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SECRETARY FOR  
ENVIRONMENTAL PROTECTION

## State Water Resources Control Board

January 14, 2014

Julian Olden, Ph.D.  
Associate Professor  
School of Aquatic and Fishery Sciences  
University of Washington  
1122 NE Boat Street  
Seattle, WA 98195

Dear Professor Olden,

### **REQUEST FOR EXTERNAL PEER REVIEW OF DRAFT VOLUME DEPLETION APPROACH STUDY**

I have been asked by the State Water Resources Control Board, Division of Water Rights (DWR) to continue managing the external scientific peer review of the subject noted above. DWR will not communicate with the approved reviewers, such as yourself, nor know their identities, until I send the reviews to DWR.

My letter today is intended to initiate the next phase of the external review – the actual reviews themselves.

Included with this letter are the following key documents:

1. Memo dated October 16, 2013, from Amanda Montgomery to Gerald Bowes, "Request for External Peer Review of Draft Volume Depletion Approach Study," which included the following attachments:
  - Attachment 1: Summary of Proposed Action
  - Attachment 2: Description of Scientific Conclusions to be addressed by Peer Reviewers
  - Attachment 3: Individuals Involved in Volume Depletion Approach Study
  - Attachment 4: List of Documents to be Reviewed (Attachment 4 describes the documents to be reviewed, and provides background for them)
2. January 7, 2009 Supplement to the Cal/EPA Peer Review Guidelines.

#### Comments on the foregoing:

1. You have been sent the October 16, 2013 request letter during the solicitation process for reviewer candidates conducted by the University of California, Berkeley's Institute of the Environment.
2. Attachment 2 to the request letter provides focus for the review. I ask that you address all scientific conclusions, as expertise allows, in the order listed.

FELICIA MARCUS, CHAIR | THOMAS HOWARD, EXECUTIVE DIRECTOR

3. The January 7, 2009 Supplement – you received this earlier when I approved you as a reviewer. I am sending it again to make certain that you have it. In part, it provides guidance to ensure the review is kept confidential through its course. The Supplement notes reviewers are under no obligation to discuss their comments with third-parties after reviews have been submitted. We recommend they do not. All outside parties are provided opportunities to address a proposed regulatory action through a well-defined regulatory process. Please direct enquiring parties to Ms. Amanda Montgomery (Amanda.Montgomery@waterboards.ca.gov).

The reports to be reviewed, including appendices and CDs, were prepared by a contractor for the Division of Water Rights. The contractor's reports, including appendices, can be accessed at a FTP site. See attached instructions. Use username (reviewer) and password (swrcb01/14) given. If you have any clarification questions about this material, especially about how it relates to your review, contact me as soon as possible.

The information at the FTP site also is produced in two hard copy volumes arranged according to the following table of contents. The FTP site format differs from that used for the hard copies. The information at the site and in the copies is identical. The attached FTP site instructions describe what you will locate in the links. At your request, hard copies are not being sent to you because of your sabbatical location in Australia.

Table of Contents for hard copies:

Two Volume Draft Report for Peer Review (Dated December 30, 2013): "Protectiveness of Alternative Guidelines in North Coast Instream Flow Policy Section A.1.8.3," which includes the following:

Volume 1

January 6, 2014 Final Memorandum from Molly Palmer. This memorandum contains notes and corrections to provide clarify of the contents of the report.

Revised List of Appendices (page viii), reproduced here:

Appendix A Final Draft Field Study Report

*Appendices to the Final Draft Field Study Report*

Appendix A Raw Datalogger Records

Appendix B Surveyed Cross-sections at Datalogger Transects

Appendix C Corrected Datalogger Records

Appendix D Rating Curves at Datalogger Transects

Appendix E Flow Time Series

Appendix F Photos of Benthic Macroinvertebrates

Appendix G Rating Curves at Habitat Transects

Appendix H Velocity Simulation Results Based on Measured Velocity Distribution for Each Spawning Habitat Transect

Appendix I Velocity Simulation Results Based on Manning's Equation Prediction at High Flow for Each Spawning Habitat Transect

Appendix B Final Draft Hydrologic Modeling Report

*Appendices to the Final Draft Hydrologic Modeling Report*

Appendix A Precipitation and Potential Evapotranspiration Time Series

Appendix B Flow Time Series Used for Calibration

Appendix C HSPF Model Files

Appendix D HSPF Results: Unimpaired Flow Time Series

Volume 2

Appendix C Habitat Flow Curves  
Appendix D Flood Frequency Results  
Appendix E Passage and Spawning Day Results

Please return your review directly to me, on Wednesday, February 5, 2014, and not before. Questions about the review, or review material, should be for clarification, in writing – email is fine, and addressed to me. My responses will be in writing also. DWR should not be contacted. I will subsequently forward all reviews together to Ms. Amanda Montgomery with reviewers' Curriculum Vitae. All this information will be posted at the appropriate DWR program web site.

Your acceptance of this review assignment is most appreciated.

Sincerely,



Gerald W. Bowes, Ph.D.  
Manager, Cal/EPA Scientific Peer Review Program  
Office of Research, Planning and Performance  
State Water Resources Control Board  
1001 "I" Street, MS-16B  
Sacramento, California 95814

Telephone: (916) 341-5567  
Facsimile: (916) 341-5284  
Email: GBowes@waterboards.ca.gov

Attachments

## FTP Site Instructions

Go to the FTP website:

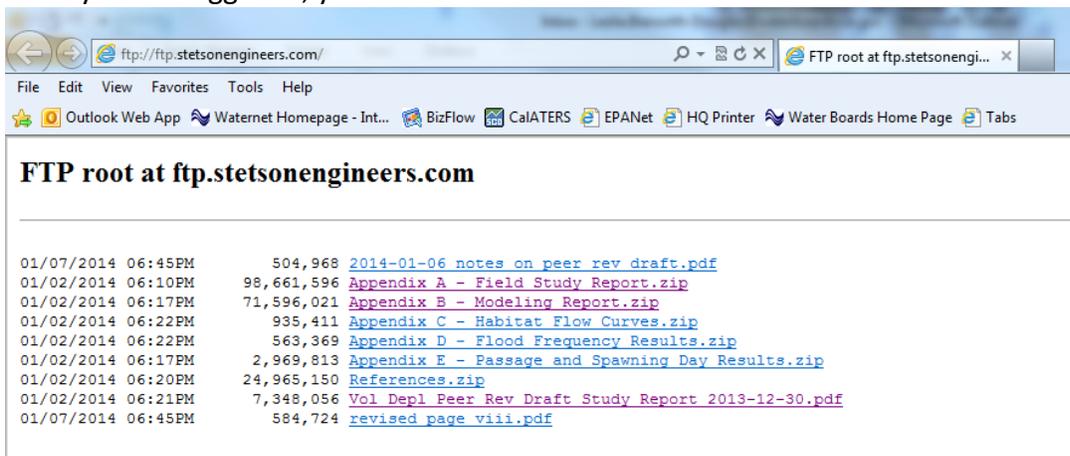
<ftp://ftp.stetsonengineers.com/>



username – reviewer

password – swrcb01/14

Once you are logged in, you will see this screen.



Here is what you'll find in each of the links.

### Relates to Hard Copy Volume 1 of 2

*2014-01-06 notes on peer rev draft.pdf* – This is a memorandum from Molly Palmer the contractor; this memorandum contains notes and corrections to provide clarification of the contents of the report.

*Revised page viii.pdf* – this page was revised to show in more detail what is included in Appendix A through E of the Draft Report.

*Vol Depl Peer Rev Draft Study Report 2013-12-30.pdf* – This is the Draft Report for Peer Review.

*References.zip* – This is a list of references used for this report.

*Appendix A – Field Study Reprot.zip* – This is the field study report along with its supporting appendances A through I and references.

*Appendix B – Modeling Report.zip* – This is the modeling report along with its supporting appendances A through D and references.

Relates to Hard Copy Volume 2 of 2

*Appendix C – Habitat Flow Curves.zip* – This is the habitat flow curves graphs and charts.

*Appendix D – Flood Frequency Results.zip* – This is the flood frequency result graphs and charts.

*Appendix E – Passage and Spawning Day Results.zip* – This is the passage and spawning day results graphs and charts.