



City of Seal Beach

2020 Water Shortage Contingency Plan

FINAL

Amended May 2022

2020 Water Shortage Contingency Plan

Amended May 2022

Prepared By:

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

Prepared For:

City of Seal Beach
218 8th Street
Seal Beach
California 90740
Phone: 562 431 2527
<https://www.sealbeachca.gov/>

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

Our Ref:

30055240



Lisa Maddaus, P.E.
Technical Lead



Sarina Sriboonlue, P.E.
Project Manager

Contents

Acronyms and Abbreviations.....	v
1 INTRODUCTION AND WSCP OVERVIEW	1-1
1.1 Water Shortage Contingency Plan Requirements and Organization	1-1
1.2 Integration with Other Planning Efforts	1-2
2 BACKGROUND INFORMATION.....	2-1
2.1 City Service Area	2-1
2.2 Relationship to Wholesalers	2-4
2.3 Relationship with Wholesaler Water Shortage Planning.....	2-6
2.3.1 MET Water Surplus and Drought Management Plan	2-6
2.3.2 MET Water Supply Allocation Plan	2-7
2.3.3 MWDOC Water Supply Allocation Plan	2-9
3 WATER SHORTAGE CONTINGENCY PREPAREDNESS AND RESPONSE PLANNING	3-1
3.1 Water Supply Reliability Analysis.....	3-1
3.2 Annual Water Supply and Demand Assessment Procedures.....	3-1
3.2.1 Decision-Making Process	3-2
3.2.1.1 City Steps to Approve the Annual Assessment Determination	3-2
3.2.2 Data and Methodologies	3-3
3.2.2.1 Assessment Methodology	3-3
3.2.2.2 Locally Applicable Evaluation Criteria	3-4
3.2.2.3 Water Supply	3-4
3.2.2.4 Unconstrained Customer Demand	3-5
3.2.2.5 Planned Water Use for Current Year Considering Dry Subsequent Year.....	3-5
3.2.2.6 Infrastructure Considerations	3-6
3.2.2.7 Other Factors	3-6
3.3 Six Standard Water Shortage Levels.....	3-7
3.4 Shortage Response Actions.....	3-9
3.4.1 Demand Reduction	3-9
3.4.2 Supply Augmentation.....	3-9
3.4.3 Operational Changes.....	3-10
3.4.4 Additional Mandatory Restrictions	3-10
3.4.5 Emergency Response Plan (Hazard Mitigation Plan)	3-10
3.4.5.1 MET's WSDM and WSAP	3-11

3.4.5.2	Water Emergency Response Organization of Orange County Emergency Operations Plan 3-11	
3.4.5.3	City of Seal Beach’s Emergency Response Plan	3-12
3.4.6	Seismic Risk Assessment and Mitigation Plan	3-12
3.4.7	Shortage Response Action Effectiveness	3-13
3.5	Communication Protocols	3-13
3.6	Compliance and Enforcement.....	3-15
3.7	Legal Authorities	3-16
3.8	Financial Consequences of WSCP	3-17
3.9	Monitoring and Reporting.....	3-18
3.10	WSCP Refinement Procedures	3-18
3.11	Special Water Feature Distinction	3-19
3.12	Plan Adoption, Submittal, and Availability	3-19
4	REFERENCES	4-1

Tables

Table 3-1: Water Shortage Contingency Plan Levels	3-8
Table 3-2: Communication Procedures.....	3-14
Table 3-3: Shortage Response Compliance and Enforcement Actions.....	3-16
Table 3-4: Agency Contacts and Coordination Protocols.....	3-17

Figures

Figure 2-1: City Service Area.....	2-3
Figure 2-2: Regional Location of the City and Other MWDOC Member Agencies.....	2-5
Figure 2-3: Resource Stages, Anticipated Actions, and Supply Declarations.....	2-7
Figure 3-1: Annual Assessment Reporting Timeline	3-3
Figure 3-2: Water Shortage Contingency Plan Annual Assessment Framework	3-4

Appendices

Appendix A. DWR Submittal Tables

Table 8-1: Water Shortage Contingency Plan Levels

Table 8-2: Demand Reduction Actions

Table 8-3: Supply Augmentation and Other Actions

Appendix B. Seal Beach Water Shortage Contingency Response Ordinance 1695

Appendix C. Notice of Public Hearing

Appendix D. Adopted WSCP Resolution

Acronyms and Abbreviations

%	Percent
AF	Acre-Feet
Annual Assessment	Annual Water Supply and Demand Assessment
BPP	Basin Production Percentage
City	City of Seal Beach
CRA	Colorado River Aqueduct
DDW	Division of Drinking Water
DRA	Drought Risk Assessment
DVL	Diamond Valley Lake
DWR	California Department of Water Resources
EAP	Emergency Operations Center Actions Plan
EOC	Emergency Operation Center
EOP	Emergency Operations Plan
FY	Fiscal Year
GSP	Groundwater Sustainability Plan
HMP	Hazard Mitigation Plan
IAWP	Interim Agricultural Water Program
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
MWDOC	Municipal Water District of Orange County
NIMS	National Incident Management System
OCWD	Orange County Water District
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane Sulfonate
Producer	Groundwater Producer
SEMS	California Standardized Emergency Management System
Supplier	Urban Water Supplier
SWP	State Water Project
SWRCB	California State Water Resources Control Board
UWMP	Urban Water Management Plan
Water Code	California Water Code
WEROC	Water Emergency Response Organization of Orange County
WSAP	Water Supply Allocation Plan
WSCP	Water Shortage Contingency Plan
WSDM	Water Surplus and Drought Management Plan

1 INTRODUCTION AND WSCP OVERVIEW

The Water Shortage Contingency Plan (WSCP) is a strategic planning document designed to prepare for and respond to water shortages. This 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 Seal 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 was included as an appendix to its 2020 UWMP, which was submitted to DWR by July 1, 2021. However, the 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. This WSCP reflects the first amendment in May 2022.

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

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

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

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

Section 3 Water Shortage Contingency Preparedness and Response Planning

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

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

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

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

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

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

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

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

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

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

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

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

1.2 Integration with Other Planning Efforts

As a retail water supplier in Orange County, the City considered other key entities in the development of this WSCP, including the Municipal Water District of Orange County ([MWDOC] (regional wholesale supplier)), the Metropolitan Water District of Southern California ([MET] (regional wholesaler for Southern California and the direct supplier of imported water to MWDOC)), and Orange County Water District ([OCWD] (Orange County Groundwater Basin manager and provider of recycled water in North Orange County)). As a MWDOC member agency, the City also developed this WSCP with input from several coordination efforts led by MWDOC.

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

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

2 BACKGROUND INFORMATION

The City is a predominantly residential community located along the California coastline in Orange County. It was incorporated in 1915 and became a charter city in 1964. The City is administered under a council-manager form of government and is governed by a five-member City council elected by district serving four-year alternating terms. Originally called Bay City, Seal Beach was developed in the early 1900's as a resort destination for residents of the Los Angeles area. Its early growth was accelerated by the construction of the Pacific Electric Railway Trolley, and in 1926, oil was discovered in the City, and the oil boom that followed resulted in the development of Seal Beach into the residential community it is today.

2.1 City Service Area

The City is bordered to the north by the City of Los Alamitos, and the unincorporated Rossmoor community; to the east by the Cities of Garden Grove, Westminster, and Huntington Beach; to the south by the Pacific Ocean and City of Huntington Beach; and to the west by the City of Long Beach.

Rossmoor Center, located in the City, is served by an investor-owned water utility, the Golden State Water Company, and thus, the WSCP is limited to those communities receiving water service from the City and covers an aerial extent of approximately 7,135 acres within the City's boundaries. The Leisure World Retirement Community, with 6,808 dwelling units, is served by the City through three master meters. The City maintains the water distribution facilities and the fire hydrants within Leisure World.

The service area is divided into several distinct communities as shown in Figure 2-1 and described below:

- **Old Town**, which is the area south of Pacific Coast Highway and Marina Drive, between First Street and Seal Beach Boulevard, was developed in the 1920's. It is the oldest area of the City. High density residential and commercial land uses are prevalent. Large single-family residential lots are found in the Gold Coast District. The City's mile long beach in Old Town is used for surfing and swimming. The Seal Beach Pier, located at the end of Main Street, provides fishing facilities.
- **Bridgeport** is the area west of Pacific Coast Highway north of Marina Drive and southeast of the San Gabriel River. It was primarily developed in the 1960's and consists of medium and high-density residential land uses. It includes the Seal Beach Trailer Park, and Oakwood Apartments. Old Town and Bridgeport cover 276 acres.
- **Marina Hill** was developed in the 1950's and consists mostly of single-family homes. This area covers 201 acres north of Pacific Coast Highway and west of Seal Beach Boulevard, adjacent to the south edge of the Hellman Ranch property. It is further divided into Marina Hill-North and Marina Hill South, with Bolsa Avenue forming the boundary.
- **Los Cerritos Wetlands/Hellman Properties (previously called Hellman Ranch)** covers 199 acres and is located west of Seal Beach Boulevard and north of Marina Hill. The development includes 100 acres of open space, freshwater wetlands and 70 single-family residential units.

- **The Boeing Facility, Police Facility and City Yard** are located on 107 acres between Hellman Ranch and Westminster Avenue, west of Seal Beach Boulevard. This area is zoned for light industry. The Boeing Facility supports Boeing's commercial aviation program. Engineering and design operations are also conducted from this facility. Development plans for the area include 31 acres of industrial, 19 acres of commercial, and a 120 room hotel on 2 acres.
- **Surfside**, a colony that was incorporated in the 1930's, became a part of Seal Beach in 1969. The area consists of single-family dwelling units located on 10 acres of the south spit of Anaheim Bay. Although a gated community, pedestrian and bicycle access to the beach is available.
- **Leisure World**, completed in 1962, covers the portion of the City between Westminster Avenue and the San Diego Freeway westerly of Seal Beach Boulevard. It is a gated community of 533 acres with 6,608 dwelling units, four club houses, and a nine-hole golf course. Leisure World is a retirement community for seniors 55 years and older. Medical, religious, commercial, and recreational facilities are all provided within the compound limits. The existing population is 8,400.
- **College Park East** is a single-family residential area developed in the late 1960's. It is located on 292 acres between the San Diego Freeway and Lampson Avenue, west of Bolsa Chica Channel in the northeast section of the City.
- **Bixby Old Ranch and Old Ranch Golf Course** are located north of Lampson Avenue and east of Seal Beach Boulevard. Most of Bixby Old Ranch has recently been developed. This area covers 230 acres. The golf course is served through two meters. Irrigation water to the golf course is provided by a private on-site well.
- **College Park West** is a 62-acre small residential community located along San Gabriel River northeast of Leisure World. Water service to College Park West is provided through a metered supply connection from Leisure World.
- **The Seal Beach National Wildlife Refuge** was established in 1972 and preserves 911 acres of salt marsh and upland area in Anaheim Bay. The refuge is located within the boundaries of the U.S. Naval Weapons Station and there is no public access.
- **Sunset Aquatic Park** was acquired by the County in 1962 from the U.S. Navy. It encompasses 67 acres of Anaheim Bay and is the site of a public marina and park.
- **The U.S. Naval Weapons Station** was established in 1944. It covers approximately 5,000 acres of land located between Seal Beach Boulevard and Bolsa Chica Road from the San Diego Freeway to Pacific Coast Highway.

Seal Beach 2020 Water Shortage Contingency Plan

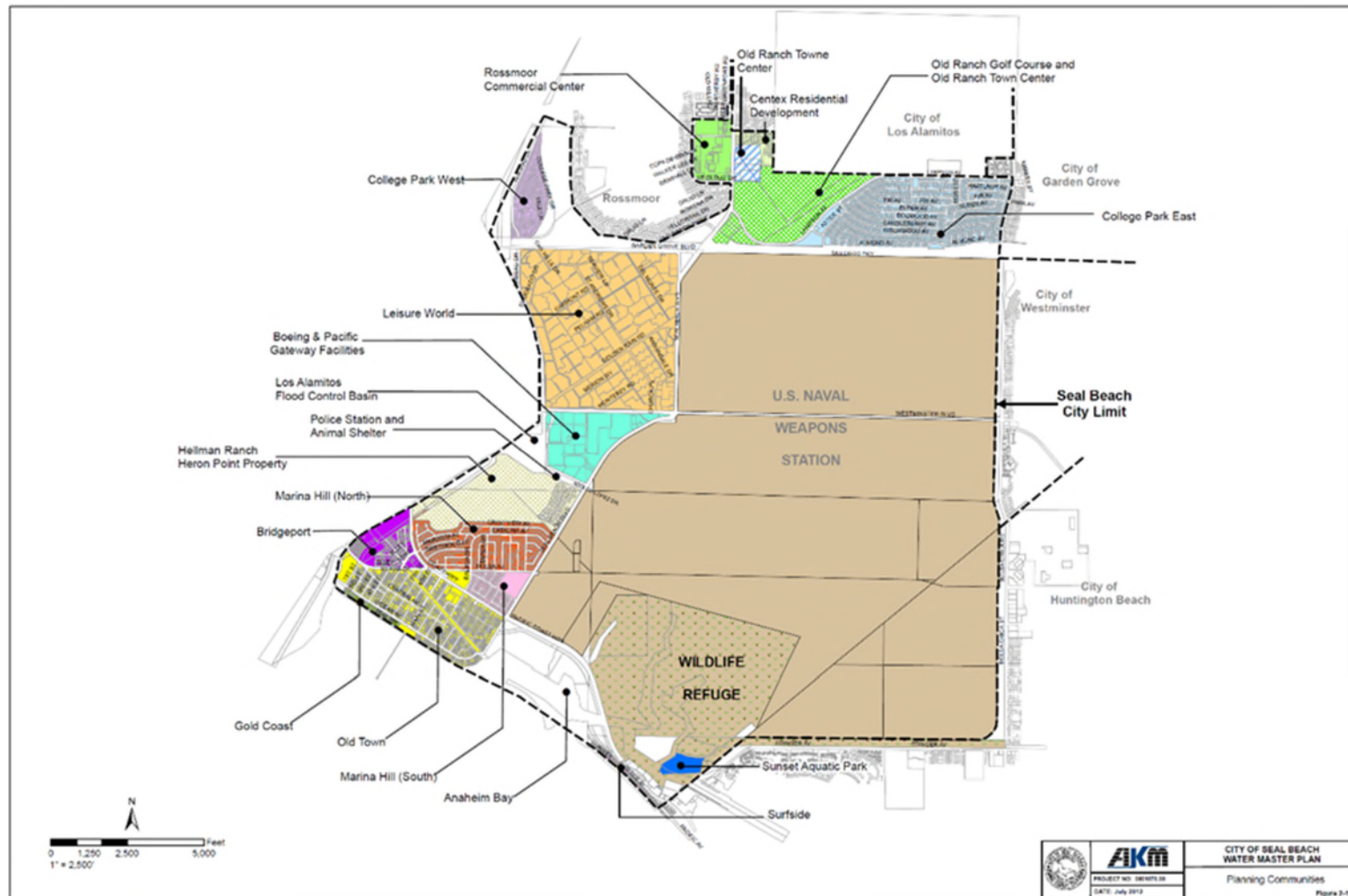


Figure 2-1: City Service Area

2.2 Relationship to Wholesalers

The Metropolitan Water District of Southern California: 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.

The Municipal Water District of Orange County: 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.

Seal Beach 2020 Water Shortage Contingency Plan



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

2.3 Relationship with Wholesaler Water Shortage Planning

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

2.3.1 MET Water Surplus and Drought Management Plan

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

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

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

- **Shortage:** MET can meet full-service demands and partially meet or fully meet interruptible demands using stored water or water transfers as necessary (Stages 1-3).
- **Severe Shortage:** MET can meet full-service demands only by making withdrawals from storage, calling on its water transfers, and possibly calling for extraordinary conservation and reducing deliveries under the Interim Agricultural Water Program (IAWP) (Stages 4-5).
- **Extreme Shortage:** MET must allocate available imported supplies to full-service customers (Stage 6).

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

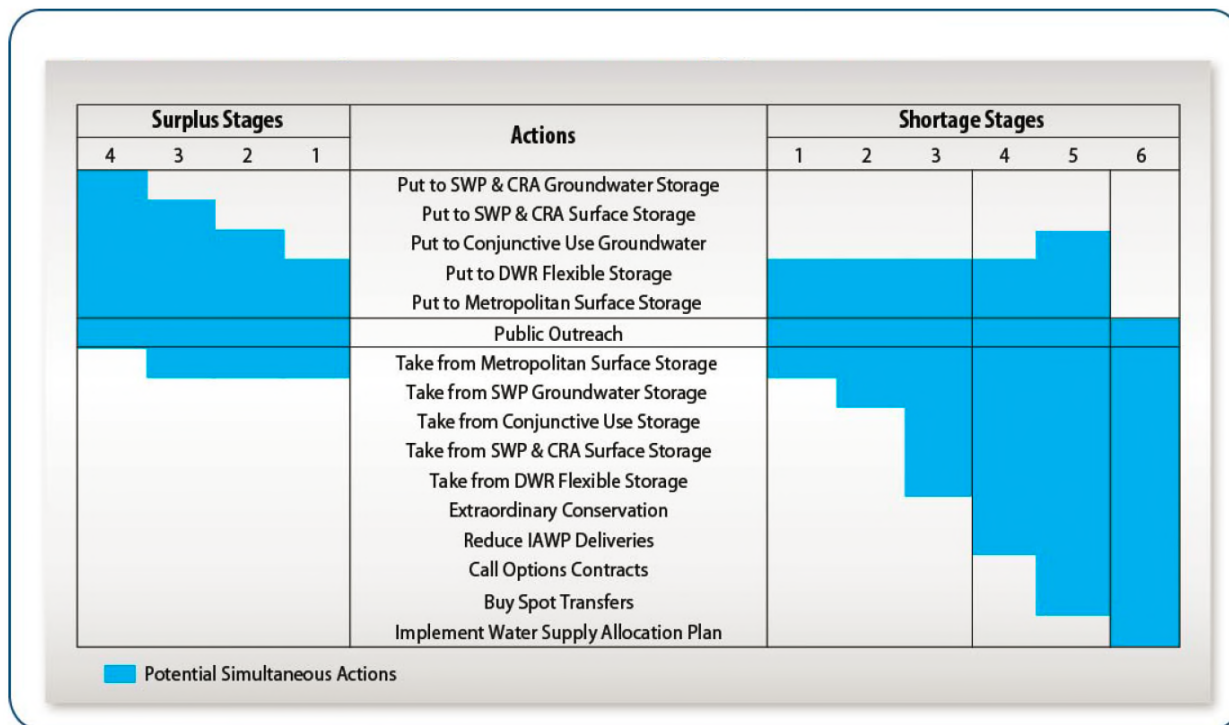


Figure 2-3: Resource Stages, Anticipated Actions, and Supply Declarations
Source: MET, 1999.

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

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

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

2.3.2 MET Water Supply Allocation Plan

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

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

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

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

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

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

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

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

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

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

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

2.3.3 MWDOC Water Supply Allocation Plan

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

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

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

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

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

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

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

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

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

according to the retail agency's prorated share (acre-feet [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 (Seal 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 drought supplies from MWDOC/MET and ongoing conservation program efforts. The City has also added reliability through receiving the majority of its water supply from groundwater from the OC Basin and supplemental supplies from MWDOC/MET. 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 Sections 6 and 7 (Seal Beach, 2021).

3.2 Annual Water Supply and Demand Assessment Procedures

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

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

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

3.2.1 Decision-Making Process

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

3.2.1.1 City Steps to Approve the Annual Assessment Determination

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

The City 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 in by OCWD Board of Directors. Based on the projected water demand and water modeled water supply, over the long-term, OCWD anticipates sustainably supporting a BPP of 85%; however, volumes of groundwater and imported water may vary depending on OCWD's actual BPP projections. A supply reduction that may result from the annual BPP projection will be included in the Annual Assessment.

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

The City Manager and/or his or her designated representative shall review the Annual Assessments from MET, MWDOC, and OCWD and incorporate the finding into the City's assessment. The City Manager and/or his or her designee will authorize the City's Annual Assessment determining specific shortage response action necessary to prudently plan for water supply needs to its customers, and/or or comply with regulations and/or restrictions implemented by the State Water Resources Control Board, MET, MWDOC, or OCWD. The City will formally submit assessment findings to DWR prior to the July 1 deadline.

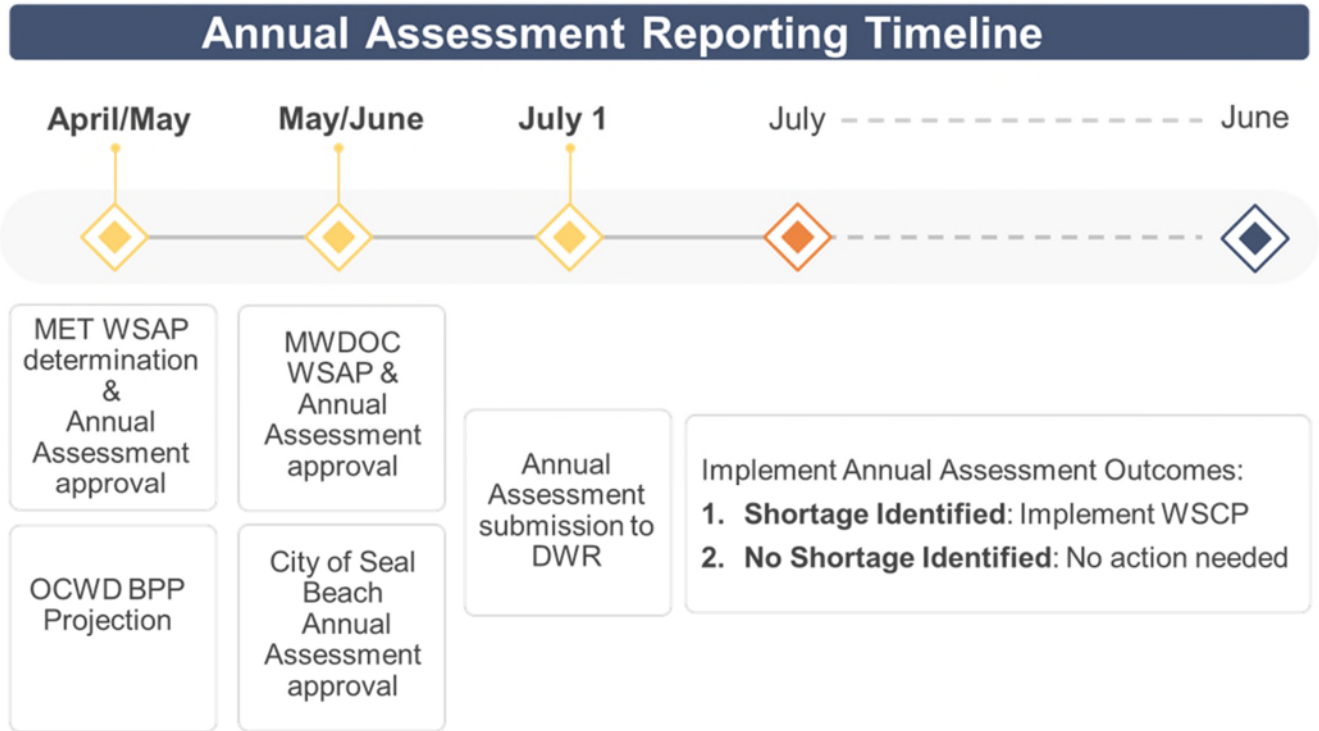


Figure 3-1: Annual Assessment Reporting Timeline

3.2.2 Data and Methodologies

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

3.2.2.1 Assessment Methodology

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

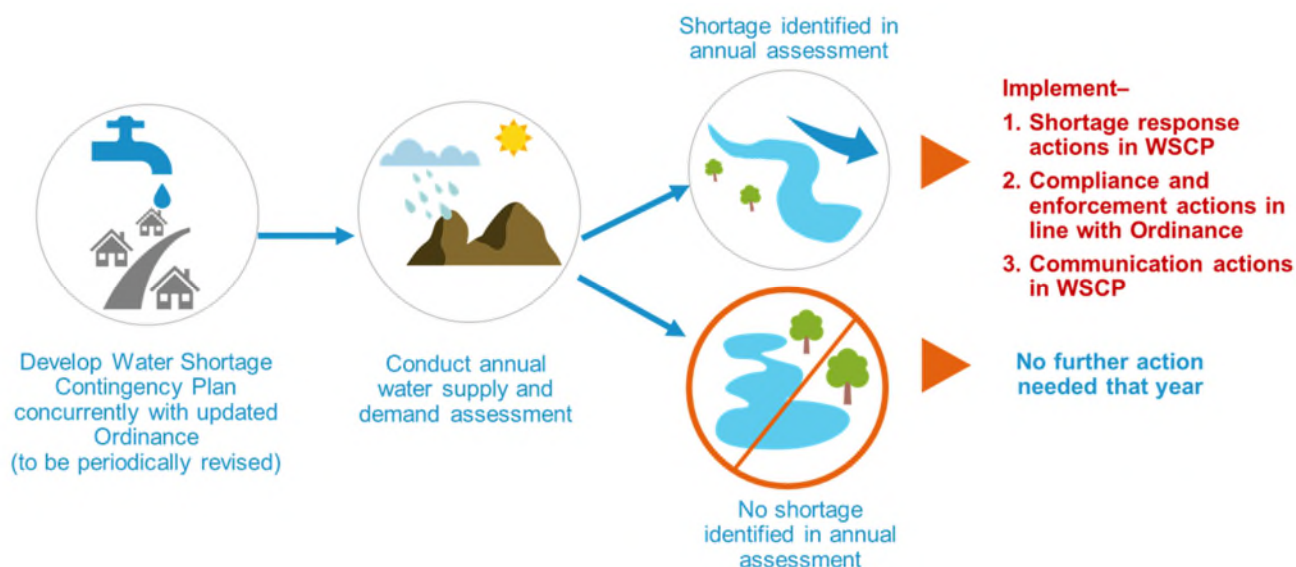


Figure 3-2: Water Shortage Contingency Plan Annual Assessment Framework

3.2.2.2 Locally Applicable Evaluation Criteria

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

The City will also continue to monitor emerging supply and demand conditions related to supplemental imported water from MWD/OC/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 MWD/OC's wholesale supply and demand, such as groundwater replenishment, surface water and local supply production, can differ significantly from earlier projections throughout the year.

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

3.2.2.3 Water Supply

As detailed in the City's 2020 UWMP, the City meets all of its customers' demands with a combination of local groundwater from the OC Basin and imported water from MWD/OC/MET. The City's main source of water supply is groundwater, with imported water making up the rest of the City's water supply portfolio. In fiscal year (FY) 2019-20, the City relied on 65% groundwater and 35% imported water. It is projected that by 2045, the water

supply portfolio will change to approximately 85% groundwater and 15% imported water, reflecting the increase in OCWD's BPP to 85% (Seal 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 (Seal Beach, 2021). Water demands in a five-year consecutive drought are calculated as a 6% increase in water demand above a normal year for each year of the drought (CDM Smith, 2021).

3.2.2.5 Planned Water Use for Current Year Considering Dry Subsequent Year

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

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

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

The water demand forecasting model developed for the Demand Forecast TM isolated the impacts that weather and future climate can have on water demand through the use of a statistical model. The impacts of hot/dry weather conditions 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 (Seal Beach, 2021).

3.2.2.6 Infrastructure Considerations

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

Specifically for the City, infrastructure considerations that could impact water supply reliability include:

- Power outages and surges.
- Wells or pumps temporarily out of service during rehabilitation projects, improvements, or maintenance.
- Capital projects including the Lampson Well connection improvement, Hellman Ranch 18-inch line rehabilitation, 405 Freeway widening water line reconfiguration, Lampson Ave 12-inch water main replacement, and other water main replacements in various parts of the system.
- Other considerations such as the age of lines and the single feed water line to Surfside and Sunset Aquatic Park.

3.2.2.7 Other Factors

For the Annual Assessment, any known issues related to water quality would be considered for their potential effects on water supply reliability. Specifically for the City, Lampson Well has an nuisance odor issue.

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. The City has 4 wells none of which is impacted by PFAS.

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

In April 2020, OCWD as the groundwater basin manager, executed an agreement with the impacted Producers to fund and construct the necessary treatment systems for production wells impacted by PFAS compounds. The

PFAS treatment projects includes the design, permitting, construction, and operation of PFAS removal systems for impacted Producer production wells. Each well treatment system will be evaluated for use with either granular activated carbon or ion exchange for the removal of PFAS compounds. These treatment systems utilize vessels in a lead-lag configuration to remove PFOA and PFOS to less than 2 ppt (the current non-detect limit). Use of these PFAS treatment systems are designed to ensure the groundwater supplied by Producer wells can be served in compliance with current and future PFAS regulations. With financial assistance from OCWD, the Producers will operate and maintain the new treatment systems once they are constructed.

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

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

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

3.3 Six Standard Water Shortage Levels

Per Water Code Section 10632 (a)(3)(A), the City must include the six standard water shortage levels that represent shortages from the normal reliability as determined in the Annual Assessment. The shortage levels have been standardized to provide a consistent regional and statewide approach to conveying the relative severity of water supply shortage conditions. This is an outgrowth of the severe statewide drought of 2013-2016, and the widely recognized public communication and state policy uncertainty associated with the many different local definitions of water shortage levels.

The six standard water shortage levels correspond to progressively increasing estimated shortage conditions (up to 10, 20, 30, 40, 50, and greater than 50% shortage compared to the normal reliability condition) and align with the response actions the Supplier would implement to meet the severity of the impending shortages (Table 3-1).

Table 3-1: Water Shortage Contingency Plan Levels

Submittal Table 8-1 Water Shortage Contingency Plan Levels		
Shortage Level	Percent Shortage Range	Shortage Response Actions
0	0% (Normal)	A Level 0 Water Supply Shortage – Condition exists when the City notifies its water users that no supply reductions are anticipated in this year. The City proceeds with planned water efficiency best practices to support consumer demand reduction in line with state mandated requirements and local City goals for water supply reliability. Permanent water waste prohibitions are in place as stipulated in the City's Water Shortage Contingency Response Ordinance 1695.
1	Up to 10%	A Level 1 Water Supply Shortage – Condition exists when the City notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 10% is necessary to make more efficient use of water and respond to existing water conditions. The type of event that may prompt the City to declare a Level 1 Water Supply Shortage may include, among other factors, a finding that its wholesale water provider calls for extraordinary water conservation.
2	11% to 20%	A Level 2 Water Supply Shortage – Condition exists when the City notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 20% is necessary to make more efficient use of water and respond to existing water conditions. Upon declaration of a Level 2 Water Supply Shortage condition, the City shall implement the mandatory Level 2 conservation measures identified in its Water Shortage Contingency Response Ordinance 1695.
3	21% to 30%	A Level 3 Water Supply Shortage – Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 30% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
4	31% to 40%	A Level 4 Water Supply Shortage - Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 40% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.

Submittal Table 8-1
Water Shortage Contingency Plan Levels

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

3.4 Shortage Response Actions

Water Code Section 10632 (a)(4) requires the WSCP to specify shortage response actions that align with the defined shortage levels. The City has defined specific shortage response actions that align with the defined shortage levels in DWR Tables 8-2 and 8-3 (Appendix A). These shortage response actions were developed with consideration to the system infrastructure and operations changes, supply augmentation responses, 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 the actions will reduce the gap between supplies and demands to deliver the outcomes necessary to meet the requirements of a given shortage level. This table also identifies the enforcement action, if any, associated with each demand reduction measure.

3.4.2 Supply Augmentation

The supply augmentation actions are described in DWR Table 8-3 (Appendix A). These augmentations represent short-term management objectives triggered by the MET's WSDM Plan and do not overlap with the long-term new

water supply development or supply reliability enhancement projects. Supply Augmentation is made available to the City through MWDOC and MET. The City relies on MET's reliability portfolio of water supply programs including existing water transfers, storage and exchange agreements to supplement gaps in the City's supply/demand balance. MET has developed significant storage capacity (over 5 million AF) in reservoirs and groundwater banking programs both within and outside of the Southern California region. Additionally, MET can pursue additional water transfer and exchange programs with other water agencies to help mitigate supply/demand imbalances and provide additional dry-year supply sources.

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

3.4.3 Operational Changes

During shortage conditions, operations may be affected by supply augmentation or demand reduction responses. The City will consider their operational procedures when it completes its Annual Assessment or as needed to identify changes that can be implemented to address water shortage on a short-term basis. The City considered their operational procedures to identify changes that can be implemented to address water shortage on a short-term basis, including:

- Fill and maintain storage reservoirs at their maximum capacity.
- Postpone unessential system repairs (i.e., certain types of valve replacements) that would result in substantial water loss.
- Limit system flushing.
- Minimize or cease City irrigation and other nonessential water use.

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 Seal Beach Water Shortage Contingency Response Ordinance 1695 (Appendix B).

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 Seal Beach's 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 of 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. Mitigation actions for the City for seismic risks may include (Seal Beach, 2019):

- In coordination with Caltrans, conduct a facilities condition assessment for bridges along evacuation routes to identify bridges that need retrofitting, including considering highest standard improvement options for bridges with seismic deficiencies.
- Encourage the installation of seismically appropriate piping for new or replacement pipelines, in close coordination with local water, natural gas, and other providers.
- Pursue ground improvement projects, such as constructing a high strength capping layer, soil mixing, stone columns, soil wicks, chemical and pressure grouting, and other soil improvement techniques that reduce liquefaction susceptibility.

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. In the context of water shortage response, the purpose may be an emergency water shortage situation, such as may result from an earthquake, or a longer-term, non-emergency, shortage condition, such as may result from a drought. In an emergency, the City will activate the communication protocol detailed in the Emergency Response Plan. In a non-emergency water shortage situation, the City will implement the communication protocols described below.

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 water supply and demand assessment described pursuant to Section 10632.1; and any other relevant communications.

Non-emergency water shortage communication protocols are focused on communicating the water shortage contingency planning actions that can be derived from the results of the Annual Assessment, and it would likely trigger based upon the decision-making process in Section 3.2. Prior to water shortage level declaration, the City will pursue outreach to inform customers of water shortage levels and definitions, targeted water savings for each drought stage, guidelines that customers are to follow during each stage, and sources of current information on the City's supply and demand response status.

The type and degree of communication will vary with each shortage level in order to inform stakeholders of the current water shortage level status and associated shortage response actions, as defined in Section 3.4.1. Predefined communication objectives and tools will ensure the City's ability to message necessary events and information to ensure compliance with shortage response actions. These communication objectives and tools are summarized in Table 3-2.

The City's Public Relations department will lead public information and outreach efforts in close coordination with other MWDOC and MET. The City will share information and provide guidance to its customers as well as monitor the customer response and attitude toward both voluntary and mandatory customer response guidelines. The City's customer outreach is required to successfully achieve targeted water savings during each shortage level.

Table 3-2: Communication Procedures

Shortage level	Communication Objectives	Communication Tools
1	Compliance with shortage response actions, 10% reduction in water use	Social Media, City Media Channel, Educational Material (e.g. Door Hanger, Brochure) Educational Site Visits (Commercial and Residential)
2	Compliance with shortage response actions, 20% reduction in water use	Social Media, City Media Channel, Educational Material (e.g. Door Hanger, Brochure) Educational Site Visits (Commercial and Residential)
3	Compliance with storage response actions, 30% reduction in water use	Social Media, City Media Channel, Educational Material (e.g. Door Hanger, Brochure) Educational Site Visits (Commercial and Residential) PSA by City of Seal Beach City Manager (or City Council)

Shortage level	Communication Objectives	Communication Tools
4	Compliance with storage response actions, 40% reduction in water use	Social Media, City Media Channel, Educational Material (e.g. Door Hanger, Brochure) Educational Site Visits (Commercial and Residential) PSA by City of Seal Beach City Manager (or City Council)
5	Compliance with shortage response actions, 50% reduction in water use	Social Media, City Media Channel, Educational Material (e.g. Door Hanger, Brochure) Educational Site Visits (Commercial and Residential) PSA by City of Seal Beach City Manager (or City Council)
6	Compliance with shortage response actions, >50% reduction in water use	Social Media, City Media Channel, Educational Material (e.g. Door Hanger, Brochure) Educational Site Visits (Commercial and Residential) PSA by City of Seal Beach City Manager (or City Council)

3.6 Compliance and Enforcement

Per the Water Code Section 10632 (a)(6), the City has defined customer compliance, enforcement, appeal, and exemption procedures for triggered shortage response actions in the existing Seal Beach Water Shortage Contingency Response Ordinance 1695 (Appendix B). Communication procedures to ensure customer compliance are described in Section 3.5 and Table 3-3. Table 3-3 summarizes the means the City will use to ensure compliance and enforcement of Shortage Response Actions.

Table 3-3: Shortage Response Compliance and Enforcement Actions

Shortage Response Actions	Compliance	Enforcement
Customer service, education, and communication programs	Reduce water usage	Educational Letter
Water-waste patrols	Eliminate/Cease water wasting activity	Educational Letter/Verbal Warning/Violation Notice/Administrative Civil Penalties
Warning and citation protocols	Correct malfunction (e.g. broken sprinkler), Reduce water usage/ Cease water wasting activity	Violation Notice/Administrative Civil Penalties
Fines and surcharges	Correct malfunction (e.g. broken sprinkler), Reduce water usage/ Cease water wasting activity	Violation Notice/Administrative Civil Penalties

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 Seal Beach Water Shortage Contingency Response Ordinance 1695 (Appendix B). The City intends to update any legal authorities in a subsequently adopted ordinance which will supersede the existing ordinance.

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 3-4 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 3-4: Agency Contacts and Coordination Protocols

Contact	Agency	Coordination Protocols
Jay Cobnes (562) 493-4045 x101	Golden State Water	Directly contact Mr. Cobnes via telephone.
Public Works Director	County of Orange	Phone/email
City Council/City Manager	City of Seal Beach	Meeting/Memo

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 Water Shortage Contingency Response Ordinance 1695 (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 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. The data from these reports 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. If revisions to the WSCP are warranted before the UWMP is updated, the WSCP will be updated outside of the UWMP update cycle. In the

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

3.11 Special Water Feature Distinction

Per Water Code Section 10632 (b), the City has defined water features in that are artificially supplied with water, including ponds, lakes, waterfalls, and fountains, separately from swimming pools and spas, as defined in subdivision (a) of Section 115921 of the Health and Safety Code, in the City's Water Shortage Contingency Response Ordinance 1695 (Appendix B).

3.12 Plan Adoption, Submittal, and Availability

Per Water Code Section 10632 (a)(c), the City provided notice of the availability of the draft 2020 UWMP and draft 2020 WSCP and notice of the public hearing to consider adoption of the WSCP. The public review drafts of the 2020 UWMP and the 2020 WSCP were posted prominently on the City's [website](#) in advance of the public hearing on June 14, 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 C.

The City held the public hearing for the draft 2020 UWMP and draft WSCP on June 14, 2021, at the City Council meeting. The City Council reviewed and approved the 2020 UWMP and the WSCP at its June 14, 2021 meeting after the public hearing. See Appendix D 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 made the WSCP available for public review on its website within 30 days after filing with DWR.

The adoption of the State standard water shortage levels in 2022 triggered an amendment for the 2020 WSCP. The City provided notice of the availability of the amended WSCP and the public hearing to consider the adoption of the amended WSCP. The public review draft of the amended WSCP was posted on the City's [website](#) in advance of the public hearing on May 23, 2022. The City Council will review the amended WSCP at its May 23, 2022 meeting after the public hearing.

An electronic copy of the revised WSCP will be submitted to DWR within 30 days of its adoption. The City will make the amended WSCP available for public review on its website no later than 30 days after filing with DWR.

4 REFERENCES

CDM Smith. (2021, March 30). *Orange County Water Demand Forecast for MWDOC and OCWD Technical Memorandum*.

City of Seal Beach. (2021, July). *2020 Urban Water Management Plan*.

City of Seal Beach. (2019, May). *Local Hazard Mitigation Plan*.

https://www.sealbeachca.gov/Portals/0/Seal%20Beach%20HMP-20190531_Final%20Draft.pdf?ver=2019-06-13-094613-707

Metropolitan Water District of Southern California (MET). (2021a, April). *Water Shortage Contingency Plan*.

http://www.mwdh2o.com/PDF_About_Your_Water/Draft%20Metropolitan%20Water%20Shortage%20Contingency%20Plan%20April%202021.pdf

Metropolitan Water District of Southern California (MET). (2021b, June). *2020 Urban Water Management Plan*.

Metropolitan Water District of Southern California (MET). (1999, August). *Water Surplus and Drought Management Plan*.

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

Municipal Water District of Orange County (MWDOC). (2016). *Water Supply Allocation Plan*.

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

Water Emergency Response Organization of Orange County (WEROC). (2018, March). *WEROC Emergency Operations Plan (EOP)*.

Appendix A

DWR Submittal Tables

Table 8-1: Water Shortage Contingency Plan Levels

Table 8-2: Demand Reduction Actions

Table 8-3: Supply Augmentation and Other Actions

Submittal Table 8-1
Water Shortage Contingency Plan Levels

Shortage Level	Percent Shortage Range	Shortage Response Actions (Narrative description)
0	0% (Normal)	A Level 0 Water Supply Shortage – Condition exists when the City notifies its water users that no supply reductions are anticipated in this year. The City proceeds with planned water efficiency best practices to support consumer demand reduction in line with state mandated requirements and local City goals for water supply reliability. Permanent water waste prohibitions are in place as stipulated in the City's Water Shortage Contingency Response Ordinance 1695.
1	Up to 10%	A Level 1 Water Supply Shortage – Condition exists when the City notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 10% is necessary to make more efficient use of water and respond to existing water conditions. The type of event that may prompt the City to declare a Level 1 Water Supply Shortage may include, among other factors, a finding that its wholesale water provider calls for extraordinary water conservation.
2	11% to 20%	A Level 2 Water Supply Shortage – Condition exists when the City notifies its water users that due to drought or other supply reductions, a consumer demand reduction of up to 20% is necessary to make more efficient use of water and respond to existing water conditions. Upon declaration of a Level 2 Water Supply Shortage condition, the City shall implement the mandatory Level 2 conservation measures identified in the City's Water Shortage Contingency Response Ordinance 1695.
3	21% to 30%	A Level 3 Water Supply Shortage – Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 30% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
4	31% to 40%	A Level 4 Water Supply Shortage - Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 40% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
5	41% to 50%	A Level 5 Water Supply Shortage - Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
6	>50%	A Level 6 Water Supply Shortage – Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that greater than 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.

NOTES:

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions Drop down list <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? For Retail Suppliers Only Drop Down List
0	Landscape - Limit landscape irrigation to specific times	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	Watering or irrigating of lawns, landscaping, and other vegetated areas with potable water between 9:00 a.m. and 5:00 p.m. on any day, except by use of a hand-water shut-off nozzle or device, or for a very short period of time for the limited purpose of adjusting or repairing an irrigaiton system.	
0	Landscape - Limit landscape irrigation to specific times	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	No water user shall cause or allow watering or irrigaiton of lawn, landscape or other vegetated area with potable water using a landscape irrigation system or a watering device that is not continuously attended for longer than 15 mintues watering per day per station. This section does not apply to landscape irrigation systems that exclusively use very low-flow drip type irrigation systems wien no emitter produces more tha 2 gallons of water per hour and weather based controllers or stream rotor sprinklers that meet a 70% efficiency standard.	
0	Other - Require automatic shut of hoses	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	No person shall wash a motor vehicle, trailer, boat or other type of mobile equipment other than by a hand-held bucket or by a hose equipped with a positive shut-off nozzle. This prohibition shall not apply to washing performed at a commercial car wash.	

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
0	Water Features - Restrict water use for decorative water features, such as fountains	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	No person shall operate a water fountain or other decorative water feature that does not use re-circulated water.	
0	Landscape - Restrict or prohibit runoff from landscape irrigation	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	No water user shall cause or allow water to run off landscape areas into adjoining streets, sidewalks, driveways, alleys, gutters, ditches or any paved surfaces due to incorrectly maintained sprinklers, excessive watering or use.	
0	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	Each water user shall repair all leaks from indoor and outdoor plumbing fixture at the user's premises. Such water user shall eliminate any loss or escape of water through breaks, leaks or other malfunctions in the water user's plumbing or distribution system promptly after discovering the leak and in no event in less than 7 days.	
0	CII - Restaurants may only serve water upon request	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	Restaurants shall not offer water service and shall serve water only to a customer that specifically requests water.	

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
0	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	No person shall install non-recirculating water systems in connection with commercial conveyor car wash and commercial laundry systems. Effective on January 1, 2010, the owner or operator of any commercial conveyor car wash system shall install operational re-circulating water systems, or secure a waiver of this requirement from the director.	
0	CII - Other CII restriction or prohibition	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	No person shall install single pass cooling systems in connection with new water service.	

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
0	Other - Prohibit use of potable water for washing hard surfaces	On-going Long Term-Conservation Savings Measure. Not applicable to Water Shortage Contingency Plan quantifiable savings.	Water shall not be used to wash down sidewalks, hard or paved surfaces, including but not limited to sidewalks, walkways, driveways, parking areas, tennis courts, patios or alleys. Notwithstanding this prohibition, a water user may wash down such surfaces 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, a low-volume, high-pressure cleaning machine equipped to recycle any water used, or a low-volume high-pressure water broom.	Yes
0	Landscape - Other landscape restriction or prohibition	Statewide Prohibition is Required	No landscape watering shall occur within 48 hours after measurable precipitation.	
0	Landscape - Other landscape restriction or prohibition	Statewide Prohibition is Required	Irrigating ornamental turf on public street medians is prohibited.	
1	Expand Public Information Campaign	5%	Community Outreach and Messaging (Expand Public Information Campaign to reflect Level 1 Shortage Response Actions).	No

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
1	Landscape - Limit landscape irrigation to specific times	2%	Irrigation shall not be performed except on designated irrigation days and between the hours of 6:00 p.m. and 6:00 a.m. Irrigation may be performed at any time if done by means of a hand-held hose equipped with a positive shut-off nozzle, a hand-held faucet filled bucket of 5 gallons or less, or a drip irrigation system.	Yes
1	Other	2%	Agricultural users and commercial nurseries shall curtail all non-essential water use, but are otherwise exempt from Level 1 measures. Watering of livestock and irrigation of propagation beds are permitted at any time.	Yes
1	Other	1%	Washing of motor vehicles, boats, airplanes and other mobile equipment shall be performed only on designated irrigation days and between the hours of 6:00 p.m. and 6:00 a.m. This prohibition shall not apply to the washing of garbage trucks, vehicles used to transport food and perishables and other mobile equipment for which frequent cleaning is essential for the protection of the public health, safety and welfare.	Yes

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
1	Other water feature or swimming pool restriction	1%	Filling or refilling of swimming pools, spas, ponds and artificial lakes shall be performed only on designated irrigation days and between the hours of 6:00 p.m. and 6:00 a.m.	Yes
1	Landscape - Limit landscape irrigation to specific times	1%	Watering golf courses, parks, school grounds and recreational fields shall be performed only between the hours of 6:00 p.m. and 6:00 a.m. This prohibition does not apply to golf course greens.	Yes
1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	2%	Each water user shall repair all leaks from indoor and outdoor plumbing fixture at the user's premises. Such water user shall eliminate any loss or escape of water through breaks, leaks or other malfunctions in the water user's plumbing or distribution system promptly after discovering the leak and in no event in less than five (5) days.	
1	Other water feature or swimming pool restriction	3%	Ornamental fountains and similar structures shall not be operated.	Yes
2	Expand Public Information Campaign	5%	Community Outreach and Messaging (Expand Public Information Campaign to reflect Level 2 Shortage Response Actions).	No

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
2	Other	2%	Agricultural users and commercial nurseries shall curtail all non-essential water use, but are otherwise exempt from Level 2 measures. Watering of livestock and irrigation of propagation beds are permitted at any time.	Yes
2	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	2%	Each water user shall repair all leaks from indoor and outdoor plumbing fixture at the user's premises. Such water user shall eliminate any loss or escape of water through breaks, leaks or other malfunctions in the water user's plumbing or distribution system promptly after discovering the leak and in no event in less than 4 days.	
2	Landscape - Limit landscape irrigation to specific days	15%	Watering or irrigating of lawn, landscape, or other vegetated area with potable water is limited to three (3) days per week.	Yes
3	Expand Public Information Campaign	5%	Community Outreach and Messaging (Expand Public Information Campaign to reflect Level 3 Shortage Response Actions).	No

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
3	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	2%	Each water user shall repair all leaks from indoor and outdoor plumbing fixture at the user's premises. Such water user shall eliminate any loss or escape of water through breaks, leaks or other malfunctions in the water user's plumbing or distribution system promptly after discovering the leak and in no event in less than three (3) days.	
3	Landscape - Limit landscape irrigation to specific days	15%	Watering or irrigating of lawn, landscape, or other vegetated area with potable water is limited to two (2) days per week.	Yes
3	Landscape - Limit landscape irrigation to specific times	1%	Irrigation shall not be performed except on designated irrigation days and between the hours of 10:00 p.m. and 6:00 a.m.	Yes
3	Landscape - Limit landscape irrigation to specific times	1%	Agricultural users and commercial nurseries shall use water only between the hours of 6:00 p.m. and 6:00 a.m. Watering of livestock and irrigation of propagation beds are permitted at any time.	Yes

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
3	Other - Prohibit vehicle washing except at facilities using recycled or recirculating water	2%	Washing of motor vehicles, boats, airplanes and other mobile equipment is prohibited except when performed at a commercial car wash. This prohibition shall not apply to the washing of garbage trucks, vehicles used to transport food and perishables and other mobile equipment for which frequent cleaning is essential for the protection of the public health, safety and welfare.	Yes
3	Other water feature or swimming pool restriction	1%	Filling or refilling of swimming pools, spas, ponds and artificial lakes shall be performed only on designated irrigation days and between the hours of 10:00 p.m. and 6:00 a.m.	Yes
3	Landscape - Limit landscape irrigation to specific times	2%	Watering golf courses, parks, school grounds and recreational fields shall be performed only between the hours of 10:00 p.m. and 6:00 a.m. This prohibition does not apply to golf course greens.	Yes
3	Moratorium or Net Zero Demand Increase on New Connections	3%	New construction meters and permits for unmetered service shall not be issued. Construction water shall not be used for earth work or road construction purposes.	Yes

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
3	Other	1%	The use of non-reclaimed and non-recycled water by commercial car washes shall be reduced in volume by 20%.	Yes
4	Expand Public Information Campaign	5%	Community Outreach and Messaging (Expand Public Information Campaign to reflect Level 4 Shortage Response Actions).	No
4	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	2%	Each water user shall repair all leaks from indoor and outdoor plumbing fixture at the user's premises. Such water user shall eliminate any loss or escape of water through breaks, leaks or other malfunctions in the water user's plumbing or distribution system promptly after discovering the leak and in no event in less than two (2) days.	
4	Landscape - Limit landscape irrigation to specific days	15%	Watering or irrigating of lawn, landscape, or other vegetated area with potable water is limited to one (1) days per week.	Yes
4	Other	1%	The use of non-reclaimed and non-recycled water by commercial car washes shall be reduced in volume by 30%.	Yes
5	Expand Public Information Campaign	5%	Community Outreach and Messaging (Expand Public Information Campaign to reflect Level 5 Shortage Response Actions).	No

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
5	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	2%	Each water user shall repair all leaks from indoor and outdoor plumbing fixture at the user's premises. Such water user shall eliminate any loss or escape of water through breaks, leaks or other malfunctions in the water user's plumbing or distribution system promptly after discovering the leak and in no event in less than one (1) day.	Yes
5	Landscape - Prohibit all landscape irrigation	15%	Outdoor irrigation is prohibited.	Yes
5	CII - Other CII restriction or prohibition	2%	Use of water for agricultural or commercial nursery purposes is prohibited. This prohibition shall not apply to watering of livestock.	Yes
5	Other water feature or swimming pool restriction	2%	Filling or refilling of swimming pools, spas, ponds and artificial lakes is prohibited.	Yes
5	Landscape - Other landscape restriction or prohibition	5%	Watering golf course areas, other than greens, is prohibited. Watering of parks, school grounds and recreational fields is prohibited except for plant materials classified as rare, exceptionally valuable or essential to the well being of rare animals.	Yes
5	Other	2%	The use of non-reclaimed and non-recycled water by commercial car washes shall be reduced in volume by 40%.	Yes

Submittal Table 8-2: Demand Reduction Actions

Shortage Level	Demand Reduction Actions <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>	Penalty, Charge, or Other Enforcement? <i>For Retail Suppliers Only Drop Down List</i>
5	CII - Other CII restriction or prohibition	2%	The use of water for commercial manufacturing or processing purposes shall be reduced in volume by 40%.	Yes
5	Other	2%	Water shall not be used for air conditioning purposes.	Yes
6	Expand Public Information Campaign	5%	Community Outreach and Messaging (Expand Public Information Campaign to reflect Level 6 Shortage Response Actions).	No
6	Other	2%	The use of non-reclaimed and non-recycled water by commercial car washes shall be reduced in volume by 50%.	Yes
6	CII - Other CII restriction or prohibition	2%	The use of water for commercial manufacturing or processing purposes shall be reduced in volume by 50%.	Yes
6	Other	50%	Water use for public health and safety purposes only.	Yes

Submittal Table 8-3: Supply Augmentation and Other Actions

Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier <i>Drop down list</i> <i>These are the only categories that will be accepted by the WUEdata online submittal tool</i>	How much is this going to reduce the shortage gap? <i>Include units used (volume type or percentage)</i>	Additional Explanation or Reference <i>(optional)</i>
1 through 6	Other Purchases	0 - 100%	Additional imported water purchase through MWDOC

NOTES:

Additional Imported Water Purchases to meet the supply gap may have financial ramifications per the MWDOC Water Supply Allocation Plan.

Appendix B

**Seal Beach Water Shortage Contingency Response Ordinance
1695**

ORDINANCE 1695

AN ORDINANCE OF THE CITY OF SEAL BEACH AMENDING THE SEAL BEACH MUNICIPAL CODE BY REVISING AND SUPPLEMENTING THE CITY'S WATER CONSERVATION PROVISIONS

WHEREAS, a reliable minimum supply of water is essential to the public health, safety and welfare of the people and economy of Southern California and the City of Seal Beach community.

WHEREAS, Southern California is a semi-arid region, largely dependent on imported water supplies from Northern California and the Colorado River along with a limited amount of local water supplies. Population growth, drought, climate change, environmental concerns, government policy changes, restrictions on pumping and other factors in our region, in other parts of the State and in the western U.S., make Southern California highly-susceptible to water supply reliability issues. Southern California experienced significant dry year conditions in 2012-2017, which led local water agencies, including the City of Seal Beach (City) to declare water shortage conditions that triggered demand reduction actions.

WHEREAS, the Legislature subsequently amended the Urban Water Management Planning Act (Water Code section 10610 et seq.) in 2018, to add California Water Code Section 10632 relating to water shortage contingency planning and also mandated new elements to Urban Water Management Plans and Water Shortage Contingency Plans. These elements include an annual drought risk assessment, State Water Shortage Levels, and statewide water use prohibitions.

WHEREAS, the Municipal Water District of Orange County (MWDOC) has adopted a 2020 Urban Water Management Plan and Water Shortage Contingency Plan documents that include water conservation and additional demand reduction actions in times of shortage as a necessary and effective component of MWDOC's programs to provide a reliable supply of water to meet the needs of MWDOC's 28 member agencies, including the City, with which this Ordinance is consistent.

WHEREAS, the imported water supplies in the City and MWDOC are subject to the Water Shortage Allocations determined by the Metropolitan Water District of Southern California, and subsequently MWDOC will be required to curtail deliveries of imported water based on MWDOC's Water Shortage Allocation Plan, which could be triggered in a state of shortage.

WHEREAS, local groundwater supplies from the Orange County Groundwater Basin are limited by the Basin Pumping Percentage, which is set by Orange County Water District on an annual basis. A supply reduction that may result from

the annual Basin Production Percentage will be included in the City's Annual Water Supply and Demand Assessment.

WHEREAS, as of July 2021, both MWDOC and the City are required to prepare an Annual Water Supply and Demand Assessment and Drought Risk Assessment as part of their Urban Water Management Plan for submission to the California Department of Water Resources (DWR). Annually, by July 1st of each year, beginning the year following the adoption of the 2020 Urban Water Management Plan. MWDOC and the City are required to monitor, report, and if declared a drought emergency according to their adopted Water Shortage Contingency Plans, then notify DWR, in order to comply with the California Water Code 10632.1 reporting requirements.

WHEREAS, California Water Code Section 353 specifies that a governing body must adopt regulations or restrictions on the delivery and consumption of water within its service area when it declares the existence of an emergency condition.

WHEREAS, California Water Code Section 375 authorizes water suppliers to adopt and enforce a comprehensive water conservation program to reduce water consumption and conserve supplies.

WHEREAS, City Charter Article IV, Sections 412 through 416 set forth the procedures for adoption of City ordinances, and California Water Code Section 375 et seq. and Section 10640 et seq. set forth the public notification, public meeting and public hearing and findings requirements for water providers proposing the establishment of a water conservation program.

WHEREAS, California Water Code Sections 350, et. seq., sets forth the determination and notification procedures for water suppliers seeking to declare a water shortage or a water emergency.

WHEREAS, California Water Code Section 356 allows for the adoption of regulations and restrictions that include discontinuance of service as an enforcement option where a water shortage emergency condition has been declared.

WHEREAS, California Water Code Section 377 authorizes water suppliers to enforce a comprehensive water conservation program to reduce water consumption through establishment of non-compliance charges and other penalties, subject to advance notification to water users.

WHEREAS, Health and Safety Code Section 5471 authorizes the City to apply charges or fees to persons or entities that fail to comply with any provision of this Ordinance in order to recover administrative and enforcement costs due to non-compliance (including but not limited to notices, postings, hearings, water waste

violations, water shortage demand reduction measures, shut offs, account management, data collection).

WHEREAS, California Water Code Section 370, et. seq., authorizes water suppliers to adopt water allocation programs for water users and allocation-based conservation water pricing.

WHEREAS, California Water Code Sections 13550 and 13551 declare a statewide policy that the use of domestic water for irrigation purposes when reclaimed (recycled) water is available constitutes a waste or unreasonable use of water within the meaning of the State Constitution.

WHEREAS, the adoption and enforcement of a Water Shortage Contingency Response Ordinance is necessary to manage the City's water supply short- and long-term and to minimize and/or avoid the effects of drought and water shortage within the City. Such a program is essential to ensure a reliable and sustainable minimum supply of water for public health, safety and welfare.

WHEREAS, the City Council adopts this Ordinance in accordance with the Seal Beach Charter pursuant to the City's authority over municipal affairs as a charter city under California Constitution, Article XI, Section 5; the City's police power under California Constitution Article XI, Section 7; and pursuant to state law including California Constitution, Article X, Section 2, Water Code Section 370 et seq. and Water Code Section 10620 et seq.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF SEAL BEACH DOES HEREBY ORDAIN AS FOLLOWS:

SECTION 1. The City Council finds this Ordinance 1695 establishes reasonable water management requirements necessary to conserve water, enable effective water supply reliability planning, assure reasonable and beneficial use of water, prevent waste of water, prevent unreasonable use of water, and maximize efficient use of water within the City.

This Ordinance establishes:

1. Permanent water conservation measures designed to increase water-use efficiency during non-shortage conditions.
2. Regulations to be implemented during times of declared water shortages or water shortage emergencies.
3. Six Water Shortage Levels that are most often triggered due to drought conditions to provide defined response actions that

consist of increasing water use restrictions and demand reduction actions as a result of worsening drought or emergency conditions and decreasing supplies.

SECTION 2. Chapter 9.35 ("Water and Water Conservation") of Title 9 of the Seal Beach Municipal Code is hereby retitled as "Water."

SECTION 3. Sections 9.35.095 through 9.35.170 of Chapter 9.35 of Title 9 of the Seal Beach Municipal Code are hereby repealed in their entirety and removed from the Municipal Code.

SECTION 4: A new Chapter 9.37 entitled "Water Shortage Contingency Response" is hereby added to Title 9 of the Seal Beach Municipal Code to read as follows:

"Chapter 9.37 Water Shortage Contingency Response"

9.37.005 Definitions

A. For the purposes of this chapter, the following words and phrases shall mean:

1. **Annual Water Supply and Demand Assessment:** a determination of the near-term outlook for supplies and demands and how a perceived shortage may relate to the Shortage Level response actions as defined in the Water Shortage Contingency Plan in the current calendar year.
2. **City:** the City of Seal Beach.
3. **Demand Reduction Actions:** education, incentive or regulatory actions taken by the City to reduce water demand in its service area during times of shortage. Demand reduction actions pre-planned to prepare for a water shortage as presented in Table 8-2 of the City's Water Shortage Contingency Plan.
4. **Director:** director of public works/city engineer or the designee thereof.
5. **DWR:** California Department of Water Resources.
6. **Local Health Agency:** Orange County Health Department.
7. **MWDOC:** the Municipal Water District of Orange County.
8. **Water Conservation Measure:** restrictions enforceable to address progressive levels of water shortage, including but not limited to, Permanent Water Conservation Measures, Water Shortage Level mandatory water conservation measures and demand reduction actions as defined in this chapter or the City's Water Shortage Contingency Plan.

9. **Water User:** a person who obtains water from the city water system.

- B. Any word or phrase used in this chapter that is defined in the Health and Safety Code Section 116275 or in California Code of Regulations Title 17, Section 7583 and not defined in subsection A shall have the meaning set forth in such state law provision.

9.37.010 Applicability

- A. The provisions of this chapter apply to any person or entity using water provided by the City. This includes individuals, persons, corporations, public or private entities, governmental agencies or institutions, or any other users of City water.
- B. Exemptions. The provisions of the chapter do not apply to any of the following:
1. Water use necessary to protect public health and safety or for essential government services, such as police, fire and similar services.
 2. Recycled water use for onsite reuse. Use of recycled water requires a permit that has specific use restrictions, many of which focus on water efficiency. Given such permits and the interest in promoting the use of recycled water as a means to preserve, recycled water is exempt from requirements of this chapter.
 3. Water used by commercial nurseries and growers to sustain plants, trees, shrubs, crops or other vegetation intended for commercial sale.
 4. Water used from private wells.
- C. This chapter is intended solely to further the beneficial use and conservation of water. It is not intended to implement any provision of federal, state, or local statutes, ordinances or regulations relating to protection of water quality or control of drainage or runoff. Refer to chapter 9.20 for information on storm water management.

9.37.015 Permanent Mandatory Water Conservation Measures

The City has adopted a Water Shortage Contingency Plan which details demand reduction actions that the City may take to restrict or shall prohibit its customers' consumption of water, including baseline conservation measures to be taken in times of normal water supply conditions. The following permanent water

conservation measures set forth in this chapter, in support of demand reduction actions as called for in the California Water Code, are effective at all times and are applicable unless repealed by the City Council. Violations of this section shall be considered waste and an unreasonable use of water subject to penalties and fees as appropriate, in addition to any other legal or equitable remedies provided by law.

A. Leaks

Each water user shall repair all leaks from indoor and outdoor plumbing fixture at the user's premises. Such water user shall eliminate any loss or escape of water through breaks, leaks or other malfunctions in the water user's plumbing or distribution system promptly after discovering the leak, but in no case more than 7 days after discovery, unless otherwise permitted in the Water Shortage Contingency Plan demand reduction actions.

B. Runoff

No water user shall cause or allow water to run off landscape areas into the public right-of-way due to incorrectly maintained sprinklers, excessive watering or use.

C. Limits on Watering Hours

No water user shall cause or allow watering or irrigating of the user's lawn, landscape or other vegetated area with potable water between 9:00 a.m. and 5:00 p.m. on any day, except by use of a hand-water shut-off nozzle or device, or for a very short period of time for the limited purpose of adjusting or repairing an irrigation system.

D. Limit on Watering Duration

No water user shall cause or allow watering or irrigating of lawn, landscape or other vegetated area with potable water using a landscape irrigation system or a watering device that is not continuously attended for longer than 15 minutes watering per day per station. Landscape irrigation shall be consistent with Chapter 9.70 (Water Efficient Landscape Ordinance).

E. No Washing Down Hard or Paved Surfaces

No water user shall cause or allow the washing down of hard or paved surfaces, including but not limited to sidewalks, walkways, driveways, parking areas, tennis courts, patios or alleys. Notwithstanding this prohibition, a water user may wash down such surfaces 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, a

low-volume, high-pressure cleaning machine equipped to recycle any water used, or a low-volume high-pressure water broom.

F. Re-circulating Water Required for Water Fountains and Decorative Water Features

No person shall operate a water fountain or other decorative water feature that does not use re-circulated water.

G. No Installation of Single Pass Cooling Systems

No person shall install single pass cooling systems in connection with new water service.

H. No Installation of Non-re-circulating in Commercial Car Wash and Laundry Systems

No person shall install non-re-circulating water systems in connection with commercial conveyor car wash and commercial laundry systems. The owner or operator of any commercial conveyor car wash system shall install operational re-circulating water systems or secure a waiver of this requirement from the Director.

I. Washing of Vehicles and Equipment.

No person shall wash a motor vehicle, trailer, boat or other type of mobile equipment other than by a hand-held bucket or by a hose equipped with a positive shut-off nozzle. This prohibition shall not apply to washing performed at a commercial car wash.

J. Water Upon Request

Restaurants shall not offer water service and shall serve water only to a customer that specifically requests water.

9.37.020 Determination of Water Shortage Level

The City's Water Shortage Levels are aligned with the six standard State Water Shortage Levels and as defined in MWDOC's as well as the City's Water Shortage Contingency Plan to comply with California Water Code Section 10632(a)(3). The Water Shortage Levels represent shortages from normal reliability as determined in the Annual Water Supply and Demand Assessment, corresponding to progressive ranges of 10, 20, 30, 40, 50, and greater than 50 percent shortages. The City Council may declare a Water Shortage Level upon making a finding specified in DWR Table 8-1, by resolution adopted at a regular or special meeting

after a public hearing. Such resolutions shall specify the start day of the Level and shall be effective upon posting in a publication of general circulation within the City.

- A. DWR Table 8-1 from the City's Water Shortage Contingency Plan defines the conditions that trigger each Water Shortage Level as follows:

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

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

Shortage Level	Percent Shortage Range	Shortage Level Response Actions
4	31% to 40%	A Level 4 Water Supply Shortage - Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 40% consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
5	41% to 50%	A Level 5 Water Supply Shortage - Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that up to 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.
6	>50%	A Level 6 Water Supply Shortage – Condition exists when the City declares a water shortage emergency condition pursuant to California Water Code section 350 and notifies its residents and businesses that greater than 50% or more consumer demand reduction is required to ensure sufficient supplies for human consumption, sanitation and fire protection. The City must declare a Water Supply Shortage Emergency in the manner and on the grounds provided in California Water Code section 350.

NOTES:

The shortage response actions that align with each Level of Water Supply Shortage are defined in the City's Water Shortage Contingency Plan, or as may be amended from time to time, along with an estimate of the extent to which the gap between supplies and demand will be reduced, and include:

1. Locally appropriate supply augmentation actions.
2. Locally appropriate demand reduction actions to respond to shortages.

3. Locally appropriate operational changes.
 4. Additional mandatory prohibitions against specific water use practices, in addition to state-mandated prohibitions, as deemed necessary by the City.
- B. Each elevated shortage level will include the elements of the previous shortage level(s), including permanent mandatory water conservation measures as defined in this Ordinance and the City's Water Shortage Contingency Plan. As deemed necessary, an allocation of water supply under a water supply emergency condition beyond Water Shortage Contingency Plan defined actions may be required to be implemented when conditions dictate necessary.
 - C. No person shall violate any provisions of the City's Water Shortage Contingency Plan applicable to a particular Water Storage Level during a period in which conditions of such Water Storage Level have been declared to exist.
 - D. Upon determining that water shortage conditions continue to exist but have improved to the point that it is appropriate to move to a less restrictive level, the City Council shall adopt a resolution declaring the existence of the new water shortage level. Upon determining that water shortage conditions no longer exist, the City Council shall adopt a resolution declaring an end to the water shortage.

9.37.025 Procedures and Protocols for Communication

Upon declaration of a water shortage, the City will inform all relevant stakeholders, including customers, the public, interested parties, and local, regional, and state governments, of the applicable Water Storage Level and the effective date of the water shortage actions associated with the relevant Water Shortage Level according to the communication procedures identified in the City's Water Shortage Contingency Plan, including:

- A. Any current or predicted shortages as determined by the Annual Water Supply and Demand Assessment.
- B. Any shortage response actions triggered or anticipated to be triggered by the Annual Water Supply and Demand Assessment.
- C. Any other relevant communications.

9.37.030 Relief from Water Conservation Measures

- A. Within fifteen (15) days of the effective date of a resolution declaring the Water Shortage Level, any water user may apply to the Director for relief from the applicable water conservation measures. Applications shall be filed on a City-provided form and shall be accompanied by an application fee in an amount set by City Council resolution.
- B. The Director may approve, conditionally approve or deny an application for relief from water conservation measures. In making such determination, the Director shall consider the following factors:
 - 1. Whether additional reduction in water consumption will result in unemployment.
 - 2. Whether additional persons have been added to the household (i.e., higher occupancy dwellings or Accessory Dwelling Units [ADUs]).
 - 3. Whether additional landscaped property has been added to the property since the corresponding billing period of the prior calendar year.
 - 4. Changes in vacancy factors in multi-family housing.
 - 5. Increased number of employees in commercial, industrial and governmental offices.
 - 6. Increased production requiring increased process water for non-residential uses.
 - 7. Water uses during new construction.
 - 8. Adjustments to water use caused by emergency health or safety hazards.
 - 9. First filling of a permit-constructed swimming pool.
 - 10. Water use necessary for reasons related to family illness or health.
 - 11. Whether the applicant has achieved the maximum practical reduction in water consumption other than in the specific areas for which relief is sought.
- C. The decision of the Director shall be final.

9.37.035 Penalties, Violations and Enforcement of Water Conservation Measures

- A. **Penalties:** The following will apply to any person that fails to comply with any provision of this chapter or any water conservation measure adopted pursuant to this chapter or the City's for Permanent, and/or any applicable Water Shortage Level mandatory water conservation measures and demand reduction actions. The penalties set forth in this section shall be exclusive and not cumulative with any other provision of this code. Violation of water conservation measures shall be penalized as follows:

1. *First violation:* the Director shall issue a written warning and deliver a copy of this chapter by mail or posting (i.e., door hanger).
 2. *Second violation during a water conservation level within the preceding twelve (12) calendar months:* the Director shall impose a penalty in an amount consistent with the City's last adopted Cost Recovery Schedule.
 3. *Subsequent violations during a water conservation level within the preceding twelve (12) calendar months:* the City shall install a flow restricting device of appropriate size as determined by the Director, and a comparatively sized restrictor for larger service, on the service of the violator at the premises at which the violation occurred for a period of not less than 48 hours. The Director shall charge the water user the costs of installation and removal of the device and for restoration of normal service. Normal service shall not be restored until the account has been made current and all charges have been paid.
- B. **Termination of Service:** In addition to any fines, the City may disconnect and/or terminate a customer's water service for a willful violation of any water conservation measure or other mandatory restrictions of this chapter or any willful violation of any water conservation measure imposed pursuant to the Water Shortage Contingency Plan. The violator shall be responsible for payment of the City's charges for disconnecting and/or reconnecting service. All associated fees must be paid in full prior to restoration of normal service. Nonpayment will be subject to the same remedies as nonpayment of basic water rates.
- C. **Separate Offenses:** Each day that a violation of this chapter occurs is a separate offense.
- D. **Notice of Violation:** Except for violations of this chapter subject to excessive water use penalties, if any person fails or refuses to comply with this chapter, the City's Water Storage Contingency Plan, or any water conservation measure adopted pursuant thereto, the Director or his/her designee shall provide that person with written notice of the violation and an opportunity to correct the noncompliance at least fifteen (15) days before taking enforcement action.
1. The City will issue a Notice of Violation by mail or personal delivery at least fifteen (15) days before taking enforcement action. The written notice shall be mailed via United States first class mail to the address of the violation, to the party who is billed for the water, or to the Owner of the property, as appropriate, and shall also be posted or presented at the site of the violation.

2. The Notice shall contain the following information:

- a. State the time, date, and place of violation;
- b. State a general description of the violation;
- c. State the means to correct the violation;
- d. State a date by which correction is required; and,
- e. State the possible consequences of failing to correct the violation.

E. Appeal and Hearing:

1. Issuance of the first violation notice shall not be subject to any right of hearing or appeal.
2. Any person receiving a notice of second or subsequent violation may request a hearing before the Director by filing a written appeal with the city clerk no later than the close of business on the day before the date scheduled for enforcement action. The appeal fee shall be in an amount set by City Council resolution. A timely request for a hearing shall stay the installation of a flow-restricting device on the appellant's premises until a decision has been made on the appeal. If the Director determines that the surcharge was incorrectly assessed, the City shall refund any money deposited by the customer. The Director's decision on the appeal shall be final.
3. Notwithstanding Subsection F(2), pending receipt of a written appeal or pending a hearing pursuant to an appeal, the City may take appropriate steps to prevent the unauthorized use of water as appropriate to the nature and extent of the violations and the current declared water level condition."

SECTION 5: CEQA. The City Council determines that the adoption of this Water Shortage Contingency Response Ordinance is exempt from environmental review under the California Environmental Quality Act ("CEQA") pursuant to Water Code Sections 10632 and 10652, and Sections 15282 and 15307 of the CEQA Guidelines.

SECTION 6. Severability. If any section, subsection, subdivision, paragraph, sentence, clause or phrase of this Ordinance or any part thereof is for any reason held to be invalid, such invalidity shall not affect the validity of the remaining portions of this Ordinance or any part hereof. The City Council of the City of Seal Beach hereby declares that it would have passed each section, subsection, subdivision, paragraph, sentence, clause or phrase hereof, irrespective of the fact that any one or more sections, subsections, subdivisions, paragraphs, sentences, clauses or phrases be declared invalid.

SECTION 7: Effective Date. This Ordinance shall become effective upon adoption in accordance with Water Code section 376.

SECTION 8: Publication. The City Clerk shall certify to the adoption of this Ordinance and shall post or publish this Ordinance or a summary as required by law. INTRODUCED at a regular meeting of the City Council of the City of Seal Beach held on May 23, 2022.

INTRODUCED at a regular meeting of the City Council of the City of Seal Beach held on May 23, 2022.

PASSED, APPROVED and ADOPTED by the Seal Beach City Council at a regular meeting held on the 13th day of June, 2022.

AYES: Council Members: Kalmick, Massa-Lavitt, Moore, Sustarsic, Varipapa

NOES: Council Members _____

ABSENT: Council Members _____

ABSTAIN: Council Members _____



Joe Kalmick, Mayor

ATTEST:



Dana Engstrom, Acting City Clerk

STATE OF CALIFORNIA }
COUNTY OF ORANGE } SS
CITY OF SEAL BEACH }

I, Dana Engstrom, Acting City Clerk of the City of Seal Beach, do hereby certify that the foregoing Ordinance was introduced for first reading at a regular meeting of the City Council of the City of Seal Beach held on the 23rd day of May, 2022, and was passed, approved, and adopted by the City Council at a regular meeting on the 13th day of June, 2022.



Dana Engstrom, Acting City Clerk

Appendix C

Notice of Public Hearing

City of Seal Beach



CITY HALL 211 EIGHTH STREET
SEAL BEACH, CALIFORNIA 90740
(562) 431-2527 • www.sealbeachca.gov

March 21, 2022

Municipal Water District of Orange County
Attn: Mr. Rob Hunter, General Manager
PO Box 20895
Fountain Valley, California 92728

Subject: City of Seal Beach 2020 Water Shortage Contingency Plan Update

The City of Seal Beach (City) is in the process of updating its 2020 Water Shortage Contingency Plan (WSCP) and its Municipal Code Chapter 9.35 Water and Water Conservation (Appendix B to the WSCP).

Water Code section 10621(b) requires an urban water supplier updating its Urban Water Management Plan (UWMP) to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. Given that the City's WSCP was incorporated as Appendix H to the City's 2020 UWMP, this letter serves as the City's notice that it is preparing and updating that component of its 2020 UWMP.

The 2020 WSCP Update will be available for review on the City's website (www.sealbeachca.gov) in Spring 2022, and the City will subsequently hold noticed public hearings on the 2020 WSCP Update in advance of its proposed adoption.

The City invites you to submit comments and consult with the City regarding its 2020 WSCP Update. The City anticipates holding a public comment period in Spring 2022, 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 the City's 2020 WSCP Update, please contact me at (562) 431-2527 ext. 1321, or by email at smyrter@sealbeachca.gov.

Sincerely,

Steve Myrter, P.E.
Director of Public Works

March 21, 2022

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

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

The City of Seal Beach (City) is in the process of updating its 2020 Water Shortage Contingency Plan (WSCP) and its Municipal Code Chapter 9.35 Water and Water Conservation (Appendix B to the WSCP).

Water Code section 10621(b) requires an urban water supplier updating its Urban Water Management Plan (UWMP) to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. Given that the City's WSCP was incorporated as Appendix H to the City's 2020 UWMP, this letter serves as the City's notice that it is preparing and updating that component of its 2020 UWMP.

The 2020 WSCP Update will be available for review on the City's website (www.sealbeachca.gov) in Spring 2022, and the City will subsequently hold noticed public hearings on the 2020 WSCP Update in advance of its proposed adoption.

The City invites you to submit comments and consult with the City regarding its 2020 WSCP Update. The City anticipates holding a public comment period in Spring 2022, 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 WSCP Update, please contact me at (562) 431-2527 ext. 1321, or by email at smyrter@sealbeachca.gov.

Sincerely,



Steve Myrter, P.E.
Director of Public Works

March 21, 2022

County of Orange
Attn: Mr. Hugh Nguyen, Clerk Recorder
601 N. Ross Street
Santa Ana, California 92701

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

The City of Seal Beach (City) is in the process of updating its 2020 Water Shortage Contingency Plan (WSCP) and its Municipal Code Chapter 9.35 Water and Water Conservation (Appendix B to the WSCP).

Water Code section 10621(b) requires an urban water supplier updating its Urban Water Management Plan (UWMP) to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. Given that the City's WSCP was incorporated as Appendix H to the City's 2020 UWMP, this letter serves as the City's notice that it is preparing and updating that component of its 2020 UWMP.

The 2020 WSCP Update will be available for review on the City's website (www.sealbeachca.gov) in Spring 2022, and the City will subsequently hold noticed public hearings on the 2020 WSCP Update in advance of its proposed adoption.

The City invites you to submit comments and consult with the City regarding its 2020 WSCP Update. The City anticipates holding a public comment period in Spring 2022, 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 WSCP Update, please contact me at (562) 431-2527 ext. 1321, or by email at smyrter@sealbeachca.gov.

Sincerely,



Steve Myrter, P.E.
Director of Public Works

March 21, 2022

Orange County Water District
Attn: Mr. Michael R Markus, General Manager
PO Box 8300
Fountain Valley, California 92728

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

The City of Seal Beach (City) is in the process of updating its 2020 Water Shortage Contingency Plan (WSCP) and its Municipal Code Chapter 9.35 Water and Water Conservation (Appendix B to the WSCP).

Water Code section 10621(b) requires an urban water supplier updating its Urban Water Management Plan (UWMP) to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. Given that the City's WSCP was incorporated as Appendix H to the City's 2020 UWMP, this letter serves as the City's notice that it is preparing and updating that component of its 2020 UWMP.

The 2020 WSCP Update will be available for review on the City's website (www.sealbeachca.gov) in Spring 2022, and the City will subsequently hold noticed public hearings on the 2020 WSCP Update in advance of its proposed adoption.

The City invites you to submit comments and consult with the City regarding its 2020 WSCP Update. The City anticipates holding a public comment period in Spring 2022, 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 WSCP Update, please contact me at (562) 431-2527 ext. 1321, or by email at smyrter@sealbeachca.gov.

Sincerely,



Steve Myrter, P.E.
Director of Public Works

City of Seal Beach



CITY HALL 211 EIGHTH STREET
SEAL BEACH, CALIFORNIA 90740
(562) 431-2527 • www.sealbeachca.gov

March 21, 2022

Orange County Public Works

Attn: Mr. James Treadway, Director of OC Public Works
601 N. Ross Street,
Santa Ana, CA 92701

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

The City of Seal Beach (City) is in the process of updating its 2020 Water Shortage Contingency Plan (WSCP) and its Municipal Code Chapter 9.35 Water and Water Conservation (Appendix B to the WSCP).

Water Code section 10621(b) requires an urban water supplier updating its Urban Water Management Plan (UWMP) to notify cities and counties within its service area of the update at least sixty (60) days prior to holding a public hearing. Given that the City's WSCP was incorporated as Appendix H to the City's 2020 UWMP, this letter serves as the City's notice that it is preparing and updating that component of its 2020 UWMP.

The 2020 WSCP Update will be available for review on the City's website (www.sealbeachca.gov) in Spring 2022, and the City will subsequently hold noticed public hearings on the 2020 WSCP Update in advance of its proposed adoption.

The City invites you to submit comments and consult with the City regarding its 2020 WSCP Update. The City anticipates holding a public comment period in Spring 2022, 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 WSCP Update, please contact me at (562) 431-2527 ext. 1321, or by email at smyrter@sealbeachca.gov.

Sincerely,

Steve Myrter, P.E.
Director of Public Works

AFFP

118200 WSCP Public Notice

Affidavit of Publication

STATE OF CALIFORNIA }
COUNTY OF ORANGE } SS

I am a citizen of the United States; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principle clerk of the printer of SEAL BEACH SUN, a newspaper of general circulation, published ONCE WEEKLY in the city of SEAL BEACH, County of ORANGE, which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of ORANGE, State of California under the date of June 03, 1993, Case Number A-82583; that the notice, of which the annexed is a printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

May 05, 2022, May 12, 2022

That said newspaper was regularly issued and circulated on those dates.

SIGNED:

Seal Beach Sun

Subscribed to and sworn by me this 12th day of May 2022.

CITY OF SEAL BEACH

NOTICE OF PUBLIC HEARING

2020 WATER SHORTAGE CONTINGENCY PLAN AMENDMENT AND
ORDINANCE 1695 - WATER SHORTAGE
CONTINGENCY RESPONSE ORDINANCE

NOTICE IS HEREBY GIVEN that the City Council of the City of Seal Beach ("City") will hold a public hearing on May 23, 2022, 7:00 p.m., or as soon thereafter as the Agenda permits, in the Council Chamber of the City located at 211 8th Street, Seal Beach, to consider the City's proposed amended 2020 Water Shortage Contingency Plan ("WSCP"), amended May 2022, and Ordinance 1695 - Water Shortage Contingency Response Ordinance in advance of their proposed adoption.

The public hearing is being held in accordance with the Urban Water Management Plan Act (California Water Code Sections 10610 to 10656). The purpose of the public hearing will be to solicit public comment prior to adoption of the proposed amended 2020 WSCP and Water Shortage Contingency Response Ordinance.

Copies of the proposed amended 2020 WSCP and Water Shortage Contingency Response Ordinance are available for public inspection by appointment only at the Office of the City Clerk, which is located at 211 Eight Street, Seal Beach, CA 90740 during normal business hours between 8:00 AM to 5:00 PM by calling (562) 431-2527. It will also be available on the City's website, <https://www.sealbeachca.gov/>.

Once on the City's home web page click the "Water Shortage Contingency Plan and Response Ordinance" button.

At the above time and place all interested persons may be heard if so desired.

Written comments may also be submitted and should be addressed to the City Council c/o the City Clerk, City Hall, 211 8th Street, Seal Beach, and such comments should be received prior to the hearing date. If the proposed actions are challenged in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this notice or in written correspondence delivered to the City Clerk at or prior to the public hearing.

Dated this 2nd day of May 2022

Dana Engstrom, Deputy City Clerk

City of Seal Beach

Publish on: May 5, 2022 and May 12, 2022.

Seal Beach Sun 5/5,12/2022-118200

00006229 00118200

89 Legals

SB-CITY OF SEAL BEACH

211 8TH ST.

SEAL BEACH, CA 90740

Appendix D

Adopted WSCP Resolution

RESOLUTION 7290

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SEAL BEACH, CALIFORNIA ADOPTING THE WATER SHORTAGE CONTINGENCY PLAN, AMENDED MAY 2022

WHEREAS, the California Urban Water Management Planning Act, (Wat. Code §10610, et seq. (the Act)), mandates that every urban supplier of water providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually, prepare and adopt, in accordance with prescribed requirements, a Water Shortage Contingency Plan (WSCP) as part of its Urban Water Management Plan (Plan); and,

WHEREAS, the Act specifies the requirements and procedures for adopting such WSCPs; and,

WHEREAS, pursuant to the Act, "urban water supplier" means a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually. An urban water supplier includes a supplier or contractor for water, regardless of the basis of right, which distributes or sells for ultimate resale to customers; and,

WHEREAS, the City of Seal Beach (City) meets the definition of an urban water supplier for purposes of the Act and is required to prepare and adopt a WSCP as part of its 2020 Plan; and,

WHEREAS, the City has prepared a WSCP in accordance with the Act, and in accordance with applicable legal requirements, has undertaken certain coordination, notice, public involvement, public comment, and other procedures in relation to its WSCP; and,

WHEREAS, on June 14, 2021, the City adopted Resolution 7165 adopting the 2020 WSCP; and,

WHEREAS, the Water Code allows urban water suppliers to amend the WSCP as needed; and,

WHEREAS, in accordance with the Act, the City prepared its first amendment to the 2020 WSCP in May 2022 (Amendment), with its own staff, with the assistance of consulting professionals, and in cooperation with other governmental agencies, and has utilized and relied upon industry standards and the expertise of industry professionals, and has also utilized the California Department of Water Resources' (DWR) Urban Water Management Plan Guidebook 2020, including its related appendices, in preparing the Amendment; and,

WHEREAS, in accordance with applicable law, including Water Code section 10642, and Government Code section 6066, a Notice of a Public Hearing regarding adoption of the Amendment was published within the jurisdiction of the City on May 5, 2022, and May 12, 2022; and,

WHEREAS, in accordance with applicable law, including but not limited to Water Code sections 10642 and 375, a public hearing was held on May 23, 2022 at 7:00 PM or soon thereafter, in the Council Chambers of the City located at 211 8th Street, Seal Beach, in order to provide members of the public and other interested entities with the opportunity to be heard in connection with proposed adoption of the Amendment and issues related thereto; and,

WHEREAS, pursuant to said public hearing on the Amendment, the City, among other things, encouraged the active involvement of diverse social, cultural, and economic members of the community within the City's service area with regard to the Amendment and encouraged community input regarding the Amendment; and,

WHEREAS, the Seal Beach City Council has reviewed and considered the purposes and requirements of the Act, the contents of the Amendment, and the documentation contained in the administrative record in support of the Amendment, and has determined that the factual analyses and conclusions set forth in the Amendment are legally sufficient; and,

WHEREAS, the City desires to adopt the Amendment and to incorporate it as part of its 2020 Water Shortage Contingency Plan.

NOW, THEREFORE, THE SEAL BEACH CITY COUNCIL DOES HEREBY RESOLVE:

SECTION 1. The adoption of the City's 2020 Water Shortage Contingency Plan, amended May 22 is hereby determined to be exempt from the requirements of the California Environmental Quality Act (CEQA) pursuant to Water Code sections 10632 and 10652, and pursuant to Sections 15282 and 15307 of the State CEQA Guidelines.

SECTION 2. The 2020 Water Shortage Contingency Plan, amended May 2022 (Amendment), is hereby adopted as amended by changes incorporated by the Seal Beach City Council as a result of input received (if any) at the public hearing and ordered filed with the City Clerk's Office and shall be incorporated into the Amendment.

SECTION 3. The City Manager or her designee is hereby authorized and directed to include a copy of this Resolution in the City of Seal Beach's WSCP and/or in the City of Seal Beach's 2020 Plan.

SECTION 4. The City Manager or her designee is hereby authorized and directed, in accordance with Water Code sections 10621(d) and 10644(a)(1)-(2), to electronically submit a copy of the Amendment to DWR.

SECTION 5. The City Manager or her designee is hereby authorized and directed, in accordance with Water Code section 10644(a), to submit a copy of the Amendment, as part of its 2020 Plan, to the California State Library, and to any city or county within which the City provides water supplies no later than thirty (30) days after this adoption date.

SECTION 6. The City Manager or her designee is hereby authorized and directed, in accordance with Water Code section 10645, to make the Amendment available for public review at the City of Seal Beach Administration Building during normal business hours and on its website at sealbeachca.gov no later than thirty (30) days after filing a copy of the Amendment, as part of its 2020 Plan, with DWR.

SECTION 7. The document and materials that constitute the record of proceedings on which this resolution and the above findings have been based are located at 211 8th Street, Seal Beach, CA 90740. The custodian for these records is the City Clerk.

PASSED, APPROVED and ADOPTED by the Seal Beach City Council at a regular meeting held on the 23rd day of May, 2022 by the following vote:

AYES: Council Members: Kalmick, Massa-Lavitt, Moore, Sustarsic, Varipapa

NOES: Council Members: None

ABSENT: Council Members: None

ABSTAIN: Council Members: None

Joe Kalmick

Joe Kalmick, Mayor

ATTEST:

Gloria D. Harper
Gloria D. Harper, City Clerk



STATE OF CALIFORNIA }
COUNTY OF ORANGE } SS
CITY OF SEAL BEACH }

I, Gloria D. Harper, City Clerk of the City of Seal Beach, do hereby certify that the foregoing resolution is the original copy of Resolution 7290 on file in the office of the City Clerk, passed, approved, and adopted by the City Council at a regular meeting held on the 23rd day of May, 2022.



Gloria D. Harper, City Clerk



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

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