Meeting Minutes

CCLEAN Steering Committee
May 22, 2003
9:30 – 11:30 a.m.
Watsonville WWTP

Participants:
Barbara Pierson: City of Watsonville (831) 728-6124
Dane Hardin: Applied Marine Sciences (831) 426-6326
John Popper: Monterey Regional Water Pollution Control Agency (831) 883-6121
Dan Mizerski: Monterey Regional Water Pollution Control Agency (831) 883-6113
Ray von Dohren: Carmel Area Wastewater District (831) 624-1248
Karen Worcester: Regional Water Quality Control Board (Speaker Phone) (805) 549-3333
Dave Paradies: (Speaker Phone for a short time) (805) 528-0221 cell - 801-2095
Akin Babatola: City of Santa Cruz (831) 420-6045

Agenda Items:

1) Review of last meeting minutes: The last meeting's minutes were accepted with out comment.

2) Financial Update: The cost of the Program to date is $440,606(a few invoices have been added and the additional cost for Applied Marine Science was added, a mistake in the spreadsheet I passed out at the meeting)

The breakdown is:	Applied Marine Science	$141,642
	MEC Analytical	$ 99,258
	Kinnetic Laboratories (KLI)	$ 145,162
	Monterey County	$ 12,420
	Santa Cruz County	$ 8,400
	Monterey Bay Analytical	$ 4,900
	Administration Fee (7%)	$ 28,824

As the CCLEAN lead agency the City of Watsonville has collected a total of $509,238 from the member agencies. (Santa Cruz paid their last bill) The fact that more money has been taken in than paid out is caused by a lag in invoicing for services that have been performed. We are expecting a big bill from KLI for the wet weather effluent and river sampling. Also the County of Santa Cruz doesn't bill for their services until the end of the fiscal year.
It was decided that for the next billing cycle the contingence fee would not be charged to each agency, which would reduce each bill by 20%

3) Evaluate the Program:

A) Website: CCLEAN will now have a website. Dave Paradies registered the domain name "CCLEAN.org" during the meeting. The City of Watsonville will provide the server through Redshift.com. Dave will develop the website and send

the City of Watsonville the bill for his services. Dave said the website will be low tech. and pretty, extremely easy to update, and have file browsing capabilities. The website will include a calendar of CCLEAN sampling events, so everyone can be up to date.

B) **River Sampling:** The composite sampling of the Salinas River for P.O.P's worked out with the late rains. We ended up with 200 samples, although it took over two months to get them. Dane is working on flow estimations on creeks and rivers that do not have USGS flow gauges on them. He has been talking to Raphael Kudella from UCSC about modeling techniques. Karen suggested that Dane look at work done at UCSB on nutrient loading during storm events by Tim Robertson. We decided to add ammonia and ortho-phosphate to the analyses done on the WWTP effluents and the creek and river samples collected by the Counties. Based upon a quote from the County of Monterey, it was estimated that it would cost $12,000 a year to do the analyses. Akin thought that it was a high price. John offered to do the phosphate analysis at the MRWPCA Lab., and Ray offered the Carmel Lab. services for the Monterey County samples (6 per month). Barbara said she could do the ammonia analysis for the Santa Cruz County samples (10 per month) since they drop off the urea samples that go to Monterey Bay Analytical Services. The logistics of getting the samples to the different laboratories will have to be worked out.

C) **Protozoan analysis of the Effluent and River Samples:** Karen didn't think it would be worth doing protozoan analysis on grab samples from the effluents and rivers. It would be more appropriate to do it on mussels that would bio-accumulate the microorganisms. She will find out how much it would cost to have the people at UC Davis do protozoan analysis on the mussel sample.

D) **MBARI instead of Packard Grant:** The 3rd phase of the program, the deployment of buoys to measure ambient POP levels, may have to be postponed. When Dane talked to MBARI, at an ESP (Environmental Sampling Platform) Workshop, about adding a sampler that would pump 200 liters of water to their buoys, they indicated that their buoys didn't have the energy capacity to do that kind of sampling. Packard grants are hard to come by these days because of the economic slowdown. Dane suggested that we could do the POP sampling from a boat at the beginning and end of the sampling events of the rivers and effluent. Dane will develop a Scope of Work and talk to Kinnetic Laboratories about a price for this sampling. Karen mentioned that it might be a better approach to collaborate with existing programs. Dane said that a group responding to a request for proposal by MERHAB (Monitoring and Event Response to Harmful Algal Blooms) would like a letter of support from CCLEAN. Barbara mentioned that the Moss Landing Marine Laboratories' boat, the RV John H. Martin, is equipped with a flow through system that records turbidity, conductivity, florescence, temperature of the surface water along with time, date, and Latitude and Longitude coordinates every 5 seconds. They record this information every time the boat goes out on the bay. Raphael Kudella's group at UCSC has developed a conversion factor that converts the fluorometry data into density of phytoplankton in the water. These data with satellite images could be used to identify phytoplankton blooms.

E) **Peer Review:** Dane was asked who he would like to review the annual report. The list included: Mike Foster (Moss Landing Marine Laboratories), Raphael

Kudella (UCSC), Jay Davis (SFEI, San Francisco Estuary Institute), Ken Shiff and Steve Weisberg (SCCWRP). The annual report could be posted on the website with a note that any comments are welcome.

5) CCLEAN Annual Report: It was decided that non-detected results will be reported as 0 in POP totals and a notation, ND, will be added in the tables and graphs. Dane will find out how much it will cost to clean up the oxy-chlordane in the POP samples. The annual report should be out in 2- 3 weeks.

6) Update on Program Status: We ran out of time for a program update. Nothing has changed since last meeting that we hadn't already discussed in this meeting. Dane did give us an update on the Proposition 13 proposal. He will be getting a scope of work to Karen in the next few days and hopes to get the money by the end of the year. He may add some analytes that are Endocrine Disruptors such as PBDE (fire retardant).

7) Direct Brine Water Discharge through Effluent Pipes: The city of Santa Cruz is negotiating with a brine producer to accept brine waste that will be discharged directly through the effluent pipe. They expect to discharge 2 million gallons/year. Akin plans to have them do analysis on the brine for metals, semi-volatile organics, volatile organics, pesticides, and other wet chemistry. He was wondering how the brine might affect the CCLEAN sampling. Barbara said that the City of Watsonville has been accepting brine water since the beginning of the CCLEAN program. At Watsonville the brine is discharged directly into the effluent pipe and in Santa Cruz the brine will be discharged into the Effluent wet well. Dane suggested that the wet well where the brine will be discharged should be checked for stratification. John mentioned something about a static mixing device.

8) Set date for next meeting: The next meeting was set for July 10, 2003 10:00 to 12:00 noon at Watsonville WWTP.