

# TOWN OF LAUREL PARK

## Water Shortage Response Plan

PWSID NO. 01-45-030

May 2018

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The procedures herein are written to reduce potable water demand and supplement existing drinking water supplies whenever they are in danger of being inadequate to meet customer needs. The Town of Laurel Park ("Town") purchases water from the City of Hendersonville ("City") and adheres closely to the City of Hendersonville's Water Shortage Response Plan, PWSID NO. 01-45-030.

### I. Authorization.

The Town of Laurel Park manager is authorized to enact water shortage response provisions whenever the trigger conditions outlined in Section V are met and notification is received by the City of Hendersonville. In the Town manager's absence, the public works superintendent will assume this role.

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### II. Notification.

The following notification methods will be used to inform water system employees and customers of a water shortage declaration made by the City of Hendersonville: notices at Town buildings and facilities and on the Town's website homepage ([www.laurelpark.org](http://www.laurelpark.org)) and social media. Required water shortage response measures will be communicated through the local and regional media, including but not limited to, the *Hendersonville Times-News* (692.2319), *Hendersonville Lightning*, *WLOS-TV* (651.4618), *WYFF-TV* (864.240.5305), *WSPA-TV* (864.587.5430), *WHKP* (696.9329), *WGCR* (883.9427), *WTZQ* (697.1416). For stage II and stage III declaration, door to door notices may be delivered to Town customers. Communications will include public service announcements, press releases. Declaration of emergency water restrictions or water rationing will be communicated to our customers using one or a combination of several forms of media referenced above. The Town of Laurel Park will adhere to the same level of restrictions as implemented by the City of Hendersonville.

### III. Classification of Water Uses.

#### A. Class I: Essential Uses of Potable Water

Domestic	Water to sustain human and domestic pet life, maintain hygiene and sanitation standards.
Patient Care	Patient care and rehabilitation, including swimming pools used for patient care and rehabilitation as prescribed by medical personnel.
Public Safety	Firefighting and approved flushing of hydrants and sewer mains to ensure public health and safety.

#### B. Class II: Socially or Economically Essential Uses of Potable Water

Domestic	Minimal use for kitchen, bathroom and laundry; minimal watering of vegetable gardens and trees needed to sustain them.
Patient Care	Patient care and rehabilitation, including swimming pools used for patient care and rehabilitation as prescribed by medical personnel.
Public Use	Filling and operation of public swimming pools, which serve more than 25 dwellings.
Commercial	Commercial vehicle washers, laundry mats, restaurants, hotels/ motels, irrigation of golf course greens, minimal water usage by commercial nurseries required to sustain stock, minimum amounts required to sustain essential cooling operations.
Agricultural	Minimal amounts required to sustain crops, livestock and associated activities.
Industrial	Minimal use necessary to operate production facilities and sustain jobs, minimal amounts required to sustain essential cooling operations.
Institutional	Efficient use of water by schools, churches, and government facilities.

#### C. Class III: Non-Essential Uses of Potable Water

All	Ornamental uses (fountains, reflecting pools, artificial waterfalls, etc.); residential lawn irrigation; non-commercial washing of motor vehicles; wash down of impervious surfaces; filling and operation of recreational swimming pools serving less than 25 dwellings.
Public Use	Gardens, lawns, parks, golf courses (except greens), city/town/county playing fields and recreational areas.
Commercial	Serving water in restaurants except by request.

### IV. Levels of Response.

Three levels of water shortage response are outlined in the table below. The three levels of water shortage response are: water shortage advisory (voluntary restrictions/reductions), water shortage alert (mandatory restriction/reductions) and water shortage emergency (escalated mandatory restrictions/reductions and water rationing). A detailed description of each response level and corresponding water reduction measures follow below.

Stage	Response	Description
1	Water Shortage Advisory	Voluntary Restrictions - Water users are encouraged to “voluntarily” reduce their water use and improve water use efficiency; however, no penalties apply for noncompliance. Water supply conditions indicate a potential for shortage.
2	Water Shortage Alert	Mandatory Restrictions - Water users must abide required water use reduction and efficiency measures; penalties apply for noncompliance. Water supply conditions are significantly lower than the seasonal norm and water shortage conditions are expected to persist.
3	Water Shortage Emergency	Water supply conditions are substantially diminished and pose an imminent threat to human health or environmental integrity; remaining supplies must be allocated to preserve human health and environmental integrity.
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In Stage 1, Water Shortage Advisory, all water users will be asked to reduce their normal water use by 10%. Customer education and outreach programs (i.e., articles in local publications; Town’s website; local radio and television stations ads and public service announcements; public/private school education; presentations to civic groups) will encourage water conservation and efficiency measures including: irrigating landscapes a maximum of one inch per week; preventing water waste, runoff and watering impervious surfaces; watering plants deeply to encourage root growth; washing only full loads in clothes and dishwashers; using spring-loaded nozzles on garden hoses; identifying and repairing all water leaks and minimize vehicle washing.

In Stage 2, Water Shortage Alert, all customers are expected to reduce their water use by and additional 10% in comparison to their previous month’s water bill. In addition to continuing to encourage all voluntary reduction actions, the following restrictions apply: irrigation is limited to a half inch per week between 8PM and 8AM; washing of vehicles unless done by a Town-approved vehicle washing facility; outdoor use of drinking water for washing impervious surfaces is prohibited; and all testing and training purposes requiring drinking water (e.g. fire protection) will be limited. **Additionally, in Stage 2, a drought surcharge of 1.10 times the normal water rate applies.**

In Stage 3, Water Shortage Emergency, customers must continue actions from all previous stages and further reduce water use by 10% compared to their previous month’s water bill. All non-essential uses of drinking water are banned and garden and landscape irrigation must be reduced to the minimum amount necessary for survival. Water Rationing, if deemed necessary by the City of Hendersonville, is to provide drinking water to protect public health (i.e. residences, residential health care facilities and correctional facilities). All customers are only permitted to use water at the minimum required for public health protection. Firefighting is the only allowable outdoor water use and pickup locations for distributing potable water will be announced. **Additionally, in Stage 3, a drought surcharge of 1.20 times the normal water rate applies.**

V. Triggers and Responses.

Triggers for the City of Hendersonville are provided below in relationship to the City's "run of river" water supply system:

A. Triggers.

If the City's water source, the Mills River, experiences the following stream flow measurements and production capacities trigger entry into corresponding water restriction stages.

Stage	River Operating Conditions
1	A reduction in the normal, seasonal rainfall which causes a corresponding reduction in the flow of water in the Mills River to 65 cubic feet per second (cfs) or less, as measured at the USGS monitoring station located up stream of the City's intake structure on the Mills River; or >80% of the system's capacity (~9.2 million gallons per day - MGD) is being used during seven consecutive days; or any combination of the above conditions for seven consecutive days within a 30-day period; or if damage, failure or contamination of the City's treatment and/or distribution systems occurs thus restricting or otherwise limiting the City's ability to maintain normal operation of its water system, as so determined by the City's utilities director or authorized representative.
2	A reduction in the normal, seasonal rainfall which causes a corresponding reduction in the flow of water in the Mills River to 30-cfs, as measured at the USGS monitoring station located up stream of the City's intake structure on the Mills River; or >90% of the system's capacity (~10.35 million gallons per day) is being used for three consecutive days; or failure of Stage I measures to meet or exceed the 10% water use reduction goal; or if damage, failure or contamination of the City's treatment and/or distribution systems occurs thus restricting or otherwise limiting the City's ability to maintain normal operation of its water system, as so determined by the City's utilities director or authorized representative.
3	A reduction in the normal, seasonal rainfall which causes a corresponding reduction in the flow of water in the Mills River to 22-cfs, as measured at the USGS monitoring station located up stream of the City's intake structure on the Mills River; or >95% of the system's capacity (~10.925 million gallons per day) is being used for three consecutive days; or failure of Stage II measures to meet or exceed the 20% water use reduction goal; or any combination of the above conditions for three consecutive days or if damage, failure or contamination of the City's treatment and/or distribution systems occurs thus restricting or otherwise limiting the City's ability to maintain normal operation of its water system, as so determined by the City's utilities director or authorized representative.
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B. Responses.

Stage	Response
1	<p>The City of Hendersonville manager shall declare a <b><u>Water Shortage Advisory</u></b> (referred to in <i>Chapter 52, Section 440</i> of the City Code of Ordinances): Require all purchase systems to declare same level of conservation measures; City will begin public notification process, as described above, and will disseminate water conservation tips and advisories; request voluntary conservation by all water users of the City's water system; request Class III non-essential uses to be reevaluated by all affected water users; large commercial, institutional and industrial water users will be required to prepare a 10% water use reduction plan to be submitted to the City's utilities director or authorized representative within 10-working days of the water shortage advisory declaration; only if said shortage is drought related or as otherwise specified by the City.</p>
2	<p>The City of Hendersonville manager shall declare a <b><u>Water Shortage Alert</u></b> (referred to in <i>Chapter 52, Section 441</i> of the City Code of Ordinances): Require all purchase systems to declare the same level of conservation measures; all voluntary measures become mandatory; Class III non-essential uses to be prohibited; in addition to the following measures – purchase additional water from the City of Asheville to augment the requirements of customers of City, as required; enforce system-wide water use reduction goal of 10% (including industrial and commercial plans) from normal levels, as determined by the utilities director; notify water customers by any and all methods previously described; ban car washing except for those facilities equipped to recycle water and are that registered as such with the City, and lawn/grounds irrigation, except for nurseries that are registered with the city, while said nurseries will be allowed to operate they shall be required to reduce average consumption by no less than 20%, if not, water use will be prohibited.; ban all non-commercial pressure washing and all wash down of impervious surfaces (i.e., driveways, sidewalks, parking lots, etc.); ban the filling of newly constructed or recently drained pools; all non-public hydrant use by permit only, only if for uses other than fire suppression and public safety; ban ornamental uses; enact water conservation rates, as described below; city manager may authorize additional water use restrictions or bans, if 10% water use reduction goal is not met, to be enforced at some time after public notification of water shortage alert, in accordance with Stage II of City's water shortage response and conservation ordinance (Chapter 52, Section 441).</p>
3	<p>The City of Hendersonville manager shall declare a <b><u>Water Shortage Emergency</u></b> (referred to in <i>Chapter 52, Section 442</i> of the City Code of Ordinances): Require all purchase systems to declare same level of conservation measures; continue purchase of water from City of Asheville as needed; in addition to the above measures the following will also be imposed; notify water customers by any and all methods previously described; reevaluate Class II uses; ban commercial car washes; ban all uses of fountains and reflection pools; request additional conservation from Class I (essential) users as may be possible; enact water conservation</p>

	rates, as described below, if so approved by city council; limit personal vegetable garden irrigation to no more than one inch of water per week; ban all landscape irrigation (including golf course greens, school grounds, residential), except for nurseries that are registered with the city, said nurseries may be allowed to operate but shall be required to reduce average consumption by no less than 30% overall; if not, water use will be prohibited; ban all recreational uses.
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VI. Enforcement and Penalties.

The provisions of the water shortage response plan will be enforced by the Town’s public works department and police department. Violators may be reported to the Town Hall or the e-mail contact listed on the Town’s website ([www.laurelpark.org](http://www.laurelpark.org)). Citations are assessed according to the following schedule depending on the number of prior violations and current level of water shortage.

Offense	Stage I: Water Shortage Advisory (Voluntary Restrictions)	Stage II: Water Shortage Alert (Mandatory Restrictions)	Stage III: Water Shortage Emergency (Mandatory Restrictions)
First	N/A	Notice of Violation (NOV)	Disconnection of water service (24-hr. shut-off)
Second	N/A	Disconnection of water service (24-hr. shut-off)	Up to \$500 fine and disconnection of water service at the main
>2	N/A	Up to \$500 fine and disconnection of water service at the main	Up to \$500 fine and disconnection of water service at the main

Drought surcharge rates are effective in Stages 2 and 3.

VII. Public Comment.

Customers will have multiple opportunities to comment on the provisions of the water shortage response plan. A public hearing will be scheduled with notice printed in the local newspaper to collect comments regarding the draft plan. All subsequent revisions to the plan will be published at least 10-days prior to an adoption vote by the Laurel Park Town Council.

### VIII. Variance Protocols.

Applications for water use variance requests will be coordinated through the City of Hendersonville. Copies are available from the City's operations center located at 305 Williams St., Hendersonville, NC 28791. All applications must be submitted to the water and sewer department for review by the utilities director or the director's designee. A decision to approve or deny individual variance requests will be determined within two weeks of submittal after careful consideration of the following criteria: impact on water demand, expected duration, alternative source options, social and economic importance, purpose (i.e. necessary use of drinking water) and the prevention of structural damage.

### IX. Effectiveness.

The effectiveness of the Town water shortage response plan will be determined by comparing the stated water conservation goals with observed water use reduction data. Other factors to be considered include frequency of plan activation, any problem periods without activation, total number of violation citations, desired reductions attained and evaluation of demand reductions compared to the previous year's seasonal data.

### X. Revision.

The water shortage response plan will be reviewed and revised as needed to adapt to new circumstances affecting water supply and demand, following implementation of emergency restrictions, and at a minimum of every five years, as required by the provisions of G.S. 143-355 (l). Further, a water shortage response planning work group will review procedures following each emergency or rationing stage to recommend any necessary improvements to the plan. The Town's public works superintendent shall be responsible for initiating all subsequent revisions.