



May 31, 2018

Patty Kouyoumdjian, Executive Officer
Lahontan Regional Water Quality Control Board
2501 Lake Tahoe Blvd.
South Lake Tahoe, CA 96150

Subject: Supplemental Reports on TKPOA 2017 Field and Research Activities

Dear Ms. Kouyoumdjian,

On January 31, 2018, the Tahoe Keys Property Owners Association (TKPOA) submitted to the Lahontan Regional Water Quality Control Board (Lahontan) its annual update to the Integrated Management Plan along with several reports as required under Waste Discharge Requirements Order No. R6T-2014-0059 (WDR Order) (WDID No. 6A090089000).

Beyond the requirements of the WDR Order, TKPOA also voluntarily completed numerous additional 2017 field data collection and research activities to help advance our understanding of possible measures and alternatives that could bring aquatic invasive plants under control in the Tahoe Keys lagoons. This letter transmits for your information and use the results of TKPOA's 2017 additional voluntary investigations:

2017 Sediment Baseline Report

Sediment samples were taken twice during 2017, once in spring and once in fall, at 13 different locations within the Tahoe Keys lagoons and Lake Tahoe. These samples were analyzed for nutrient content and organic matter, similar to 2016 sampling protocols. This report provides a summary of the results and comparisons to 2016 data.

Evaluation of Active and Passive Skimmers for Macrophyte Fragment Collection

This report builds upon the skimmer boat evaluations that were conducted in 2016. To further efforts for fragment control several different types of skimmers were researched and evaluated for use in the Tahoe Keys lagoons. The skimmers evaluated included both active (using power) and passive (using water currents) skimmers.

2017 Cyanobacteria Sampling Report

Due to stakeholder interest, the TKPOA conducted cyanobacteria sampling throughout the Tahoe Keys lagoons to determine the presence or absence of cyanobacteria and associated toxins. This report summarizes the results of the sampling. It does not include data collected during the harmful algal bloom that occurred in late August. The harmful algal bloom period data resides with Lahontan staff.

Non-Chemical Combination Control Methods Test Summary Report

In 2017, the TKPOA took on the task of demonstrating different non-chemical control methods including rotovating and bottom barrier installation. This report covers regulatory consultation of the two methods and the efficacy of the large scale bottom barrier installation that was conducted in 2017.

2017 Baseline Water Quality Report for the Tahoe Keys Lagoons

Water quality sampling began in April and continued monthly through October. Samples were taken at 13 different sites in and around the Tahoe Keys Lagoons and analyzed for several different constituents. This report provides an overview of the sampling and an analysis on the data collected. It is presented in two volumes with Volume 1 being the report and Volume 2 the appendices including all data collected in the field and from the lab.

2017 Atmospheric Deposition Evaluation for the Tahoe Keys Lagoons

Atmospheric deposition contributes substantially to the nutrient loading of Lake Tahoe. This report takes a look at how atmospheric deposition may be contributing to nutrients in the Tahoe Keys lagoons and the impact it may have on the growth of aquatic macrophytes.

Greenhouse Gas Emission Report for the Tahoe Keys Property Owners Association

This report covers the greenhouse gas (GHG) emissions that are produced by the weed harvesting program in the Tahoe Keys lagoons. It took into consideration the run time of harvesters and skimmer boats, miles driven for the hauling truck and trailer, and number of trips outside the basin to dispose of harvested weeds.

On behalf of TKPOA's Water Quality Committee and entire Association, we look forward to working collaboratively with you and other interested stakeholders as we complete our evaluations on alternative approaches for addressing the aquatic invasive plant challenge in the Tahoe Keys lagoons.



Kirk J. Wooldridge PCAM®, AMS®, CMCA®, CCAM®, CHA®
General Manager
Tahoe Keys Property Owners Association
356 Ala Wai Boulevard
South Lake Tahoe CA 96150
530-542-6444 Extension: 224
530-541-2521 FAX
kwooldridge@tahoekeyspoa.org
www.tkpoa.com

Enclosures (listed above)

Cc (with Enclosures)

- Ms. Joanne Marchetta, Tahoe Regional Planning Agency

- Mr. Dennis Zabaglo, Tahoe Regional Planning Agency
- Ms. Julie Regan, Tahoe Regional Planning Agency
- Ms. Kimberly Caringer, Tahoe Regional Planning Agency
- Mr. Russel Norman, Lahontan Regional Water Quality Control Board
- Dr. Bruce Warden, Lahontan Regional Water Quality Control Board
- Mr. Jesse Patterson, League to Save Lake Tahoe
- Ms. Seana Doherty, FreshTracks
- TKPOA Board of Directors
- TKPOA Water Quality Committee