

James River CHLa Study – 2014 Fall Review

Modeling Workgroup

October 1, 2014



Science Advisory Panel

- Met April to evaluate results from 2012-2013 data collection activities, & review progress in modeling effort
- Data analysis underway
 - Balanced algal community
 - Water quality metrics (DO, pH, Kd, toxins)
- Report preliminary findings at Fall meeting (Nov)

Other Activities

- Stackholder Advisory Group – Sept 15
- WQGIT – Oct 8th



JR Chl-a Study

**Science Advisory Panel Reports for 2012 & 2013
now available**

[http://www.deq.virginia.gov/Programs/Water/WaterQualityInformationTMDLs/WaterQualityStandards/NutrientCriteriaDevelopment.aspx#James R CHLa Study](http://www.deq.virginia.gov/Programs/Water/WaterQualityInformationTMDLs/WaterQualityStandards/NutrientCriteriaDevelopment.aspx#James_R_CHLa_Study)

**Modeling efforts extended thru end of 2015 to
include the 2011-2013 data (report pending)**

**Report on empirical relationships between harmful
algal blooms and potential impacts to the
aquatic life - due end of this year**

**Scientific Study Report summarizing the Panel
findings - due mid-2015**

Original Schedule - Modeling

		2012						2013						2014						2015																	
Task	Description	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
1	Data Inventory & Integration	█	█	█																																	
2	Empirical Data Analysis	█	█	█	█	█	█	█	█	█																											
3	Model Review & Selection	█	█	█	█																																
4	Model Calibration/Verification				█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█														
5	Sensitivity & Uncertainty Analysis													█	█	█	█	█	█	█	█	█	█	█													
6	Scenario Development & Implementation																							█	█	█	█	█	█	█	█	█	█	█	█	█	█
7	Alternatives Criteria Assessment																																				
8	Communication with SAP	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
9	Modeling Report																																				

Modified Schedule – 2011-13 Data

[illegible]

JR Chl-a Study Schedule

2011	- - - - -	Workplan Developed Notice of Intended Regulatory Action (NOIRA)
2012	- - - - -	Workplan Implementation
2012-14	- - - -	Monitoring and Modeling
2015	- - - - -	Science Panel Criteria Recommendations EPA/STAC criteria review, and JR Model TMDL Scenarios
2016	- - - - -	Develop Regulatory Proposal (if appropriate) EPA/STAC Model Review
2017	- - - - -	Complete Regulatory Review & WIP considerations