Lake County Clean Water Program
Management Council
Thursday 2pm May 13 2021
REMOTE access – via Zoom
https://lakecounty.zoom.us/j/95566798312?pwd=aldL Vk5ydy83dDZLZEhzZVRiMUQrQT09
Meeting ID: 955 6679 8312 
Passcode: 532153

Meeting DRAFT MINUTES

Clean Water Management Council Meeting via Zoom Meeting ID: 955 6679 8312 Passcode: 532153 To call through Phone for Audio: +16699006833

1. Attendance (Turner)
   Council Members: Angela De Palma-Dow (County of Lake- Storm Water Coordinator, primary), Daniella Cazares (County of Lake- Storm Water Coordinator, alternate), Marina Deligiannis- (Deputy Water Resources Director, primary), Jenni Byers (Lakeport-community development director)Storm Water Coordinator), Bonne Sharp (Lakeport-Storm Water Coordinator), Andrew Britton (Lakeport-City of Lakeport Public Works), Joyce Overton (Clearlake-City Council, primary), Russ Cremer (Clearlake-City Council, alternate), Mark Roberts (Clearlake-Storm Water Coordinator, alternate) Adeline Brown (Clearlake-Storm Water Coordinator, primary), Bruno Sabatier (County of Lake- BOS, District 2, alternate ), EJ Crandell (County of Lake- BOS, District 3, primary)
   Non-Council: Cherish Holcomb

2. Intro and Welcome (Crandell)
   b. Lakeport City Council secondary/alternate representative (Michael Green).
   c. For May Meeting Supervisor Crandell will fill in for Chair.

3. Approval of Minutes from February 11, 2021 Meeting (Crandell) – Click here to link and see Attachment Item #1.
   Motion: Marina Deligiannis motioned with the recommendation of edits on item 5, seconded by Angela De Palma-Dow. All in favor, motion is approved (unanimously).
   a. Meeting material additions – acronym cheat sheet (Cherish)

4. Consideration of any items not posted to the agenda (Crandell)

5. COVID-19 Updates related to Storm Water Programming (De Palma-Dow)
   a. Operating as usual, most staff vaccinated but still wearing masks as a precaution.
b. Following OSHA guidelines

6. Old Business
a. Update on EOA PEAIP (De Palma-Dow)
   County was able to pay for this project with Cannabis Project and joint funding with the cities of Lakeport and Clearlake. This is still in review.

b. LID document updates (Sharp & De Palma-Dow)
   We are currently reviewing the appendices. It will be given to each jurisdiction and then ask EOA to review it as well. We are wanting to make sure we have an appendices that had low impact development plan relating to Cannabis permits.

c. TMDL TSO Updates (De Palma-Dow)
   i. Attachment #2A & #2B
   ii. BMP Calculator Training June 3rd

7. New business
a. **Action Item:** Pyrethroid Order – Monitoring vs. Management Plan
   State Water Board gave an order for us to either do a one-time monitoring collection which would be us collecting water during a storm event and see if the Pyrethroids are present at specific set trigger levels. There is also a toxicity test from sediments. The second option is we can do a management plan, like the Sacramento Management Plan, which they gave us as an example. The management council needs to decide the following: what is the best option a one-time monitoring plan or an ongoing management plan.
   **Action item:** De Palma-Dow will reach out to water purveyors to see if they have data on Pyrethroids being present.
   - Council Member, Overton suggested “we do the monitoring, and plan to do the management plan in the future.”
   - Byers suggested we do the management plan because that is what was suggested by the state but recognized that the burden of time falls on the County.
   - Supervisor, Sabatier suggested “let’s do the monitoring plan while we figure our funding and plans to complete a management plan.”
   - Sharpe, concerns if the state is pushing to have a management plan, if we aren’t taking the states suggestion is will that impact the future and the requirements they will have for us. We should think about doing the management plan. Concerns that the state is questioning another county entity, and if we do the monitoring plan will the state be satisfied with our results.
   - Council Member, Overton suggested that we get a bid for what it would cost to have a monitoring plan vs a management plan.
- Supervisor Crandell wants to know the cost of writing a management and monitoring plan through staff time.
- Supervisor Sabatier suggested “do the monitoring plan, figure out the cost of the management plan, and plan to include the management next year’s budget fiscal year for County and cities.
- Council member Overton stated she agreed. Byers agreed and state the City has included monies in Lakeport’s budget for a management plan.
- Discussion of an estimate of cost between De Palma Dow, Cremer, and Sabatier.
- Action item 7a.: move forward with the monitoring plan and plan to get a quote for a management plan. (motion by Councilmember Overton, second by Deputy Director Deligiannis)

b. New Permit Workshops
   i. Northern California June 15th – See Attachment
   ii. Virtual Training San Joaquin Valley SWQP $60
      1. http://www.sjvswqp.org/calendar

c. Action Item: New CWP Logo $500 max. ($400 / $100 refinement)
   i. See old logos above (Tabled for next meeting)

d. Stormwater Resources / Source Water Management Plan Development
   i. Ex. Yolo SWRP http://www.yolowra.org/projects_swrp.html

8. Stormwater Program Sustainability
   a. County Wide Coordinator or Contractor Interest
      i. Cost & Effort Sharing
      ii. Current model unsustainable
      iii. Action item to create a budget for true cost to be compliant, storm water coordination (coordinator/consultant), (Councilmember Overton motioned and amended that we look into where is the money coming from and how much do we have already, Deputy Director Deligiannis second with amendment included)
         1. Overton asked if we can have cost estimate that would be to have a storm water coordinator and how can we fund this position.
         2. Cremer asked what the penalty would be for not passing an audit with the state. De Palma Dow will get recommendations of what the consequences would be if an audit was not passed from the Water Boards. Storm water coordinator would be used to make sure we were compliant with the permit, making sure we can pass an audit, apply for grants, and manage day to day storm water.
         3. Sharpe stated we should look into all jurisdictions to see what the cost is for current storm water activities from different departments, see where current funds are coming from to cover those activities.
4. Public input from Betsy Cawn, 1% property tax for Water Resources staff for the Watershed Protection District, recommended that we look into the public money we have allocated.

b. Stormwater Reuse Municipal Grants Program – Section 221 CWA

9. Workgroup Status Updates

a. TMDL & Pyrethroid (De Palma-Dow)

i. **June 3rd Training:** BMP Calculator for Sustainable SW Planning and Construction

b. CON / PCON (Sharp)

i. Most recent meeting discussed the LID Manual appendices, discussed the contractor guides that came out in the record bee to include storm water activities, Grading season has begun (monitoring will be taking place), discussed the do you need a stormwater permit flyer, presentation for Austin Pratt on storm drain markers.

ii. Next meeting July 14 at 3:00pm

c. MUNI / Good Housekeeping (Roberts & Brown)

i. Have not had a meeting

ii. City of Clearlake has come up with a spill response plan for Public Works yards, good housekeeping practice checklist, identifying BMPS inspection procedures

iii. Looking into training trough UC Davis extended learning: land use law and water courses, water protection

   1. Review and process land use application, looking into signing up for courses in June or July

iv. Brown will send out a invite for the upcoming MUNI workgroup meeting

d. Outreach / Public Participation (De Palma-Dow & Cazares)

i. Do you need a SW Permit?

ii. **Tule Flyer** Natural Shoreline

iii. Drain Markers installation Updates

iv. Several meetings, above flyers were created and discussed, storymap to be shared on Water Resources website, Stormwater PSA in the works with County Videographer to be ready for rain season

e. Trash (Cazares)

i. Trash Plan


ii. 2 meetings

   1. County and City of Lakeport have completed Spring trash assessments
2. Discussed illegal dumping issues, helping enforcement powers, and mitigating
3. Promoting community clean up events
   a. Shoreline Clean Up Event hosted by Civic Sparks June 19th 9am-1pm, Library Park, Lucerne Harbor Park and Redbud Park

f. IDDE (Cazares)
   i. 3 meetings
   ii. Creating and editing IDDE plan similar to Trash Implementation Plan
   iii. Outfall mapping will require more resources, deadline to complete within the next fiscal year, pending task inventory of industrial/commercial facilities for all jurisdictions, IDDE testing
   iv. FRO Hazmat training set up by Environmental Health
   v. Enforcement
   vi. Spill Response training
   vii. Public Input from Betsy Cawn, household hazard waste event in Lucerne, Solid Waste Task Force lead by Public Services, flyers were put up in the Northshore (post offices and Sentry Market)

10. Review 2021 Schedule (De Palma-Dow)
    a. MS4 Reporting Period Ends June 30, 2021
    b. Next Meeting Thursday August 12, 2021 2pm (will continue as zoom meeting)
    c. Upcoming deadlines: reporting, monitoring plan/ management plan

11. Public Comment Period (Crandell)
    a. No public comment
12. Adjourn (Crandell)

Figure 1. WRD staffer Austin cleaning paint from a storm drain. Only rain in the storm drain Austin!
Lake County Clean Water Program Municipal Storm Sewer Program (MS4) Baseline Monitoring Plan to accompany the Quality Assurance Project Plan.

For the jurisdictions of County of Lake, City of Lakeport, and City of Clearlake
Document Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Scott De Leon, Water Resources Director, County of Lake

Kevin Ingram, City Manager, City of Lakeport

Alan Flora, City Manager City of Clearlake
Baseline Pyrethroid Monitoring Plan

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Introduction to Pyrethroid Sampling Requirement

On June 8, 2017, the Basin Plan Amendment and TMDL for the Control of Pyrethroid Pesticide Discharges in the Sacramento and San Joaquin River Basin (BPA) was approved by the Central Valley Regional Water Quality Control Board (hereinafter referred to as “the Board”). The Basin Plan Amendment (Resolution No. R5-2017-0057) established a Pyrethroids Control Program that includes conditional prohibition of discharges and baseline water quality monitoring requirements. Phase II MS4 permittees may forego baseline monitoring if the permittee(s) determine that their stormwater discharges are adequately represented by existing data showing that Northern California stormwater discharges are known to contain concentrations of pyrethroids in exceedance of trigger levels. Permittees that choose to forego baseline monitoring must submit a pyrethroids management plan by August 19, 2021. Permittees that opt to conduct baseline monitoring must submit their results to the Board on or before October 19, 2021. Refer to figure 1 for a general timeline of events in accordance with baseline monitoring conducted under Resolution No. R5-2017-0057.

Figure 1 General timeline for pyrethroid baseline monitoring per Resolution No. R5-2017-0057

The County of Lake, the City of Clearlake, and the City of Lakeport (hereinafter referred to as “co-permittees”) submitted a Notice of Intent (NOI) to conduct baseline monitoring of pyrethroids on August 31, 2020. If trigger levels are not exceeded during baseline monitoring, co-permittees will formally request permission from the Board to cease sampling and forego the development of a pyrethroids management plan. If trigger levels are exceeded during baseline monitoring, the Board requires subsequent development of a pyrethroids management plan by either August 19, 2021 or one year from the date the exceedance was determined. The frequency of baseline sampling must be approved by the Board before the results can be used to satisfy
monitoring requirements, therefore, the Board requested proposed monitoring plans by July 2020. The Co-permittees submitted this draft monitoring plan to the Board for review on August 25th along with the accompanying Baseline Monitoring Quality Assurance Project Plan (QAPP) DRAFT document prepared with assistance from EOA, Inc. More details to support this baseline monitoring plan are provided in the QAPP.

**Sampling Frequency**

The time and frequency of sample collection is based on qualifying wet and dry weather events in 2021-2022. Co-permittees will take four water column samples and five sediment samples from the four representative locations throughout Lake County MS4 direct discharge areas. All samples will be taken by field personnel in accordance with SWAMP methods. Water column samples will be analyzed for pyrethroid pesticides (bifenthrin, cyfluthrin, cypermethrin, esfenvalerate, lambda cyhalothrin, permethrin), total organic carbon (TOC), and dissolved organic carbon (DOC). A 96-hour bioassay using H. azteca as a test organism will be collected to quantify water column toxicity of selected, representative MS4 discharges. There must be a total of three wet weather events and one dry weather event to complete the monitoring requirements. If there are no qualifying wet weather events during the monitoring period, the monitoring will be extended until three qualifying wet weather events occur. If the last wet weather event occurs after September 19, 2022, the baseline monitoring report will be due 90 days after the last qualifying wet weather event. See Table 1 for qualifying wet and dry weather events.

**Table 1 Pyrethroid Sampling Schedule**

<table>
<thead>
<tr>
<th>Type</th>
<th>Sample Location(s)*</th>
<th>Analyses</th>
<th>No. of Samples</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Column</td>
<td>CL1, LP1, N1, M1</td>
<td>1. Total Permethrin</td>
<td>4</td>
<td>3 qualifying wet weather events:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. TOC</td>
<td></td>
<td>When rainfall approaches or exceeds 1 inch in an hour (<a href="http://www.cnrfc.noaa.gov">www.cnrfc.noaa.gov</a>)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. DOC</td>
<td></td>
<td>or when tributary flow is 200-400 (cfs) <a href="http://cdec.water.ca.gov/">http://cdec.water.ca.gov/</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. 10-day bioassay (H. azteca)</td>
<td></td>
<td>dynamicapp/queryGroup?s=MFE)</td>
</tr>
<tr>
<td>Sediment</td>
<td>CL1, LP1, N1, M1</td>
<td>1. 10-day bioassay (H. azteca)</td>
<td>4</td>
<td>1 qualifying dry weather event:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>When tributary flow is less than 100 cfs <a href="http://cdec.water.ca.gov/">http://cdec.water.ca.gov/</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>dynamicapp/queryGroup?s=MFE)</td>
</tr>
</tbody>
</table>

*Location specifics are provided in Table A2.

**Sampling Locations**

Locations for sampling pyrethroids from sediments were selected based on their accessibility during storm events, the presence of sediment directly downstream or at the bottom of an outflow that best represents an urban, MS4 area of typical density and land use within Lake County. There
are a total of four locations within the county that will be sampled for sediment pyrethroids, two located in County of Lake co-permittee MS4 urban area locations (Nice, Middletown) and one location in each of the City permittees (Lakeport and Clearlake). The specific locations and relevant addresses are provided in Table 2.

Co-permittees will take four water column samples and five sediment samples from the four representative locations throughout Lake County MS4 direct discharge areas. Three of the sites are discharges into Clear Lake and one is discharge into the other main watershed in Lake County, Putah Creek, located downstream of the Middletown MS4 discharge area. The representative locations will be receiving water sites downstream of MS4 discharge or taken directly from the MS4 discharge.
Figure 2 Selected representative pyrethroid sampling locations. Red diamonds represent approximate locations of sampling for baseline pyrethroid monitoring plan, exact locations and addresses are provided in Table 2.
Table 2 Pyrethroid Sediment and Water Column Representative Monitoring Locations. Letters in Parenthesis in the Region Name Column correspond with site photos in Figure 3.

<table>
<thead>
<tr>
<th>Region Name</th>
<th>Site Name</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Closest Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Clearlake (A)</td>
<td>CL1</td>
<td>38.95184</td>
<td>-122.642</td>
<td>14460 Lakeshore Drive, Clearlake, CA</td>
</tr>
<tr>
<td>City of Lakeport (B)</td>
<td>LP1</td>
<td>39.040489</td>
<td>-122.912023</td>
<td>Outfall on First Street, Lakeport, CA</td>
</tr>
<tr>
<td>Nice (C)</td>
<td>N1</td>
<td>39.12203823</td>
<td>-122.8660893</td>
<td>2503 Lakeshore Blvd, Nice, CA</td>
</tr>
<tr>
<td>Middletown (D)</td>
<td>M1</td>
<td>38.75639598</td>
<td>-122.6078505</td>
<td>St. Helena Creek Rd, Middletown, CA</td>
</tr>
</tbody>
</table>

Figure 3 Lake County Storm Water Selected Pyrethroid Sample Locations.
A. Clearlake on Lakeshore Blvd. B. Lakeport Forbes Creek at Main St. C. Lake County site in Upper Lake at highway 20. D. Middletown at St. Helena Creek.
Pyrethroid Sampling

The pyrethroid sampling outlined in this section satisfies Resolution No. R5-2017-0057 which established a Pyrethroids Control Program in the Central Valley Region. The Monitoring Plan includes the collection of grab samples from four stations that were selected to characterize urban, MS4 areas of typical density and land use within Lake County. Not to surpass 21 June 2022, Water column samples will be monitored for total permethrin (including a total permethrin concentration and five pyrethroid insecticides quantified separately), total organic carbon (TOC), and dissolved organic carbon (DOC). A 10-day bioassay using H. azteca as a test organism will be collected to quantify water column toxicity of selected, representative MS4 discharges. Water and sediment samples will be collected during three qualifying wet weather events (i.e., when rainfall approaches or exceeds one inch in an hour or when tributary flow is 200-400 cfs) and one qualifying dry weather event (i.e., when tributary flow is less than 100 cfs). A total of four water column sampling events will take place at the representative monitoring locations throughout Lake County MS4 areas. A total of 5 sediment samples will be collected at the representative monitoring locations at discharges into Clear Lake and one into Putah Creek (i.e. Middletown). If the results exceed the triggered levels specified in Table IV-Z of Resolution R5-2017-0057, co-permittees will develop a pyrethroids management plan.

Both water column and sediment sampled will be collected at each site at the same time during required wet and dry storm events as described in Table 1. Table 4 outlines the general requirements for pyrethroid sampling.

Sampling Methods

Samples will generally be collected from shore in wadeable waters, in most cases by using a near-surface grab sample. Grab samples will be collected into appropriate pre-cleaned containers and aliquoted into glass, polyethylene, or Teflon sample containers appropriate for the analyses to be performed or will be collected directly into the sample containers, if appropriate. After collection, field-collected samples will be stored at between 0 and 6°C until arrival at the contract laboratory.

Grab samples are collected whenever feasible by direct submersion of the sample container into the stream, or flow from an outfall. When feasible, the sample containers should be opened, filled and recapped below the water surface. Samples should always be collected upstream of sampling personnel and equipment, and with the sample container pointed upstream when the container is opened for sample collection. Care must be taken not to sample water downstream of areas where sediments have been disturbed in any manner by field personnel.

If the centroid of the stream cannot be sampled by wading, sampling devices can be used to reach the sampling location. Such devices typically involve a means to extend the reach of the sampler, with the sample bottle attached to the end of the device for filling at the desired location. These methods do not allow opening of the sample container under water. When sampling from a stream bank, the sample container is attached to a device which is attached in turn to the end of an extendable sampling pole.
Water Column Sampling

Total permethrin water column samples will be taken by field personnel in accordance with SWAMP methods and sent to Pacific EcoRisk/CalTest for analysis via EPA625.1M. Method EPA625.1M requires three 1-liter unpreserved amber glass bottles and has a hold time of 3 days. Samples must be refrigerated or on ice to maintain a maximum temperature of 6°C. The analysis should be written on the COC as “Pyrethroid Pesticides, Total”. Additional analytes should be reported separately and should be listed on the COC as follows, “Bifenthrin”, “Cyfluthrin”, “Cypermethrin”, “Esfenvalerate”, and “Lambdacyhalothrin”. Table 3 outlines the exceedance levels associated with pyrethroids.

<table>
<thead>
<tr>
<th>Target Pyrethroid</th>
<th>Acute (ng/L) / (µg/L)</th>
<th>Chronic (ng/L) / (µg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bifenthrin</td>
<td>0.8 / 0.008</td>
<td>0.1 / 0.001</td>
</tr>
<tr>
<td>Cyfluthrin</td>
<td>0.8 / 0.008</td>
<td>0.2 / 0.002</td>
</tr>
<tr>
<td>Cypermethrin</td>
<td>1.0 / 0.01</td>
<td>0.3 / 0.003</td>
</tr>
<tr>
<td>Esfenvalerate</td>
<td>2.0 / 0.02</td>
<td>0.3 / 0.003</td>
</tr>
<tr>
<td>Lambdaacyhalothrin</td>
<td>0.7 / 0.007</td>
<td>0.3 / 0.003</td>
</tr>
<tr>
<td>Permethrin (total)</td>
<td>6 / 0.006</td>
<td>1 / 0.001</td>
</tr>
</tbody>
</table>

*These values are identified by UC Davis 5th Percentile Criteria and provided in the updated Central Valley Regional Water Quality Control Board titled “Proposed Amendments to the Water Quality Control Plan for the Sacramento River and San Joaquin River Basins for the Control of Pyrethroid Pesticides Discharges Final Staff Report” (June 2017) Available: https://www.waterboards.ca.gov/rwqcb5/water_issues/tmdl/central_valley_projects/central_valley_pesticides/pyrethroid_tmdl_bpa/staff_report_bpa_dev/2017june/2017june_pyrbpa_fsr.pdf

Sediment Sampling

Sediment samples will be collected in accordance with the methods described in USGS report 2009-5012 (Collection of Pyrethroids in Water and Sediment Matrices: Development and Validation of a Standard Operating Procedure). Specifically, trained and prepped field staff will collect sediment “grab samples” by carefully standing directly downstream of the undisturbed sample site in-stream, and using a stainless steel large kitchen spoon (i.e. not a ladle but a larger stainless steel scooping spoon) and scoop up the top 2 cm of depositional sediments from the same area of stream to fill (at least 75% full) a clean, sterilized 500ml glass jar with plastic screw top. For all sample events, one site will also include a second sampling from the same area to serve as a field duplicate sample to ensure field technique is consistent and meet the QA/QC requirements. Please refer to the QAPP for more details as needed for sediment sampling.

Additional Site Sampling

Total organic carbon (TOC) water column samples will be taken by grab sample by field personnel and sent to Pacific EcoRisk Laboratory / Alpha Analytical Laboratory for analysis via SM5310C. SM5310C for TOC water column samples requires two 40mL amber glass vials preserved with
phosphoric acid. TOC samples have a 28-day hold time. Results for water column samples will be in mg/L. The analysis should be written on the COC as “TOC”.

Dissolved organic carbon (DOC) water column samples will be taken by grab sample on site by field personnel and sent to Pacific EcoRisk / Alpha Analytical Laboratory for analysis via SM5310C. SM5310C for DOC water column samples requires one 125mL unpreserved amber glass bottle. DOC samples have a 28-day hold time. Results for water column samples will be in mg/L. The analysis should be written on the COC as “DOC”. Please refer to the QAPP for more details related to additional site sampling.

Table 4 Pyrethroid Sampling Protocols and Methods

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Sample Type</th>
<th>Analyzed by</th>
<th>Method</th>
<th>Bottle Req.</th>
<th>Hold Time</th>
<th>Temp Req.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Permethrin, Bifenthrin, Cyfluthrin, Cypermethrin, Esfenvalerate, LambdaCyhalothrin</td>
<td>Water Column</td>
<td>Pacific EcoRisk/CalTest</td>
<td>EPA625.1M</td>
<td>3x 1L unpreserved amber glass</td>
<td>3 days</td>
<td>Cool (0-6˚C)</td>
</tr>
<tr>
<td>Total Organic Carbon (TOC)</td>
<td>Water Column</td>
<td>Alpha Analytical</td>
<td>SM5310C</td>
<td>2x 40mL amber glass (H₃PO₄)</td>
<td>28 days</td>
<td></td>
</tr>
<tr>
<td>Dissolved Organic Carbon (DOC)</td>
<td>Water Column</td>
<td>Pacific EcoRisk</td>
<td>EPA-821-R-02-012</td>
<td>125mL unpreserved amber glass</td>
<td>36 hours</td>
<td></td>
</tr>
<tr>
<td>H. Azteca toxicity bioassay</td>
<td>Sediment</td>
<td>Pacific EcoRisk</td>
<td>EPA-600/ R-99-064</td>
<td>2-liter jar</td>
<td>14 days</td>
<td></td>
</tr>
</tbody>
</table>

Resolution R5-2017-0057: Estimated Cost of Compliance

Table A5 outlines the estimated cost of compliance with Resolution R5-2017-0057. The cost distribution is determined by the four representative sample sites, 2 within the County jurisdiction and one for each city jurisdiction. The sub-total cost for sampling lab analysis and prep for the four sites over the required five qualifying sample events is $45,908. This programmatic sampling costs will impact Lake County co-permittees budgets for a single year (estimated July 2021 – June 2022). The individual cost shared amounts are provided in the bottom three lines of Table A5. As being the second “poorest” county within the state of California, as determined by the median income being <20% of the state average, this cost is significant to all co-permittees and will be sourced from the same budgets utilized to improve storm water programs, projects, and infrastructure.

For the Baseline Pyrethroid monitoring plan activities, the Cities of Lakeport and Clearlake are going to contract with Lake County Water Resources Department to conduct both dry and wet weather sampling. Coordinating, preparation, monitoring, sampling, shipping, and data collection, analysis, and reporting will be reimbursed from the cities to the Counties in monthly installments.
during the baseline monitoring project duration. This cost breakdown is described below Table 5. The estimated cost for conducting sampling does not exceed the $45,000 as estimated by the Water Board in the original

<table>
<thead>
<tr>
<th>Parameter being Sampling and Matrix</th>
<th>Sites</th>
<th>Events</th>
<th>Cost per Sample / unit</th>
<th>Sub Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Pyrethroids (Water)</td>
<td>4</td>
<td>4</td>
<td>$400.00</td>
<td>$6,400.00</td>
</tr>
<tr>
<td>Total Organic Carbon (TOC) (Water)</td>
<td>4</td>
<td>4</td>
<td>$76.50</td>
<td>$1,224.00</td>
</tr>
<tr>
<td>Dissolved Organic Carbon (DOC) (Water)</td>
<td>4</td>
<td>4</td>
<td>$76.50</td>
<td>$1,224.00</td>
</tr>
<tr>
<td>H. Azteca toxicity bioassay (water)</td>
<td>4</td>
<td>4</td>
<td>$953.00</td>
<td>$15,248.00</td>
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<tr>
<td>H. Azteca toxicity bioassay (soil)</td>
<td>4</td>
<td>5</td>
<td>$1,332.00</td>
<td>$21,312.00</td>
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<tr>
<td>Field Labor Hours (crew =3)</td>
<td>-</td>
<td>-</td>
<td>$71.00 / hour*</td>
<td>$4,260.00</td>
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<tr>
<td>Handling and Preparation (10 hours)</td>
<td>-</td>
<td>-</td>
<td>$71.00 / hour</td>
<td>$710.00</td>
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<tr>
<td>Project Coordinating (lab communications, reporting prep, data collection, analysis, troubleshooting) (40 hours)</td>
<td>-</td>
<td>-</td>
<td>$71.00 / hour</td>
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<tr>
<td>Travel Clearlake (mileage 365 miles)</td>
<td>4</td>
<td>5</td>
<td>0.39 / mile</td>
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Total for Shared Expenses $53,361.00

- County of Lake (2 sites, 50%) $26,680.50
- City of Lakeport (1 site, 25%) $13,197.25
- City of Clearlake (1 site, 25%) + mileage $143 $13,483.25

*This cost per hour reflects the highest hourly wage to be applied, however in all likelihood field crews will include staff that bill at a lower wage but it’s unknown at this time the exact crew composition to be used for every sample event.
REIMBURSEMENT AGREEMENT

THIS REIMBURSEMENT AGREEMENT is made and entered into as of the date last signed below by and between THE CITY OF LAKEPORT (CITY) and COUNTY OF LAKE WATERSHED PROTECTION DISTRICT (LAKE).

The parties agree as follows:

1. Services by LAKE. LAKE shall provide monitoring program coordination between LAKE and the CITY to conduct Pyrethroid sediment and water monitoring and general NPDES MS4 storm water permit compliance monitoring services as described in “Exhibit A: PYRETHROID PLAN” and “Exhibit B: LAKE COUNTY MUNICIPAL STORM SEWER PROGRAM MONITORING PLAN”, respectively, attached and incorporated herein.

2. Term. This agreement is effective from September 21, 2021 through September 21, 2024.

3. Reimbursement by CITY, part 1. In consideration of the services described in section 1 and upon invoice by LAKE, the CITY shall reimburse LAKE in the agreed upon amounts of $13,197.00 for Pyrethroid sediment and water monitoring services, for the single monitoring year ending in June 30, 2022, notwithstanding natural or political disasters precluding the required monitoring from occurring.

4. Reimbursement by CITY, part 2. In consideration of the services described in section 1 and upon invoice by LAKE, the CITY shall reimburse LAKE in the agreed upon amounts of storm water permit compliance monitoring services for one sample site for a maximum of seven sampling events ($1,378.00 for each event) with a total amount not to exceed $9,646.00 in any given fiscal calendar year between July 1 – June 30. Payment questions should be addressed to Water Resources (707) 263-2344.

5. Alteration, Amendment. No alteration of the terms of this agreement shall be valid or binding upon either party unless made in writing and signed by both parties. This agreement may be amended at any time by written agreement of the parties.

6. Indemnification. The parties shall defend, indemnify, and hold each other harmless from and against any and all liability, loss, expense, attorneys' fees, or claims for injury or damages arising from the performance of this agreement, but only in proportion to and to the extent such liability, loss, expense, attorneys' fees, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of the indemnifying party, its officers, agents, or employees.

7. Notification. Any notice required or permitted hereunder shall be sent to the parties via U.S. mail, postage prepaid, or by personal service, e-mail or facsimile, or as may otherwise be permitted by law, addressed as set forth in this section. Either party may change its address by written notice to the other during the term.

Regarding Contract. Correspondence or inquiries regarding contractual matters shall be directed to the appropriate party at the following addresses:

**CITY**

Jenni Byers  
City of Lakeport  
225 Park Ave  
Lakeport, CA 95453  
Phone: 707-263-5615 x201  
E-mail: jbyers@cityoflakeport.com

**LAKE**

Alicia Ayala  
County of Lake Watershed Protection District  
255 N Forbes Street, Room 301  
Lakeport, CA 95453  
Phone: 707-263-2344  
E-mail: Alicia.Ayala@lakecountyca.gov
6.2 Regarding Program/Work. Correspondence or inquiries regarding the substance and progress of work to be performed should be directed to the following addresses:

**LAKE**
Angela De Palma-Dow  
County of Lake / Water Resources  
255 N Forbes Street, Room 301  
Lakeport, CA 95453  
Phone: 707-263-2344  
Email: Angela.Depalma-Dow@lakecountyca.gov

8. **Applicable Law.** This agreement shall be construed pursuant to California law.

9. **Right to Use Data.** LAKE and CITY shall have the unrestricted right to use for both their own purposes, including publication, any data or information resulting from the Services described in Exhibit A and Exhibit B.

10. **Relationship of the Parties.** The parties to this agreement shall be and remain at all times independent contractors, neither being the employee, agent, representative, or sponsor of the other in their relationship under this agreement.

11. **Time Limit for Action.** No action for breach of this agreement may be brought by either party more than one year after the cause of action has accrued.

12. **Federal Exclusion Warranty.** LAKE and CITY warrants that it is not excluded from participation in any governmental sponsored program, including, without limitation, the Medicare, Medicaid, or Champus programs (http://exclusions.oig.hhs.gov/search.html) and the Federal Procurement and Nonprocurement Programs (https://www.sam.gov/index.html/##11#1). This agreement shall be subject to immediate termination in the event that LAKE or CITY is excluded from participation in any federal healthcare or procurement program.

13. **Whole Agreement.** This agreement constitutes the entire understanding of the parties respecting the subject matter hereof and supersedes any prior understanding or agreement between them, written or oral, regarding the same subject matter.

AGREED:

COUNTY OF LAKE  
By: ______________________________  
(Carol Huchingson, Clerk of the Board)  
Print name: ________________________  
Title: _____________________________  
Date: _____________________________

THE CITY OF LAKEPORT  
By: ______________________________  
(Authorized signature)  
Print name: ________________________  
Title: _____________________________  
Date: _____________________________

COUNTY OF LAKE R. A. # 2020001
REIMBURSEMENT AGREEMENT

THIS REIMBURSEMENT AGREEMENT is made and entered into as of the date last signed below by and between THE CITY OF CLEARLAKE (CITY) and COUNTY OF LAKE WATERSHED PROTECTION DISTRICT (LAKE).

The parties agree as follows:

1. Services by LAKE. LAKE shall provide monitoring program coordination between LAKE and the CITY to conduct Pyrethroid sediment and water monitoring and general NPDES MS4 storm water permit compliance monitoring services as described in “Exhibit A PYRETHROID PLAN” and “Exhibit B: LAKE COUNTY MUNICIPAL STORM SEWER PROGRAM MONITORING PLAN”, respectively, attached and incorporated herein.

2. Term. This agreement is effective from September 21, 2021 through September 21, 2024.

3. Reimbursement by CITY, part 1. In consideration of the services described in section 1 and upon invoice by LAKE, the CITY shall reimburse LAKE in the agreed upon amounts of $13,483.25 for Pyrethroid sediment and water monitoring services, for the single monitoring year ending in June 30, 2022, notwithstanding natural or political disasters precluding the required monitoring from occurring.

4. Reimbursement by CITY, part 2. In consideration of the services described in section 1 and upon invoice by LAKE, the CITY shall reimburse LAKE in the agreed upon amounts of storm water permit compliance monitoring services for one sample site for a maximum of seven sampling events ($1,520.00 for each event) with a total amount not to exceed $10,255.00 in any given fiscal calendar year between July 1 – June 30. Payment questions should be addressed to Water Resources (707) 263-2344.

5. Alteration, Amendment. No alteration of the terms of this agreement shall be valid or binding upon either party unless made in writing and signed by both parties. This agreement may be amended at any time by written agreement of the parties.

6. Indemnification. The parties shall defend, indemnify, and hold each other harmless from and against any and all liability, loss, expense, attorneys' fees, or claims for injury or damages arising from the performance of this agreement, but only in proportion to and to the extent such liability, loss, expense, attorneys' fees, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of the indemnifying party, its officers, agents, or employees.

7. Notification. Any notice required or permitted hereunder shall be sent to the parties via U.S. mail, postage prepaid, or by personal service, e-mail or facsimile, or as may otherwise be permitted by law, addressed as set forth in this section. Either party may change its address by written notice to the other during the term.

7.1. Regarding Contract. Correspondence or inquiries regarding contractual matters shall be directed to the appropriate party at the following addresses:

CITY
Mark Roberts
City of Clearlake

LAKE
Alicia Ayala
County of Lake Watershed Protection District

COUNTY OF LAKE R. A. # 2020001
6.2 Regarding Program/Work. Correspondence or inquiries regarding the substance and progress of work to be performed should be directed to the following addresses:

**LAKE**

Angela De Palma-Dow  
County of Lake / Water Resources  
255 N Forbes Street, Room 301  
Lakeport, CA 95453  
Phone: 707-263-2344  
Email: Angela.Depalma-Dow@lakecountyca.gov

8. Applicable Law. This agreement shall be construed pursuant to California law.

9. Right to Use Data. LAKE and CITY shall have the unrestricted right to use for both their own purposes, including publication, any data or information resulting from the Services described in Exhibit A and Exhibit B.

10. Relationship of the Parties. The parties to this agreement shall be and remain at all times independent contractors, neither being the employee, agent, representative, or sponsor of the other in their relationship under this agreement.

11. Time Limit for Action. No action for breach of this agreement may be brought by either party more than one year after the cause of action has accrued.

12. Federal Exclusion Warranty. LAKE and CITY warrants that it is not excluded from participation in any governmental sponsored program, including, without limitation, the Medicare, Medicaid, or Champus programs ([http://exclusions.oig.hhs.gov/search.html](http://exclusions.oig.hhs.gov/search.html)) and the Federal Procurement and Nonprocurement Programs ([https://www.sam.gov/index.html/#/11#1](https://www.sam.gov/index.html/#/11#1)). This agreement shall be subject to immediate termination in the event that LAKE or CITY is excluded from participation in any federal healthcare or procurement program.

13. Whole Agreement. This agreement constitutes the entire understanding of the parties respecting the subject matter hereof and supersedes any prior understanding or agreement between them, written or oral, regarding the same subject matter.

AGREED:

COUNTY OF LAKE

By: ________________________________  
(Carol Huchingson, Clerk of the Board)

Print name: __________________________  
Title: ________________________________  
Date: ________________________________

THE CITY OF CLEARLAKE

By: ________________________________  
(Authorized signature)

Print name: __________________________  
Title: ________________________________  
Date: ________________________________
### DRAFT Lake County Storm Water Source and Structure Improvement Budget Justification - per task

**Project Name:** Lake County Clean Water Program and County of Lake Storm Water Source and Structure Improvement Budget and Project Plan - Lake County, Lakeport, Clearlake

**Project Contact:** Angela D. DePalma-Dow@lakecountyca.gov

#### 1.0 Project Administration

<table>
<thead>
<tr>
<th>Task #</th>
<th>Sub-task: Budget Line Item Description</th>
<th>Cost Desc.</th>
<th>Cost per Unit</th>
<th>Unit Desc.</th>
<th>Year 1 Qnt.</th>
<th>Year 2 Qnt.</th>
<th>Year 3 Qnt.</th>
<th>Subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Project Coordination (multiple staff)</td>
<td>County Labor</td>
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<td>Hours</td>
<td>100</td>
<td>50</td>
<td>50</td>
<td>$25,000.00</td>
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<tr>
<td></td>
<td>Legal / County Counsel</td>
<td>County Labor</td>
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<td>Hours</td>
<td>100</td>
<td>100</td>
<td>50</td>
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<tr>
<td></td>
<td>Data Collection, Analysis, Surveying, Reporting*</td>
<td>County Labor</td>
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<td>100</td>
<td>100</td>
<td>10</td>
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<tr>
<td></td>
<td>Supplies, Office and Field Materials*</td>
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<tr>
<td></td>
<td>Monitoring (time sites, multiple events, multiple staff)*</td>
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<td>Hours</td>
<td>100</td>
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<td>$5,000</td>
<td>$5,000</td>
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<tr>
<td></td>
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<td>Year</td>
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**Total 1.0 Project Administration Sub Total:** $180,000.00

#### 2.0 Infrastructure Assessment and Improvement Planning

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<th>Sub-task: Budget Line Item Description</th>
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<th>Cost per Unit</th>
<th>Unit Desc.</th>
<th>Year 1 Qnt.</th>
<th>Year 2 Qnt.</th>
<th>Year 3 Qnt.</th>
<th>Subtotal</th>
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<td></td>
<td>Consultant RFP Development, Selection, Agreements, Meetings, Facilitation</td>
<td>County Labor</td>
<td>$25.00</td>
<td>Hours</td>
<td>100</td>
<td>50</td>
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<tr>
<td></td>
<td>Policy Review and Improvement Plan (Ordinance, Storm Water Management Plan)</td>
<td>Consultant</td>
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<td>-</td>
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<tr>
<td></td>
<td>Program Review and Improvement Plan (Execution, Implementation of the policy, multiple jurisdictions &amp; departments)</td>
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<td>$50,000.00</td>
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<tr>
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<td>Storm Water Improved Policy and Program Reporting and Recomendations (Draft updated ordinance, program needs, O &amp; M financing cost estimation etc.)</td>
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**Total 2.0 Consultant Infrastructure Assessment Sub-Total:** $122,425.00

#### 3.0 Storm Water Management P & P

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<th>Unit Desc.</th>
<th>Year 1 Qnt.</th>
<th>Year 2 Qnt.</th>
<th>Year 3 Qnt.</th>
<th>Subtotal</th>
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</thead>
<tbody>
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<td>Task Coordination (trash, faciliation, meeting, reporting)</td>
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<td>Hours</td>
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<td>100</td>
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<td>$25,000.00</td>
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<tr>
<td></td>
<td>Materials &amp; Supplies</td>
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<td>-</td>
<td>-</td>
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<tr>
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<tr>
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<td>Adopt a Drain / Street Program</td>
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<td>Hours</td>
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<td>Year</td>
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**Task 3.0 Storm Water Management Review and Improvement Sub Total:** $109,200.00

#### 4.0 Trash Plan Implementation

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<th>Task #</th>
<th>Sub-task: Budget Line Item Description</th>
<th>Cost Desc.</th>
<th>Cost per Unit</th>
<th>Unit Desc.</th>
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<th>Year 2 Qnt.</th>
<th>Year 3 Qnt.</th>
<th>Subtotal</th>
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<tr>
<td></td>
<td>Equipment</td>
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<td>-</td>
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<td>$5,000</td>
<td>$5,000</td>
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<tr>
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<td>Solid Waste Removal and Enforcement (towing, dumping, vessel pick up)</td>
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<td>Adopt a Trash / Street Program</td>
<td>County Labor</td>
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**Task 4.0 Trash Plan Implementation Sub Total:** $154,700.00

#### 5.0 Outreach and Education

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<th>Task #</th>
<th>Sub-task: Budget Line Item Description</th>
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<th>Cost per Unit</th>
<th>Unit Desc.</th>
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<th>Year 2 Qnt.</th>
<th>Year 3 Qnt.</th>
<th>Subtotal</th>
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<tbody>
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<tr>
<td></td>
<td>Outreach Coordinator (Interns, Civic Spark Fellows)</td>
<td>Contractor</td>
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<td>Year</td>
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<td>Materials (factsheets, brochures, billboards, signs)</td>
<td>Reproduction</td>
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<td>Stormwater PSA and videos</td>
<td>Services</td>
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<td>Hours</td>
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**Task 5.0 Outreach and Education Sub Total:** $179,300.00

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#### DRAFT Lake County Clean Water Program and County of Lake Storm Water Source and Structure Improvement Budget Justification Plan

**Cost Category**

<table>
<thead>
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<th>Cost Category</th>
<th>Cost per Unit</th>
<th>Unit Description</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
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<td>Consultants &amp; Contractors</td>
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<tr>
<td>Equipment</td>
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<td></td>
</tr>
</tbody>
</table>

**Project Subtotal:** $1,052,647.25

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*These items are ones that can be further supported and matched by County and City efforts, i.e. spending already being used and planned to be used.

**Project Match (County Internal Cannabis Tax Grant Funds) $300,000 each year + $300,000 = $600,000 (2022 sustainability 2 following years) $1,900,000**

---

**Project total:** $1,052,647.25
September 9, 2021

To: Blue Ribbon Committee for the Rehabilitation of Clear Lake

Re: Letter of Support for consideration of the Lake County Clean Water Program and County of Lake Storm Water Source and Structure Improvement Budget and Project Plan.

Dear Blue Ribbon Committee Voting Members,

We are writing this letter today to ask for your consideration in allocating BRC funding and priority towards the proposed Lake County Clean Water Program and County of Lake Storm Water Source And Structure Improvement Budget and Project Plan. Part of this funding proposed would include:

i. A physical BMP and storm drain system assessment and improvement plan (including location selection and engineering plans of high-priority and high-impact storm system infrastructure capital improvement projects)

ii. A review and improvement plan for County and City Programs and Policies guiding storm water management (a previously identified task approved by the BRC)

iii. A much needed update to the Lake County Storm Water Management Plan (LCSWMP) and related county and city ordinances

iv. Trash reduction implementation (a previously identified priority project identified by the BRC)

v. Storm water quality outreach and education (previously identified priority project component by the BRC).

The current LCSWMP was written in 2003, has never been updated, and does not account for current population growth, degraded infrastructure, climate change adaptation needs, nor wildfire impacts and recovery. The LCSWMP has also never been fully implemented in any municipality in the County due to funding and staff shortfalls and disaster recovery efforts. However, the absence of prioritized plans and design projects to guide specific on-the-ground improvements have been the major challenge to improvements that would greatly improve water quality.

For some background, the Lake County Clean Water Program (CWP) is a joint effort between the County’s MS4 co-permittees, including the County of Lake, The Watershed Protection District, City of Clearlake and the City of Lakeport, to manage and reduce the impact of storm water on Clear Lake and other aquatic resources in Lake County. The overarching goal of the CWP is to prevent pollutants, including sediment phosphorus and other nutrients, from entering the receiving water bodies through the effective implementation of structural and source Best Management Practices (BMPs) to the maximum extent practicable. Part of the success of any future storm water improvements in Lake County will reside in the concurrent success of the CWP, both in the shared responsibility to protect Clear Lake from storm water runoff from urban areas and the space in between these “urban” jurisdictions (i.e. the unincorporated portions of Lake County). All this space, and potential storm water improvements, are included in this proposed budget and project plan.
It is almost guaranteed that one of the resulting recommendations from the current lake and landscape research being conducted by both UC Davis and USGS, as part of the BRC granted project funds, will be to “reduce external phosphorus and nutrient loads flowing into Clear Lake”. Nowhere can this recommendation be more easily or directly accomplished than through improved storm water management, including the enhancement of storm water plans, programs, projects, and policy.

While the Lake County of Water Resources is bringing this proposal and budget to the BRC, the Budget and Project Plan it supports will include the Watershed Protection District, the City of Clearlake and City of Lakeport, as those municipalities share shoreline and storm water system infrastructure within in the Clear Lake Basin.

Please do not hesitate to contact our coordinating member at the Watershed Protection District, Angela De Palma-Dow, with additional questions or concerns, and she will relay them to rest of the Clear Water Program.

Sincerely yours,

The Clean Water Program Officers and Elected Members

Jenni Byers, City of Lakeport

Kylie Clark, City of Clearlake

Bonne Sharp, City of Lakeport

Adeline Brown, City of Clearlake

Angela De Palma-Dow, County of Lake

Marina Deligiannis, County of Lake

Eddie EJ Crandall, Lake County Watershed Protection District
Attachment #6 not complete yet, will be posted online in Meeting Materials on Tuesday 9/7/2021 for Clean Water Program Meeting scheduled for Sept 9 2021

Attachment #6
To be completed and posted 9/7