

Status and Trends Workplan

Updated: December 2022

Workgroup Mission

- A. Ensure the integrity of the Indicators Framework by focusing the development and use of information in the CBP with the principles described in the Framework.
- B. Foster cross-outcome collaboration among the Goal Implementation Teams (GITs) on identified information needed to track progress toward and adaptively manage achievement of goals and outcomes.
- C. Staff the indicators management process.

Key Actions

**Note: Items with an asterisk indicate that taking the action is contingent upon group discussion and consensus that determines the action would be helpful or necessary.*

To the extent possible, meeting agendas will be organized around specific issues or stories and designed to foster cross-outcome collaboration.

Priorities of Workgroup, in order agreed upon by STAR in February 2021:

1. Indicator Development: Streamlining the process through information sharing
2. Updating Indicators to Chesapeake Progress
3. Factor Influencing Indicators
4. Involvement in SRS and SSRF process as liaisons

Action Number	Action	Priority Item	Mission Area	Lead	Status	Timeframe for Completion
					Green = completed yellow = progress made blank = not yet addressed	
1	Increase accessibility of materials to support GITs in developing/maintaining indicators, including documents pertaining to guiding questions for developing indicators and the indicators framework	1	A	Katheryn Barnhart, Alex Gunnerson	Actions taken. Remodeled website and have begun cataloging indicator-specific SOPs for updates	Ongoing

2	Share and collaborate on plans related to development of any revised/new indicators, including ...	1	C	GIT coordinators and staffers		
	<ul style="list-style-type: none"> Climate Resiliency Monitoring and Assessment 			Julie Reichert-Nguyen	<i>Support request to MB. Tidal Bay Water Temperature Indicator proposed</i>	March 2022 (Water temp ind)
	<ul style="list-style-type: none"> Climate Adaptation 			Julie Reichert-Nguyen		TBD
	<ul style="list-style-type: none"> Local Leadership 			Laura Cattell Noll	<i>Indicators approved by STWG</i>	December 2022
	<ul style="list-style-type: none"> Stream Health 			Chris Guy and Katlyn Fuentes	<i>Indicator developed; work to refine</i>	April 2022
	<ul style="list-style-type: none"> Tree Canopy 			Julie Mawhorter	<i>Indicator not approved by GIT. Re-entering approval cycle with modified indicators</i>	December 2022
	<ul style="list-style-type: none"> Brook Trout 			Chris Guy and Katlyn Fuentes	<i>Indicator to be developed from current GIT funding project</i>	2023
	<ul style="list-style-type: none"> Black Duck (Habitat-based indicator) and Wetlands 			Chris Guy and Katlyn Fuentes	<i>Tool developed. Plans to leverage contract work for updating indicator</i>	April 2023
	<ul style="list-style-type: none"> Wetlands 			Chris Guy and Katlyn Fuentes	<i>Tool in development through contract. Discussion needed to determine plan for future update</i>	April 2023
	<ul style="list-style-type: none"> Water Quality Standards Attainment (addition to current indicator) 			Peter Tango and Qian Zhang, Breck Sullivan	<i>Metric under revision after presentation to STWG</i>	Late 2022
	<ul style="list-style-type: none"> Healthy Watersheds 			Renee Thompson	<i>Drafted the Chesapeake Healthy Watersheds Assessment . Discussion needed for how to incorporate results as indicators on ChesapeakeProgress</i>	2023
	<ul style="list-style-type: none"> Forage Fish 			Bruce Vogt and Justin Shapiro	<i>In progress – suite of five indicators. Three metrics available for development into indicators and are slated for discussion in early 2023</i>	2023
	<ul style="list-style-type: none"> Fish Habitat 			Gina Hunt and Justin Shapiro	<i>developing a suite of indicators that evaluate habitat condition and living resource responses.</i>	TBD

	<ul style="list-style-type: none"> Toxic Contaminants Research 			Greg Allen and Hilary Swartwood	<i>Conversations in progress for baseline, but have not occurred since late 2021</i>	2022
	<ul style="list-style-type: none"> Land Use Options Evaluation 			Renee Thompson	<i>Hinges on indicator development for Land Use Methods and Metrics</i>	TBD
	<ul style="list-style-type: none"> Land Use Methods and Metrics 			Peter Claggett	<i>Indicator approved. Peter working on documents for update</i>	End of 2022
	<ul style="list-style-type: none"> Periodic evaluation of GIS needs related to indicators or envisioning status or trends of indicators 			Angie Wei		Ongoing
	<ul style="list-style-type: none"> Explore use of tidal water quality trends as performance indicator or influencing factor indicator 			Breck Sullivan		TBD
	<ul style="list-style-type: none"> (other indicators to be added as needs are identified). 			-----		
3	Develop list of possible indicators for outcomes with qualitative language	1	C	Katheryn Barnhart and Peter Tango		November 2021
4	Relate current outcome indicators as influencing factors for one another	3	A,B	Katheryn Barnhart, Susanna Pretzer, Doreen Vetter	<i>POCs are working with outcome representatives individually to identify top influencing factor indicators to incorporate in updates to outcome pages on ChesapeakeProgress. Blue Crab Management -> Abundance as prototype</i>	Ongoing
5	Formulate Prioritized List of Needed Indicators of Factors Influencing Our Work	3	A,B	Katheryn Barnhart and Peter Tango	<i>Will take place following 4. Only difference is this item requires development of new indicators, whereas we are beginning work with those already measured</i>	
	Develop prioritization plan or criteria to be applied to a to-be-created list of factors influencing indicator needs. <ul style="list-style-type: none"> Use guiding questions developed under action 1 of this work plan. 					

	Criteria to consider include (a) whether data gathering is possible and (b) whether it would support adaptive management					
	Compare “critical” factors among themselves and to “common” factors - what are the overlaps?					
	Based on these overlaps, work with <ul style="list-style-type: none"> GITs and STAR to identify needed factors influencing indicators GIS team to identify available data for threat or stressor factors 					
	Update and refine prioritized list of current and needed factors influencing indicators					
6	Use identified Influencing Indicators to highlight needed information to groups within CBP, e.g. STAR and STAC	3	B		<i>Begun through work toward 4, but will need a lead on how to incorporate, possibly as part of SRS but also science needs</i>	Ongoing
7	Work with GITs, ChesapeakeStat Team and Communications Team to ensure progress is being tracked toward non-measurable parts of outcomes through the biennial Strategy Review System process.	4	C		Drafted SOPs have been incorporated in updates of last few cohorts of 2022 and will continue into next SRS cycle	Ongoing
8	Development of Indicator Update SOPs for Indicator pocs	2	C	Katheryn Barnhart	<i>Indicators Coordinator working with each outcome representative and data provider as indicator updates occur to fill out SOPs</i>	Ongoing
9	Encourage use of indicators in adaptive management through biennial review process	1-4		Kristin Saunders and Katheryn Barnhart	<i>Presentation on Indicators to MB at May 2021 Meeting, Outcome attainability presentations at MB meetings and in SRS materials</i>	Ongoing

	Work with GITs to identify common factors and relationships among outcomes to showcase or examine in biennial reviews		B			
	<ul style="list-style-type: none"> Explore whether Status & Trends has the expertise to help workgroups and GITs determine appropriate trajectories, confidence intervals and decision thresholds, based on their existing indicators and targets 		B			
	<ul style="list-style-type: none"> Work with STAR to determine how the partnership can address this adaptive management need 			Peter Tango and Breck Sullivan		
	<ul style="list-style-type: none"> Encourage use of the Indicators Framework to identify other information needs 		B	Katheryn Barnhart		
	<ul style="list-style-type: none"> Work with information needs identified in biennial review process to determine if indicator is needed and, if so, guide GIT through indicator development process 		All	Katheryn Barnhart		
	<ul style="list-style-type: none"> Frame biennial review process as an opportunity to gauge Outputs (workplan activities) and their relationship to achievement of the overall Outcome. 		A	Kristin Saunders		
10	Assist the Partnership's Communication office in preparing to publish the Bay Barometer		C	Rachel Felver		Ongoing
11	Develop new trend icons for outcomes on Chesapeake Progress that better communicate outcome status and attainability		All	Kaitlyn May and Katheryn Barnhart		November 2021

12	Support STAR Science Needs discussions, taking note of science needs pertaining to indicators and keep them up to date	4	C	Katheryn Barnhart	Drafted plan to serve as “resource needs” curator that will intersect indicators, science needs, and beyond	Ongoing
13	Support STAR leadership and outcome representatives to keep the status of the indicator science needs up to date.	4	€	Katheryn Barnhart	<i>Incorporated into item 12</i>	Ongoing

	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	October 2022	December 2022
Grouping	All Workgroup	Existing Indicators	Indicator Development Group 2	Indicator Development Group 1	Existing Indicators	Indicator Development Groups 1&2	All Workgroup and outcome coordinators	All Workgroup
Members	All	<ul style="list-style-type: none"> Core STWG workgroup members Core associated outcome reps (Due 	<ul style="list-style-type: none"> Core STWG workgroup members Core associated outcome reps 	<ul style="list-style-type: none"> Core STWG workgroup members Core associated outcome reps 	<ul style="list-style-type: none"> Core STWG workgroup members Core associated outcome reps (Due 	<ul style="list-style-type: none"> Core STWG workgroup members Core associated outcome reps 	<ul style="list-style-type: none"> Core STWG workgroup members Core associated outcome reps 	<ul style="list-style-type: none"> Core STWG workgroup members Core associated

		for update May-June) <ul style="list-style-type: none"> Indicator data providers Communications workgroup leadership 		Contract work representatives	for update July-January) <ul style="list-style-type: none"> Indicator data providers Communications workgroup leadership 	Representatives from STAR monitoring workgroups	Contract work representatives	outcome reps
Meeting Topics Discussed	<ul style="list-style-type: none"> Directionality for Future Meetings 	<ul style="list-style-type: none"> Indicator Update Run-through and Discussion 	<ul style="list-style-type: none"> Overview of Indicators and Their Role in Adaptive Management Tree Canopy Indicator Dry Run Indicator Development Check-in 	<ul style="list-style-type: none"> Local Leadership Outcome Indicator Development 	<ul style="list-style-type: none"> Indicator Update Run-through and Discussion 	<ul style="list-style-type: none"> New TMDL Indicator Land Use Methods and Metrics Indicator Development 	<ul style="list-style-type: none"> Local Leadership Indicator Proposal Influencing Factor Indicators on Chesapeake Progress 	<ul style="list-style-type: none"> Tree Canopy Indicator Dry Run Revisiting STWG Structure and Workplan for 2023
Workplan Items Addressed (Action Number)	<ul style="list-style-type: none"> 1 & 8 	<ul style="list-style-type: none"> 2 	<ul style="list-style-type: none"> 2 & 9 	<ul style="list-style-type: none"> 2 	<ul style="list-style-type: none"> 2 	<ul style="list-style-type: none"> 2 	<ul style="list-style-type: none"> 2, 4, 6 	<ul style="list-style-type: none"> 2