



TERRAQUA INC.

TERRESTRIAL AND AQUATIC APPLIED RESEARCH AND MANAGEMENT

MEMORANDUM

TO: Dr. Chris Jordan
FROM: Mike Ward, Vice-President of Terraqua, Inc.
DATE: 1/3/04
SUBJECT: BiOp reporting required under Release #2 of Master Agreement #14880

Language in Releases #1 and #2 is repeated here (in italics) to guide BiOp reporting. BiOp reporting elements are in regular font.

Contract reporting will include the following information. This report is due on or before December 15, 2003, to cover the previous Fiscal Year accomplishments and planned work in the current and future Fiscal years.

- 1. Concise summary of research, monitoring, or evaluation deliverables for the project (what was or is planned for the prior and future Fiscal Years)*

Release #1 of Master Agreement #14880 pertained strictly to coordination of contract scoping for habitat field work for the Wenatchee subbasin while Release #2 is supporting Project #2003-017-00 (the Project) by coordinating subbasin and basin-wide cooperating entities; by developing an implementation strategy and data dictionary; by providing contingent field support, and by analyzing data and macroinvertebrate samples.

All of Release #1 work was completed; this work began in FY03 and was finished in FY04. The Release #1 work accomplished coordination and contracting that was necessary for BPA to carry out the Project's monitoring and evaluation work (which will be described in more detail in reports by other contractors).

About 15% of Release #2 work was completed in FY04. The remainder of the work will be completed in FY2005. No on the ground research, monitoring, or evaluation was completed in FY2004 under Release #2. Research, monitoring, or evaluation work anticipated in FY2005 for the Project is described in detail in the following document:

Hillman, T.W. 2003. Monitoring strategy for the Upper Columbia Basin: Draft report December 1, 2003. Prepared for Upper Columbia Regional Technical Team, Wenatchee, Washington.

- 2. Concise summary of research, monitoring, or evaluation accomplishments for the project (what was accomplished in the prior Fiscal Year)*

Release #2 is supporting Project #2003-017-00 (the Project) by coordinating subbasin and basin-wide cooperating entities; by developing an implementation strategy and data

dictionary; by providing contingent field support, and by analyzing data and macroinvertebrate samples.

3. *The RPAs that the research, monitoring, or evaluation are believed to contribute to or accomplish. The RPA Action Item for this project are 180, 181 and 183.*

No on the ground research, monitoring, or evaluation was completed in FY2004 under Release #2.

3. *The specific biological and physical metrics that were monitored (i.e. stream temperature, par densities, etc. For more information on types of status and action effectiveness metrics and proposed protocols see Action Agency and NMFS FCRPS BiOp RME Plan <http://www.efw.bpa.gov/cgi-bin/FW/welcome.cgi>)*

No on the ground research, monitoring, or evaluation was completed in FY2004 under Release #2.

4. *The spatial (GIS coordinates) and temporal characteristics of the monitoring (where, when, frequency, and/or duration)*

No on the ground research, monitoring, or evaluation was completed in FY2004 under Release #2.

5. *The Endangered Species Unit(s) that are being monitored or for which habitat is being monitored (refer to list at <http://www.efw.bpa.gov/cgi-bin/FW/welcome.cgi>)*

No on the ground research, monitoring, or evaluation was completed in FY2004 under Release #2.

6. *Where and how the associated data and meta-data are stored (i.e. personal Access database, Streamnet, etc.) and contact person or web site for access.*

No data or meta-data were collected or stored because no on the ground research, monitoring, or evaluation was completed in FY2004 under Release #2.

cc:

SENT BY EMAIL ON 1/3/05