



**TWSA BOARD MEETING
PACKET
For 9 4 2019**

Refer to RED page numbers in the TOP left corner.

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NOTICE OF MEETING:

The next regular meeting of the Tahoe Water Suppliers Association (TWSA) is:

Wednesday, Sept. 4, 2019 / 12 noon to 4 pm

Incline Village GID

1220 Sweetwater Rd., Incline Village, NV 89451- Phone: (775) 832-1203

Lunch provided at noon

Conference call will be available:

Call **1-877-594-8353** / when prompted, Enter Conference Dial-in **17757186**

Agenda

- A. Introduction of Guests – none scheduled**
- B. Presentations – none scheduled**
- C. Public Comment** Conducted in accordance with Nevada Revised Statute (NRS) Chapter 214.020 and limited to a maximum of 3 minutes in duration.
- D. Approval of Agenda**
- E. Approval of Minutes** for the June 12, 2019 TWSA Board meeting.
- F. Reports**
 - a. Staff Reports (Annual Report, Events, Tahoe Tap Refill Network, Water Fill Station Grant Project)
 - b. Year End Fiscal 2018-2019 Report
 - c. Current budget - see Open Gov link for current budget and expenses:
https://inclinevillagegidnv.opengov.com/transparency#/13549/accountType=revenuesVersusExpenses&embed=n&breakdown=types¤tYearAmount=cumulative¤tYearPeriod=years&graph=bar&legendSort=coa&month=7&proration=faile&saved_view=25535&selection=CB5BA873E200D4E06EB4E08C133688F5&projections=null&projectionType=null&highlighting=null&highlightingVariance=null&year=2020&selectedDataSetIndex=null&fiscal_start=earliest&fiscal_end=latest
 - c. TWSA Chair Report
- G. General Business (for possible action/vote)** Items for Discussion and Possible Action:
 - 1. TKPOA Application/AIS Plan Update
 - a. General informational update
 - b. Discussion - current Board position – see note at end of 6/12/19 minutes.
 - c. Chair topic - Sodium Carbonate Peroxyhydrate
 - 2. Emerging contaminants: micro-plastics
 - a. CA [Senate Bill No. 1422](#) - requirements for State Board to develop analytical methods and conduct monitoring minimum of four years of testing and reporting of micro-plastics in drinking water.
 - b. Sampling efforts at Lake Tahoe. Does the Board have interest in supporting TERC surface water micro-plastics sampling efforts w/ purchase of appx. \$5,500 sampling trawl/monitoring equipment?
 - c. NDEP 319h Grant – Micro-plastics Education Proposal submitted
 - d. “Tahoe Tap Canned Water’ idea
 - e. Diver Cleanups
 - 3. Vice chair reassignment
- H. Purveyor Updates**
- I. Public Comment**
- J. Adjournment**

IMPORTANT 2019 DATES:

Great Sierra Cleanup = Sat. Sept. 21, 2019.

TWSA Board Meetings – First Wednesdays, quarterly, held from 12 to 4 pm:

- December 4, 2019 (SLT - Edgewood)

Draft Proposed 2020 Board Meeting Dates (to be decided at December meeting):

- March 4, 2020 (IVGID)
- May 27 or June 10, 2020 (ED unavailable June 3) (SLT _ TBD)
- Sept. 2, 2020 (IVGID)
- Dec. 2, 2020 (SLT_Edgewood)

TWSA Board of Directors

Suzi Gibbons (Chair)

Andrew Hickman

Richard Robilliard; Phil Ritger (alternate)

Patrick McKay; Mike McKee (alt.)

Cameron McKay

Joseph Pomroy; Bob Lochridge (alt.)

Cameron McKay; Brandon Garden (alt.)

Bob Loding, Nikki Fossette (alt.)

Kim Boyd; Tony Lalotis (alt.)

Lynn Nolan; Shelly Thomsen (alt.)

North Tahoe Public Utility District

Round Hill General Improvement District

Douglas County Systems

Edgewood Water Company

Glenbrook Water Cooperative

Incline Village General Improvement District

Kingsbury General Improvement District

Lakeside Park Association

Tahoe City Public Utility District

South Tahoe Public Utility District

For more information, please contact: Madonna Dunbar, TWSA Executive Director

1220 Sweetwater Road, Incline Village, Nevada 89451

(775) 832-1212 office / (775) 354-5086 cell /email: mod@ivgid.org

Certification of posting of agenda

I hereby certify that on or before Thursday, Aug.29, 2019 at 9:00 am, a copy of this agenda was delivered to the post office addressed to the people who have requested to receive copies of IVGID's agendas; copies were either faxed or e-mailed to those people who have requested; and a copy was posted at the following locations within Incline Village/Crystal Bay in accordance with NRS 241.020:

1. IVGID Anne Vorderbruggen Building (Administrative Offices)
2. Incline Village Post Office
3. Crystal Bay Post Office
4. Raley's Shopping Center
5. Incline Village Branch of Washoe County Library

By, Madonna Dunbar, Executive Director, TWSA, (775) 832-1212 office / email: mod@ivgid.org

Notes:

Items on the agenda may be taken out of order; combined with other items; removed from the agenda; moved to the agenda of another meeting; moved to or from the Consent Calendar section; or may be voted on in a block. Items with a specific time designation will not be heard prior to the stated time, but may be heard later. Members of the public who are disabled and require special accommodations or assistance at the meeting are requested to call IVGID at 832-1212 at least 24 hours prior to the meeting.

Copies of the packets containing background information on agenda items are available for public inspection at the Incline Village Library. TWSA agenda packets are available at the TWSA website www.TahoeH2O.org or the TWSA office at 1220 Sweetwater Road, Incline Village, Nevada 89451.



MINUTES

The regular meeting of the Tahoe Water Suppliers Association (TWSA)

Wednesday, June 12, 2019, 12 pm to 4 pm, South Tahoe PUD, 1275 Meadow Crest Drive, South Lake Tahoe, CA

- A. Presentations** – Stacy Van Diest, Nevada Rural Water Association, presented Esri story maps to the TWSA Board and will meet with staff to train on the new outreach tool. Jesse Patterson, League to Save Lake Tahoe, provided the Board with a brief history of the League to Save Lake Tahoe and an overview of current projects including their involvement with the Tahoe Keys Control Methods Test.
- B. Roll Call** Members in Attendance: Suzi Gibbons (NTPUD), Rick Robillard (Douglas County), Shelly Thomsen (STPUD), Cameron McKay (Glenbrook/ KGID/ RHGID(proxy)/ EDGEWOOD), Joe Pomroy (IVGID), Kim Boyd (TCPUD), Bob Loding (LPA), Reggie Lang (NDEP)
TWSA Staff in attendance: Madonna Dunbar and Sarah Vidra
- C. Public Comment** Conducted in accordance with Nevada Revised Statute Chapter 214.020 and limited to a maximum of 3 minutes in duration.
No public comment given
- D. Introduction of Guests** – motion to move introduction of guests to before presentations made by Joe Pomroy, second by Shelly Thompsen, all in favor; motion carried.
- E. Approval of Agenda**
Motion to approve agenda as submitted made by Joe Pomroy, second by Cameron McKay, all in favor; motion carried.
- F. Approval of Minutes**
Motion to approve the March 6 2019, TWSA Board Meeting minutes as submitted, made by Cameron McKay, second by Shelly Thomsen, all in favor; motion carried.
- G. Reports**
- a. Staff Reports (Events, Tahoe Tap Refill Network, Scholarships)
 - Staff highlighted several activities from the quarter; a full activity report is available in the board packet.
 - 2019 Earth Day Tap Water Taste Test Results

NTPUD – 111	RHGID – 77	
TCPUD – 118	KGID – 63	
Bottled – 36	Bottled – 41	
Totals: Squaw – 265	SLT – 181	Both: 446 Taste Tests
 - Staff cohosted, with the Tahoe Environmental Research Center, and attended the Lahontan Water Board’s Harmful Algal Bloom Training on May 29. The half-day training included lecture and laboratory work on freshwater Harmful Algal Blooms (HABs). Staff can now identify and collect field samples for further laboratory analysis if requested in the Tahoe Basin.
 - The ‘Cigarette Bin Collection Project’ initiated between TWSA, League to Save Lake Tahoe and Keep America Beautiful (KAB) will begin region-wide bin installation in June 2019. The artwork was finalized, program agreement finalized, legal review of

project completed. Implementation is scheduled for June to Oct. 2019. KAB has provided 250 metal cigarette filter collection bins to IVGID Waste Not (for TWSA) for distribution and use within the Tahoe Basin. This is an in-kind donation valued at \$20,000 (250 @\$80 per unit). Program partners developed a custom Take Care sticker for the Tahoe installed bins. TWSA/Waste Not has agreed to track the installation locations of all units. The League will manage a small team of volunteers for maintenance of units and other data collection.

- Staff hosted the North Shore component of the 2019 Snapshot Day event on May 18, 2019, at Watermans' Landing in Carnelian Bay, 21 volunteers' sampled 14 locations. In 2019, 283 volunteers participate throughout the entire Tahoe Basin and Truckee River Watersheds visiting 78 locations

b. Financial update – See OpenGov link for current budget and expenses:

Full budget report will be given at the September 4th meeting, expected reserve rollover of \$20K.

All budget information is available on the Incline Village OpenGov transparency webpage provided in the board packet.

c. TWSA Chair Report

- The Chair has been participating the TKPOA Stakeholder group.
- The Chair attended the Tahoe Fire and Fuels Team Workshop on April 11, 2019.
- The Chair shared with the group that they should be prepared for planned electric outages from Liberty and NV Energy for red flag warnings, high winds, and fuel conditions. Electric Company will try to give 8 days notice to responsible agencies, 2 days notice to the public. The outage could last from 2-72 hours.
- NTPUD and STPUD attended a workshop on outreach to disadvantaged communities held in Mammoth CA.

H. General Business (For Possible Action/Vote)

a. Discussion on presentations

b. AIS Update (Public scoping meetings, field trips)

Work with the TKPOA Stakeholder Group continues with Madonna and Suzi representing the TWSA Board at the monthly meetings. The larger Stakeholder Circle meeting will be held at the end of the month, along with three public scoping workshops on the new Project Description on the Tahoe Keys Lagoons Aquatic Weed Control Methods Test (CMT). The combined Group A and Group B methods test currently includes the use of Chemicals and or UV-C Light for the first year, followed by mechanical methods in year 2. The TWSA Staff summary is attached to this document. The Board will be asked in September to confirm their current stance, "TWSA cannot support the application of aquatic herbicides until all non-chemical methods have been fully vetted" TWSA Board vote from Thursday June 8, 2017 (see end of document) * . Members are asked to discuss with their Boards on their stance on chemical use and come back to the TWSA for a vote in September.

WQTS (consultant) is still lined up to review and comment on the anti-degradation analysis from State of CA Attorney General Office, when it is released.

Board members who are interested in joining the TKPOA boat tour in September need to let Madonna know.

Stakeholder Group Highlights presented to the TWSA Board:

- Extensive time has been spent on the rules of engagement, project description update, and informational website.
- The CEQA Process is only being conducted because of the use of chemicals as a proposed Group A method. It was proposed that the cost of the CEQA process be directly assigned to chemical use in further method calculations. (Staff Note: Ex.Dir's understanding is that CEQA cost will be pro-rated {not assigned 100% to chemical use} as multiple methods are being evaluated in the CEQA process.)
- The application project description submitted to the regulators in 2018 had no workability. The new project description allows for flexibility in implementation of the Group A methods to be tested for large scale plant treatment.
- The Stakeholder Mediated Working Group has produced a new website for public information on the CMT, it is www.TahoeKeysWeeds.org.
- Individual agency scoping comments need to be made by August 2, 2019.
- The intent of Lahontan is that herbicides should not be used on a continuous basis; they are willing to explore the combination method of herbicides followed by UV-C light.
- The proposed CMT is in a different spot then two years ago. Has the TKPOA and Stakeholder group done enough work at insisting non-chemical methods first to allow for chemical testing in the CMT.
- TWSA participation in the Stakeholder Group has brought alternatives into the project description. Lahontan treatment area assessment, three year, full blown project as proposed in the 2018 application. Within in five years the CEQA can be amended for a full TKPOA Lagoons Group A methods application.
 - TWSA Staff Information provided for reference, not discussed in board meeting. The July 20, 2017 project description included 13.7 acres of herbicide treatment. The July 25, 2018 project description included a test of 18 acres of herbicide treatment, followed by full herbicide implementation over two years totaling 136 acres of treatment, with maintenance herbicide implementation of up to 35 acres annually for 8 years.
- The anti-degradation analysis is still in process with the state of CA, including legal counsel.
- The responsible agencies (Lahontan & TRPA) will ask if the TWSA is in agreement with the application.
 - Why we didn't vote in favor of the project will be in the CEQA document, and that maybe all we get out of the process.
 - There is eventually going to be a vote in the Stakeholder Group. Madonna and Suzi can vote that we have agreed to go along with the process, we don't agree with the application because we still want non-chemical methods really vetted first.
 - The Stakeholder Group knows we are not in complete consensus as a Board.

- The CEQA process is currently in the Notice of Preparation phase, the mediator and responsible agencies are looking for alternative methods for the CMT to be included in the Draft Environmental Impact Report.

AIS General Discussion by the TWSA Board includes the following:

- NTPUD will not bring the TKPOA to the Board until the Draft EIR is published, and that comment period is open.
- Drafting a template letter for Draft EIR comment.
- Can the TWSA pull out of the mediated stakeholder process?
- Concern about the turnaround time for WQTS comments, will it be a 30 day, 60 day or 45 day comment period for the Draft EIR.

c. Water Bottle Filling Station (WBFS) Grant Program

1. Staff request \$5,000 increase to 2019-20 budget to \$10,000 total in order to leverage 1:1 matching funds from Tahoe Fund. No change to overall budget. Motion to do an internal fund transfer by reducing reserve funds by \$5k and increasing the water bottle fill station incentive program by \$5K for \$10k total in order to leverage 1:1 matching funds from the Tahoe Fund, made by Joe Pomroy, second by Shelly Thompsen, all in favor; motion carried.
2. Board review of materials for WBFS grant program finalization.
The board discussed increasing the number of awards per entity to five, and gave the OK to proceed with the project.

d. Discussion on possible correspondence to CAWRCB on packaged water mitigation.
The TWSA Board will not provide comment on issues outside of the Lake Tahoe Basin.

e. Review of annual TWSA Board Goals.
No changes made to 2019 Board Goals.

I. Purveyor updates

STPUD - The STPUD Board approved the Prop218 rate increase passed with 4% water and 5% sewer rate increases. Meeting the 750 GPM requirement from the fire district and installing more fire hydrants was the primary driver for the water increase. STPUD is now using the "WaterSmart" software provides a customer portal that includes continuous leak notifications. The software is grant funded for five year through the Bureau of Reclamation. The Lahontan Water Board received a \$4.6M grant from the state water board to investigate PCE, the largest issue from the state water board. The alternative the agencies are interested is to pump and treat and then serve to customers. STPUD is working with Liberty Utility to figure out the city streetlights and the billing process.

IVGID – The District is doing \$700k a MMC upgrade at the water disinfection plant. IVGID worked with PureTechnology on a demo project with their Smart Ball technology. The smart ball was deployed in a 14-inch line, for 2,000 feet to find leaks, the result was 21 points of failure with the technology and they will be coming back with an upgraded plan for furfuture deployment.

TCPUD – Is initiating a rate study focused on fire flow and integrating the new water systems acquired in 2018. The Madden Creek and Tahoe Cedars systems have projects happening in distribution and interconnection improvements. The Bunker Water Tank needs some finishing touches. The long term financial plan to address gaps in infrastructure need and forecasted revenue, to determined if there will be an assessment or getting loans.

LPA - Has a new water system manager Nikki Foskett. LPA is working on a CIP for booster pump station controls, the current technology is obsolete and they are moving to VFD Drives. The project should provide energy savings. LPA will be using the STPUD intertie during the upgrade to serve customers.

KGID – is working on \$2M in capital improvements including at \$1.5M project replacing a 2500 feet of steel water line via trench work though solid rock. KGID is also working on rates with “Waterworth” software that was purchased though Nevada Rural Water at a 60% discounts though the organization.

Douglas County – is working on consolidating seven rate structures, including Cave Rock and Zephyr. The consulting firm, SCS (Seattle, WA) has suggested funding 100% of the most critical projects, w \$28M in CIP projects. The Douglas County Commissioners approved a 6% increase to a consolidated rate; the Tahoe systems will have a 20% surcharge for infrastructure improvements. The Country is also working on a master plan for SCADA upgrades.

NTPUD – Installed a zone meter in the system off CA Hwy 267 with all Kings Beach water going through to monitor usage. The District is going out to bid this summer for the Plaza Circle Water Main replacement of 1100 linear feet for proper fire protection in Tahoe Vista.

NDEP – Sanitary surveys for lake systems will be taking place this month. There is a new funding source for Ecosystem and Watershed Protection that NDEP staff has shared with TWSA staff. Waste Discharge Permits from Lahontan RWQCB have been sent to staff, for possible impacts to Edgewood and KGID.

J. Public Comment

No public comment given

K. Adjournment

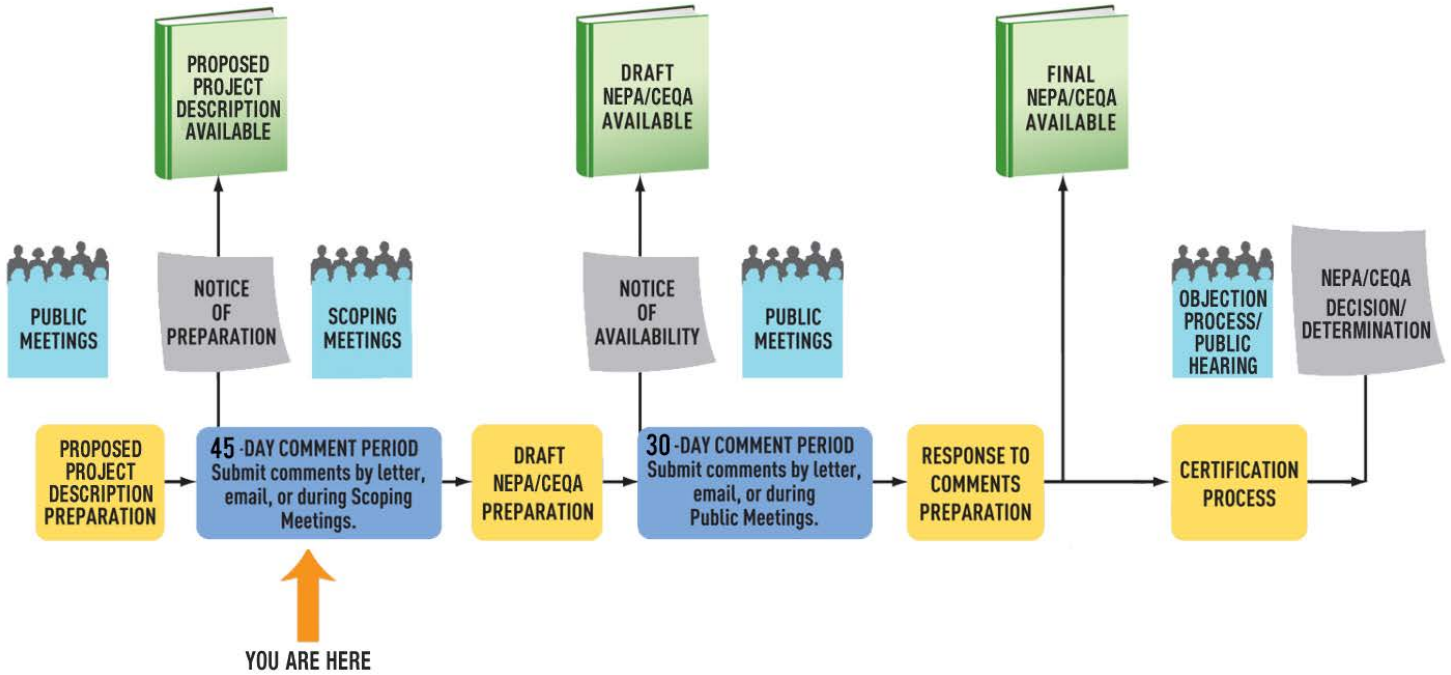
Motion to adjourn made by Cameron McKay, Second by Bob Loding, motion passes unanimously. The meeting adjourned at 3:59 pm.

*The Board Stance options for the vote taken on June 8, 2017:

- b. Tahoe Water Suppliers Association Board Meeting Regarding TKPOA Proposed Pilot Project. Clarify TWSA Board Position on potential use of herbicides. Selection from below options or proposed modification.
 1. *Oppose the pilot project using aquatic herbicides in Lake Tahoe or any adjoining water body.*
 2. ***TWSA cannot support the application of aquatic herbicides until all non-chemical methods have been fully vetted. - ADOPTED***
 3. *TWSA cannot take a position (neutral) on the application of aquatic herbicides until all non-chemical methods have been fully vetted.*

4. *Take no position (neutral) on the pilot project as long as appropriate mitigation measures are in place.*
5. *Take no position (neutral) on the pilot project provided the containment barriers remain in place until there is no detection of applied chemicals.*
6. *Support the pilot project provided the containment barriers remain in place until there is no detection of applied chemicals.*

Reference Attachment: TWSA TKPOA staff summary of Tahoe Keys Lagoons Aquatic Weed Control Methods Test (CMT)



Tahoe Keys Lagoons Aquatic Weed Control Methods Test (CMT)

Lead Agencies: Lahontan RWQCB & TRPA

Notice of Preparation: June 17, 2019

Comment Period: June 17, 2019-August 2, 2019

Responsible Agencies: July 17, 2019

Project Description

The TKPOA is Seeking exemption to the Basin Plan Prohibition of the use of Aquatic Pesticides and TRPA Approval. The generalized test program that is proposed is to a two-year program to demonstrate the safety, efficacy, compatibility, and utility of methods to control Eurasian Watermilfoil, Curlyleaf Pondweed, Coontail.

- Group A Methods (Year 1): aquatic herbicides and/or UV-C light
- Group B Methods (Year 2): mechanical methods (i.e., bottom barriers, diver assisted suction and UV-C light)

Herbicides to be used as Group A Methods three of four: Endothall, Triclopyr, Penoxsulam, and ProcellaCOR

Goal: performance measure is a 75% reduction in target aquatic plant biomass

Project Details: 12 Group A sites, 6 combination Sites, 3 control sites. Triplicate sample locations for statistical analysis.

Project Size: 28.96 acres of treatment, 16 herbicide sites

Hypothetical solution with combined methods



Proposed Treatment sites



Full-size images are available in the *Application For The Tahoe Keys Lagoons Aquatic Weed Control Methods Test Including An Exemption To The Basin Plan Prohibition On The Use Of Pesticides*. www.TahoeKeysWeeds.org

MEMORANDUM

TO: TWSA Board
FROM: Madonna Dunbar, IVGID Resource Conservationist
SUBJECT: TWSA Program Highlights – June to Sept. 2019
DATE: Aug. 28, 2019

JUNE 2019**TWSA / Water Conservation / Water Quality:**

Staff facilitated the June 12, 2019 TWSA Board meeting at South Tahoe PUD.

Staff coordinated the 2019 TWSA Scholarship Program. A total of 4 scholarships are awarded to area high school seniors.

Staff prepared the 2019 IVGID Consumer Confidence Report (CCR). It was distributed in the PW News and is posted online for public information. <https://www.yourtahoeplace.com/public-works/water/water-quality>

Staff is developing the program guidelines and forms for the TWSA Board review for the TWSA/Tahoe Fund Water Bottle Filling Station Grant Program for 2019-20. Tahoe Fund has committed a \$10K match for the project.

Staff cohosted, with the Tahoe Environmental Research Center, and attended, the Lahontan Water Board's Harmful Algal Bloom Training on May 29. The half-day training included lecture and laboratory work on freshwater Harmful Algal Blooms (HABs). Staff can now identify and collect field samples for further laboratory analysis if requested in the Tahoe Basin.

The Tahoe Keys Integrated Weeds Stakeholder Management Plan (mediated) workgroup's website of current information is: <https://tahoekeysweeds.org/>

The project applicant is significantly rewriting portions of the application at this time. CEQA document preparation is underway.

Staff monitored the monthly TRPA Shorezone Project Review Committee Project Application Meeting on June 18, 2019.

Staff hosted the spring Community Cleanup on 6/1/19. 168 volunteers spent 3 hours collecting road, trail and street-side debris, resulting in about 16 yards of collected litter. The event is a collaboration between IVGID Waste Not and the Incline Rotaries. Waste Not provides advertising, site logistics, collection tools, and volunteer management for the event. The Rotaries provide a BBQ lunch for attendees. This year's event was record-setting in attendance and amount of debris collected.

Staff conferred with Keep Truckee Meadows Beautiful on the Adopt-A-Spot program. We are researching a collaboration on repeat volunteer litter cleanup efforts.

Staff conducted a training with the "Virtual Water" activity from Project WET (Water Education for Teachers) which educates youth about direct and indirect water use. Approximately 15 teachers and their kids/students were taught about the "tug-of-war" between all water users.

Events Water Station Use:

Incline/Sand Harbor

Bike Path Opening	6/28/19	600 attendees
Tahoe City Wine Walk	6/15/19	1000 attendees
Rock Tahoe ½ Marathon	6/15/19	2000 attendees
Water Pouch/bike bottles distributed:		1,000

8 new dog waste bag stations were donated to Lake Tahoe State Park for the new Incline-Sand Harbor multi-use path. 12 cigarette bin stations were also donated.

The 'Cigarette Bin Collection Project' initiated between TWSA, League to Save Lake Tahoe and Keep America Beautiful (KAB) began region-wide bin distribution/installation in June 2019. KAB has provided 250 metal cigarette filter collection bins to IVGID Waste Not (for TWSA) for distribution and use within the Tahoe Basin.

Media coverage has been extensive!

6.18.19	250 cigarette butt collection canisters to be installed at Lake Tahoe	Fox News 4
6.18.19	250 Cigarette Butt Collection Canisters to Be Installed at Lake Tahoe	Yahoo!
6.23.19	Lake Tahoe Installing 250 Receptacles to Better Banish Butt Litter	SF CBS
6.23.19	Tahoe conservationists distribute new cigarette canisters	San Francisco Chronicle
6.23.19	Tahoe Conservationists Distribute New Cigarette Canisters	Cap Public Radio
6.23.19	Tahoe conservationists distribute new cigarette canisters	KCRA 3
6.23.19	Tahoe conservationists distribute new cigarette canisters	Las Vegas Review Journal
6.23.19	Tahoe conservationists distribute new cigarette canisters, hope to reduce litter	KTVN
6.23.19	Tahoe conservationists distribute new cigarette canisters	Fox 11
6.23.19	Tahoe conservationists distribute new cigarette canisters	Pinal Central
6.23.19	Tahoe conservationists distribute new cigarette canisters	WRAL
6.23.19	Tahoe conservationists distribute new cigarette canisters	The Toronto Star
6.23.19	Tahoe conservationists distribute new cigarette canisters	The Daily News
6.23.19	Tahoe conservationists distribute new cigarette canisters	CBS Las Vegas 8
6.23.19	Tahoe conservationists distribute new cigarette canisters	City News
6.23.19	Tahoe conservationists distribute new cigarette canisters	Ventura Broadcasting
6.23.19	Tahoe conservationists distribute new cigarette canisters	Plains Daily Mail
6.23.19	Tahoe conservationists distribute new cigarette canisters	Business Breaking News
6.23.19	Tahoe conservationists distribute new cigarette canisters	Hastings Tribune
6.23.19	Tahoe conservationists distribute new cigarette canisters	Beaumont Enterprise
6.23.19	Tahoe conservationists distribute new cigarette canisters	680 News
6.23.19	Tahoe conservationists distribute new cigarette canisters	El Paso Inc.
6.23.19	New Cigarette Butt Containers Coming To Tahoe	KTVN 2
6.23.19	Tahoe conservationists distribute new cigarette canisters	Spot on California
6.23.19	TAHOE CONSERVATIONISTS DISTRIBUTE NEW CIGARETTE CANISTERS	News Time Global
6.23.19	Tahoe conservationist distribute new cigarette canisters	MSN.com
6.23.19	250 cigarette butt collection canisters to be installed around Lake Tahoe	South Tahoe Now

6.23.19

[Tahoe conservationists distribute new cigarette canisters](#)

Houston Chronicle

The artwork was finalized, program agreement finalized, legal review of project completed. Implementation is scheduled for June to Oct. 2019. This is an in-kind donation valued at \$20,000 (250 @\$80 per unit). Program partners developed a custom Take Care sticker for the Tahoe installed bins. TWSA/Waste Not has agreed to track the installation locations of all units. The League will manage a small team of volunteers for maintenance of units and other data collection.

Professional Development/Other:

Hours logged this month by community volunteers in support of the Waste Not/TWSA programs equaled 489 hours (Community Cleanup Day) .

Joseph Hill, PW Intern, received his AWWA Water Efficiency Level 1 Certificate.

JULY 2019

TWSA / Water Conservation / Water Quality:

Staff released publicity on the TWSA/Tahoe Fund Water Bottle Filling Station Grant Program , (2019-20) at the end of July. Program initiated Aug. 1. Administrative pre-project work included: developing the program guidelines and forms, outreach content development, process procedures, financial management and publicity. Tahoe Fund provided a \$10K match for the project. Work is also being conducted to bolster the number of available refill stations on the Tap App which will also help advertise newly installed units.

Details are posted at www.DrinkTahoeTap.org.

Media coverage: <https://www.kolotv.com/content/news/Tahoe-business-owners-could-add-water-refill-station-inside-stores--525119571.html>

IVGID's High-Efficiency Appliance Rebate program kicked-off on July 1, 2019. To date 16 customers have received \$100 rebates for fulfilling requirements of the rebate program.

The Tahoe Keys Integrated Weeds Stakeholder Management Plan (mediated) workgroup met June, however staff was not in attendance. Website of current information is:

<https://tahoekeysweeds.org/> The project applicant is significantly rewriting portions of the application at this time. CEQA document preparation is underway.

Staff monitored the monthly TRPA Shorezone Project Review Committee Project Application Meeting.

Events Water Station Use:

Sand Harbor/Shakespeare	7/1 - 7/31	10,000 attendees
Red, White, and Tahoe Blue	7/1 - 7/8	5,000 attendees
Tales and Trails	7/24	500 attendees
	<i>Total:</i>	<i>15,500 event attendees</i>
Water pouches/bike bottles distributed:		1,500

Professional Development/Other:

Joseph Hill was promoted to Public Works Technician on July 1, 2019.

AUGUST 2019**TWSA / Water Conservation / Water Quality:**

Staff released publicity on the TWSA/Tahoe Fund Water Bottle Filling Station Grant Program , (2019-20) at the end of July. Program initiated Aug. 1. Administrative pre-project work included: developing the program guidelines and forms, outreach content development, process procedures, financial management and publicity. Tahoe Fund provided a \$10K match for the project. To date, 5 applications are active.

Media coverage: <https://www.kolotv.com/content/news/Tahoe-business-owners-could-add-water-refill-station-inside-stores--525119571.html>

Work is also being conducted to bolster the number of available refill stations on the Tap App which will also help advertise newly installed units. Details are posted at www.DrinkTahoeTap.org.

Staff met with Nevada Rural Water Specialist, Stacey Van Diest, for a 3 hour training session on the ESRI storymap software. Staff need to evaluate the viability of use of the program, considering some limits on existing resources.

Staff submitted an NDEP 319h Source Water Protection grant proposal with the Tahoe Center for Environmental Sciences on micro-plastics pollution education.

A Tahoe Tap Music Video was produced by local producer, Joaquin Fioresi. It features local talent, including Jenni Charles, Jonny Mojo, and the Tahoe Expedition Academy choir. It is posted online at https://youtu.be/uaZ_tn4fRj0

IVGID's High-Efficiency Appliance Rebate program kicked-off on July 1, 2019. To date 15 customers have received \$100 rebates for fulfilling requirements of the rebate program.

The Tahoe Keys Integrated Weeds Stakeholder Management Plan (mediated) workgroup met June, however staff was not in attendance. Website of current information is: <https://tahoekeysweeds.org/> The project applicant is significantly rewriting portions of the application at this time. CEQA document preparation is underway.

Staff monitored the monthly TRPA Shorezone Project Review Committee Project Application Meeting.

Staff participated in the Family Science Day event held on Aug. 3 at Kings Beach State recreation area with other members of the North Tahoe Environmental Education Coalition (NTEEC). 12 partners offered kid friendly educational booths and activities.

Events Water Station Use:

Sand Harbor/Shakespeare	7/1 – 8/24	10,000 attendees
Tahoe Summit	8/20	750 attendees
Family Science Day	8/2	500 attendees
	Total:	11,250 event attendees
Water pouches/bike bottles distributed:		1,500

Staff provided water bottles and refill station for the 22nd Annual Tahoe Summit held on 8/20/19 at Valhalla Historic Site in South Lake Tahoe.

The 'Cigarette Bin Collection Project' initiated between TWSA, League to Save Lake Tahoe and Keep America Beautiful (KAB) began region-wide bin distribution/installation in June 2019. KAB has provided 250 metal cigarette filter collection bins to IVGID Waste Not (for TWSA) for distribution and use within the Tahoe Basin. Project is ongoing.

The screenshot shows an Outlook window titled "TWSA Year End - Message (HTML)". The ribbon includes "File", "Message", "ESET", and "Tell me what you want to do...". The ribbon contains various icons for actions like Ignore, Delete, Reply, Forward, Meeting, Move, Mark Unread, Categorize, Follow Up, Translate, Find, Related, Select, Zoom, Mark as Spam, and Mark as Not Spam. The email header shows it was received on "Wed 7/31/2019 2:09 PM" from "Robb, Diana C." with the subject "TWSA Year End". The recipient is "Dunbar, Madonna". A notification states "You replied to this message on 8/1/2019 1:59 PM." An attachment is visible: "TWSA FYE 6.30.2019 Statement of Operating Sources and Uses.xlsx" (16 KB). Below the attachment is a "Phish Alert" bar with a "+ Get more apps" link. The email body contains the following text:

Hi Madonna,

See attached for the Statement of Operating Sources and Uses. The revenue we deferred for the fiscal year ending 6/30/2019 was \$23,914.

Total deferred revenue to date for TWSA is \$149,030.31

Let me know any questions.

Diana Robb
Accountant
Incline Village General Improvement District
893 Southwood Boulevard, Incline Village, NV 89451
P: 775-832-1398
F: 775-832-1249
dcr@ivgid.org
<http://ivgid.org>



**INCLINE VILLAGE GENERAL IMPROVEMENT DISTRICT
STATEMENT OF OPERATING SOURCES AND USES**

TAHOE WATER SUPPLIERS ASSOCIATION

CURRENT YEAR TO BUDGET COMPARISON

For Period Ending 06/30/2019

GL Account Number	GL Account Description	Current Month Budget	Current Month Actual	Month Budget Variance	Current YTD Budget	Current YTD Actual	YTD Budget Variance	Total Budget	Remaining Budget
OPERATING SOURCES									
200-28-990-4417	Service & User Fees	0	-23,914	-23,914	145,000	121,861	-23,139	145,000	-23,139
	Sales and Fees	0	-23,914	-23,914	145,000	121,861	-23,139	145,000	-23,139
	TOTAL OPERATING SOURCES	0	-23,914	-23,914	145,000	121,861	-23,139	145,000	-23,139
OPERATING USES									
200-28-990-5010	Regular Earnings	3,325	4,379	-1,055	40,451	44,341	-3,890	40,451	-3,890
200-28-990-5020	Other Earnings	0	0	0	542	187	354	542	354
	Salaries and Wages	3,325	4,379	-1,055	40,992	44,528	-3,536	40,992	-3,536
200-28-990-5050	Taxes	254	297	-43	3,095	3,264	-169	3,095	-169
200-28-990-5100	Retirement Fringe Ben	509	619	-110	6,189	6,658	-469	6,189	-469
200-28-990-5200	Medical Fringe Ben	615	741	-126	7,480	7,893	-413	7,480	-413
200-28-990-5250	Dental Fringe Ben	46	68	-22	559	699	-141	559	-141
200-28-990-5300	Vision Fringe Ben	5	8	-3	64	84	-19	64	-19
200-28-990-5400	Life Ins Fringe Ben	4	3	0	44	39	5	44	5
200-28-990-5500	Disability Fringe Ben	16	18	-2	191	209	-18	191	-18
200-28-990-5600	Unemployment Fringe Ben	50	57	-7	606	615	-8	606	-8
200-28-990-5700	Work Comp Fringe Ben	83	97	-14	1,012	1,044	-33	1,012	-33
	Employee Fringe	1,582	1,908	-327	19,240	20,504	-1,265	19,240	-1,265
	Total Personnel Cost	4,906	6,288	-1,381	60,232	65,033	-4,801	60,232	-4,801
200-28-990-7010	Advertising - Paid	1,000	563	438	12,000	10,564	1,436	12,000	1,436
200-28-990-7330	Contractual Services	0	0	0	0	66	-66	0	-66
200-28-990-7405	Office Supplies	117	0	117	1,400	200	1,200	1,400	1,200
200-28-990-7415	Operating	1,567	607	960	18,800	28,325	-9,525	18,800	-9,525
200-28-990-7460	Postage	0	0	0	200	35	165	200	165
200-28-990-7470	Printing & Publishing	792	297	495	9,500	8,669	831	9,500	831
200-28-990-7680	Training & Education	0	172	-172	20,000	729	19,271	20,000	19,271
200-28-990-7685	Travel & Conferences	150	163	-13	2,500	1,449	1,051	2,500	1,051
	Services and Supplies	3,625	1,802	1,823	64,400	50,036	14,364	64,400	14,364
200-28-990-7840	Telephone	135	48	87	540	192	348	540	348
	Utilities	135	48	87	540	192	348	540	348
200-28-990-7980	Central Services Allocation Cs	550	550	0	6,600	6,600	0	6,600	0
	Central Services Cost	550	550	0	6,600	6,600	0	6,600	0
	TOTAL OPERATING USES	9,216	8,688	529	131,772	121,861	9,911	131,772	9,911
	OPERATING SOURCES(USES)	-9,216	-32,602	-23,386	13,228	0	-13,228	13,228	-13,228

SEPTEMBER 2019 CHAIRPERSON REPORT

- Attended the July Tahoe Keys Stakeholder Committee meeting
 - Debriefed on South Shore public workshop
 - Public comments for EIR Scoping closed August 2nd
 - Discussed using AmeriCorps divers
 - Discussed treatment methods for Algae blooms
 - TWSA mentioned looking at Sodium Carbonate Peroxyhydrate
 - Is on Lahontan's approved chemical list but would need to be included in Anti-degradation analysis
 - Question: What is TWSA Board's input? (EPA Fact Sheet attached)
- Attended the Lake Tahoe Summit at Valhalla on August 20th

Reference Materials for Board discussions Items G.1

Screening Criteria for CEQA Consultant as discussed during the 4/25/2019 TWSA AIS Subcommittee meeting. Document review of TWSA AIS subcommittee and Board Meeting Minutes to capture previously discussed screening criteria.

TWSA AIS Subcommittee Discussion Items

Wed. Aug 16, 2017, Incline Village GID Public Works

D. General Business:

4. Review of Draft TWSA comment letter to State Water Board
TWSA staff provided a draft comment letter to the CA State Water Boards request for comments on the Notice of Intent for the Tahoe Keys to use Herbicide under the CA General NPDES permit for residual pesticide discharges.

The AIS committee discussed items to be Included in the comment letter including

- Antidegradation
- Tier III ONRW Lake Tahoe
- Filtration Exemption/Restrictions
- Beneficial Uses of Water
- Notification of Downstream users
- TWSA will not be the communicator to All water purveyors within the basin
- Best Interest of the People of the State of California
- Trademark of Tahoe Tap and perceived degradation of water quality affecting our brand

TWSA Board Meeting TKPOA Discussions

Thursday, April 20, 2017, IVGID Public Works

G. General Business (for possible action/vote)

- b. Tahoe Water Suppliers Association Board Meeting Regarding TKPOA Proposed Pilot Project. Clarify TWSA Board Position on potential use of herbicides. Selection from below options or proposed modification.
 1. *Oppose the pilot project using aquatic herbicides in Lake Tahoe or any adjoining water body.*
 2. *TWSA cannot support the application of aquatic herbicides until all non-chemical methods have been fully vetted.*
 3. *TWSA cannot take a position (neutral) on the application of aquatic herbicides until all non-chemical methods have been fully vetted.*
 4. *Take no position (neutral) on the pilot project as long as appropriate mitigation measures are in place.*
 5. *Take no position (neutral) on the pilot project provided the containment barriers remain in place until there is no detection of applied chemicals.*
 6. *Support the pilot project provided the containment barriers remain in place until there is no detection of applied chemicals.*

Reference Materials for Board discussions Items G.1

TWSA Staff uses the fact sheet when giving comments at meetings, and representing the TWSA. Due to the lack of responses for comment, in combination with one on one meetings with members had with Sierra Ecosystem, are giving the impression that the TWSA is for the use of herbicide. Members of the TKPOA are telling their homeowners that we are pro-herbicide use. "Member agencies support the use of herbicides" is the message the TKPOA is giving about the TWSA.

Staff is looking for clarification.

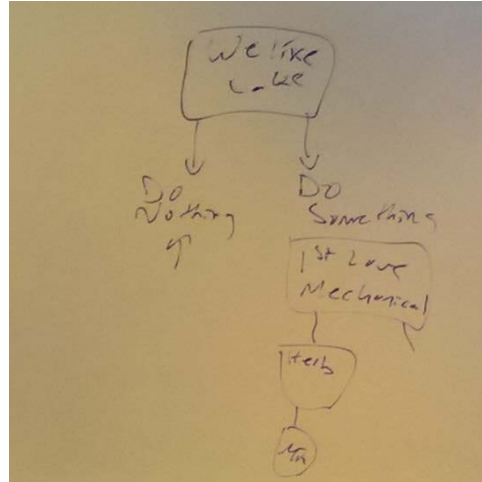
TWSA Staff and Subcommittee needs to know where this Board stands on the use of herbicides. Public comment on the submitted Exemption Application will be taking place in the fall.

Discussion:

- Built points are subject to language crafting.
- NTPUD will be going to their Board for an official stance. The goal is to craft these points for discussion at the June meeting.
- KGID is against the is opposed to the use of herbicides in the Tahoe Keys. Mechanical studies need to be completed prior to any change in stance by KGID. Once the study is completed, KGID may opt for a neutral stance provided all mitigations previously discussed are used, and inspections of these measures are facilitated on a regular basis. A standard language should be developed.
- STPUD - they are neutral.
- RHGID - Staff will be discussing the options with the RHGID Board, who have been against the use of herbicides in the past.
- Douglas County opposed to herbicides but would reconsider with a solid earthen cofferdam, which would allow a greater contact time and monitoring period. The cofferdam would stay in place for a minimum six-month period, to allow for monitoring effective weed eradication and chemical residual. The County still endorses any and all water quality treatment solutions and requires a full EIR.
- Do Boards need to even be involved? It is up to each agency to decide whether to do so.
- The application is still not available for the public; the document can be given when requested because it is a public document.
- "Member agencies support the use of herbicides" is the message the TKPOA is giving about the TWSA.
- The idea that member agencies are in support is fake news.
- TWSA represents a large group of elected officials; we have to be careful on the position we take.
- TWSA is not the regulatory authority, but we can comment, make suggestions, and be part of the process. Does the TWSA need to take a position, and provided comments about mitigation and vetting all non-chemical methods first?
- Comment to protect drinking water.
- The TWSA should be neutral and provide comments that toward our mission and are focused technically.
- The TKPOA is trying to improve the water quality of Tahoe, by improving the Tahoe Keys.

Reference Materials for Board discussions Items G.1

- See photo of flow chart, which allows the group to be included in the discussions and mitigations.



- There is a point being missed; the only reason the Key is bringing herbicides to the forefront is cost. If another method were cost effective, they would be for it.
- Herbicide application is not a one-time thing, it will be year after year, and they still are not fixing the problem.
- Everything else needs to be looked into before herbicides are used.
- The TWSA should continue not take an official position.
- All case studies with herbicides that are provided show the use of herbicides annually.
- We want non-chemical methods first; the TWSA is bringing non-chemical methods to the table.
- Fully vet all non-chemical methods.
- TWSA staff needs to be able to participate in all conversations.
- A vote is not necessary in June.
- What is our place?
- The TKPOA is trying to drive a stake in us to divide us and play us against each other.
- We know the TKPOA wants the TWSA to be neutral; it was the purpose of their presentation in December along with asking for funding.
- TKPOA will try to drive uncertainty, but they can do whatever they want.
- We need to have reaffirmation of or stance in June in order to be prepared for public comment.
- The League to Save Lake Tahoe is going to grant money to the TKPOA because they believe that something that drastic needs to be done.

Thursday, June 8, 2017, Sand Harbor Pavilion at Lake Tahoe Nevada State Park, Nevada

G. General Business (for possible action/vote)

- b. Clarify TWSA Board Position on potential use of herbicides.

Discussion/selection/modification from proposed potential options.

The Board discussed the six options provided, and the consensus is that the direction of the board remains with number two, as stated below.

“The TWSA cannot support the application of aquatic herbicides until all non-chemical methods have been fully vetted”.

Sodium Carbonate Peroxyhydrate (128860) Fact Sheet

Summary

Sodium Carbonate Peroxyhydrate is a granular chemical which is the active ingredient in certain algaecide and fungicide products. The end product containing this active ingredient acts as an oxidizing agent and thus kills the target algal and fungal pests. The product is used outdoors for treating ornamental plants, turf grasses, and terrestrial landscapes. It is used, as well, for treatments in commercial greenhouses, garden centers and plant nurseries, including their storage areas.

I. Description of the Active Ingredient

Sodium Carbonate Peroxyhydrate is a granular substance made by combining sodium carbonate and hydrogen peroxide. The following is its mode of action: When water is present, the compound breaks down into hydrogen peroxide and sodium carbonate. The hydrogen peroxide oxidizes and thus kills the target pests. After contact, the hydrogen peroxide breaks down harmlessly into water and oxygen. (CAS No. 15630-89-4)

II. Use Sites, Target Pests, and Application Methods

- **Use Sites:** Ornamental plants, turf grasses, terrestrial landscapes, in commercial greenhouses, garden centers, nurseries and storage areas. There are no food uses.
- **Target pests:** Examples include: Algae, moss, liver worts, slime molds and their spores.
- **Application Methods:** The granular product is applied by a lawn spreader or other application method that will ensure uniform coverage. For plants in small pots, spreading is done by hand. All applications must be made under wet conditions. For use on turf grasses, application is immediately followed by watering for 8-10 minutes by sprinkler irrigation to a depth of 1/8 to 1/10 of an inch.

III. Assessing Risks to Human Health

Tests with sodium carbonate peroxyhydrate show minimal to mild toxicity for oral and dermal exposure. Dermal irritation also occurred. There was severe irreversible eye damage. The substance is not considered a dermal sensitizer. Exposure to the general population would be minimal. Workers are required to wear appropriate protective equipment to protect themselves, especially their eyes, from exposure to this corrosive substance.

IV. Assessing Risks to the Environment

Reference Materials for Board discussions Items G.1

When the pesticide is applied in accordance with directions on the label, no harm is expected to birds, other terrestrial animals, freshwater fish, or freshwater invertebrates. In the case of non-target plants, no harm is foreseen if the label directions are followed. These directions recommend testing the plants on a small area for damage before proceeding with widespread application, and preventing the soil from becoming too alkaline. Precautionary statements are present on the label to prevent exposure to non-target insects, including honey bees.

V. Regulatory Information

Products which contain the new active ingredient are Technical Sodium Carbonate Peroxyhydrate and TerraCyte™, which were registered (licensed for sale) in September, 2002.

VI. Registrant Information

Technical Sodium Carbonate Peroxyhydrate: Solvay Interlox, Inc.,
3333 Richmond Avenue,
Houston, TX 77098

TerraCyte™ : BioSafe Systems,
36 Commerce Street,
Glastonberry, CT 06033

VII. Additional Contact Information

[Ombudsman, Biopesticides and Pollution Prevention Division](#) (7511P)
Office of Pesticide Programs
Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460

Micro plastics in drinking water CA legislation

https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=201720180SB1422

Senate Bill No. 1422
CHAPTER 902

An act to add Section 116376 to the Health and Safety Code, relating to drinking water.

[Approved by Governor September 28, 2018. Filed with Secretary of State September 28, 2018.]

LEGISLATIVE COUNSEL'S DIGEST

SB 1422, Portantino. California Safe Drinking Water Act: microplastics.

Existing law, the California Safe Drinking Water Act, requires the State Water Resources Control Board to administer provisions relating to the regulation of drinking water to protect public health, including, but not limited to, conducting research, studies, and demonstration programs relating to the provision of a dependable, safe supply of drinking water, enforcing the federal Safe Drinking Water Act, adopting implementing regulations, and conducting studies and investigations to assess the quality of water in private domestic water supplies. Under the act, the implementing regulations are required to include, but are not limited to, monitoring of contaminants and requirements for notifying the public of the quality of the water delivered to customers.

This bill would require the state board, on or before July 1, 2020, to adopt a definition of microplastics in drinking water, and on or before July 1, 2021, to adopt a standard methodology to be used in the testing of drinking water for microplastics and requirements for 4 years of testing and reporting of microplastics in drinking water, including public disclosure of those results.

Bill Text

THE PEOPLE OF THE STATE OF CALIFORNIA DO ENACT AS FOLLOWS:

SECTION 1.

Section 116376 is added to the Health and Safety Code, to read:

116376.

- (a) The state board, on or before July 1, 2020, shall adopt a definition of microplastics in drinking water.
- (b) The state board, on or before July 1, 2021, shall do all of the following:
 - (1) Adopt a standard methodology to be used in the testing of drinking water for microplastics.
 - (2) Adopt requirements for four years of testing and reporting of microplastics in drinking water, including public disclosure of those results.
 - (3) If appropriate, consider issuing a notification level or other guidance to aid consumer interpretations of the results of the testing required pursuant to this section.

Reference Materials for Board discussions Items G.2

(4) Accredite qualified laboratories in California to analyze microplastics.

(c) The state board may implement this section through the adoption of a policy handbook that is not subject to the requirements of Chapter 3.5 (commencing with Section 11340) of Part 1 of Division 3 of Title 2 of the Government Code.

Pending additional information for
TERC request for microplastics sampling
equipment \$5,500

Quotation

July 9, 2019

From:

Environmental Analytical Systems
 286 Mask Island Drive, Barry's Bay, ON. K0J 1B0
 Telephone 613 756 0101
 Telefax 613 756 0909
 E-Mail info@enviro-analytical.com

To: Katie Senft

UC Davis
 Tahoe Environmental Research Center
 291 Country Club Drive
 Incline Village 89451 USA
 775 815 6605
kjsenft@ucdavis.edu

ITEM	QTY	DESCRIPTION	Unit Price	Total
1	1	438 217 Microplastic Net 'Manta' with aluminium frame and integrated lifting bodies (60cm length each) Mouth opening 30x15cm, length of netbag 200cm, Meshsize 300 µm (or to be specified),soft net bucket with boltrope and fixing ring	\$ 3,512.00ea	\$ 3,512.00
2	1	438 217-001 Net Part for Microplastic Net 'Manta' , mesh size 300 microns (or to be specified) 30 x 15 x 200 cm	\$ 920.00ea	\$ 920.00
3	1	438 930 Soft Net Bucket with Boltrope diameter= 11cm, length= 25cm, mesh size 300 µm	\$ 265.00ea	\$ 265.00
4	1	438 110 Mechanical Flow Meter	\$ 685.00ea	\$ 685.00

Notes:

Samples can be pulled in deep water monthly transect runs already occurring.
 Sample analysis is available through other partner resources.

6	1	Shipping and handling to Incline Village 89451 USA	\$ 100.00/\$	\$ 100.00/\$
---	---	--	--------------	--------------

All prices are in USA dollars

**Sampling Equipment
 \$5,500 Request**

Notes: This quotation is valid for 30 days, USA Import Duty will be your responsibility
 Terms, Visa or Master Card
 Delivery is approx. Stock to 8 weeks ARO. All instruments are warranted for one year parts and labour.

Prepared By *Nigel Newing*
 Nigel Newing Instrumentation Specialist



Microplastic Sampling

Plastic debris in the environment
- a problem which is drawing more and more attention.

One reason for this is that plastic will never really biologically degrade and disappear from our environment but become so called Microplastic. Microplastics are small particles ranging from $1\mu\text{m}$ to 5mm . Tons of those particles get into our natural waters and end up in our oceans. Up to now it is not yet fully understood what physical and chemical impacts microplastic is having on any kind of living organisms.

Hydro-Bios offers different nets for microplastic sampling and a tool to separate microplastic particles from sediment samples. This is based on the density separation method.



FEATURES:

Several floating devices for different applications:

- Manta wings or lifting bodies for shallow and calm waters
- Katamaran for heavy seas and high speed trawling (up to 8 knots)
- Large variety of mesh sizes
- Light weight but robust soft net buckets
- Microplastic Net 'Manta' can be equipped with a Flow Meter





Nets for Microplastic Sampling

Different nets adapted to various environmental conditions



An important step in microplastic research is sampling – getting the particles out of the waters in order to quantify and examine them.

We offer three kinds of nets designed to sample a layer of approx. 10-20 cm (depending on the net model) at the water surface. This is the region where most of the low density micro debris accumulates.

The main difference between the nets is the way they are made to float on the water. The right model should be chosen according to the environmental conditions it should be used in and the available infrastructure.



ABOUT US

WATER
SAMPLERS

PLANKTON
NETS

SEDIMENT
TRAPS

BOTTOM
SAMPLERS

MEASURING
INSTRUMENTS

PLANKTON
EXAMINATION

MISCELLANEOUS
INSTRUMENTS



319(h) Grant Proposal E-Form

Refer to 319(h) 2019 Grant Funding Opportunity

<https://ndep.nv.gov/water/rivers-streams-lakes/nonpoint-source-pollution-management-program/cwa-319h-grants>

Submission Deadline: 5:00 PM, August 23, 2019

WQP Email Received, Stamped Received OR Postmarked

ENTER F1 FOR **FILL FIELD** HELP.

REFERENCE THE E-FORM INSTRUCTIONS FOR ADDITIONAL GUIDANCE.

1. PROPOSAL SUMMARY

Project Title: Pilot Project to Reduce Sourcewater Plastic Pollution at Lake Tahoe
--

Primary Contact Person: Madonna Dunbar
--

Lead Agency Organization: Incline Village GID/Tahoe Water Suppliers Association

Organization DUNS Number: 04-048-6375
--

Contact Person's Email Address: madonna_dunbar@ivgid.org	
Contact Person's Mailing Address: 1220 Sweetwater Road	
City	Incline Village
State	NV
Zip	89451
Contact Person's Phone:	
Land Line	775-832-1212
Mobile	775-354-5086
Fax	

Project Fiscal Summary:

319(h) funds requested _____ \$61,995
 Total amount of non-federal match funds _____ \$78,200
 (Cash + Inkind: Must be at least 50% of Total Project Cost.)
 Total Project Cost _____ \$140,195



Birgit Widegren, Branch Supervisor
 Jason Kuchnicki, Lake Tahoe Watershed Unit Supervisor
 Jon Paul Kiel
 Mark McDaniel
 Jean Stone
 Patricia Tierney

Applicant is one of the following:

- Federal, State, local, tribal Government
 Interstate, Intrastate public agency
 Public nonprofit organization
 Private nonprofit organization
 Educational Institution

Project Type: Nonpoint Source Pollution Education / Outreach

Has a 319(h) Pre-Application Determination of Eligibility been provided by Water Quality Planning, and determined Eligible?

- Yes
 No

Project Location Information:

Watershed(s) Name: Lake Tahoe

1st County: Washoe Other Counties Douglas Statewide

Nevada 8-Digit Hydrologic Unit Code(s) & Catalog Name(s):

HUC List 1 of 3 16050101 Lake Tahoe HUC List 3 of 3

HUC List 1 of 3 16050102 Truckee HUC List 3 of 3

HUC List 1 of 3 HUC List 2 of 3 HUC List 3 of 3

Additional HUCs

HUC(s) Unknown

USGS Hydrographic Region (Check all that apply)

- Carson River
 Colorado River/Las Vegas Wash
 Humboldt River
 Lake Tahoe
 Truckee River
 Walker River
 Other

Latitude:

Longitude:

Type and Name of Waterbody(ies) Affected:

Waterbody Type: Lakes Waterbody Name: Lake Tahoe

Waterbody Type: Rivers/Streams Waterbody Name: Truckee River

Waterbody Type: Streams Waterbody Name: 63 streams that flow into Lake Tahoe

(If applicable, submit a map of the project area in a portable document format, attached as a separate file to this proposal.)

Project Summary (150 word limit). State the non-point water quality problems to be addressed, the project's goals and objectives, provide a project overview, and describe the methods proposed to address the problem:

Project Objectives: This education and outreach project will raise the level of public awareness about NPS pollution and its effect on water quality by specifically addressing the emerging issue of microplastic pollution and sourcewater protection at Lake Tahoe.

Project Overview: The project includes education and public outreach to achieve a behavior change in the region with the goal of raising awareness of plastic pollution, increasing public understanding of the different types of plastics and the impacts of their consumer choices, reducing the use of single-use plastic, and thereby reducing the presence of plastic in Lake Tahoe's waters and beaches.

Project Methods: This project will include a Microplastic Reduction Outreach Campaign, Sourcewater Protection Exhibit Development, Curriculum and Education Program for Reducing Microplastics in Sourcewater, Envirolution/Green Team Training, Pilot Program to Reduce Single-use Plastic, Shopper Surveys and Outreach, and use and promotion of the Tap App and Water-Filling Stations.

NPS Categories of Pollution:	Other NPS Pollution	100%	<i>TOTAL PERCENT MUST = 100</i>
	--	--%	
	--	--%	
	--	--%	

Estimated Pollutant Reductions:

<input type="checkbox"/>	Phosphorus	lbs/yr	
<input type="checkbox"/>	Sediment	Tons/yr	
<input type="checkbox"/>	Nitrogen	lbs/yr	
<input checked="" type="checkbox"/>	Other	lbs/yr	Other Pollutant Description: plastic litter

(macro and micro)

Describe how pollutant load reduction estimates were calculated:

STEPL Model Region 5 Model Other

Project Timeline:

Anticipated Project Start Date: 1/1/2020
 Anticipated Project Completion Date: 12/31/2021

Project Partners: Provide information (Including primary contact information) for any partners involved with the project. Attach Letters of Support and/or Commitment separately.

UC Davis Tahoe Environmental Research Center, Heather Segale, Education and Outreach Director, 775-881-7562, hmsegale@ucdavis.edu
 Sierra Watershed Education Partnerships, Missy Mohler, Executive Director, 530-583-1430, missy@4swep.org
 Incline High School, Joel Kivo, Science Teacher and Department Leader, Jkivo@washoeschools.net

2. SCOPE OF WORK (WORKPLAN)

Introduction and Problem Statement.

As a protected freshwater body, Lake Tahoe should be immune to, or at least safeguarded from, the issue of microplastic pollution. Unlike the ocean and many other freshwater bodies, wastewater does not enter Lake Tahoe. There is no commercial fishing or plastic resin shipping operations like those that contribute significantly to marine plastic pollution. Despite this, the presence of microplastics in the lake is confirmed. Recent research has shown that microplastics were present at every beach tested around the lake. This has led to the conclusion that the source of the microplastic in Lake Tahoe is primarily litter, likely from single-use items that are improperly disposed of in and around the lake.

Though by no means an easy problem to solve, these results show us a direct way to address the issue. As trash is the source of plastic pollution in our lake, the solution requires creating a behavior change in the surrounding population. We aim to bring about this behavior change through a multidimensional approach focused on research, awareness, education, and local business partnerships. Lake Tahoe supplies local communities with tap water that requires minimal treatment (surface water systems operate under an exemption to filtration or “non-filtration permit”) and that water must be protected and free of contaminants such as microplastic. We can and must reduce the input of our plastic litter into the lake. (Additionally, the Lake Tahoe TMDL guides efforts to restore Lake Tahoe clarity and the reduction of microplastics could even play a role.)

Name of applicable Watershed Plan and/or TMDL: N/A
 Watershed Plan: -- TMDL: Lake Tahoe Basin
 Other:

Goals:

This project is designed to address the issue of microplastic pollution in Lake Tahoe. The objectives of this project are to raise awareness of NPS plastic pollution, increase public understanding of the different types of plastics and the impacts of our consumer choices, reduce the use of single-use plastic, and thereby reduce the presence of plastic in Lake Tahoe's waters and beaches.

Public Awareness Campaign: The Tahoe Water Suppliers Association has been running a successful campaign promoting tap water, called Drink Tahoe Tap®. We will partner with the Drink Tahoe Tap® campaign as part of this project, which will include increasing the available water filling stations in public areas. Our organization is a member of Take Care Tahoe (www.TakeCareTahoe.org), which is a coalition of organizations concerned with promoting stewardship around the lake. The Take Care Tahoe campaign involves several messages that promote specific stewardship actions. As part of this project, we plan to develop new messages and graphics focused on microplastics to increase public awareness of the issue.

- Create Drink Tahoe Tap ® / Take Care Tahoe stewardship messaging that creates awareness on the topic of microplastics
- Create Drink Tahoe Tap ® / Take Care Tahoe stewardship messaging that teaches visitors that tap water from Lake Tahoe communities is safe, delicious, award-winning and contains less plastic than single-use bottled water
- Promote the new Take Care Tahoe messaging through the Take Care Tahoe website and social media campaigns

Exhibit Development: UC Davis developed and maintains the public Tahoe Science Center. This facility enables the communication of research conducted at TERC to local community members, school groups, and tourists. As part of this project, we will develop microplastics exhibits and educational materials informed by our research. This exhibit and lesson topics will include: Sources of Plastic at Lake Tahoe, From Macro to Micro: How Plastics Break Down, Quantifying Microplastics, and Where Do Microplastics End Up Around the Lake? This project will also produce similar traveling exhibits for use at events around the lake and locations including visitor centers, trailheads, and public beaches.

- Create exhibits around the different types of plastic and their impacts
- Showcase exhibits in the Tahoe Science Center
- Showcase exhibits at multiple outreach events held throughout the year (Earth Day, Science Expo, Family Science Day, etc.)

Education Programs: We will also partner with the local school-based "Envirolution", "Green Teams", and "Eco-Action Teams" operated by the Sierra Watershed Education Partnerships to get local students conducting outreach to local businesses and survey shoppers about their single-use plastic water bottle purchases. Students, residents, and visitors can also use the new Citizen Science Tahoe mobile app to track plastic litter found on trails, beaches, and in the lake.

Tasks: (If additional space is required to adequately describe the proposed project tasks, check below under Item 8 – Supplemental Information. Up to three additional pages of tasks may be included and attached separately.

- Create curriculum and education programs to teach local students about NPS plastic pollution
- Partner with Incline High School AP Environmental Science class and Sustainability Club to form an "Eco-Action Team" at IHS
- Partner with SWEP's "Envirolution Club" and "Green Teams"
- Work with students to conduct outreach to local stores
- Students conduct shopper surveys to determine why individuals are choosing single-use plastics and to promote alternatives
- Students and community members conduct citizen science reporting of litter using the Citizen Science Tahoe app
- Students work with local businesses to reduce the consumption and purchase of single-use plastics in our community

Local Business Partnerships: Local businesses play a key role in the products made available throughout the community. These products have the potential to enter the surrounding environment, in addition to having a significant environmental impact throughout their entire life cycle. We will partner with local grocery stores to replace a certain amount of bottled water on the shelves with refillable water bottles. There will also be signage to educate the consumer on their decision at the point of purchase.

- Work with local grocery stores to promote reusable water bottle sales and water filling stations
- Install signage at the point of sale in stores providing recommended alternative to single-use plastic water bottles
- Promote the "Tap App" including adding new water filling stations around the community (40 filling stations funded by TWSA/Tahoe Fund grant project)
- Change behaviors and reduce the use of plastic
- Through the sale of reusable water bottles, raise funds in support of future educational programs and research on microplastics

See also attached LOGIC Model.

3. PROJECT EVALUATION

Measures of Success:

The following metrics will be used to measure the success of this project:

2 new education/outreach NPS awareness campaign designs developed
4,000 campaign signed metal water bottles purchased and distributed
1 NPS/Plastic Pollution exhibit (4 components) developed for Tahoe Science Center and outreach events
4 outreach events attended annually
Curriculum for 4 in-classroom presentations/field trips
4 in-classroom presentations/field trips
4 afterschool presentations/field trips
Completed business plan to take to grocery store managers
10 students each year communicate with a minimum of 2 store managers in the Tahoe Basin for a total of 40 stores
Minimum of 10 locations around the Tahoe Basin with signs and reusable water bottles available for customers
10 students each conduct a minimum of 10 hours of outreach
Interaction with a minimum of 4 shoppers/hour x 10 hours x 10 students = 400 interactions
Double the number of sites listed on the Tap App within the Tahoe Basin

Monitoring and Maintenance Program:

We will evaluate our work through a number of indicators to monitor progress made towards our goals and indicate the success of our efforts. As the goal of our project is to bring about a behavior change, the metrics were chosen to indicate the level of reduction in the previous, undesirable behavior (purchase of single-use plastic water bottles).

We will conduct formative evaluation and summative evaluation of the project using pre-then-post assessment instruments with the students, science center visitors, and shoppers. Surveys will include pre- and post-education comprehension and likelihood of behavior change questions, with follow-up surveys conducted three months after completion of the program to substantiate retention and behavior change.

We have made the project two years so that we can repeat the successes from Year 1 and improve upon the program with an changes that could bring about even greater impacts.

4. PROJECT SCHEDULE

Include key dates for completion of major tasks to be accomplished and submittal of associated deliverables:

Jan-March 2020: Campaigns developed

Jan-March 2020: Curriculum outlined developed

April-June 2020: Year 1 classroom and afterschool presentations

May-June 2020: Student outreach to local grocery store managers

April-August 2020: Exhibits developed and hosted at various outreach events

July-August 2020: Students conduct shopper surveys and outreach at local grocery stores

October 2020: Year 1 Report Submitted

April-June 2021: Year 2 classroom and afterschool presentations

May-June 2021: Student outreach to local grocery store managers

April-August 2021: Exhibits hosted at various outreach events in the region

July- August 2021: Students conduct shopper surveys and outreach at local grocery stores

October-November 2021: Year 2 Report Submitted; Draft Final; Final Report

5. CONTINGENCY PLAN

Describe alternative actions to be taken if the project cannot be completed as originally proposed:

If full funding is not possible, portions of the project could still be completed, but on a smaller scale.

6. PROJECT BUDGET DETAIL

Table A: Project Costs by Budget Category:

Category	Rate	319(h) Funds	Cash Match	Inkind Match	Total Budget
Salaries	Hourly				
Madonna Dunbar	\$39.00	\$	\$	\$6,240.00	\$6,240.00
IVGID Other	\$27.50 average	\$	\$	\$5,500.00	\$5,500.00
Heather Segale	\$46.00	\$	\$	\$7,360.00	\$7,374.40
TERC Other + SWEPE ED	\$26.67 average	\$	\$	\$6,400.00	\$6,304.80
Fringe Benefits	40% of Salaries				
Fringe Benefits for salaried employees		\$	\$	\$10,200.00	\$10,167.68
Operating	Actual Cost				
Campaign Development		\$10,000.00	\$	\$	\$
Bottles/Exhibit/Signs/student stipends		\$19,000.00	\$10,000.00	\$	\$
Tap App/fill stations		\$	\$20,000.00	\$	\$59,000.00
Travel	State Rate				
		\$	\$	\$	\$0
IDC	5% of TDC				
		\$1,450.00	\$	\$	\$1,450.00
Equipment	Actual Cost				
		\$	\$	\$	\$
		\$	\$	\$	\$
		\$	\$	\$	\$
Subcontract	Actual Cost				
AmeriCorps Members (SNAP)		\$17,375.00	\$12,500.00	\$	\$29,875
Exhibit Evaluator		\$4,170.00	\$	\$	\$4,170
Sierra Watershed Education Partnership		\$10,000.00	\$	\$	\$10,000
Totals:		\$61,995	\$42,500	\$35,700	\$140,195

Table B: Total* Project Costs by Task

*319(h) Funds + Cash Match + Inkind Match

Project Task	Budget Category								
	Salaries	Fringe Benefits	Operating	Travel	IDC	Equipment	Subcontract	Other	
A. Grant Administration: Reporting, Invoicing, Preparation of Final Project Report	\$6,240	\$2,496	\$	\$	\$	\$	\$	\$	
B. Microplastic Reduction Campaign	\$2,900	\$1,160	\$30,000	\$	\$	\$	\$	\$	
C. Sourcewater Protection Exhibits	\$2,600	\$1,040	\$5,000	\$	\$	\$	\$4,170	\$	
D. Curriculum and Education Program	\$7,360	\$2,944	\$	\$	\$	\$	\$12,500	\$	
E. Envirolution/GreenTeam(SWEP)	\$	\$	\$	\$	\$	\$	\$10,000	\$	
F. Pilot Program to Reduce Single Use Plastics	\$2,000	\$800	\$2,000	\$	\$	\$	\$17,375	\$	
G. Shopper Surveys and Outreach	\$2,000	\$800	\$2,000	\$	\$	\$	\$	\$	
H. Tap App and Water Filling Stations	\$2,400	\$960	\$20,000	\$	\$	\$	\$	\$	
I.	\$	\$	\$	\$	\$1,450	\$	\$	\$	
J.	\$	\$	\$	\$	\$	\$	\$	\$	
Total Cost by Category:	\$25,500	\$10,200	\$59,000	\$0	\$1,450	\$0	\$44,045	\$0	
Total Project Cost:							\$140,195		

Explain "Other" Budget Category: [Click here to enter text.](#)

7. REFERENCE DOCUMENTS AND CITATIONS

Bjorkland, Ronald, and Catherine M. Pringle. "Educating Our Communities and Ourselves about Conservation of Aquatic Resources through Environmental Outreach." *BioScience*, vol. 51, no. 4, 1 Apr. 2001, pp. 279–282, doi:10.1641/0006-3568.

Cox, Kieran D., et al. "Human Consumption of Microplastics." *Environmental Science & Technology*, vol. 53, no. 12, 2019, pp. 7068–7074., doi:10.1021/acs.est.9b01517.

Eriksen, Marcus, Sherri Mason, Stiv Wilson, Carolyn Box, Ann Zellers, William Edwards, Hannah Farley, and Stephen Amato. "Microplastic pollution in the surface waters of the Laurentian Great Lakes." *Marine pollution bulletin* 77, no. 1-2 (2013): 177-182.

8. SUPPLEMENTAL INFORMATION

Submit electronically the following documents in Microsoft Word and/or Excel format or portable document format. Check those that apply and which will be submitted concurrently with this proposal. Items in **bold** are required to be submitted:

- Project Location Map**
- Project Partner(s) Letters of Support
- Project Partner(s) Letters of Commitment (To provide inkind or cash match)
- Negotiated Indirect Cost Rate Documentation
- Project Tasks, Additional Detail (3 pages maximum, 8.5" x 11", 10 pt font minimum)
- Project Budget Detail (Excel Format)

For Agency Use (BWQP) Only:

Received by: JK

Reviewed by:--

Date Received: Click or tap to enter a date.

Determination of Eligibility:

- Eligible
- Ineligible

Additional information required to make determination:

- Yes
- No

Request for Additional Information, Date: Click or tap to enter a date.

Notice of Determination, Date: Click or tap to enter a date.

Notes:

Discussion Item G.2.d - Informational materials

What would need to happen to have a local reer package Tahoe Tap in a recyclable can as an alternative to plastic packages that are an alternative and sensitive environmental products

1. TWSA Board buy-in to license the trademark DRINK TAHOE TAP®
2. Brand licensing to be negotiated
3. Nevada State (and/or) Washoe County permit/license required; w facilities inspection
4. Packaging and messaging options
5. Sales analysis and marketing
6. Mou
7. Alibi production needs

Nevada Bottled Water Program General Information

http://dpbh.nv.gov/Reg/BH20/Bottled_Water_Home

All persons intending to sell bulk or bottled water in Nevada must obtain a permit from the Division of Public and Behavioral Health, Environmental Health Section. Water sources originating or being bottled in Nevada requires a State permit. Water sources originating or being bottled from outside of Nevada must also receive an out of state permit. This is to verify that the bottled water is from an approved source which is properly protected, labeled, tested for contaminants and inspected to verify that it is bottled in a sanitary manner.

The Bottled Water Program is designed to protect and promote the health and safety of the people of Nevada by ensuring that water bottlers adhere to quality, standards of identity, and manufacturing practice standards set by the Food and Drug Administration and Nevada Administrative Code 445A.

Defining "Bottled Water"

Under FDA labeling rules, bottled water includes products labeled:

- Bottled Water
- Drinking Water
- Artesian Water
- Mineral Water
- Sparkling Water
- Purified Water
 - Distilled
 - Demineralized
 - Deionized
 - Reverse Osmosis Water
- Waters with added carbonation, soda water (or club soda), tonic water and seltzer historically are regulated by FDA as soft drinks.

Regulatory Standards

- Quality Standards: include the annual chemical analysis to determine what, if any, contaminants are in the water.
- Good Manufacturing Practices: govern such areas as plant and ground maintenance, sanitary maintenance of the building, fixtures and plumbing.

- Standards of Identity: (Labeling Regulations) established standard definitions of terms found on bottled water labels.

Federal Regulatory CFR - Code of Federal Regulations Title 21

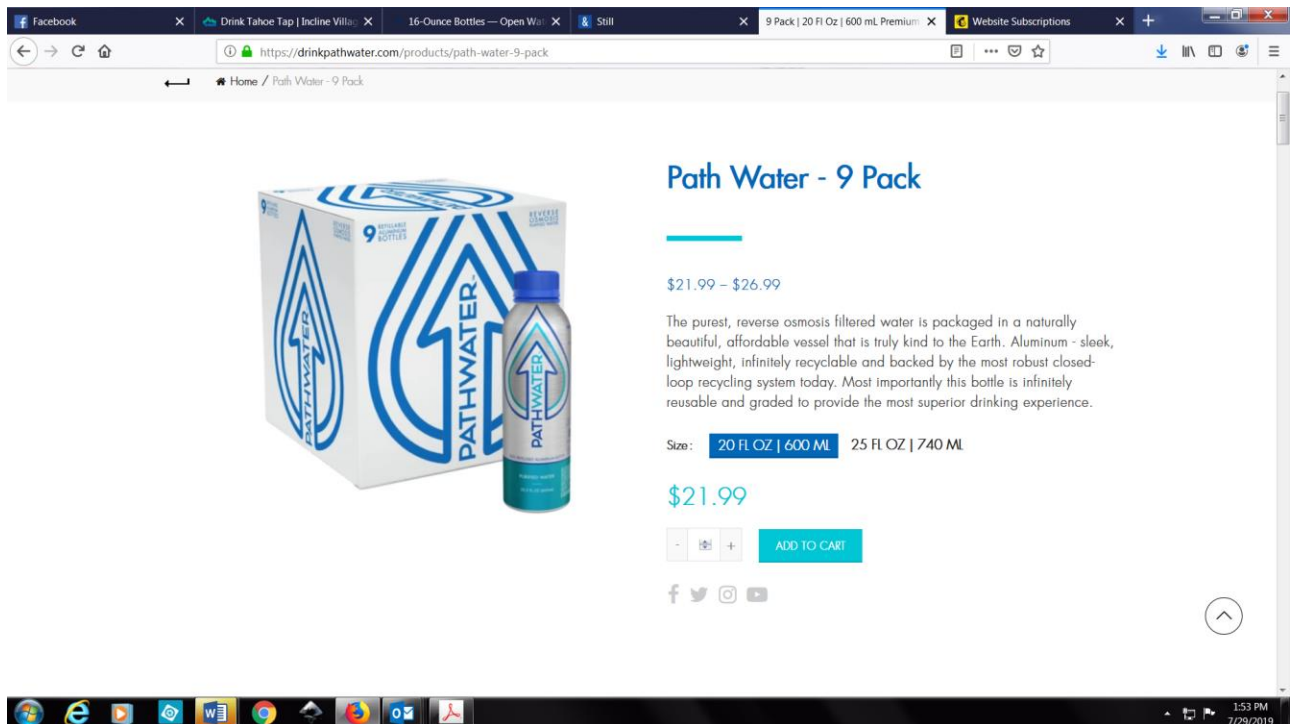
<https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfCFR/CFRSearch.cfm?CFRPart=129>

(iv) The finished bottled water must comply with bottled water quality standards (165.110(b) of this chapter) and section 402(a)(1) and (a)(3) of the Federal Food, Drug, and Cosmetic Act dealing with adulterated foods.

This potential product may have a *Source water testing exemptions*. (i) Firms that use a public water system for source water may substitute public water system testing results, or certificates showing full compliance with all provisions of EPA National Primary and Secondary Drinking Water Regulations pertaining to chemical contaminants (40 CFR parts 141 and 143), for the testing requirements of 129.35(a)(3).

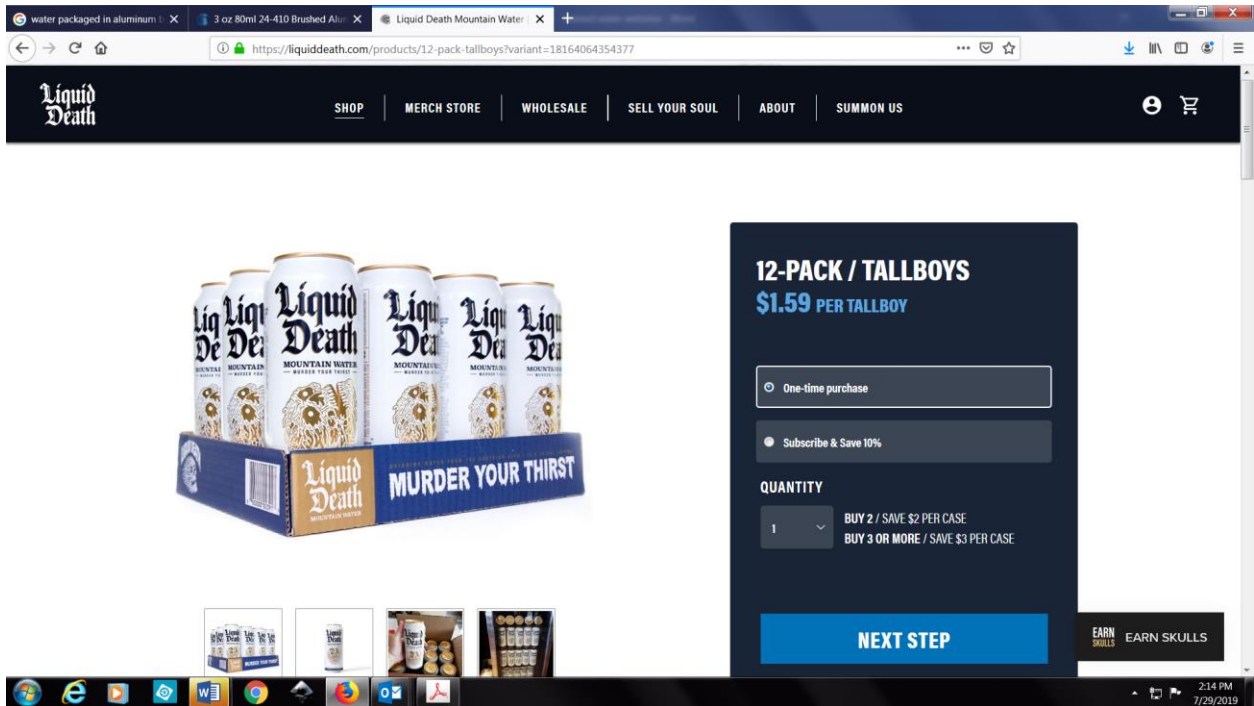
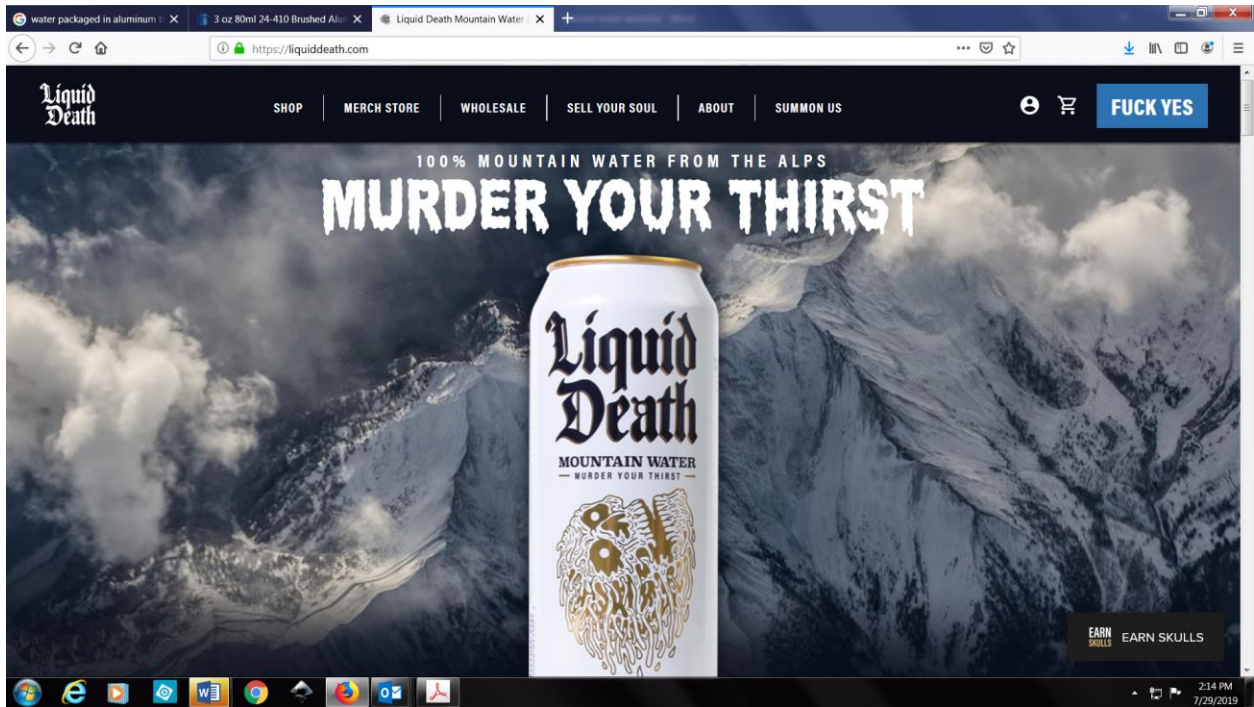
Waters Currently Available in aluminum containers

<https://drinkpathwater.com/> designed to be refilled aluminum bottle




The screenshot shows a web browser window displaying the Path Water website. The browser's address bar shows the URL <https://drinkpathwater.com/products/path-water-9-pack>. The page content includes a product image of a white cardboard box labeled '9 REFILLABLE BOTTLES' and 'PATHWATER', with a single aluminum bottle in front of it. To the right of the image, the product is titled 'Path Water - 9 Pack' with a price range of '\$21.99 - \$26.99'. Below the price, a descriptive paragraph states: 'The purest, reverse osmosis filtered water is packaged in a naturally beautiful, affordable vessel that is truly kind to the Earth. Aluminum - sleek, lightweight, infinitely recyclable and backed by the most robust closed-loop recycling system today. Most importantly this bottle is infinitely reusable and graded to provide the most superior drinking experience.' Underneath, there are two size options: '20 FL OZ | 600 ML' (selected) and '25 FL OZ | 740 ML'. The current price '\$21.99' is displayed in large blue text. At the bottom of the product section, there is a quantity selector (set to 1) and a blue 'ADD TO CART' button. Social media icons for Facebook, Twitter, and Instagram are visible below the button. The browser's taskbar at the bottom shows various application icons and the system clock indicating 1:53 PM on 7/29/2019.

<https://liquiddeath.com/>



<https://drinkopenwater.com/16ounce-bottles>

Choose Cans Instead or [Subscribe to Save 10%](#)



Open Water - Bottles

\$27.00

1 Case Sparkling Water (12 bottles)


1 [Add to Cart](#)

Use the Dropdown to Save on 2 or 4 Cases!

<https://drinkopenwater.com/16ounce-bottles> is the healthy, eco-friendly way to stay throughout your daily adventures. Made from high quality, shatter-resistant aluminum, with a recloseable screw cap, our still and sparkling waters are perfectly designed to fit into your gym bag, your cup holder, and your day.

Taskbar: 1:55 PM 7/29/2019

Choose Bottles Instead or [Subscribe and Save 10%](#)



Open Water - Cans

1 Case Still (12 cans)

\$20.00

1 Case Still (12 cans)

1 [Add to Cart](#)

Use the Dropdown to Save on 2 or 4 Cases!

Canned Water! You know what they say...Great things come in small packages. Well, now our deliciously fresh still water is available in a compact little can that's easy to throw in a backpack, cooler, or lunchbox. All of the sustainability, with a much smaller price tag.

Made and adventure-tested right here in the U.S.

Taskbar: 1:56 PM 7/29/2019

<https://drinkeverandever.com>

https://shop.brownells.com/emergency-survival-gear/water-amp-hydration/water-storage/blue-can-water-24-pack-sku100016208-72110-155010.aspx?cm_mmc=PPC_-_ltwine_-_Google_-_100-016-208&gclid=Cj0KQjwsrpbRCsARIsAKBR_OK8qyXHMI4zDwaWE43Lmlcad-TjuoN7JPVVkF-za0k7EZKZF4zSHikaAgZ8EALw_wcB

<https://kopuwater.com/product/kopu-sparkling-water/>

HOME OUR WATER SUSTAINABILITY OUR PHILOSOPHY NEWS SHOP CONNECT

KOPU SPARKLING WATER

KOPU luxury sparkling water is bottled at source in the Bay of Plenty, New Zealand, and is packaged within sleek, beautiful and resealable aluminum bottles. Our bottles provide unmatched sustainability. 75% of all aluminum that has ever been created is still in use today (whereas over two-thirds of plastic and glass bottles are not recycled).

12 OZ (24 pack) - \$49.99/case
23 OZ (12 pack) - \$34.99/case

Free shipping

Size

[Subscribe and get 10% off. Details](#)

Notes:

<https://www.foxbusiness.com/features/pepsicos-aquafina-water-aluminum-cans>

[PepsiCo](#) is hoping the switch from plastic to aluminum packaging for their purified water will help save the planet. The company announced Thursday it will begin selling Aquafina's purified still water in aluminum cans at U.S. foodservice outlets starting next year while conducting a test for broader distribution

One of the benefits of switching from plastic to aluminum is that people are more likely to recycle cans, [Bloomberg](#) reported. About 67 percent of aluminum cans are recycled in the world, while about 91 percent of plastic goes to waste. Peter Gleick, Pacific Institute's co-founder, told Bloomberg that aluminum cans only makes a marginal difference when it comes to helping the environment.

“Whether it’s water in bottles that are especially biodegradable, or water in cans, it’s something that’s a little better than plastic but shouldn’t be done at all,” Gleick said. “Canned water is a marginal improvement over bottled water.”




**APPLICATION FOR AUTHORIZATION
TO USE STATE-OWNED SUBMERGED LANDS AT LAKE TAHOE**

REQUIRED APPLICATION FEES	
As per NRS 322.110	
<u>NEW APPLICATIONS</u>	<u>AMENDMENTS *</u>
<input type="checkbox"/> \$200 Commercial Uses	<input type="checkbox"/> \$100 Commercial Uses
<input type="checkbox"/> \$150 Agricultural Uses	<input type="checkbox"/> \$75 Agricultural Uses
<input type="checkbox"/> \$100 All Other Uses	<input type="checkbox"/> \$50 All Other Uses
<input type="checkbox"/> \$10 Recreational Dredging	

Notes:

1. The required application fee is for filing purposes only.
2. * Includes amendments to:
 - Pending Applications
 - Existing authorized uses

1.	Application Number: (Assigned by Division) P6538	2.	Date:	8/23/2019
3.	Name of Applicant: (Filed on behalf of) WINERAM Productions LLC & Clean Up The Cayes			
4.	Contact Information (Designated Representative)			
	Name:	Colin West		
	Mailing Address:	3008 Sterling Ridge Circle Sparks, NV 89431		
	Telephone Number:	5305627131		
	Fax Number:			
	Email Address:	colinwest@wineram.com		
	Billing Information (If different from above)			
	Name:	N/A		
	Mailing Address:			
	Telephone Number:			
	Fax Number:			
	Email Address:			
5.	Location of proposed use:			
	Assessor's Parcel Number(s):	Entire Nevada Shoreline of Lake Tahoe.		
	Physical Address:			
	City:			
	County:			

12.	Is this application for a recreational purpose?
	<input type="checkbox"/> Yes <i>(If "Yes," attach required statement as described below)</i>
	<input checked="" type="checkbox"/> No
	<p>Pursuant to NRS 322.1003, an applicant for a permit, license or other authorization to use state land or state facilities for a recreational purpose shall, if the permit, license or other authorization does no expire less than six (6) months after it is issued, submit to the State Land Registrar the statement prescribed by the Welfare Division of the Department of Human Resources pursuant to NRS 425.520. The statement must be completed and signed by the applicant. The statement must be attached to this application</p>
13.	<p>Applicant acknowledges and certifies that:</p> <ol style="list-style-type: none"> 1. This application is hereby made for a permit or permits to authorize the activities described herein. 2. I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete and accurate. 3. I possess the authority to undertake the proposed activity. 4. I understand that annual fees may be assessed for the authorized use of state land and I will be responsible for payment of those fees on or before the due date. 5. I understand that maintaining liability insurance coverage that names the State of Nevada as additionally insured for the entire term of the authorization is required. 6. I agree to indemnify, defend, and hold harmless the State of Nevada and its agents from and against any and all liability, damages, losses, debts, obligations, judgments, expenses or actions, including reasonable attorneys' fees, for personal injuries, property damage or for loss of life or property resulting from, or in any way connected with the condition or use of the premises covered herein, including any hazard, deficiency, defect or other matter, known or unknown, arising out of or in any way connected with the projects and related activities. This does not include the State of Nevada's right to participate in its own defence in any litigation that may arise from this authorized use. 7. I understand and accept that, if I am applying for a Buoy, Pier, or other navigable waters Permit, additional terms and conditions will be required by the State of Nevada as part of the permit or permits for which I am applying and agree to those terms and conditions. (Appendix A discloses <u>Standard Permit Conditions</u>)
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 45%;"> <p>WINERAM Productions LLC & Clean Up The Cayes</p> <hr style="border: 0; border-top: 1px solid black; margin-top: 10px;"/> <p style="text-align: center;">Name of Applicant (Print)</p> </div> <div style="width: 45%; text-align: center;">  <hr style="border: 0; border-top: 1px solid black; margin-top: 10px;"/> <p style="text-align: center;">Signature of Applicant</p> </div> </div>	

You must submit ONE (1) original packet including the completed application, site plan and any other attachments to the Nevada Division of State Lands:

Division of State Lands
901 S. Stewart St
Carson City, NV 89701-5246
Questions? Please Call 775.684.2720

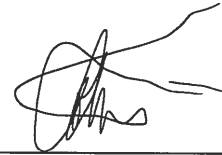
**DECLARATORY STATEMENT BY APPLICANT
FOR A DIVISION OF STATE LAND'S PERMIT, LICENSE OR OTHER AUTHORIZATION
TO USE STATE LAND FOR A RECREATIONAL PURPOSE
PURSUANT TO NRS 322.1003 AND NRS 425.520**

Please mark the appropriate response:

- I am not subject to a court order for the support of a child
- I am subject to a court order for the support of one or more children and am in compliance with the order or am in compliance with a plan approved by the district attorney or other public agency enforcing the order for the repayment of the amount owned pursuant to the order, or
- I am subject to a court order for the support of one or more children and am not in compliance with the order or a plan approved by the district attorney or other public agency enforcing the order for the repayment of the amount owed pursuant to the order.

Failure to mark one (1) of the three (3) will result in denial of the application.

WINERAM Productions LLC & Clean Up The Cayes



Name of Applicant (print)

Signature of Applicant

8/23/2019

Date

USE OF STATE LAND FOR A RECREATIONAL PURPOSE DEFINED

1. Private piers and docks (single and multiple residential uses).
2. Private boat launching ramps, boat rails and boat hoists.
3. Private mooring buoys, boat slips and boat houses.
4. Private swim floats.
5. Recreational dredging.

NEVADA DIVISION OF STATE LANDS APPLICATION CHECKLIST

THIS CHECKLIST IS REQUIRED TO BE ATTACHED AND SUBMITTED WITH THE APPLICATION

	APPLICANT NAME:	WINERAM Productions LLC & Clean Up The Cayes
	ASSESSOR'S PARCEL NUMBER: (APN)	Entire Nevada Shoreline of Lake Tahoe.
	DATE OF APPLICATION:	8/23/2019
APPLICANT (check below)	AGENCY REVIEW	INFORMATION REQUIRED FOR ALL APPLICATIONS
✓	Q/B	Has the correct application fee been submitted?
✓	Q/B	Is there adequate contact and billing information? Addresses and phone numbers?
✓	N/A	Is the APN and physical address included?
✓	Q/B	Is the application summary information adequate? If it is a complex project (pier modification, buoy field expansion, dredging, river application) is there an acceptable and detailed project description/methodology included?
✓	Q/B	Is the notification section filled out?
✓	Q/B	Are the application and declaratory statements signed by the littoral (or correct) owner?
✓	N/A	Is a copy of the current Assessor's Parcel Map (APN) included?
		SITE PLAN REQUIREMENTS- LAKE TAHOE APPLICATIONS
		Does the site plan contain a scale?
	N/A }	Is it clear which parcel and structure(s) belongs to the Applicant?
		Is the low water elevation clearly depicted?
		Is the lake bed elevation included for the intended use(s)?
		Does it include the littoral structures/improvements on the adjacent parcels?
		Do the property projection lines extend lakeward beginning at the low water elevation of 6,223.0?
		SITE PLAN REQUIREMENTS- NAVIGABLE RIVERS, OTHER NEVADA WATER BODIES
		Is there a delineation of the ordinary and permanent high water mark?
		Is there a complete and accurate legal description?

I understand that additional information may be requested during the application review process.

Signature of person preparing the application

8/23/2019

Date

Colin West
Clean Up The Cayes - 501c3 NPO
WINERAM Productions LLC
August 23, 2019

Reason for Application - Q7

2019 Work: 9/21 Scuba Clean Up
2020 Work: 72 Mile Scuba Clean Up

This document is to explain our two main reasons for applying for this permit with NV Division of State Lands. Thank you for your consideration and please see below sections.

Combined Beach Clean Up and Scuba Diving Clean Up on 9/21:

We have been diving and scouting possible areas where there is the worst possible trash issues under the surface of Tahoe. After looking at both Bonsai Rock and Chimney Rock; we did notice some substantial debris, plastics, garbage, and plenty of beer cans that have been down there for decades as well as recent trash beginning to pile up. We are also planning on scuba diving next week on 8/27 to continue to look at a couple of areas to see WHERE the best possible clean up could take place. Last year, my partner who I'm working with that owns Tahoe Dive Shop in Stateline, NV helped host a clean up that got 600 pounds of trash from under the surface of Tahoe. We aren't 100% sure if we foresee the same amount this time around or not; but in 2 dives last week I passed hundreds and of pieces of garbage that needed cleaning and I was only one diver; with a team of divers in there I imagine we could pull up quite a bit of trash in one day. Hopefully similar to last year's 600 pounds; but all we can promise is to find the worst area/s and do our best to clean everything we can.

Personnel: I would imagine that we would shoot for between 15-20 divers on the day of the clean up. We would likely have 2+ boats working with us, and I personally own two jet skis that I would get people driving and providing surface support as well. I can't say for sure, but a couple

kayakers or paddle boards may be in the works to snag garbage from divers and transport to motor vehicles so that there are not jet engines or props above divers heads at all times.

Our Disposal Strategy: is still in progress. We may try and work with TRPA to assist in disposal, or possibly NV State Parks given a meeting we have scheduled next week and the plausibility of us doing our boat launches there.

Insurance Plans: As we do intend to film and document these clean ups we are doing, we do have our public liability insurance with our film company WINERAM Productions LLC (*soon getting a DBA in place for "Make A Difference Media - yet paperwork still under the name WINERAM for now*). Tahoe Dive Shop also has some dive insurance that we plan on providing to you in addition to our film company's insurance. The certificates can be supplied as early as next week or upon your request.

Documentary Filming Plans: My day job is storytelling in the form of feature documentary films and TV Shows and I have a portfolio of work with programs on networks like HULU, ABC, Amazon Prime and more. All things I have created from beginning to end find me fulfilling the role of the writer, director and Executive Producer or otherwise creator of each project from beginning to end. I own some of the highest quality cinema cameras for film and television and hope to use these, our gear, and either my film company employees or some volunteers to our NPO to film what we are doing with this clean up on 9/21.

The purpose of the footage on 9/21 would be to create two videos. One video would be to showcase our larger clean up project next year, and be more of a video introduction to the 72 mile scuba clean up where as the other video would act as a trailer or promotional video for the documentary/pilot episode of MAKE A DIFFERENCE. That trailer for the documentary would be used to gather support for the project.

72 Mile Scuba Clean up of Lake Tahoe in Summer 2020

The big purpose behind what ^{wr}we want to do here is a comprehensive clean up of what is under the surface of the 72 mile shoreline of Lake Tahoe. As mentioned above, last summer, a partner in this venture Matt Menuier from Tahoe Dive Center worked with a group of people where they did a clean up in one day of Bonzai Rock of Lake Tahoe and pulled out over 600 pounds of trash. Some of this trash was easily dating back to the 1970's and some of it was newer.

After our recent scout, we found more evidence of trash in the same area as well as in new areas around the lake. It appears that while the shorelines and beaches of Lake Tahoe get cleared and cleaned, the lake bottom seems to be an everlasting tale of man's pollution of planet earth, including our beloved Lake Tahoe. With only having checked out 2 small coves of Lake Tahoe; we have seen quite a bit of trash that still rests under the surface of our lake.

Our plans for the 72 mile scuba clean up is for Matt Menuier, Owner of Tahoe Dive Center and myself Colin West, Founder of the 501c3 non profit CLEAN UP THE LAKE (*chapter of Clean Up The Plastic*); to scuba dive the entire circumference of Lake Tahoe in order to assess the worst trash areas, GPS map these problem areas for our non profit to monitor in the future, and clean as we go.

Logistics: Overall the plan would be for Matt and I to become "full face mask certified" this fall and winter, so that we can communicate to surface support on what we are seeing under the surface, and using GPS technology we will be able to GPS mark spots that have high levels of trash as well as GPS mark the exact spots we get in and out of the water over the course of this very long dive to ensure we cover every square inch of the shoreline. This whole series of dives will take place through the summer of 2020. During our scout we saw that we could swim as far as 1/2 mile on one tank. Meaning with three tanks a day, the fastest we could make it would be around 48 days, yet we imagine closer to 60 days of diving over the months of June, July, August and September. Each day we would GPS map where we begin and end the dive, our surface support would also analyze what is down there and we would photo or video any bigger issues that we couldn't get while underwater.

Clean Up Crew: In addition to Matt and I swimming the 72 mile circumference, mapping problem areas and doing some clean up on the way; we would plan on having a clean up crew behind us every day of the dive. Right now we are imagining between 3 and 5 divers EACH DAY that would follow behind us and combing a bigger surface area of the shoreline to ensure what we are finding, and anything we missed all gets cleaned and disposed of properly. This crew would alternate each day of our dive with a new group of 3 or 5 people, every 6 days. Therefore each group would be able to commit to this kind of work that summer as they would only need to be diving once a week and could work that volunteer time into their schedules easier with any actual work they have going on.

Disposal Strategy: We are still planning August through June for the preparations for this project. Whether our disposal strategy involves working with an organization like TRPA, the State Park or possibly getting support from the Waste Management companies in the Tahoe Basin we will 100% find a disposal strategy that includes recycling everything we possible can and the rest going to the dump. Of course our NPO is focused on proper recycling and creating less waste so if we can recycle we will find that option over the landfill.

Bigger Items Under the Surface Contingency: We have been told that there is possibly things such as fixed structures or items that may appear as garbage and revenants to be removed that are over a certain size limit that you want to keep there (IE: old docks, etc?). We would be more than happy to work with some kind of approval process where if you let us know what we would want to keep an eye out for, or get approval from you prior to removal - we could do so and document things with photos underwater to show you and retain permission for said items before removing. Anything in this category we would wait for your advisement on what these things may be.

Mechanisms & Tools for Removal: At the moment we do not have any kind of devices, or tools other than our hands and waterproof mesh trash bags planned. However some photos we took the other day diving show that many pieces of trash are wedged between granite rocks, or slightly out of reach. I would say it would be in our benefit to decide together what kind of devices and tools we could use that would be appropriate to access these hard to get to pieces of trash so they do

not continue to pollute our beautiful lake.

Financing and Support Plan: As much as we wish to say we had all of the support in the bag now, at the moment we have talented team members, ambition, and a great purpose. We have our 501c3 NPO in place, the scuba diving community attached to Tahoe Dive Center, my film & television company and our team of great staff and we plan on continuing to strategize, gain volunteers and passionate people and also try and seek support from local non profits with budget, state and federal agencies that maybe able to help support us in any and every way possible whether that be with resources or hopefully with finances as well.

Filming Purposes: Just as mentioned for the 9/21 clean up, we want to film that day this year to prepare for the bigger project of documenting this clean up. I've spent the better part of a decade creating some leading film and television projects in the WINE industry. I did my MBA in wine, was a sommelier forever and I love the industry - however - I have always wanted to do MORE with my work, and I have always wanted to MAKE A DIFFERENCE with what I do which is why I created this documentary film project called "*Make A Difference*".

This project may hopefully one day turn into a show to chronicle many global issues like climate change, dairy farming, and many more unjust topics - yet given my non profit organization the issue most dear to my heart is plastic pollution.

Therefore I want to film and document this clean up we are doing in Lake Tahoe for a documentary based project focused on plastic pollution globally showcasing the issue worldwide with a strong focus on our efforts at cleaning Lake Tahoe as well. This way we can further the word on the issue, the efforts, and help to continue to make people more aware of what pollution can do to a place as beautiful as Lake Tahoe and in doing so help keep it more clean for years to come.

Trade Names & DBA Explanation:

1. Just to explain, the legal named for my for-profit film production company is “WINERAM Productions LLC”. This for profit company is currently applying for a DBA to be known as “M.A.D. Media LLC” - or “**Make A Difference Media**” where I plan on channeling all environmental filmmaking projects that are different than my food & wine filmmaking projects I also do.

2. Our 501c3 Non Profit Organization’s legal name with the IRS is “Clean Up The Cayes” (*named after the CAYES or islands off of Belize that gave us inspiration to start the NPO*). Upon beginning, we realized a name change was in order and have already applied for a DBA with the IRS for “CLEAN UP THE PLASTIC” which will soon be our legal real name. Then “**Clean Up The Lake**” is the local chapter name we are trying to work with around Lake Tahoe.

The two **bold company names** are the ones that we will be using for this project.

From: Shelly Thomsen <sthomsen@stpud.us>
Sent: Thursday, August 08, 2019 11:33 AM
To: Dunbar, Madonna <madonna_dunbar@ivgid.org>
Cc: Lynn Nolan <lnolan@stpud.dst.ca.us>
Subject: TWSA meetings

Howdy Madonna,

Hope all is well. I was accepted into Lake Tahoe's Leadership Academy for the next year (Hurray!), but the monthly meetings are the same day/time as TWSA meetings. As such, Lynn Nolan will be representing the District at these meetings the next year. I have invited our new General Manager, John Thiel, to attend the meetings in South Lake. I'll let you know if he is available and which meetings he will be attending.

Let me know if there is anything else on my part that needs to be done to ensure the District is adequately represented at these meetings.

Thanks,
Shelly Thomsen
Public Affairs and Conservation Manager
(530) 543-6208

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