



December 13, 2017

Mr. Scott Maloni
Vice President, Poseidon Water
5780 Fleet Street, Suite 140
Carlsbad, CA 92008

Subject: Response to the Santa Ana Regional Water Quality Control Board's Independent Scientific Peer Review Additional Information Request Email of December 7, 2017

Dear Mr. Maloni:

I reviewed the additional information request you received from the Santa Ana Regional Water Quality Control Board on December 7, 2017 and prepared the following response detailed in Table 1 below. Some of the reports were prepared by other consultants. I have reached out to them to compile the requested data, but it should be noted that some subtle variation in approaches to each analysis exists based on the consultant doing the work. Also, I have included an errata letter to be included with Appendix T recalculating the standard error for the one estuarine taxa included in the Area of Production Foregone estimate. I revised the calculation in accordance with the comments by Dr. Peter Raimondi in Appendix F1 of the recently certified California State Lands Commission Supplementary Environmental Impact Review. This changes the final estimated diffuser impact estimate based on the discharge shearing analysis example provided in the Substitute Environmental Document associated with the 2015 Amendment to the California Ocean Plan governing seawater desalination. I also updated Appendix NNNN with Appendix NNNN-Rev1 as the corrections to Appendix T cascaded to Appendix NNNN. Three taxa were added to the analysis presented in Appendix NNNN and its subsequent revision (Appendix NNNN-Rev1) per the request of the Santa Ana Regional Water Quality Control Board and State Water Board staffs. The Appendix T analysis was not updated to add these three taxa. The Appendix T errata only updated the analyses initially presented in Appendix T.

I have provided two Microsoft-Excel files containing the information requested as outlined in Table 1. I noted that some of the reports referenced in the additional information request were narrative reports with no calculations uses, especially no Area of Production Foregone calculations. I highlighted those in Table 1 accordingly.

Sincerely,
HDR

Eric Miller
Environmental Project Manager

Table 1. Detailed list of requested information and consultant responses including directing to the appropriate file and worksheet.

Request	Response
Latitude and longitude for each of the seven 2003-2004 HBGS sampling stations (E, D2, D4, O2, O4, U2, U4).	See "HBGS 03-04 Station Coords" tab in Data Files.xlsx
Latitude and longitude for all of the sampling stations in the 2014-2015 ichthyoplankton study	Same as Station E in 2003-04 Study
Data for the 2014-2015 ichthyoplankton study conducted for comparison to the 2003-2004 HBGS data	See "AppQ 14-15 Data" tab in Data Files.xlsx
Latitude and longitude for the sampling stations in the 2004-2005 CalCOFI ichthyoplankton study that were used for comparison to the 2003-2004 HBGS data (i.e., Seal Beach trawls).	See "CalCOFI Station Coords " tab in Data Files.xlsx
The 2004-2005 CalCOFI ichthyoplankton data collected from the stations that Poseidon's consultants used for comparison to the HBGS data	See "04-05 CalCOFI data" tab in Data Files.xlsx
Data and calculations demonstrating how data were used in ETM/APF calculations that form the basis for the results and conclusions discussed in the following technical memoranda	
Appendix Q – Tenera Environmental, November 6, 2016, Memorandum on Entrainment Data Summary	No ETM/APF was calculated in Appendix Q
Appendix T – MBC Applied Environmental Sciences, March 1, 2016, HBDF Diffuser Discharge Analysis – See Errata	See "App T 180 MGD Discharge" tab in Data Files.xlsx
Appendix V – Tenera Environmental, July 1, 2015, Memorandum on approach for APF calculations at Huntington Beach	See the four tabs beginning with "AppV..." tab in Data Files.xlsx
Appendix NNN – Response to Regional Board request regarding entrainment data and APF mitigation calculations	No ETM/APF was calculated in Appendix NNN, only a narrative report.
Appendix NNNN – HDR, June 26, 2017, Response to RCF 2: Estimated Area of Production Foregone for each Station Sampled in 2003-2004 – See Revised NNNN	See App NNNN Data.xlsx file
Appendix SSSS – HDR, August 15, 2017, Review of the California Coastal Commission Staff's August 3, 2017, Review of Poseidon's Entrainment Effects Analysis	No ETM/APF was calculated in Appendix SSSS, only a narrative report.
Appendix VVVV –HDR, November 13, 2017, Review of Revised Draft Technical Memorandum	No ETM/APF was calculated in Appendix VVVV, only a narrative report.