1	title
2	A MOTION stating the Flood Control District Zone District
3	executive committee's intent to include the Willowmoor
4	Floodplain Restoration Project in the Sammamish Capital
5	Investment Strategy, explore near-term mitigation strategies for
6	Lake Sammamish property owners, and continue to pursue permits
7	required for ongoing maintenance of the Sammamish River
8	Transition Zone.
9	body
10	WHEREAS, the Willowmoor Floodplain Restoration Project ("the Willowmoor Project")
11	proposes to reconfigure the Sammamish River Transition Zone ("the Zone") and adjacent
12	undeveloped King County property, and
13	WHEREAS, the Zone was constructed as part of the overall Sammamish River
14	Improvement Project ("the Improvement Project") in the 1960s by the U.S. Army Corps of
15	Engineers ("the Corps") in cooperation with King County primarily to control flooding in the
16	Sammamish river valley, and
17	WHEREAS, King County is responsible for maintaining the Improvement Project
18	through an operation and maintenance agreement with the Corps, and
19	WHEREAS, the King County Flood Control Zone District ("the District"), through the
20	King County water and land resources division as its service provider, provides funding for and
21	conducts regular maintenance of the Zone, including mowing, trimming, removal of vegetation,
22	removal of accumulated sediments in the channel and associated mitigation efforts, and
23	WHEREAS, state agency and tribal government representatives have expressed concern
24	that those maintenance actions adversely affect water quality and habitat and are in conflict with

26 species listed under the federal Endangered Species Act, and 27 WHEREAS, in recent years, property owners around Lake Sammamish have expressed 28 concerns about high lake levels impacting their properties, and WHEREAS, the Willowmoor Project was created with the intent to reduce the frequency 29 and duration of high lake levels while maintaining downstream Sammamish river flood control 30 31 performance, and 32 WHEREAS, since mid-2013, the District's service provider, the King County, has been 33 collecting data, conducting technical analyses and developing a suite of conceptual design 34 alternatives for the Willowmoor Project, and 35 WHEREAS, the District has funded and implemented a variety of means to engage 36 various stakeholders and the public during the conceptual alternative development process for 37 the Willowmoor Project, and 38 WHEREAS, in parallel with the process for developing options for reducing lake levels 39 with reconfiguration within the Zone, eight cold-water supplementation concepts were identified, 40 developed, analyzed and compared as a tool for reducing fish morbidity, and WHEREAS, on June 6, 2016, the District executive committee approved Motion 2016-41 42 04.1, which provided direction to proceed to 30 percent design with the Project, including, in 43 part: developing the split channel alternative in such a way that balanced the objectives of flood 44 control, habitat restoration, fish passage and sustainability; conducting a feasibility analysis of a dynamic weir that included costs and benefits; developing a maintenance plan for when the 45

federal, state and local efforts to protect and enhance riverine habitat for recovery of salmon

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project is complete; pursuing grant sources and identifying funding partners to further evaluate

cold water supplementation and assume ongoing maintenance costs should the option be

selected; and continuing existing maintenance during design and permitting phases, and

WHEREAS, King County prepared a report dated May 22, 2018, in response to the
issues listed in Motion 2016-14.1. The report, using the "Modified Existing Conditions HEC-
RAS" model for lake levels, indicated that there was no significant difference in flood risk
reduction between the wide and narrow side channel alternatives and that the manually operated
weir, which assumed adjustments in weir height only on a seasonal basis, was not expected to
reduce lake levels for a significant number of flood days, and
WHEREAS, the District requested King County evaluate the flood risk reduction of a
dynamic weir, which could be adjusted with greater frequency and in anticipation of major
weather events. In response, the county prepared a progress memorandum for an addendum to
the weir analysis dated July 5, 2019, using the "Contemporary Conditions spreadsheet." The
analysis preliminarily indicated a 25 percent to 47 percent reduction in flood days exceeding lake
elevation of 27 feet was possible using a remote dynamically operated weir, and
WHEREAS, the July 5, 2019 progress memorandum included a sensitivity analysis that
indicated the consequence of incorrect parameter estimation for downstream risks was very high,
and could have negative consequences on the city of Redmond's stormwater infrastructure, and
WHEREAS, in June 2020 the final Remotely Operated Dynamic Weir Analysis
Addendum Technical Memorandum confirmed the preliminary results of the July 5, 2019
progress memorandum, and
WHEREAS, because the results of the 2018 and 2019 analyses varied significantly due to
differences in data availability and model setup, the District requested a third-party review of the
models and analysis to inform further decision making for the Willowmoor Project, and
WHEREAS, the District issued a request for proposals for a third-party evaluation in
2019 and again in 2020 and no responses were received in either cycle, and
WHEREAS, in February 2020, Lake Sammamish experienced historic flooding, resulting
in damage to property including docks, crawlspaces and small outbuildings around the lake; and

74	WHEREAS, climate change is projected to increase the frequency and intensity of heavy
75	rainfall events in King County in coming years, increasing the potential for high lake level events
76	and associated flooding around the lake, and
77	WHEREAS, the impact of climate change makes adaptation and mitigation necessary, in
78	addition to flood risk reduction efforts, and
79	WHEREAS, uphill development around Lake Sammamish and in tributary stream basins
80	has resulted in increased runoff into the lake during storms, and
81	WHEREAS, Lake Sammamish and the Transition Zone are integral parts of the
82	Sammamish River basin and that changes in one part of the basin, including tributaries to the
83	Sammamish River, have implications for other parts of the basin, and
84	WHEREAS, the Sammamish river capital investment strategy is intended to take a
85	comprehensive look at the entire Sammamish river basin in collaboration with the Corps, cities
86	and other stakeholders and to update the capital investment and maintenance strategy for meeting
87	the flood risk reduction, fish habitat, and navigability requirements of the Corps's 1964
88	operations & Maintenance Manual, and
89	WHEREAS, on June 16, 2020, the District executive director approved the Sammamish
90	river capital investment strategy work program authorization, which did not include the
91	Willowmoor Project because the third-party review had not been completed, and
92	WHEREAS, the 2021 adopted District budget includes an additional \$1,000,000 for the
93	Willowmoor Project;
94	NOW THEREFORE BE IT MOVED BY THE EXECUTIVE COMMITTEE OF THE KING
95	COUNTY FLOOD CONTROL ZONE DISTRICT:
96	SECTION 1. In coordination with King County as the District's service provider, the
97	District will:

- A. Update the Sammamish river capital investment strategy work program authorization and project charter to include Lake Sammamish, the Willowmoor project and Issaquah creek to ensure a complete basin-wide approach, subject to approval by the District executive director;
- B. Work with cities that border Lake Sammamish to design and implement near-term flood mitigation options for lakeside landowners, such as floating docks, out building relocation or elevation and other floodproofing measures;
- C. Conduct outreach to homeowners' associations and others on the lake to make them aware of their potential eligibility for flood-reduction grants and flood insurance;
- D. Prepare a high-level assessment of the scope and level of effort needed for data collection and a tributary gaging, groundwater monitoring and weather station network that would be able to support lake level forecasting;
- E. Continue to pursue the permits needed to continue vegetation maintenance in the Zone; and
 - F. Identify updates to the 2021 work plan and budget needed to undertake the work described in this motion for potential inclusion in the 2021 midyear budget update.
- SECTION 2. The District executive director will:

- A. Issue a third-party review request for proposals for analysis of weir alternatives, to remain open until the District executive director executes a contract for the work; and
- B. Explore possible county-owned locations closer to Lake Sammamish for sandbag distribution.
 - SECTION 3. The District requests King County reach out to city stormwater programs in Bellevue, Issaquah, Sammamish and Redmond through existing contacts and coordination venues to learn more about their current plans, including stormwater retrofits and green stormwater infrastructure initiatives, such as rain gardens, and share its findings to the District executive director.