair leaks, breaks, and malfunctions in a timely manner</td>
<td>1%</td>
<td>Fix leaks or faulty sprinklers within 24 hrs</td>
<td>Yes</td>
</tr>
</tbody>
</table>
### Submittal Table 8-2: Demand Reduction Actions

<table>
<thead>
<tr>
<th>Shortage Level</th>
<th>Demand Reduction Actions</th>
<th>How much is this going to reduce the shortage gap?</th>
<th>Additional Explanation or Reference (optional)</th>
<th>Penalty, Charge, or Other Enforcement?</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Increase Water Waste Patrols</td>
<td>1%</td>
<td>Increase Water Waste Patrols</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>Water Features - Restrict water use for decorative water features, such as fountains</td>
<td>1%</td>
<td>No customer may use potable water to fill or refill an ornamental lake, pond, or fountain, except to the extent needed to sustain aquatic life</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>Moratorium or Net Zero Demand Increase on New Connections</td>
<td>0-1%</td>
<td>The City will not (1) provide new potable water service, new temporary meters, or new permanent meters or (2) issue statements of immediate ability to serve or to provide potable water service.</td>
<td>No</td>
</tr>
<tr>
<td>4</td>
<td>Other</td>
<td>1%</td>
<td>No customer may use potable water to fill or refill a residential swimming pool or outdoor spa.</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>Improve Customer Billing</td>
<td>5-10%</td>
<td>Enhance customer billing reports to include more details on water use: No customer shall use more water during any billing period than the percentage of the base amount established in the resolution declaring the Level Four water shortage, which percentage shall be less than sixty (60) percent of the base amount.</td>
<td>No</td>
</tr>
</tbody>
</table>
## Submittal Table 8-2: Demand Reduction Actions

<table>
<thead>
<tr>
<th>Shortage Level</th>
<th>Demand Reduction Actions</th>
<th>How much is this going to reduce the shortage gap? Include units used (volume type or percentage)</th>
<th>Additional Explanation or Reference (optional)</th>
<th>Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Other</td>
<td>0-70%</td>
<td>Water use for public health and safety purposes only. Customer rationing may be implemented.</td>
<td>No</td>
</tr>
</tbody>
</table>

NOTES:
## Submittal Table 8-3: Supply Augmentation and Other Actions

<table>
<thead>
<tr>
<th>Shortage Level</th>
<th>Supply Augmentation Methods and Other Actions by Water Supplier</th>
<th>How much is this going to reduce the shortage gap? Include units used (volume type or percentage)</th>
<th>Additional Explanation or Reference (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 through 6</td>
<td>Other Purchases</td>
<td>0 - 100%</td>
<td>Additional imported water purchase through MWDOC</td>
</tr>
<tr>
<td>1 through 6</td>
<td>Other Purchases</td>
<td>0 - 100%</td>
<td>Additional groundwater pumping in the Orange County Groundwater Basin</td>
</tr>
</tbody>
</table>

**NOTES:**
Appendix B

Newport Beach Municipal Code Chapter 14.16 Water Conservation and Supply Level Regulations

Below is the weblink to the current ordinance (last accessed on May 3, 2021)
https://www.codepublishing.com/CA/NewportBeach/#/NewportBeach14/NewportBeach14.html
Appendix C

Water Shortage Communication Protocol
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 Newport 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 and updated every 5 years. Refer to the ERP for full details.

Water Shortage Communication Protocol

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 City’s 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 for effective communication to assist customers with curtailing their water use.

Goals & Objectives

The goal of the City’s Water Shortage Communication Protocol is to create a local awareness of water shortage conditions and to encourage water efficiency from all citizens. The Water Shortage Communication Protocol 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 Protocol 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 protocol to be the most effective with its unique customer profile and water demands. Based on the 2025 projections, the City single family water use is expected to account for approximately 47% of the total water demand. Commercial, industrial, and institution water use is projected to account for approximately 21% of total demand. Multifamily and landscape use are both projected to account for approximately 13% and 19% of total demand, respectively. By understanding the local customer and water use profile, the City can implement a Water Shortage Communication Protocol 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
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
- Public Service Announcements
- Direct Mailings
- School Education Programs
- AMI Customer Portal

Communication Tactics and Implementation Schedule

The City understands their responsibility to be transparent and accountable, have a positive impact on the community, and provide actionable guidance in times of water shortage. Carefully developed and executed communication tactics and an 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 Protocol Tactics. These tactics will be implemented according to the schedule and objectives defined in Table 1.

This Water Shortage Communication Protocol is designed to have a standard set of tactics that 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, as defined in Section 3.4.1 of the WSCP and DWR Table 8-2, as water shortage levels increase from 1 to 4. In Shortage Level 0, shortage communication will include a general overview of water efficiency. 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 Water$mart Website: Provide information and link directing viewers to 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.

Consumer Confidence Reports (CCRs): provide water efficiency information in CCR, including water shortage level information.

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.

Local NBTV Station

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.

Promotional Giveaways: Provide promotional water efficiency devices or messaging materials (i.e. hats, stickers, mugs, etc.) promoting water efficiency and response.

Lawn signs at neighborhood entrance points.

Changeable message signs (portable trailer signage).

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, water-efficient 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 Canvassing: City staff and/or representatives will canvas neighborhoods to educate residents of water shortage status and response action requirements.

Partnerships/Regional Initiatives

- Mobilize Drought Task Force
- Dept of Water Resources: Utilize state messaging programs, messages, and resources.
- MET/MWODOC: Utilize regional messaging programs, messages, and resources to communicate with local water users.
- Coordinate messaging with other member agencies and public partnerships.

Monitor, Evaluate, and Amend

The effectiveness of the City’s Communication Protocol depends on a large variety of factors, including technological advancements or changes, the rise and fall of audience engagement, current news or media concentration, political changes in
leadership and focus, and the weather. The Communication Protocol will be evaluated for effectiveness and updated accordingly based on available metrics (i.e. website traffic) and stakeholder feedback.
### Table 1: Water Shortage Communication Protocol Implementation Schedule

<table>
<thead>
<tr>
<th>Water Shortage Level</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Goal</strong></td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Create an awareness of water shortage level status and encourage water efficiency from all citizens.</td>
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</tr>
<tr>
<td><strong>Objective</strong></td>
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<td></td>
</tr>
<tr>
<td>Permanent Water Waste Prohibitions, Water Awareness</td>
<td>Compliance with response actions, 10% reduction in water use</td>
<td>Compliance with response actions, 25% reduction in water use</td>
<td>Compliance with response actions, 40% reduction in water use</td>
<td>Compliance with response actions, &gt;40% reduction in water use</td>
<td></td>
</tr>
<tr>
<td>Outreach Strategies</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1) City Website</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2) Written and Print Media</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3) Social Media</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>4) Community Outreach</td>
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</tr>
<tr>
<td>5) Educational Outreach</td>
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<tr>
<td>6) Direct communication with high water users</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>7) Communication with commercial/industrial water users</td>
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<tr>
<td>8) City Water Efficiency Programs</td>
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<tr>
<td>9) Water Use Communications</td>
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<td></td>
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<tr>
<td>10) Partnerships/Regional Initiatives</td>
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<td></td>
</tr>
<tr>
<td><strong>Tactics</strong></td>
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<td>Website</td>
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</tr>
<tr>
<td>City Website</td>
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<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Water Shortage Indicator</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Promote MWDOC OC WaterSmart Website</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>X</td>
</tr>
<tr>
<td><strong>Social Media</strong></td>
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<td></td>
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</tr>
<tr>
<td>Facebook</td>
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<td>X</td>
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</tr>
<tr>
<td>Instagram</td>
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</tr>
<tr>
<td>Twitter</td>
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<td>X</td>
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</tr>
<tr>
<td>You Tube</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Digital and Print Media</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flyers/Signage/Brochures</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Consumer Confidence Reports (CCRs)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Media Relations</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>News Stories/News Releases/Newsletters.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Briefing Papers/Talking Points</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>--------------------------------</td>
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</tr>
<tr>
<td>Local NBTV Station</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Community Outreach</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Events</td>
<td></td>
<td>X</td>
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<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Promotional Giveaways.</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Lawn signs</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Changeable message signs</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Educational Outreach</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>School Programs</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Residential Water Efficiency Educational Classes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>City Water Efficiency Programs</strong></td>
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</tr>
<tr>
<td>Rebate/Incentive Programs</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Turf Removal</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Landscape Design Assistance – Residential</td>
<td></td>
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<tr>
<td>California Friendly Landscaping Classes</td>
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<tr>
<td><strong>Direct Customer Communication</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Billing Inserts</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Water Use Notifications</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
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</tr>
<tr>
<td>Neighborhood Canvasing</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Partnerships/Regional Initiatives</strong></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Mobilize Drought Taskforce</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td><strong>Message Frequency</strong></td>
<td>Ongoing, regular messaging</td>
<td>Frequency escalates depending on water shortage level and/or financial budget.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Appendix D

Notice of Public Hearing
March 11, 2021
County of Orange
Attn: Mr. Hugh Nguyen, Clerk Recorder
12 Civic Center Plaza, Room 101
Santa Ana, California 92701

SUBJECT: CITY OF NEWPORT BEACH 2020 URBAN WATER MANAGEMENT PLAN UPDATE

The City of Newport 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.

Water Code section 10621(b) requires an urban water supplier updating its UWMP to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. This letter serves as City’s notice that it is preparing and updating its 2020 UWMP, to be adopted and submitted to the California Department of Water Resources before the July 1, 2021 deadline. City will be adopting its Water Shortage Contingency Plan as part of the 2020 UWMP.

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 (www.newportbeachca.gov) 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 (949) 644-3011, or by email at mvukojevic@newportbeachca.gov.

Sincerely,

Mark Vukojevic
Public Utilities Director
PROOF OF PUBLICATION
(2015.5 C.C.P.)

STATE OF CALIFORNIA
County of Orange

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 action for which the attached notice was published. I am a principal clerk of the Orange Coast Daily Pilot, which was adjudged a newspaper of general circulation on Jan 14, 1938, Cases A6214 for the City of Costa Mesa, County of Orange, and State of California. Attached to this Affidavit is a true and complete copy as was printed and published on the following date(s): May 22, 2021

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated at Fountain Valley, California
on this 24th day of May, 2021.

____________________________________
Allen P. Juezan

10540 Talbert Avenue
Fountain Valley, CA 92708
**LEGAL NOTICE**

**CITY OF NEWPORT BEACH**

**NOTICE OF PUBLIC HEARING**

NOTICE IS HEREBY GIVEN that on Tuesday, June 8, 2021, at 4:00 p.m., or soon thereafter as the matter shall be heard, a public hearing will be conducted in the City Council Chamber at 100 Civic Center Drive, Newport Beach. The City Council of Newport Beach will consider the following:

- The City’s proposed 2020 Urban Water Management Plan (UWMP), 2020 Water Shortage Contingency Plan (WSCP), and Appendix C as 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 10010 through 10066; 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 acre-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 and WSCP.

We encourage our customers and residents to review the draft plan. The draft 2020 UWMP, WSCP, and Appendix C as an Addendum to its 2015 UWMP, are available on the City’s web site at https://www.newportbeachca.gov/government/departments/utilities and at the City Clerk’s office located on the second floor Bay E at 100 Civic Center Drive, Newport Beach, CA.

NOTICE IS HEREBY FURTHER GIVEN The project is exempt under Section 15060(c)(2). Of the State CEQA (California Environmental Quality Act) Guidelines because it will not result in a direct or reasonably foreseeable indirect physical change in the environment.

All interested parties may appear and present testimony in regard to this change. If you challenge this project in court, you may be limited to raising only those issues you raised at the public hearing or in written correspondence delivered to the City, at, or prior to, the public hearing. The change may be continued to a specific future meeting date, and if such an action occurs, additional public notice of the continuance will not be provided. Prior to the public hearing, the agenda, staff report, Urban Water Management Plan, Water shortage Contingency Plan, Addendum, and documents may be reviewed at the City Clerk’s Office, at 100 Civic Center Drive, Newport Beach, California, 92660 or at the City of Newport Beach website at www.newportbeachca.gov. Individuals not able to attend the meeting may contact the Utilities Department or access the City’s website after the meeting to review the action on this item.

**SPECIAL NOTICE REGARDING COVID-19**

Given the Declaration of a State Emergency and Proclamation of Local Emergency related to COVID-19, we recommend that you submit your questions and comments in writing for City Council consideration by sending them to city clerk@newportbeachca.gov. To give the City Council adequate time to review your questions and comments, please submit your written comments by Monday, June 7, 2021 at 5:00 p.m. In addition, members of the public will have the ability to participate in this meeting telephonically. Please review the Agenda for further instructions. The Agenda, staff report and corresponding documents will be posted to the City’s website at www.newportbeachca.gov by end of business day on Friday, June 4, 2021. While the City does not expect there to be any changes to the above process for participating in this meeting, if there is a change, the City will post the information as soon as possible to the City’s website. The City of Newport Beach thanks you in advance for continuing to take precautions to prevent the spread of the COVID-19 virus. If you are unable to participate in the meeting via the process set forth in the agenda, please contact the City Clerk at 949-644-3005 or city clerk@newportbeachca.gov and our staff will attempt to accommodate you.

For questions regarding this public hearing item please contact Mark Vukojevic, Utilities Director, at 949-644-3011 or mvukojevic@newportbeachca.gov.

s/ Leilani I. Brown, MMC, City Clerk, City of Newport Beach
Appendix E

Adopted Water Shortage Contingency Plan Resolution
RESOLUTION NO. 2021-55

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF NEWPORT BEACH, CALIFORNIA, ADOPTING A WATER SHORTAGE CONTINGENCY PLAN

WHEREAS, the Urban Water Management Planning Act, California Water Code Section 10610 et seq. ("Act"), mandates every urban water supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000-acre feet of water annually to prepare an Urban Water Management Plan ("UWMP"), the primary objective of which is to plan for the conservation and efficient use of water, and further mandates it be updated at least once every five years, reviewed periodically, and any amendments or changes to the UWMP indicated by the review be adopted;

WHEREAS, California Water Code Section 10632 requires urban water suppliers to prepare and adopt a Water Shortage Contingency Plan ("WSCP") as part of UWMP;

WHEREAS, the City of Newport Beach ("City") is an urban water supplier under the Act;

WHEREAS, the City must file its WSCP along with its 2020 UWMP with the California Department of Water Resources by July 1, 2021;

WHEREAS, pursuant to California Water Code Section 10652, the California Environmental Quality Act (Division 13, commencing with Section 21000, of the California Public Resources Code) ("CEQA") does not apply to the preparation and adoption of a WSCP as part of a UWMP; and

WHEREAS, a public hearing was held by the City Council on June 8, 2021 at 4:00 p.m., or soon thereafter, in the Council Chambers located at 100 Civic Center Drive, Newport Beach, California, in person and via teleconferencing, observing restrictions due to the Declaration of a State Emergency and Proclamation of Local Emergency related to COVID-19. A notice of time, place and purpose of the public hearing was given in accordance with California Water Code Section 10642, California Government Code Section 6066, and California Government Code Section 54950 et seq. ("Ralph M. Brown Act"). Evidence, both written and oral, was presented to, and considered by, the City Council at this public hearing.
NOW, THEREFORE, the City Council of the City of Newport Beach resolves as follows:

Section 1: The City Council does hereby adopt the City's WSCP as part of the 2020 UWMP and directs that it be filed with the City Clerk, filed with the California Department of Water Resources no later than July 1, 2021, and filed with the California State Library and the County of Orange within 30 days of the adoption of this resolution.

Section 2: The recitals provided in this resolution are true and correct and are incorporated into the operative part of this resolution.

Section 3: If any section, subsection, sentence, clause or phrase of this resolution is, for any reason, held to be invalid or unconstitutional, such decision shall not affect the validity or constitutionality of the remaining portions of this resolution. The City Council hereby declares that it would have passed this resolution, and each section, subsection, sentence, clause or phrase hereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses or phrases be declared invalid or unconstitutional.

Section 4: The City Council finds the adoption of this resolution is not subject to the California Environmental Quality Act ("CEQA") pursuant to California Water Code Section 10652 and further pursuant to Sections 15060(c)(2) (the activity will not result in a direct or reasonably foreseeable indirect physical change in the environment) and 15060(c)(3) (the activity is not a project as defined in Section 15378) of the CEQA Guidelines, California Code of Regulations, Title 14, Division 6, Chapter 3, because it has no potential for resulting in physical change to the environment, directly or indirectly.
Section 5: This resolution shall take effect immediately upon its adoption by the City Council, and the City Clerk shall certify the vote adopting the resolution.

ADOPTED this 8th day of June, 2021.

ATTEST:

Leilani I. Brown
City Clerk

APPROVED AS TO FORM:
CITY ATTORNEY'S OFFICE

Aaron C. Harp
City Attorney
STATE OF CALIFORNIA
COUNTY OF ORANGE
CITY OF NEWPORT BEACH

I, Leilani I. Brown, City Clerk of the City of Newport Beach, California, do hereby certify that the whole number of members of the City Council is seven; the foregoing resolution, being Resolution No. 2021-55 was duly introduced before and adopted by the City Council of said City at a regular meeting of said Council held on the 8th day of June, 2021; and the same was so passed and adopted by the following vote, to wit:

AYES: Mayor Brad Avery, Mayor Pro Tem Kevin Muldoon, Council Member Noah Blom, Council Member Joy Brenner, Council Member Diane Dixon, Council Member Duffy Duffield, Council Member Will O'Neill

NAYS: None

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the official seal of said City this 9th day of June, 2021.

[Signature]
Leilani I. Brown
City Clerk
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