



MEMORANDUM

CWS File #18-150

To: Ben Wade, CWCB

From: Michelle Hatcher *MH*, Sira Sartori *SS*

cc: Julie Pasillas, Town of Firestone

Date: August 6, 2019

Subject: 50% Progress Report for the Town of Firestone's Drought Management Plan

Clear Water Solutions (CWS) is assisting the Town of Firestone with developing a Drought Management Plan (DMP) in accordance with State regulations following the Guidance Document produced by the Colorado Water Conservation Board. The Guidance Document outlines eight tasks in the drought management planning process and the Town has completed Task 1 through Task 4. This progress report focuses on preliminary findings¹ from Tasks 3 and 4². As discussed in the Scope of Work, this 50% Progress Report includes the following elements:

- The success of meeting previously identified goals and objectives
- Obstacles encountered
- Preliminary findings or accomplishments
- Potential need for revisions to the scope of work and timelines

The Drought Planning Committee discussed potential areas of drought vulnerability during the initial meeting on June 2, 2019. Table 1 is a summary of future drought impacts identified by the Committee.

Table 1. Potential future drought impacts.

Future Impact	Severity
Damage to landscaping and lawns	Significant
Loss of revenue from water sales	Moderate
Increased cost and staff time to deal with drought	Moderate
Reduced firefighting capacity	Moderate
Reductions in distribution service pressure	None (due to upgraded system)
Increased political conflict	Moderate
Increased dust storms from vacant lots	Significant

¹ Preliminary findings may be edited in the final DMP Update Report.

² Preliminary findings from Tasks 1 and 2 were provided in the 25% progress report.

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Increased data/information needs to monitor and implement drought mitigation plan	Minor
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A second Drought Management Committee meeting was held on July 17, 2019 to discuss drought mitigation and response strategies. The Committee developed revised supply- and demand-side strategies for its four drought stages - sustainable, warning, critical and emergency. Some of the supply- and demand-side strategies are provided in Table 2. Many of the strategies from the Town's 2012 DMP remained applicable but the Committee did update several of the strategies based on the Town's previous drought experiences, current water use trends and current water supplies.

Table 2. Selection of supply- and demand-side strategies to be included in the 2019 DMP.

Drought Stage	Sustainable	Warning	Critical	Emergency
Supply-Side Strategies				
C-BT Options	Maximize C-BT carryover supply; lease out excess water	Maximize C-BT carryover supply; consider leasing out excess water	Maximize C-BT carryover supply; no leasing water	Maximize C-BT carryover supply; no leasing water
Purchase Raw Water	None	Evaluate leasing from other entities		Lease from other entities
Contract Negotiations	None	Discuss with water provider a temporary reduction in raw water transfer requirements		
Demand-Side Strategies				
Outdoor Irrigation for Town Property	Allow standard irrigation and promote efficient water use		Restrict irrigation on Tier 2 Town Parks	Eliminate irrigation on Tier 2 Parks (except trees/shrubs); Restrict Tier 1 Parks
Outdoor Irrigation for Customers	Voluntary watering restrictions	Mandatory watering restrictions to three days/week	Mandatory watering restrictions to two days/week	Irrigation is prohibited except for hand watering trees/shrubs
Town Fountains and Recreational Water Amenities	None		Ornamental fountains and water amenities are turned off	
Indoor Water Use	None		Encourage residents to reduce their water consumption	

There are some minor revisions to the existing project schedule which is provided in Table 3. No major obstacles have been encountered in the planning process to-date.

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Table 3. DMP Update timeline.

Task	Date
CWCB approves grant and PO issued	11/27/2019
Kick-Off Meeting with staff	2/11/2019
Drought Planning Committee Meeting #1	6/5/2019
Submit 25% progress report to CWCB	8/6/2019
Drought Planning Committee Meeting #2	7/17/2019
Submit 50% progress report to CWCB	8/6/2019
Submit 75% progress report to CWCB	8/19/2019
Drought Planning Committee Meeting #3	8/19/2019
Submit draft plan to staff for review and comment	9/6/2019
Present draft report at Town Board Meeting	10/9/2019
Notify public of draft plan in paper and website	10/11/2019
Public review period (60 days) end date	12/11/2019
Town Board formally adopts final report	1/8/2020
CWS submits final report to CWCB	1/9/2020
CWCB approves final report	up to 90 days

Note: proposed dates are in blue.