

**From:** [Win, Robert@Wildlife](mailto:Win.Robert@Wildlife)  
**To:** [Yaeger, Keith@Waterboards](mailto:Yaeger.Keith@Waterboards)  
**Subject:** RE: Collectors permit for ocean monitoring program  
**Date:** Monday, February 5, 2018 8:39:26 AM

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Hi Keith,

Permit looks good to me, reading through your email and a quick scan of the permit, the only species that you may have issues getting permission or difficulty sampling in sufficient numbers is the copper rockfish. My experience is that the density of this species is generally low and our groundfish team tend to restrict or prohibit the take of this species. Is there an alternative species you could sample along with Vermillion?

Regards  
Rob

*Robert Win*

Environmental Scientist  
Statewide Marine Protected Areas Management Project/Scientific Collecting Permits  
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**From:** Yaeger, Keith@Waterboards [<mailto:Keith.Yaeger@Waterboards.ca.gov>]  
**Sent:** Thursday, February 01, 2018 1:05 PM  
**To:** Win, Robert@Wildlife <[Robert.Win@Wildlife.ca.gov](mailto:Robert.Win@Wildlife.ca.gov)>  
**Subject:** RE: Collectors permit for ocean monitoring program

Hi Rob,

I contacted you a couple months ago regarding a SCP for a wastewater treatment plant's ocean monitoring program. In our previous conversation, you mentioned sediment samples and hook and line fishing for fish tissue samples would likely be approved but you would need to see the final monitoring program before making a final decision. The draft permit (with the monitoring program) is out for public comment so I believe we are ready for your review.

Below is a summary of monitoring requirements that will require a SCP. I have also attached the draft permit (see Attachment E, section IV)

- 1) Attachment E, section IV.C- Benthic Monitoring (carried over from previous permit with the addition of sediment toxicity)
  - Requires 3 sediment samples per monitoring location taken with a 0.1 Van Veen grab sampler. These samples will be taken as close to each other as possible. The samples will be used for analyses of sediment chemistry and physical properties, sediment toxicity, and benthic community condition. There are a total of 7 monitoring locations that require sediment samples, I believe 1 location is outside the SMCA and 1 location is on the border. There will be a total of 21 sediment samples taken once every 5 years.

2) Attachment E, section IV.D.1 – Demersal Fish and Macroinvertebrate Diver Surveys (carried over from previous permit)

- Diver surveys will require sediment samples if the transect falls within a sand flat. There are 3 monitoring locations with each location containing 4 transects (20, 40, 60, and 80ft contours), one monitoring locations is outside the SMCA. Diver surveys will be conducted once every 5 years.

3) Attachment E, section IV.D.2- Rig fishing (new addition to the permit)

- Rig fishing will be used to collect fish tissue samples from flatfish and rockfish once every 5 years. There are 3 monitoring zones, each monitoring zone is 1km radius. One monitoring zone may fall outside the SMCA. At each monitoring zone there will be a total of 6 composite samples (3 for rockfish and 3 for flatfish), each composite sample consists of 3 fish. There will be a total of 27 rockfish and 27 flatfish collected every 5 years.
- The targeted flatfish species are Pacific sanddab (*Citharichthys sordidus*), longfin sanddab (*Citharichthys xanthostigma*), bigmouth sole (*Hippoglossina stomata*), and hornyhead turbot (*Pleuronichthys verticalis*). If sufficient numbers of these primary flatfish species are not present in a zone, secondary candidate species such as the California scorpionfish (*Scorpaena guttata*) and halfbanded rockfish (*Sebastes semicinctus*) may be collected as necessary.
- The targeted rockfish species are vermilion rockfish (*Sebastes miniatus*) and the copper rockfish (*Sebastes caurinus*). If sufficient numbers of these primary species are not present or cannot be caught in a particular zone, secondary target species (e.g., other rockfish, scorpionfish) may be collected and analyzed as necessary.

I appreciate your review. If you see any issues, we can submit this email as a public comment and change the monitoring plan accordingly.

Feel free to contact me if you have any questions.

Thank you,

Keith Yaeger  
Environmental Scientist, Source Control Regulation Unit

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