



Town of Discovery Bay

Water Shortage Contingency Plan

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**Luhdorff &
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Consulting Engineers

Water Shortage Contingency Plan (WSCP)

Overview

- 1. Purpose**
- 2. What is a WSCP**
- 3. WSCP Requirements**
- 4. Elements of a WSCP**



Water Shortage Contingency Plan (WSCP)

Purpose of Presentation

- Present the draft WSCP in advance of the Public Hearing to review and adopt the WSCP



Water Shortage Contingency Plan (WSCP)

What is the WSCP

- A planning document required by the California Department of Water Resources (DWR) to be prepared by water suppliers with more than 3,000 customers or supplying more than 3,000 acre-feet per year.
- The WSCP is an action plan that can be followed during water shortages, such as from droughts or catastrophic events.
- Some of the actions in the WSCP were implemented during the last drought, to successfully meet State-imposed water reductions.
- The WSCP are only initiated by the Board of Directors in the event of a water shortage condition.
- The WSCP can be updated by the Board of Directors at any time.



Water Shortage Contingency Plan (WSCP)

WSCP Requirements

Legislation in 2018 created new WSCP requirements including:

- Water supply reliability analysis
- Procedures to conduct Annual Water Supply and Demand Assessment.
- Six Water Shortage Levels.
- Local Shortage Response Actions.
- Communication Protocols.
- The WSCP needs to be adopted and included in the 2020 Urban Water Management Plan (due to DWR by July 1, 2021).



Water Shortage Contingency Plan (WSCP)

Elements of WSCP

1. Water Supply Reliability Analysis (new)
2. Annual Assessment Procedures (new)
3. Six Standard Shortage Levels (update)
4. Shortage Response Actions (update)
5. Communication Protocols (new)
6. Compliance and Enforcement (update)
7. Legal Authority (new)
8. Financial Consequences of WSCP
9. Monitoring and Reporting (new)
10. WSCP refinement Procedures (new)
11. Special Water Feature Distinction (new)
12. Plan Adoption, Submittal and Availability (new)



Water Shortage Contingency Plan (WSCP)

Procedures to conduct an Annual Water Supply and Demand Assessment

- Each year review available water supply and customer demand.
- If there is an anticipated water shortage, the Board of Directors can initiate a water shortage level.
- Supply and demand are determined on an annual volumetric basis.
- Infrastructure considerations allow the Board to consider specific issues that can cause a water shortage.



Water Shortage Contingency Plan (WSCP)

Six Standard Water Shortage Levels

Level	Percent Shortage Range	Water Shortage Condition
1	Up to 10%	Mild Water Shortage
2	Up to 20%	Moderate Water Shortage
3	Up to 30%	Severe Water Shortage
4	Up to 40%	Critical Water Shortage
5	Up to 50%	Critical Water Shortage
6	>50%	Catastrophic Water Shortage

The water shortage level declared by the Town of Discovery Bay Board of Directors.



Water Shortage Contingency Plan (WSCP)

Shortage Response Actions

1. Supply Augmentation

- *Such as modifying wells, non-potable recycled water*

2. Demand Reduction Actions, Levels I – VI (**next slides**)

3. Operational Changes

- *Such as reduced flushing, enhanced metering, leak reduction*

4. Mandatory Restrictions

- *Enacted at level III and above*

5. Emergency Response Plan

- *Resulting from a catastrophic event*



Water Shortage Contingency Plan (WSCP)

Demand Reduction Actions

Shortage Level	Demand Reduction Actions	Projected Reduction	Additional Explanation	Penalty or Charge
All levels	Other	0-50%	Demand Reduction Program	No
I-II	Other	0-20%	Voluntary Water Use Reductions	No
I-II	Other		Voluntary Restrictions – no waste, not enforced	No
I-II	Expand Public Information Campaign	0-20%	Public Outreach Measures - General	No
II-VI	Other	20-30%	Expedite Conversion of Water Efficient Fixtures	No
II-III	Landscape - Limit landscape irrigation to specific days	20-30%	Irrigation Reduction – limit 3 watering days/week	Yes
II-VI	Landscape - Prohibit certain types of landscape irrigation	20-40%	Irrigation Reduction – parks/open spaces	Yes



Water Shortage Contingency Plan (WSCP)

Demand Reduction Actions (Cont.)

Shortage Level	Demand Reduction Actions	Projected Reduction	Additional Explanation	Penalty or Charge
II-VI	Other	20%+	Utility Leak Repair – expedite larger leak repairs	No
III-IV	Landscape - Limit landscape irrigation to specific days	30-40%	Irrigation Reduction – limit 2 watering days/week	Yes
III-VI	Expand Public Information Campaign	30%+	Public Outreach Measures – General and Specific	No
III-VI	Implement or Modify Drought Rate Structure or Surcharge	30-50%	Water shortage pricing - surcharge	Yes
III-VI	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	30%+	Customer Leak Repair – within five days of detection	Yes



Water Shortage Contingency Plan (WSCP)

Demand Reduction Actions (Cont.)

Shortage Level	Demand Reduction Actions	Projected Reduction	Additional Explanation	Penalty or Charge
III-VI	Other	30-50%	Mandatory restrictions – no waste enforced [patrols, tickets, fines, etc.]	Yes
III-VI	Other	30-50%	Apply penalties for excessive water use	Yes
IV-VI	Other	40-50%	Apply flow restrictions to customers	Yes
IV-VI	Other	10-50%	Restrict water use for only priority uses	Yes
V-VI	Landscape - Prohibit all landscape irrigation	40%-50%+	Irrigation Reduction – no lawn watering	Yes
V-VI	Other	20-50%	Mandatory water rationing, per capita allotment	Yes



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Communication Protocols

Level No.	Water Supply Conditions	Communication Method
I - Voluntary	Normal to Minimum (0 to 10%)	None
II – Mandatory Conservation	Moderate (11 to 20%)	Bill Insert, Newsletter, Website
III - Rationing	Severe (21 to 30%)	Same as above plus: direct mail, newspaper, press release, advertising, social media, mobile electronic sign
IV – Intense Rationing	Critical (31 to 40%)	Same as above, plus: community workshop and meetings
V - Restrictions/Allocations	Critical (41 to 50%)	Same as above
VI - Restrictions/Allocations	Catastrophic (> 50%)	Same as above



Schedule

December 15, 2020
Presentation
 UWMP and WSCP
 Overview

January 20, 2021
Presentation
 Draft WSCP

March 3, 2021
Public Hearing
 Review and Adopt
 WSCP

April 7, 2021
Presentation
 Draft UWMP

May 5, 2021
Public Hearing
 Review and Adopt
 UWMP

***DUE TO DWR
 BY JULY 1, 2021***

DECEMBER

JANUARY

FEBRUARY

MARCH

APRIL

MAY

JUNE

JULY

January 26, 2021
 UWMP- 60 Day
 Notice

Feb 3 and 10, 2021
 WSCP - 14 Day
 Newspaper Notice

April 21 and 28, 2021
 UWMP – 14 Day
 Newspaper Notice

May 26, 2021
 Submit UWMP
 to DWR





Questions?



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