

- Final -
CRCIP AMT Quarterly Meeting Notes
January 22, 2014

The CRCIP Adaptive Management Team held its quarterly scheduled meeting from 9:30 am – 3:30 pm on January 22, 2014, at the Portland District Corps office. The following AMT members and presenters participated in person:

Greg Smith, USACE	Shyam Nair, E2	Steve Bartell, Cardno
Jeff Fisher, NMFS	Charles Seaton, OHSU	ENTRIX
Jessica Stokke, USACE	Paula Calvert, ODEQ	Kathy Roberts, FWS
Antonio Baptista, OHSU	Dan Bottom, NMFS	

Although WDOE and DLCD AMT members were not present, these agencies made prior arrangements to accept decisions made by the rest of the AMT if they could not attend. Therefore, there was a quorum at the January 2014 meeting and decisions were made regarding MA-1 and MA-4.

November 2013 AMT Meeting Notes

The draft November 2013 meeting notes were provided to the AMT prior to the January 2014 quarterly meeting. Additional time to review the November minutes was provided and the minutes will be revised as necessary and finalized prior to the May 2014 AMT meeting.

The following topics were addressed by the AMT participants during the January 2014 quarterly meeting:

AEM Workbook 4th Quarter Review for 2013

The following relevant components of the CRCIP AEM Workbook were discussed at the January 2014 quarterly meeting.

MA-1 CORIE Analyses

The available data for the January 2014 AMT meeting reflect the previous and current status of the CORIE (CMOP) stations required for the MA-1 analyses. The following data were available for analysis prior to the January meeting:

- grays: temperature, salinity and depth (November through December 2013)
- tansy: temperature and salinity (November through December 2013)
- woody: temperature (November through December 2013)
- cbnc3: temperature and salinity (reconstructed through December 2013)
- dsdma: salinity (November through December 2013)

Temperature

Daily median water temperature values calculated for the tansy station for November 2013 were generally within the 20th-80th percentile decision criteria. Values in late November and most of December 2013 were typically within the 5th and 20th percentile decision criteria or lower than the 5th percentile value. Water temperatures appeared somewhat lower during this period and appeared to largely reflect colder weather characteristic of the Northwest during December 2013.

Daily median values of water temperature computed for the grays station demonstrated a temporal pattern similar to the tansy station in November and December 2013. Temperature values at grays were generally within the 20th and 80th percentile decision criteria in November. However, daily values for most of December were less than the 5th percentile decision value.

Temperature data for cbnc3 were reconstructed for November through December 2013. The daily median values for November, similar to the grays station, were generally within the 20th and 80th percentile decision criteria. However, computed values for the first half of December were less than the 5th percentile value. Temperatures varied within the 5th and 20th percentile decision criteria for the second half of December.

The availability of November – December temperature data from the woody station permitted the development of normalized water temperature plots for this time period in 2013. The plots were constructed for the tansy, grays, and cbnc3 stations. Inspection of the normalized temperature plots for 2013 indicated that the comparisons were consistent in the overall pattern defined by the pre-Project (1996-2004) normalization.

The monthly averaged median temperature values for tansy were within the 20th – 80th decision criteria for November 2013. The December 2013 monthly values were lower than November, but within the 5th – 20th percentile decision criteria. The monthly averaged median temperature values for grays were within the 20th – 80th percentile decision criteria for November 2013. The December 2013 monthly average value for grays was equal to the 5th percentile decision criteria. The monthly averaged median temperature values for cbnc3 were within the 20th – 80th decision criteria for November 2013. The December 2013 value was also within the 20th – 80th percentile decision criteria.

Analysis of the post-Project construction CORIE data available through December 2013 continues to suggest that the channel improvements did not have any measurable impact on water temperatures recorded at the MA-1 stations.

Salinity

The November – December daily median salinity values computed using data available for the tansy station were generally within the 20th-80th percentile decision criteria for

these two months. However, several of the daily median values for these two months were between the 5th and 20th percentile criteria values. No values exceeded the 5th or 95th percentile decision criteria.

Daily median values calculated for salinity data available for November – December 2013 for the grays station were highly variable and ranged from near zero to ~4.6 psu. The values were mainly distributed between the 20th and 80th percentile decision criteria for these two months. Several values for November and late December were within the 80th - 95th percentile decision criteria. No values exceeded the 5th or 95th percentile decision criteria.

The November – December daily median salinity values computed using data available for the cbnc3 station ranged from approximately 0.1 to 7 psu. The median values were generally within the 5th-20th percentile decision criteria for these two months. No values exceeded the 5th or 95th percentile decision criteria.

Salinity data were available for the dsdma station during November – December 2013. Therefore, normalized salinity plots were developed for this time period. The plots were constructed for the tansy, grays, and cbnc3 stations. Inspection of the normalized temperature plots for 2013 indicated that the comparisons were consistent in the overall pattern defined by the pre-Project (1996-2004) normalization.

The monthly averaged daily median values of salinity for the tansy station were within the 20th – 80th percentile decision criteria for November – December 2013. The corresponding monthly averaged values for grays were also within the 20th – 80th percentile decision criteria for November – December 2013. The November and December 2013 monthly averages for cbnc3 were 0.1 psu, slightly less than the 5th percentile decision criterion of 0.2 psu.

The post-Project construction CORIE data available through December of 2013 continue to suggest that the channel improvements did not result in significant saltwater intrusions at the MA-1 stations.

Depth

Depth data were available for only the grays station from October through December 2013. Daily median depths were well within the previously established AMT decision criteria. The monthly average values calculated for this time period were within the corresponding 20th and 80th percentile decision criteria.

Extended Time-Series Plots

Shyam Nair (E2) continued the multi-year time series plots of temperature, salinity, and depth for the MA-1 CORIE stations. These plots were updated based on data available through December 2013 and presented at the January 2014 meeting.

The results of the 4th quarter 2013 MA-1 analysis have been posted in the MA-1 folder of the AEM Workbook on the E2 CRCIP web site. The AMT reached consensus that the Project had not measurably changed the monitored temperature and salinity values. The AMT concluded that the MA-1 requirements have been completed in relation to the CRCIP AEM Program.

MA-4 Habitat Analyses

The January 2014 meeting focused on review and discussion of the analysis of habitat requirements for MA-4. Dr. Antonio Baptista (OHSU) presented model results that were formatted according to recommendations developed by the AMT following the November 2013 AMT quarterly meeting. Dr. Dan Bottom (NMFS) participated in discussion of the implications of the model results in relation to MA-4 requirements. (See separate MA-4 agenda item below.)

Mitigation – Deer Translocation

Kathy Roberts (FWS) provided an update on the translocation of white tailed deer to the Ridgefield National Wildlife Refuge and Cottonwood Island. Forty-nine deer were originally relocated to Ridgefield. There are plans to move additional deer to Ridgefield as part of the overall recovery program for this listed species. Approximately 15 deer remain on Cottonwood Island. The overall success of the recovery program might lead to de-listing of this species if further suggested after a 5-y review.

MA-4 Presentation and Discussion of Modeling Results

Dr. Antonio Baptista presented the latest MA-4 results with one update from the read-ahead materials sent out to the AMT prior to the meeting. The model results were summarized according to recommendations made by the AMT following the November 2013 quarterly meeting. Antonio and his team completed their examinations of the model results and found that the larger changes in salmon habitat opportunity (SHO) were all in areas where the model accuracy and reliability were questionable. Therefore, the changes do not reflect actual system behavior, and are likely model artifacts. Given the current model results, but without a thorough review, Dan Bottom said he did not have concerns about CRCIP impacts to salmon habitat opportunity. The AMT agreed that there were no concerns and that the MA-4 requirements were complete.

However, the AMT recommended that Antonio use a recalibrated model (which fixed the standing wave error near Beacon Rock) to do one last simulation. He will not change the bathymetry (as he suggested) because the AMT feels that using 2012 bathymetry in the

channel above Portland to represent post-CRCIP conditions is appropriate and conservative. Baptista expects the final simulation to show similar, if not smaller, changes in SHO. If there are greater than anticipated changes, the AMT may reverse its decision that MA-4 is complete. The date of the next/final AMT meeting will be set after confirming final report schedule with Antonio.

May 2014 Agenda Items

The following topics were identified as items for the May 2014 AMT meeting:

- MA-4 revised modeling results in format requested by the AMT
- There might be a mitigation site visit pending logistics.

The January 2014 AMT meeting adjourned at 12:35 pm PDT.